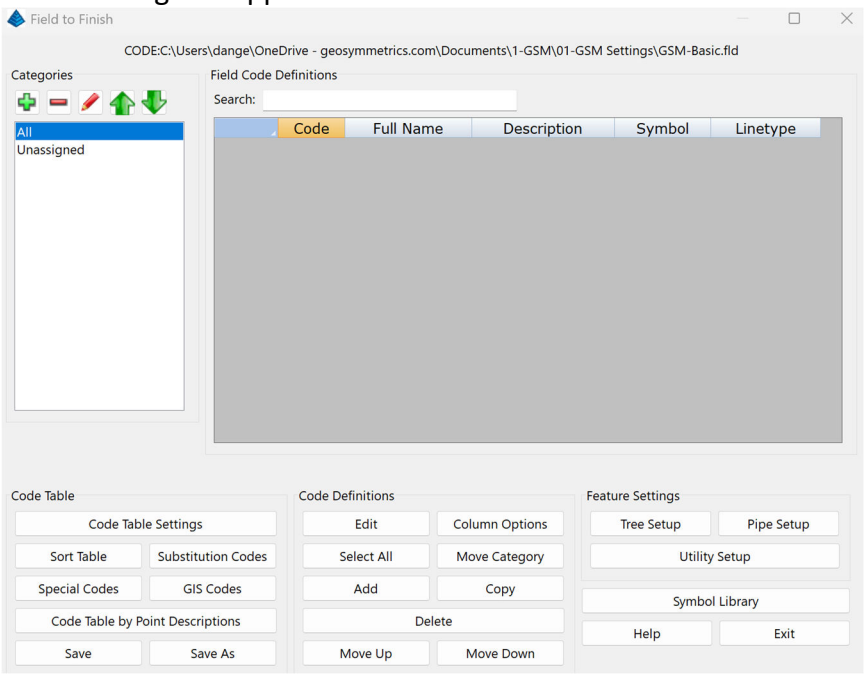
Field-to-Finish Part 2: Linework

Carlson's "Field to Finish" feature significantly increases efficiency in land surveying by automatically generating a complete drawing from raw data collected in the field, essentially eliminating the need for manual drafting by automatically placing lines, symbols, and annotations based on pre-defined field description codes, resulting in faster plan creation and reduced errors while maintaining consistency across projects within a company.

Workflow Steps

1. Open a new or existing in Carlson Survey.
2. Navigate to Survey Tab, Edit Field-to-Finish codes. A dialog box titled *Code Table* appears
3. Determine directory and path for a new file name for the new .fld file, then click "Open". Note: This .fld file can be used on the current drawing, new drawings, or existing drawings and is not linked to a particular project.
4. A new dialog box appears *Field-to-Finish*



5. Under Code definitions (bottom center of dialog box) choose the *Add* button and a new dialog box appears titled *Edit Field Code Definition.* This dialog box allows for customization of each code.

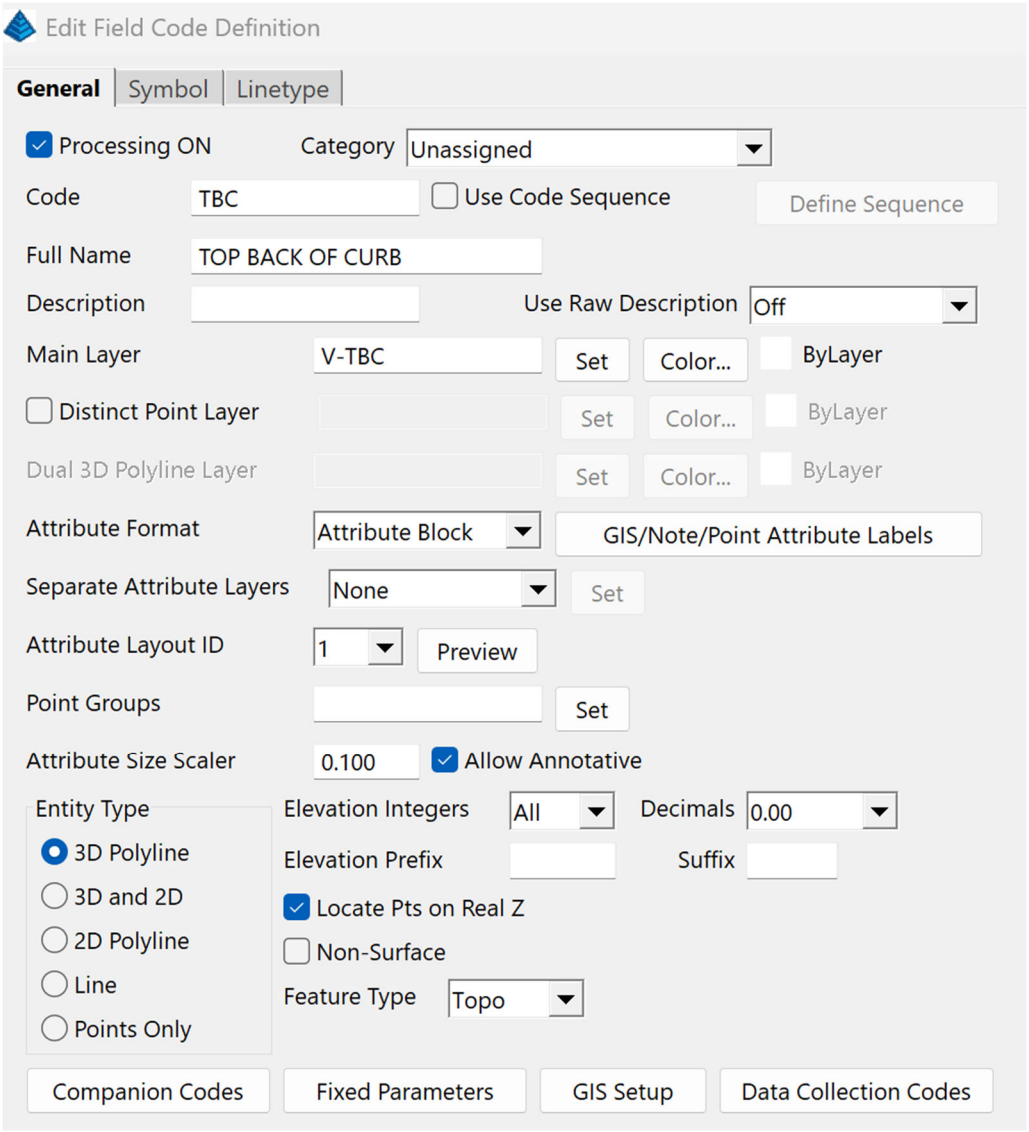
   Within the General tab, to add a code the following elements are required:
   a. Code (the description code used in the field)
   b. Full Name (complete name of the code)

c. Main Layer (this is the CAD layer associated with this specific code)
d. Entity Type (one type will always be selected)

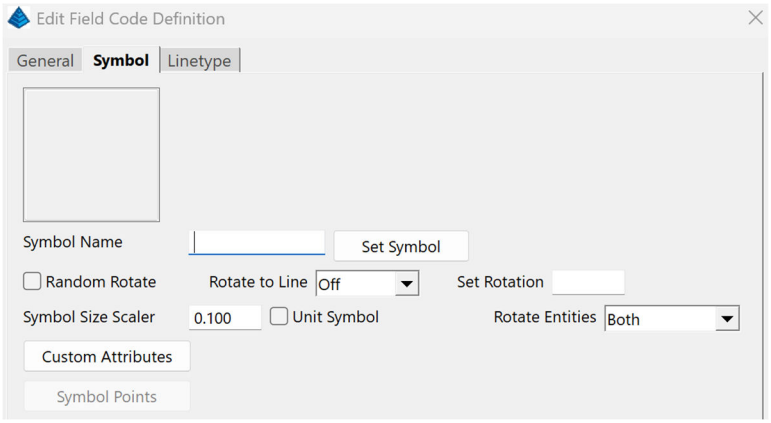
The example used in this Quick Reference Guide is as follows

e. Code: TBC
f. Full Name: Top Back of Curb
g. Main Layer: V-TBC
h. Entity Type: 3D Polyline

All other elements were left in a default position. With additional use and knowledge more customization may be implemented.



6. Navigate to the *Symbol* tab and ensure that no symbol has been selected. If a default symbol appears delete the Symbol Name and press Enter which will remove all references to a symbol for this code. As shown:



7. The *Linetype* tab contains additional customization specific to how the data was collected in the field. For example. linework being drawn based on numerical sequence or location in proximity to other points to be considered sequential or nearest found respectively. It also allows for control of each polyline whether it be closed or remains open.

8. Repeat steps 5 through 7 to create other Field Codes, such as sidewalk, flowline, break lines, lip of curb, fence lines, etc.
9. Click OK and Save then Exit
10. Once a few desired field codes have been created navigate to the Survey tab and select Draw Field to Finish. This requires a drawing with points in an associated coordinate file. The execution of this command in this example will draw the selected linework associated with every point with the description of TBC.