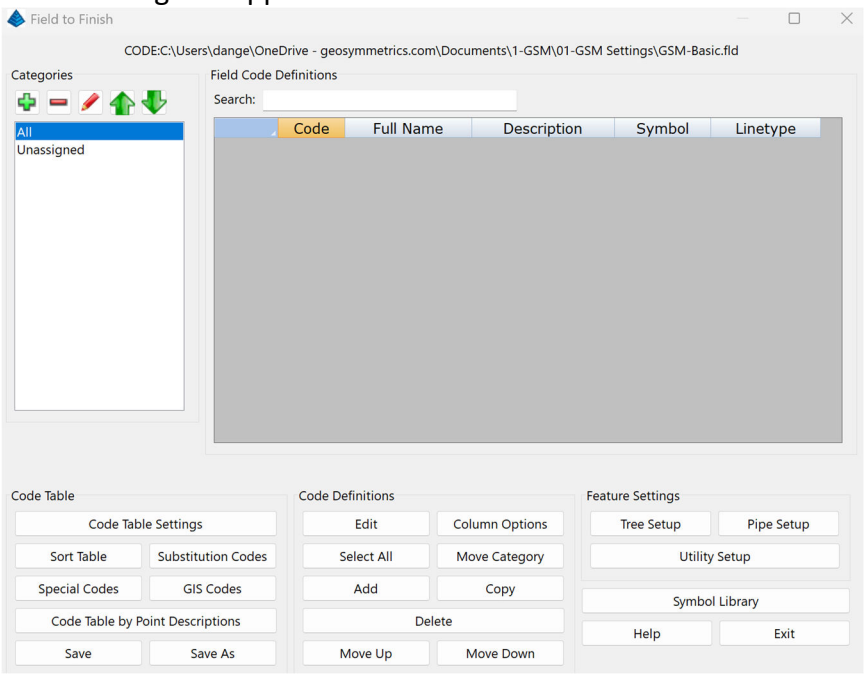
Field-to-Finish Part 1: Points Only

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.

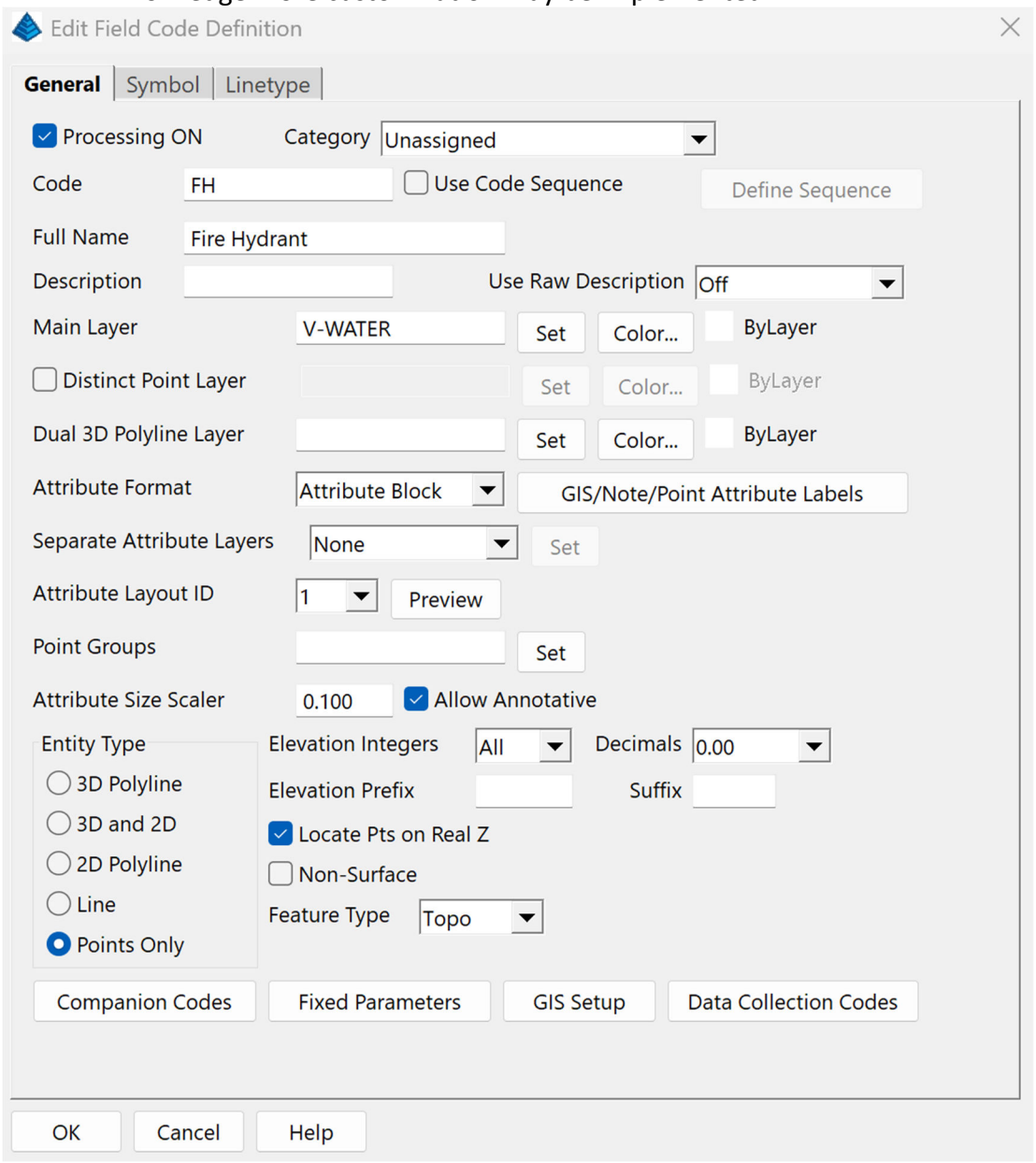
   Within the General tab, to add a code the following elements are required:
   a. Code (the description code used in the field)
   b. Full Name (complete name of the code)

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

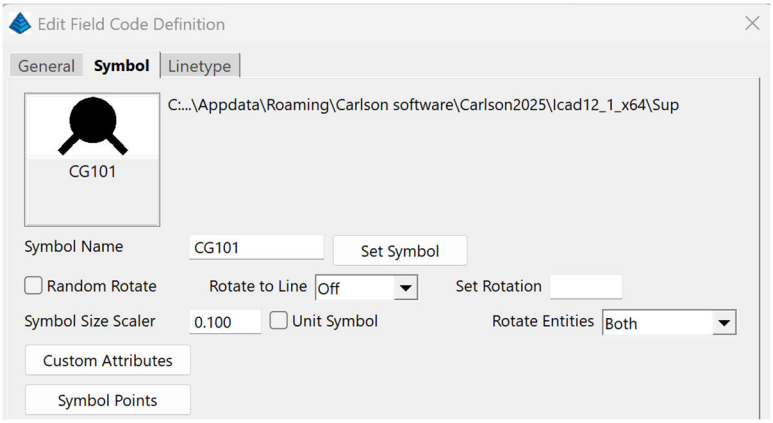
The example used in this Quick Reference Guide is as follows

e. Code: FH
f. Full Name: Fire Hydrant
g. Main Layer: V-Water
h. Entity Type: Points Only

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 select the desired symbol to be associated with the *FH* code by selecting the *Set Symbol* button then choose a symbol from one of the various symbol libraries (or a custom symbol). This example uses *CG101*.



7. Repeat steps 5 and 6 to create other Field Codes, such as water valve, trees, manholes, light poles, utility pole, etc.
8. Click OK and Save then Exit
9. 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 symbol (CG101) on every point with the point FH.

It is important to keep *Field to Finish* simple in the beginning of the learning process to correctly understand the results.

TIP: Now that a .fld file has been created be sure to save it in a directory where it can be easily retrieved for use with other projects (i.e. Company standards or templates directory).