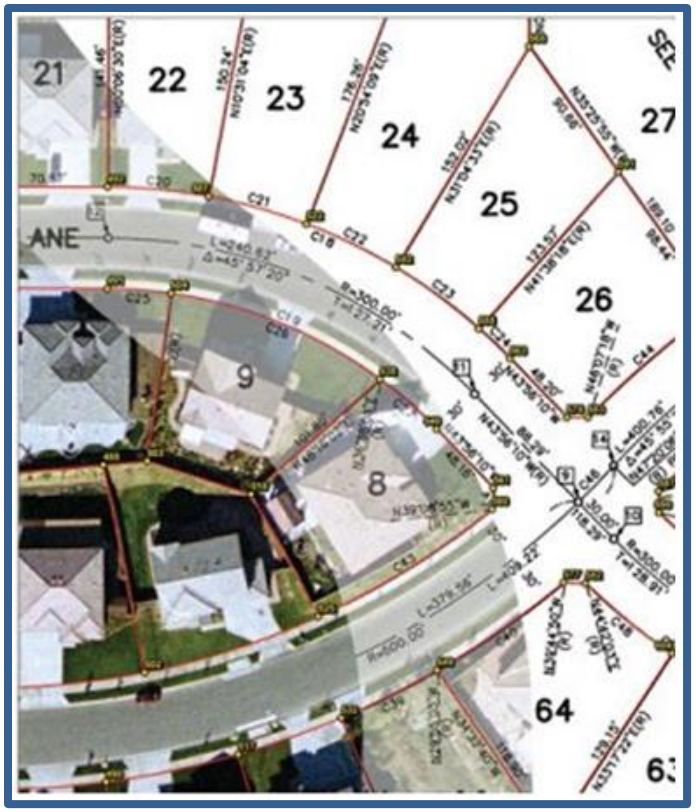
Pima County's Parcel Fabric in Development

- **Mission Statement:**
- Migration away from CAD and ArcInfo based parcels to the Parcel Fabric Feature Datasets
- Improve Parcel Maintenance Tasks
  - Collaborated and Reduce Redundancy
- Improve Spatial Accuracy Over Time
- Position Pima County For the Future of GIS



Presented By:
Jack L. Avis, PLS , GISP
Senior GIS Analyst

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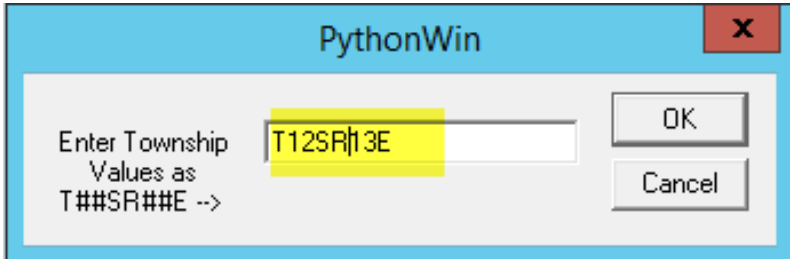
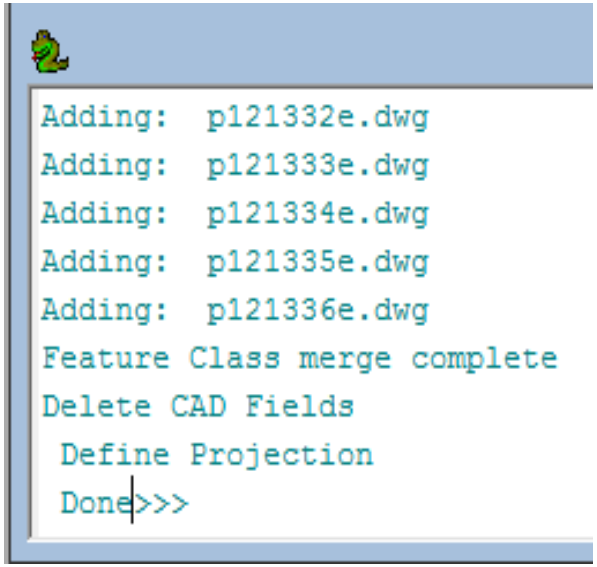
- Step 1: Merge 36 Section Drawings into a single Township Feature Class using a Python Script




```
#Step through each CAD drawing in the list
for fd in arcpy.ListDatasets("*.dwg"):
    print 'Adding: ', fd
    layername = fd + "_Layer"
# Select the LOTS, BLOCKS, PRIVATE_ROAD and ADOT_BOUNDARY Polyline features from the section drawing use query of Three layers
 arcpy.MakeFeatureLayer_management(fd + "/Polyline", layername, "\"Layer\" = 'BLOCKS' OR \"Layer\" = 'LOTS' OR \"Layer\" = 'PRIVATE_ROAD' OR \"Layer\" = 'ADOT_BOUNDARY'OR \"Layer\" = 'PROPOSED_LOTS' OR \"Layer\" = 'PROPOSED_ROAD'")
 vTab.addRow(layername)
```



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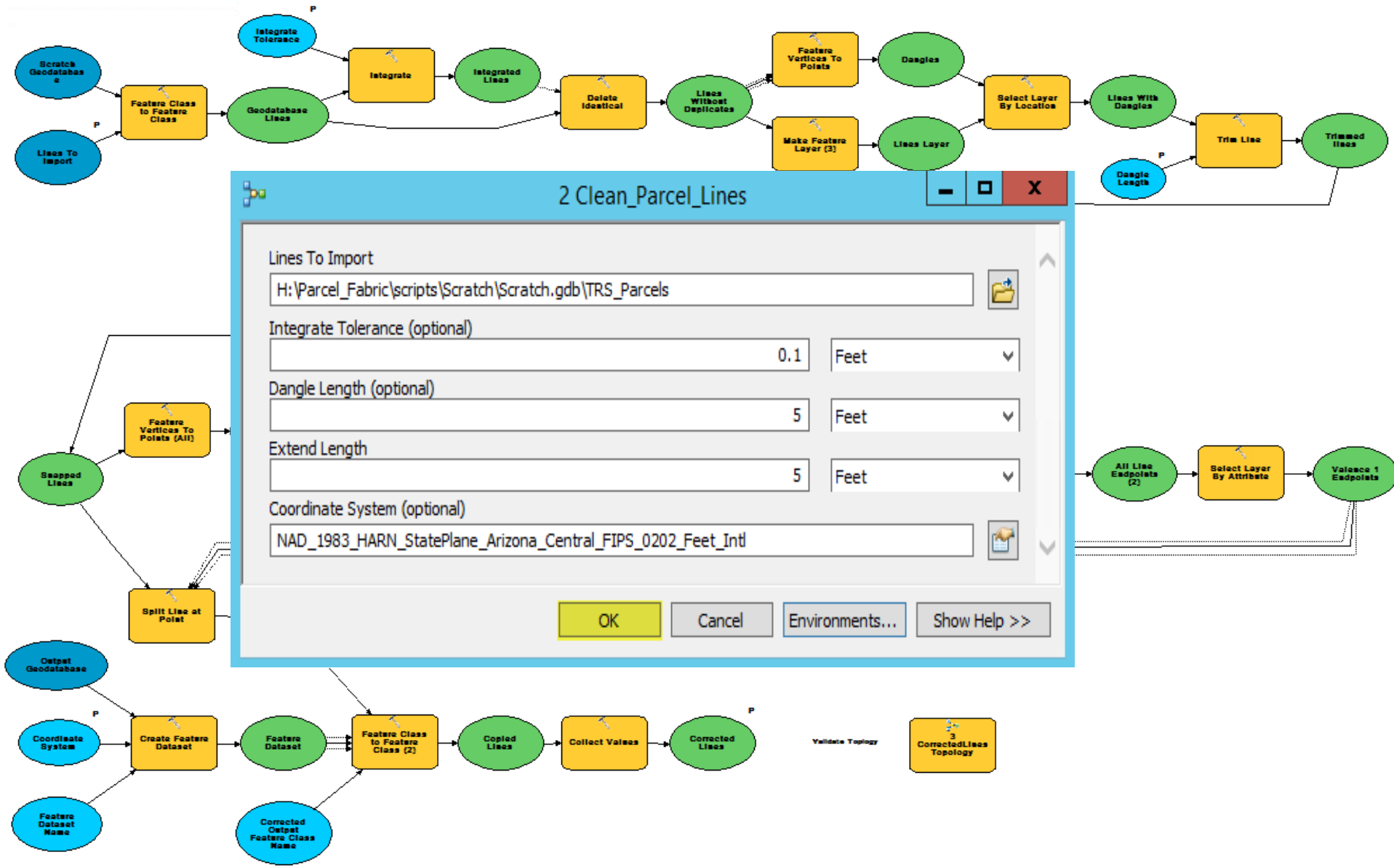
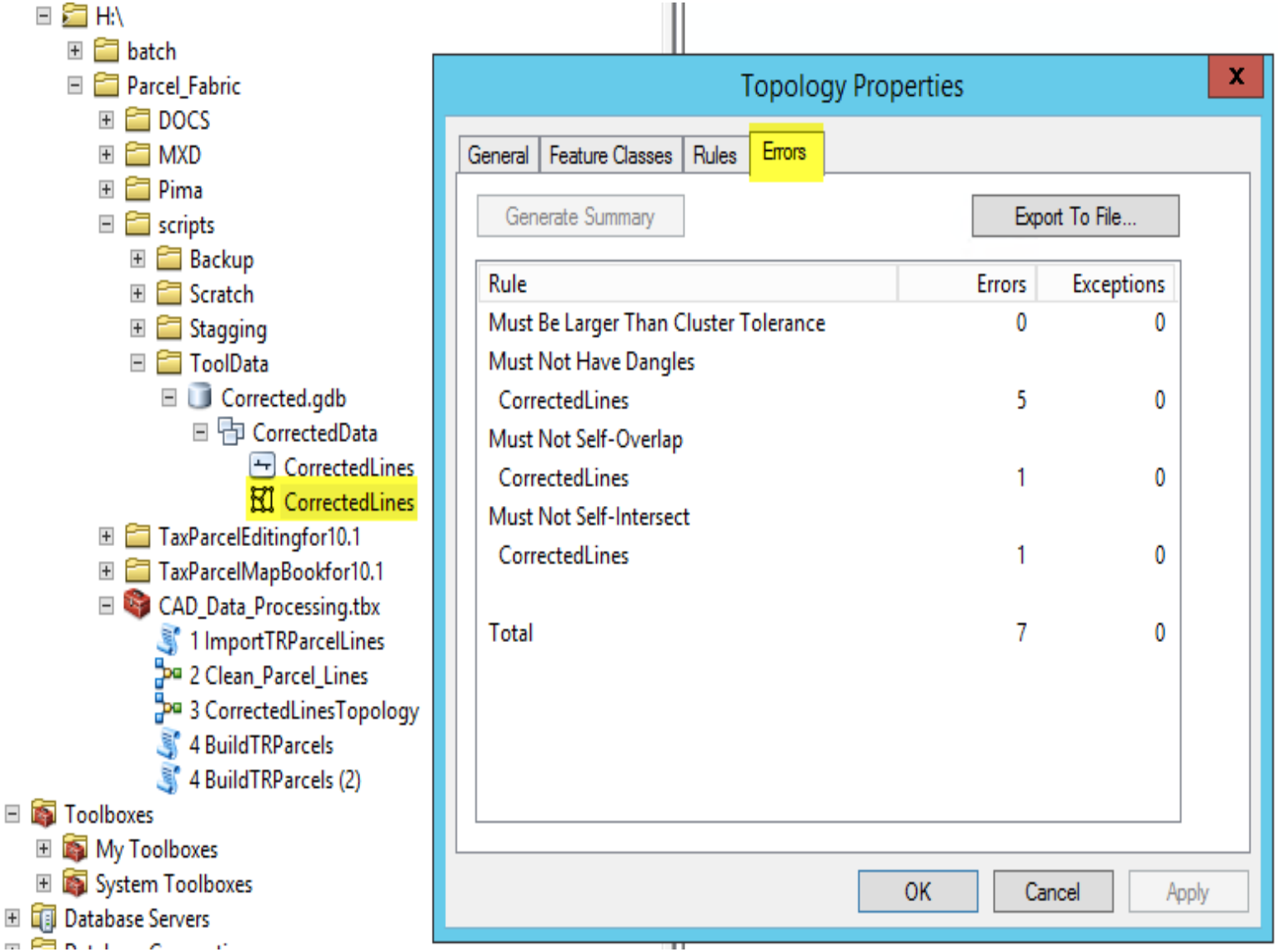
- Step 2: Clean the Township Feature Class Topology Errors (1700) using a Model



- Step 3: Quality Control Township Feature Class Using ArcMap and Look for Remaining Errors (7)



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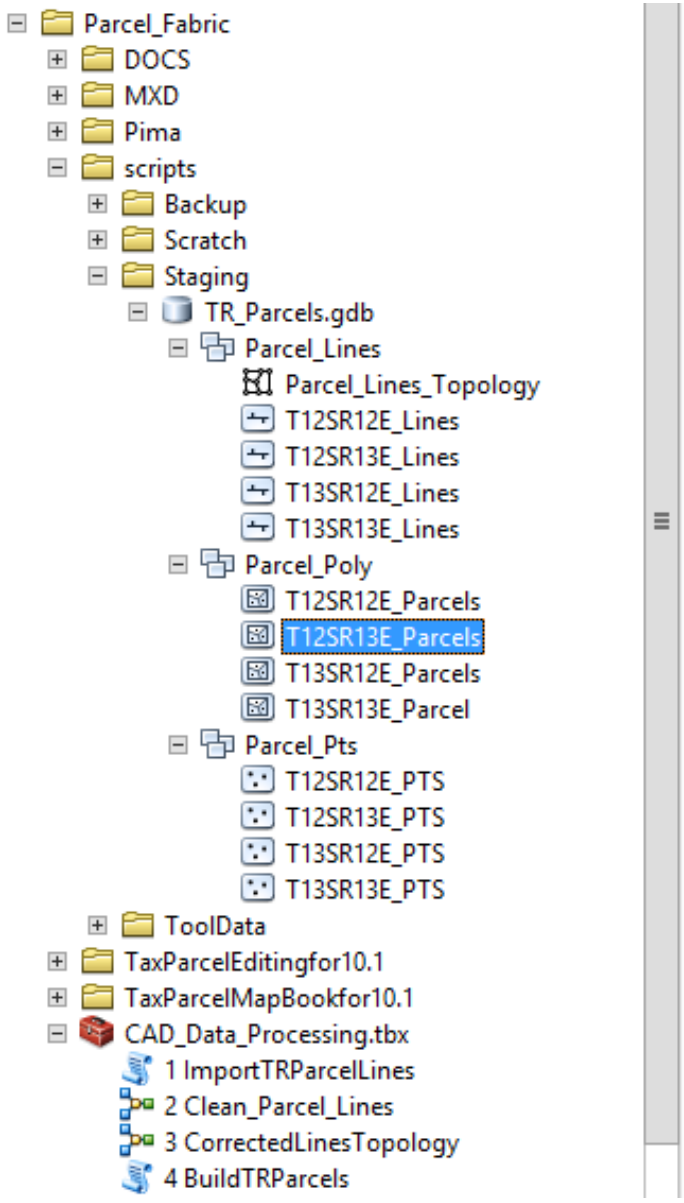
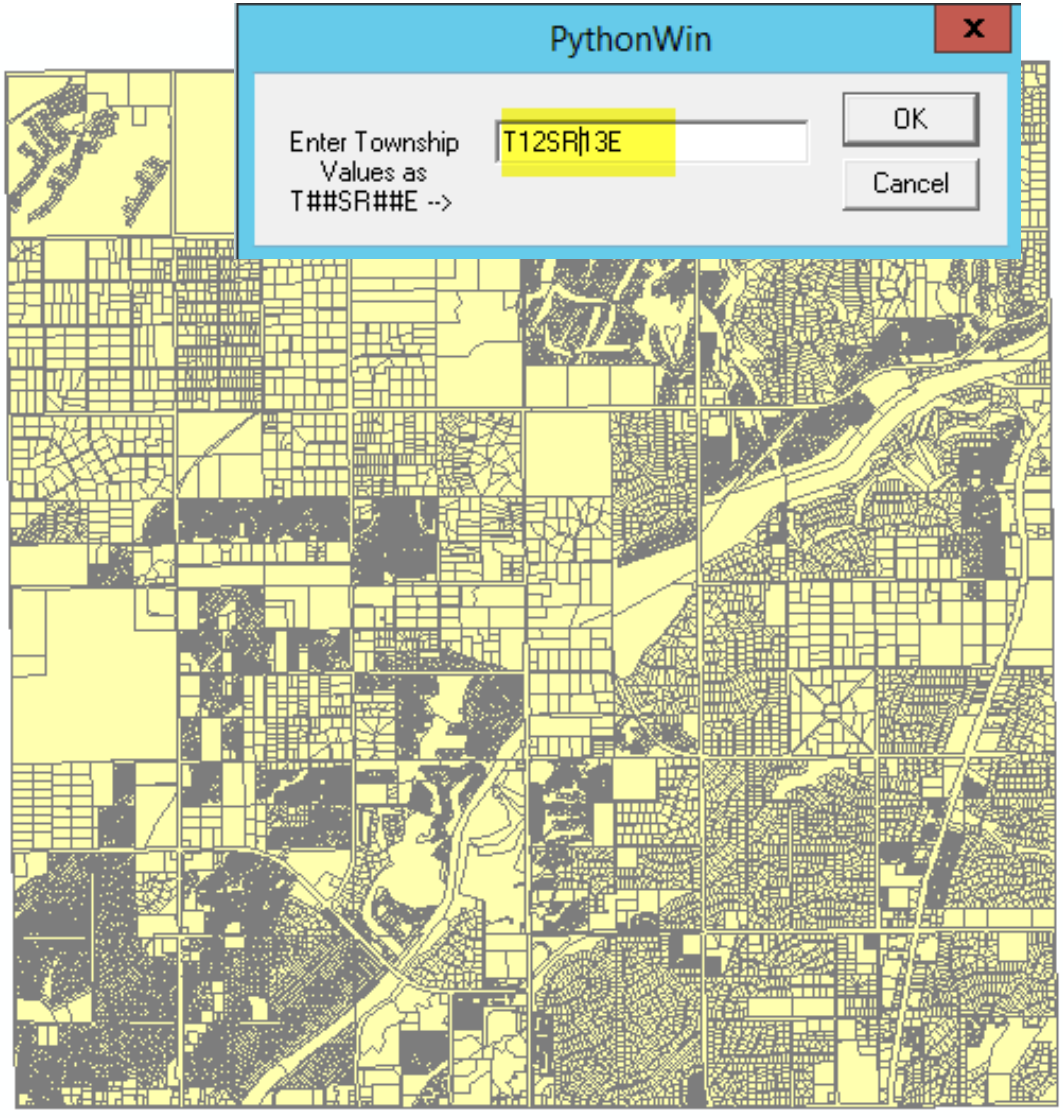
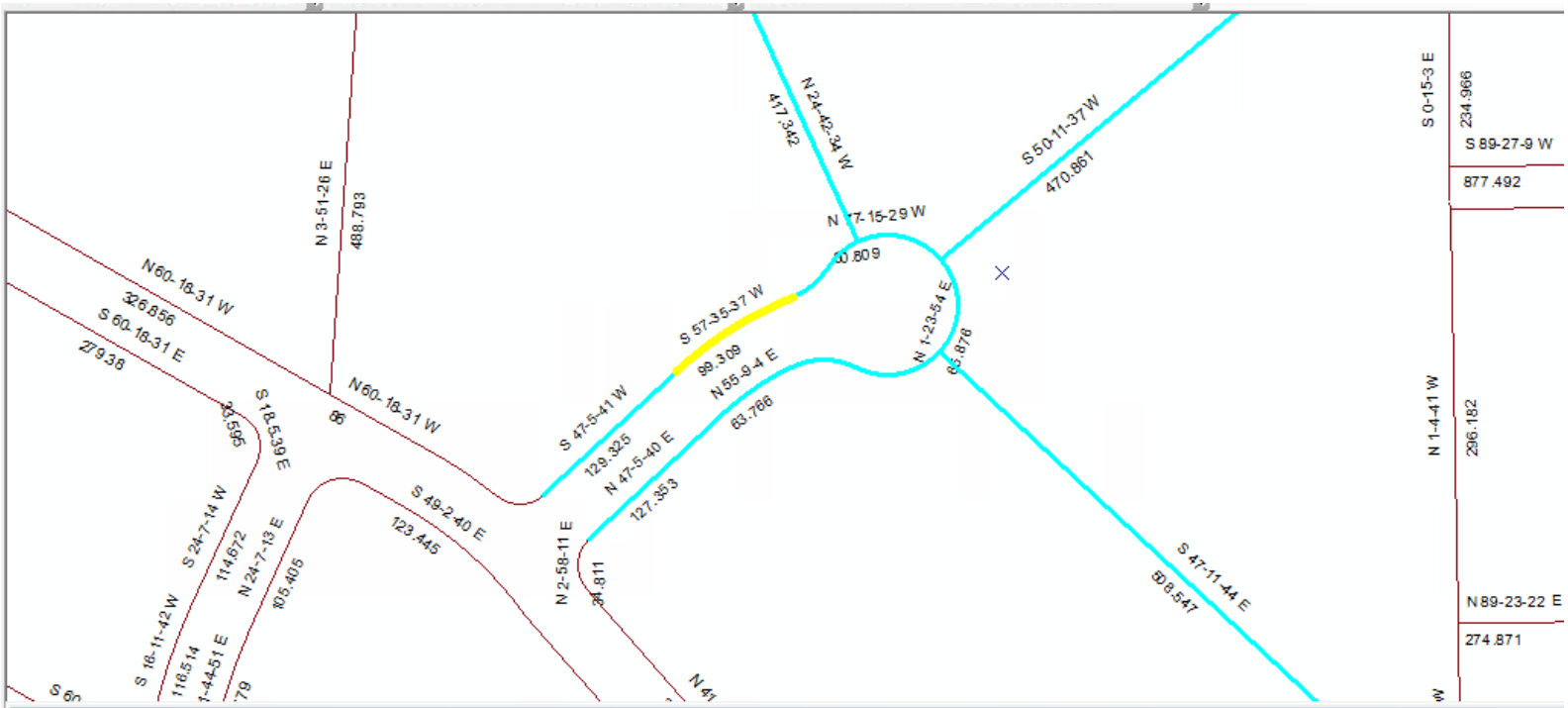
- Step 4: Build Polygons from Correct Parcel Lines, and them perform Spatial Join with Parcel Points contaning Parcel ID Using Python Script





- The Parcel Lines and Polygons are now ready for Loading into a Parcel Fabric



Table

T13SR12E_Lines

OBJECTID *	Shape *	Layer	Shape_Length	COGO Direction	COGO Distance	COGO Delta	COGO Radius	COGO Tangent	COGO ArcLength	COGO Side
1044	Polyline	LOTS	417.342485	N 24-42-34 W	417.342	<Null>	<Null>	<Null>	<Null>	<Null>
1045	Polyline	LOTS	470.861087	S 50-11-37 W	470.861	<Null>	<Null>	<Null>	<Null>	<Null>
1047	Polyline	LOTS	508.54675	S 47-11-44 E	508.547	<Null>	<Null>	<Null>	<Null>	<Null>
1069	Polyline	BLOCKS	65.365094	N 77-15-29 W	60.809	74-54-10	50	38.299	65.365	L
1070	Polyline	BLOCKS	71.916396	N 1-23-54 E	65.876	82-24-36	50	43.779	71.916	L
11707	Polyline	BLOCKS	29.85079	S 48-11-14 W	29.409	34-12-23	50	15.385	29.851	L
11708	Polyline	BLOCKS	32.29582	S 49-35-18 W	31.737	37-0-30	50	16.734	32.296	R
11709	Polyline	BLOCKS	99.867018	S 57-35-37 W	99.309	20-59-53	272.5	50.5	99.867	L
11710	Polyline	BLOCKS	129.325254	S 47-5-41 W	129.325	<Null>	<Null>	<Null>	<Null>	<Null>
11726	Polyline	BLOCKS	127.353175	N 47-5-40 E	127.353	<Null>	<Null>	<Null>	<Null>	<Null>
11727	Polyline	BLOCKS	63.97631	N 55-9-4 E	63.766	16-6-45	227.5	32.201	63.976	R
11728	Polyline	BLOCKS	46.901917	S 89-55-13 E	45.201	53-44-44	50	25.337	46.902	R

PIMA COUNTY

Interested In Being Involved?

CONTACT:

Jack L. Avis, PLS, GISP
Senior GIS Analyst - Geographic Data Management and Mapping Applications
Pima County Information Technology Department
201 N Stone AV - 9th Floor
Tucson, AZ 85701

Jack.Avis@pima.gov

Office 520-724-6815

gis.pima.gov

Comments and Questions

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