

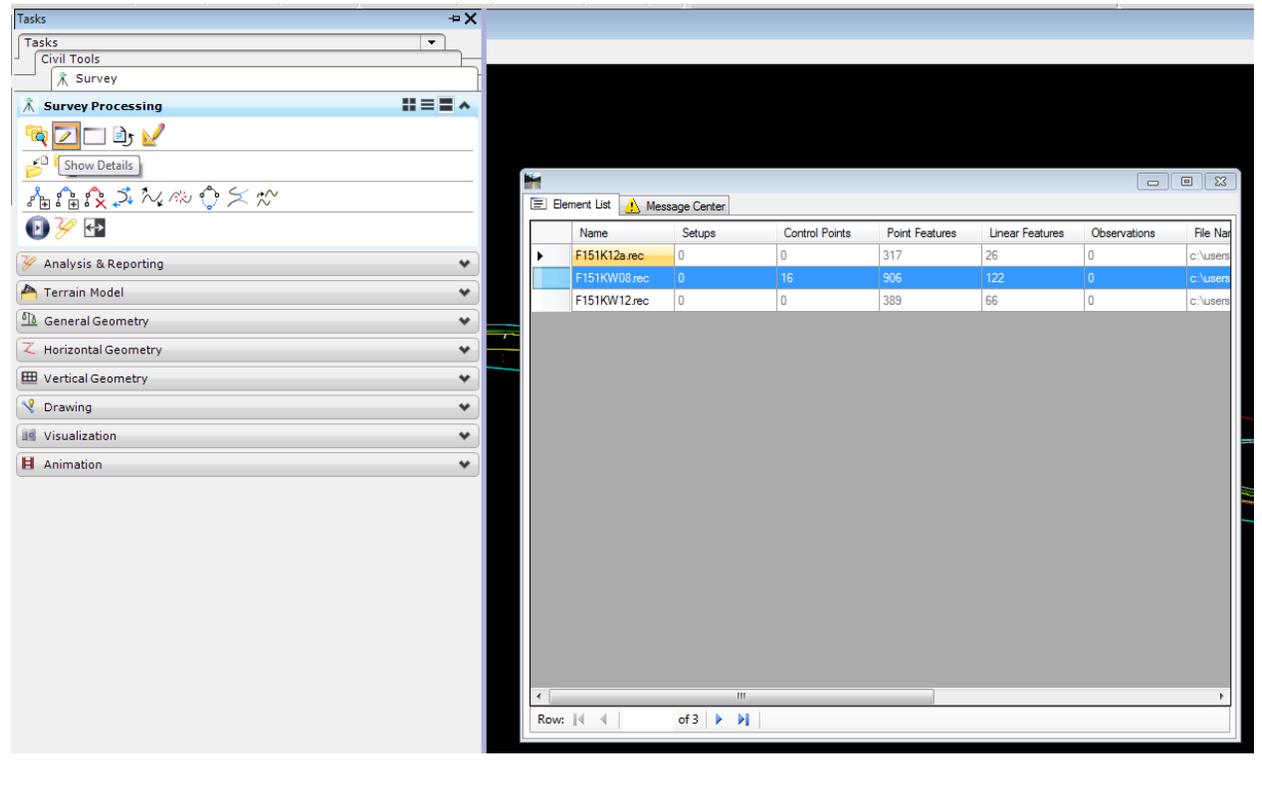
## Updating Flared End Section to Correct Size and Rotation

This process will show how to update flared end sections to the correct size and also get them rotated properly with the pipe they are associated to. You will still code the flared end sections (707 & 708) the same as you always have in the past when you are in the field collecting the existing topo data. But then when you process that data in MicroStation, you can change the feature definition code to the correct size.

Example would be is if there is a 48” concrete flared end section, you would change the feature definition from **708** to **708.48**. A 72” metal flared end section, you would change the feature definition from **707** to **707.72**.

1. Open the **Show Details** window panel. This will allow you to easily see all the features that are in the file.

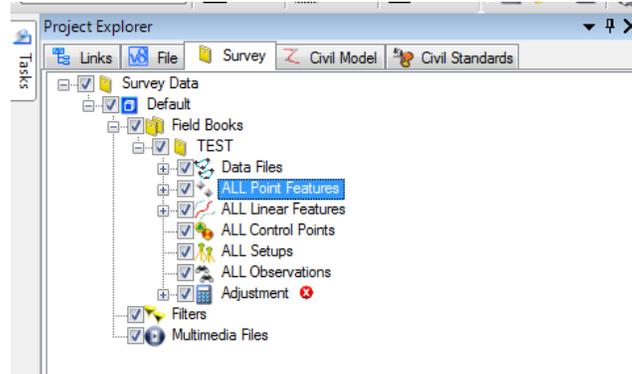
*Tasks>Civil Tools>Survey>Survey Processing>Show Details*



## 2. Go to the **Project Explorer** .

Navigate to *Survey Data > Default > Field Books > “Named” Field Book > All Point Features*.

You should see all the point features in the *Show Details* window pane.

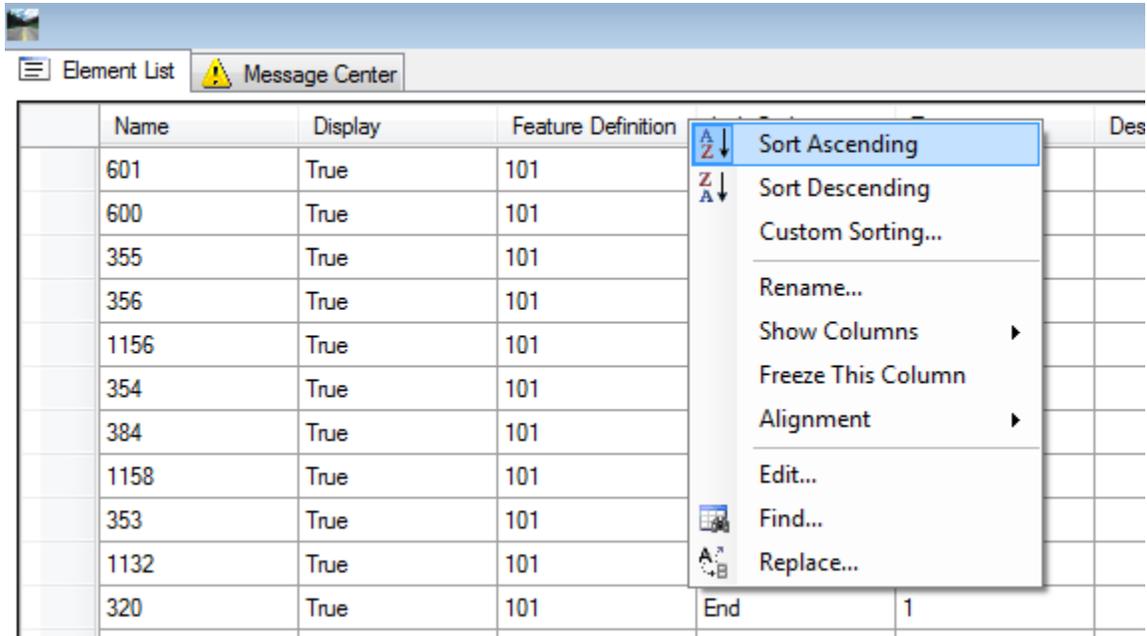


The screenshot shows the Show Details window with a table of point features. The table has the following columns: Name, Display, Feature Definition, Link Code, Zone, Description, and Termination. The first row is highlighted.

Name	Display	Feature Definition	Link Code	Zone	Description	Termination
741	True	10	None	1		Detected
1535	True	10	None	1		Detected
380	True	10	None	1		Detected
174	True	10	None	1		Detected
1369	True	10	None	1		Detected
796	True	10	None	1		Detected
853	True	10	None	1		Detected
1121	True	10	None	1		Detected
355	True	101	None	1		Detected
1343	True	101	Start	1		Detected
354	True	101	None	1		Detected
1346	True	101	None	1		Detected
382	True	101	None	1		Detected
381	True	101	Start	1		Detected
356	True	101	Close	1		Detected
1344	True	101	None	1		Detected
1153	True	101	None	1		Detected
320	True	101	End	1		Detected
316	True	101	Start	1		Detected
317	True	101	None	1		Detected

Row: 1 of 1612

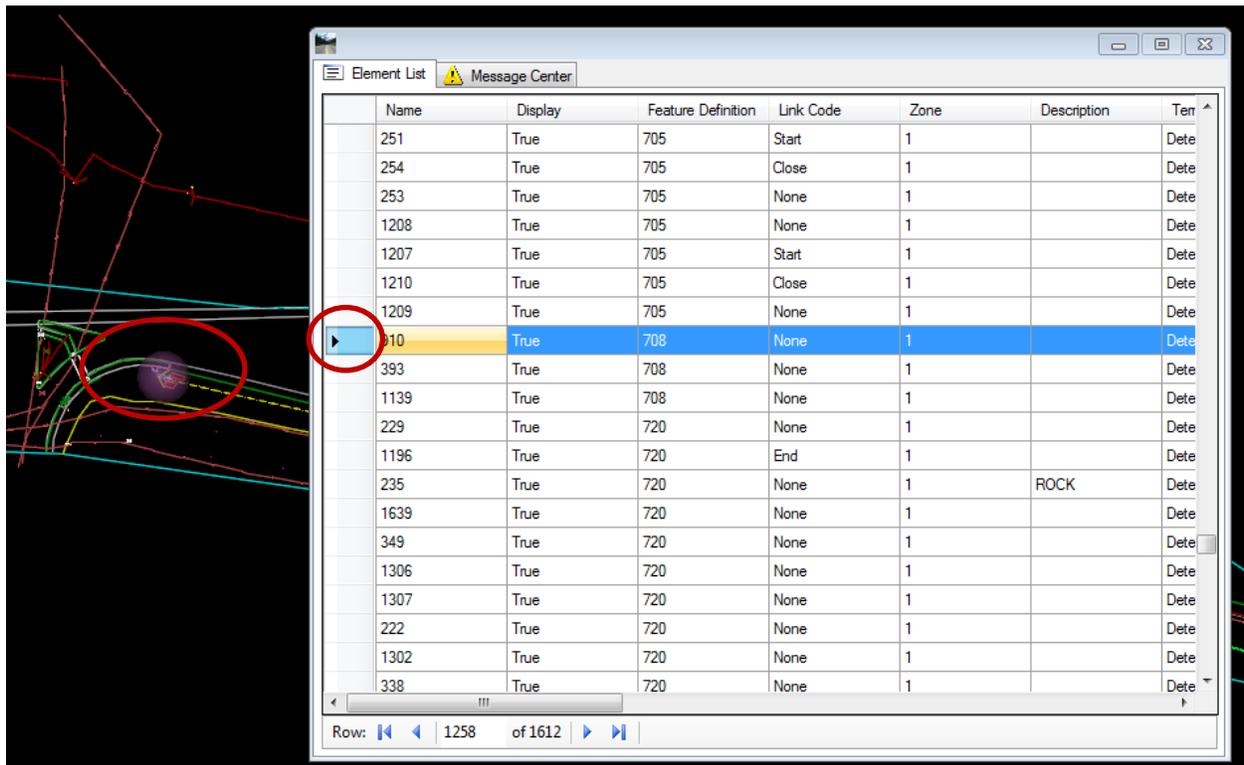
3. Right click over the *Feature Definition* column and sort by the **Sort Ascending** option.



The screenshot shows the 'Element List' window with a context menu open over the 'Feature Definition' column. The menu options are: Sort Ascending (highlighted), Sort Descending, Custom Sorting..., Rename..., Show Columns, Freeze This Column, Alignment, Edit..., Find..., and Replace... The table data is as follows:

Name	Display	Feature Definition
601	True	101
600	True	101
355	True	101
356	True	101
1156	True	101
354	True	101
384	True	101
1158	True	101
353	True	101
1132	True	101
320	True	101

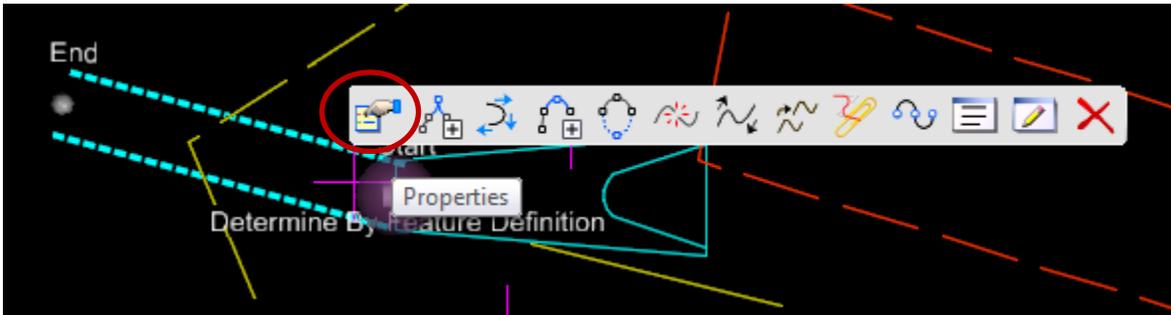
4. Scroll down to the 707 and 708 codes. **Left click** on one of the flared end section to the left of the *Name* column. The location of the flared end section cell should highlight in a purplish color in the MicroStation file.



The screenshot shows the 'Element List' window with a table of elements. The row for element 710 is highlighted in blue. A red circle highlights the cell to the left of the 'Name' column for element 710. The table data is as follows:

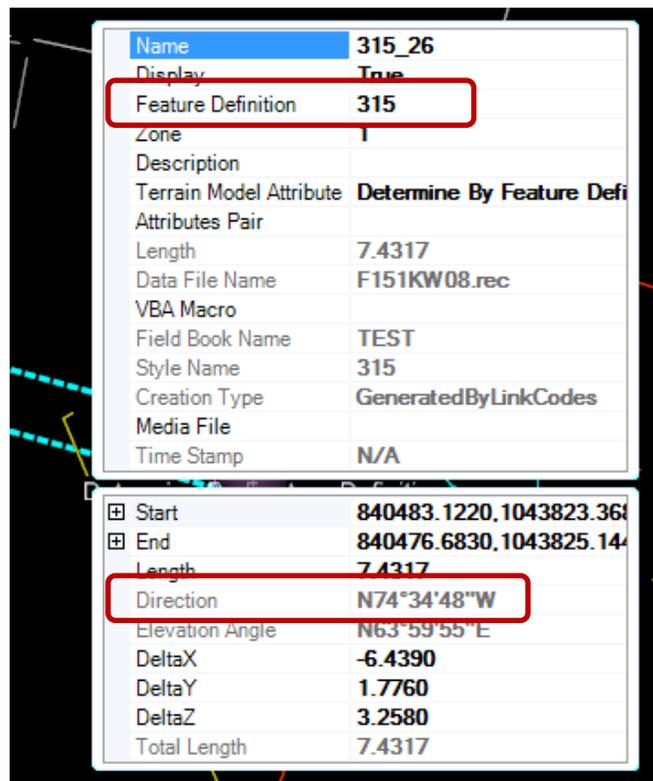
Name	Display	Feature Definition	Link Code	Zone	Description	Terr
251	True	705	Start	1		Dete
254	True	705	Close	1		Dete
253	True	705	None	1		Dete
1208	True	705	None	1		Dete
1207	True	705	Start	1		Dete
1210	True	705	Close	1		Dete
1209	True	705	None	1		Dete
710	True	708	None	1		Dete
393	True	708	None	1		Dete
1139	True	708	None	1		Dete
229	True	720	None	1		Dete
1196	True	720	End	1		Dete
235	True	720	None	1	ROCK	Dete
1639	True	720	None	1		Dete
349	True	720	None	1		Dete
1306	True	720	None	1		Dete
1307	True	720	None	1		Dete
222	True	720	None	1		Dete
1302	True	720	None	1		Dete
338	True	720	None	1		Dete

- Zoom in to the flared end section. Using the Element Selection tool, **left click** on the pipe that is associated to the flared end section. Then select the **Properties** option.

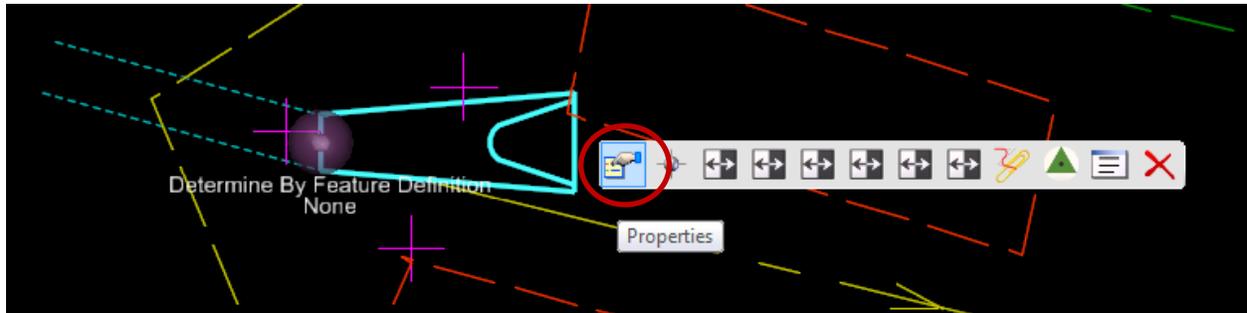


Look at the Feature Definition to determine the pipe size. (15" pipe for this example)

Also highlight and select the direction of the pipe and copy that data (Ctrl+c). This data will be used when we rotate the flared end section.



- Using the Element Selection tool, **left click** on the flared end section. Then select the **Properties** option.



In the Properties, change the **Feature Definition** to the correct flared end section to match the pipe (708.15 for 15" concrete flared end section).

Change the **Angle** of the flared end section. Since you copied the direction from the pipe properties in the previous step, you can simply paste (Ctrl+v) in the angle field. You may need to reverse the north/south and west/east bearings if it doesn't rotate correctly.

**Note:** Change the *Feature Definition* first and then the *Angle*. If you change the *Angle* first and then the *Feature Definition*, the *Angle* will reset back to the default of 90 degrees NE.

