

Translate Survey Data from Independent Coordinate System to State Plane Coordinate System

1. Create two new points that will be used to “replace” the two old ones. If the old ones are numbered 307 & 308 (as mine were in this case), create 10307 & 10308. What numbers you use doesn’t matter as you will delete them when finished anyway. But this will help you keep it straight.

NOTE: The two new points are known SPC points collected by GPS and submitted to OPUS.

2. Use the **VPORTS** command to divide your screen into four sections (See *Figure 1*).

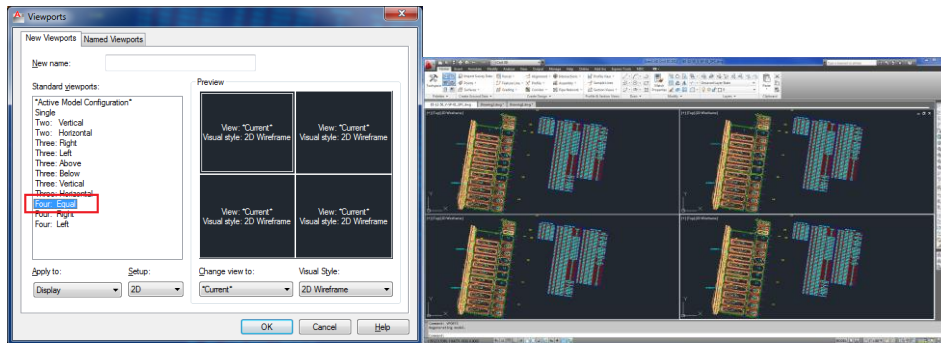


Figure 1

3. In each of the four vports, zoom in on one of the four points that will be used in this translation. (See *Figure 2*).

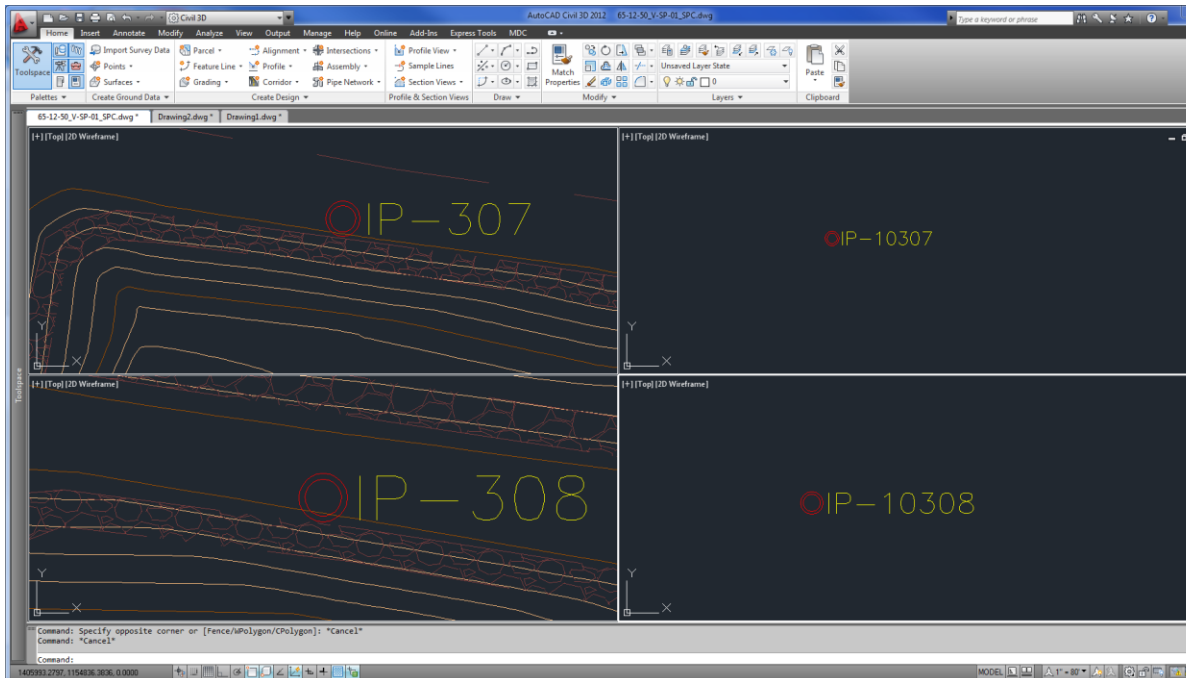


Figure 2

4. Copy the Survey Database so that you have a backup.

5. Go to the Survey Tab in Toolspace and right click on the Survey Database. Click on Translate Survey Database (Figure 3). You must have used the Open For Edit option when you opened the DB.

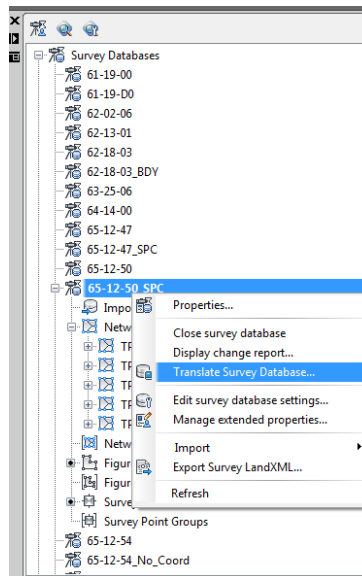


Figure 3

6. Click on Pick In Drawing (Figure 4).

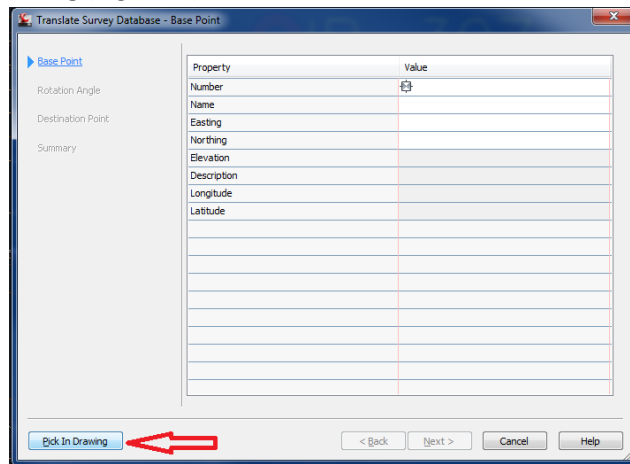


Figure 3

7. You will be prompted for a Base Point. This will be the point from which the whole DB will be moved. In this example, we will be moving the database from IP-307 to IP-10307 and IP-308 will be used to determine rotation as this point will match up with IP-10308.
 - a. When prompted for the Base Point, choose IP-307.
 - b. When prompted for the Rotation Angle, once again choose Pick In Drawing. Then select IP-307 followed by IP-308.
 - c. When prompted for the New Rotation, select IP-10307 followed by IP-10308.
 - d. At the last screen of this wizard, compare the old and new base point to be sure they actually moved correctly.
8. Delete the temporary points you created earlier (IP-10307 & IP-10308 in this case).
9. Set the drawing back to ONE VPORT.