ArcGIS .SHP to AutoCAD .DXF

For points follow 1 only; insertion points created in step 1 are adequate markers for point features. For polygon and line features follow all listed instructions.

1. To create the text annotation:
Use the <u>Feature To Point tool</u> to create a new point feature class from an existing polygon feature layer (necessary for polygons and lines only)
- Drag the polygon feature class from the table of contents or **Catalog** window into the **Input Features** text box or use the browse button to navigate to the source data and click **Add**.
- Click the **Output Feature Class** browse button, navigate to a geodatabase, type a name for the new feature class, and click **Save**.

Add reserved CAD fields to the attribute table. The CADType field specifies the type of CAD entity to be generated. You will use the **Field Calculator** to specify the keyword "TEXT".
- Right-click the feature layer in the table of contents and click **Open Attribute Table**.
- Click **Add Field** to open the dialog box.
- Type the field name **CADType** in the **Name** text box.
- Click the **Type** drop-down arrow and click **Text** to assign the data type.
- Change the default field length of **50**.
- Click **SAVE** to close the dialog box and create the field.
- Right-click the **CADType** field name in the attribute table and select Calculate Field on the shortcut menu.
- Type **"TEXT"**, including the double quotes, in the **Expression** text box.
- Click **OK** to run the tool.
- The CADType field now displays the value TEXT for all records.

Adding the field TxtValue. The TxtValue field specifies the value to be generated for each text entity. You will use the **Field Calculator** to calculate a value from an existing attribute.
- In the same attribute table, select **Add Field** to open the dialog box.
- Type the field name **TxtValue** in the **Name** text box.
- Click the **Type** drop-down arrow and click **Text** to assign the data type.
- Accept the default field length of **50**.
- Click **SAVE** to close the dialog box and create the field.
- Right-click the **TxtValue** field name and click Calculate Field on the shortcut menu.
- Clear any existing values in the Expression text box.
- Double-click or enter the field name that contains the values you want to export as text.
- Click **OK** to run the tool.
- The TxtValue field now displays the attribute values you will export as CAD text for each feature record.

Run the Export to CAD tool
- Using the Search window, find and open the Export to CAD tool.
- Drag the new point feature layer containing the reserved CAD fields from the table of contents to the **Input Features** text box.
- Click the **Output Type** drop-down arrow and choose a CAD format.
- Click the **Output File** browse button, navigate to a folder, type a name for the new CAD file, and click **Save**.
  - o Or, accept the default path and filename.
- Click **OK** to run the tool and generate the CAD file.
- Verify your results by examining the CAD annotation feature class in the newly created CAD file dataset.

2. To create the polyline drawing:
Use the Add CAD Fields tool to add the layer name and text annotation to an existing feature layer.
- Select layer from the Input Table drop down.
- Deselect all CAD-specific property fields except Layer Properties and select Run.
- Open the attribute table of the selected layer.
- Right click LyrName and select Calculate Field.
- Enter a representative name for the layer into the Expression text box and click OK.

Use the Export to CAD tool
- Select altered layer from the Input Features drop down.
- Select DXF version 2018.
- Leave the "Ignore Paths in Tables" checkbox selected.
- Under the Environments tab, select the current map coordinate system as the Output Coordinate System for the DXF.
- Select Run.

Double check to output DXF in available Autodesk software to ensure all of the data transferred correctly.

3. Merge layers in AutoCAD