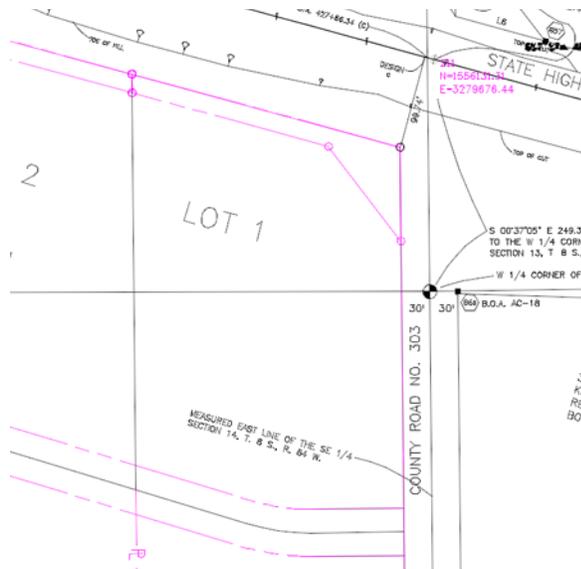


LAB 12 - Parcel Creation by Deed

Lot number 1 lies at the Northeast corner of the Summit Business Park plat. Right of way acquisition will occur along the northerly limits of the plat. A parcel needs to be created from the deed information for lot 1.

Chapter Objectives:

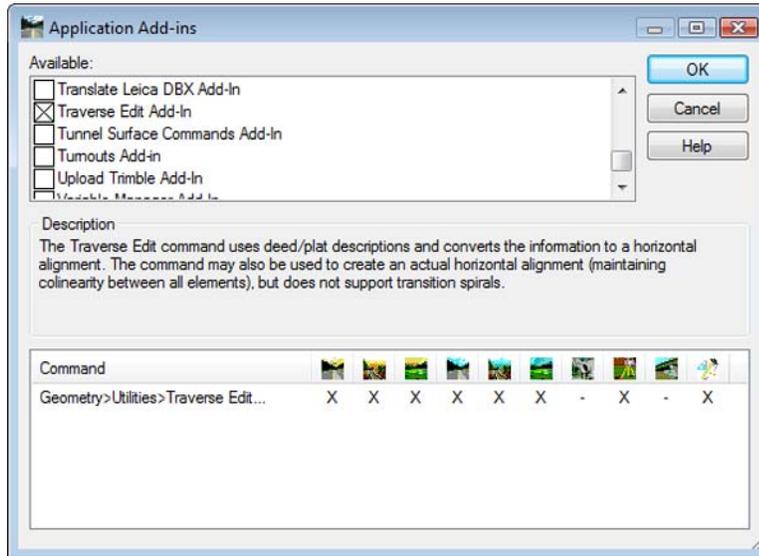
- Create a closed parcel
- Use Traverse Edit Add-In application



To create the parcel (closed alignment) for lot 1, the InRoads command **Geometry > Traverse** could be used. Another solution is to use the Traverse Edit command. Traverse Edit is another Application ADD-In command and must be enabled. In addition to allowing traversing, the traverse edit command reports on parcel closure and provides adjustment commands.

1. Using **InRoads**, select: **Tools > Application ADD-Ins...**
2. Toggle **On** the **Traverse Edit Add-in**

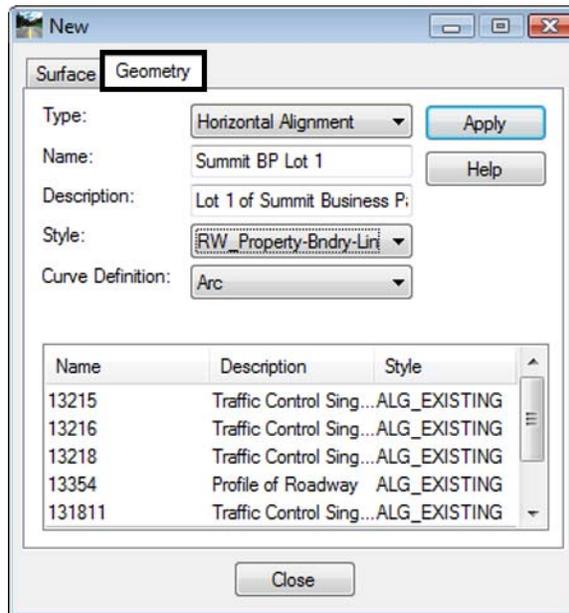
3. <D> OK



Note: Before using the Traverse Edit command, create an alignment to store Lot number 1.

4. **File > New > [Geometry]**, Select the Geometry tab and input:
5. **Type: *Horizontal Alignment***
6. **Name: *Summit BP Lot 1***
7. **Description: *Lot 1 of Summit Business Park***
8. **Style: *RW_Property-Bndry-Line_ex***

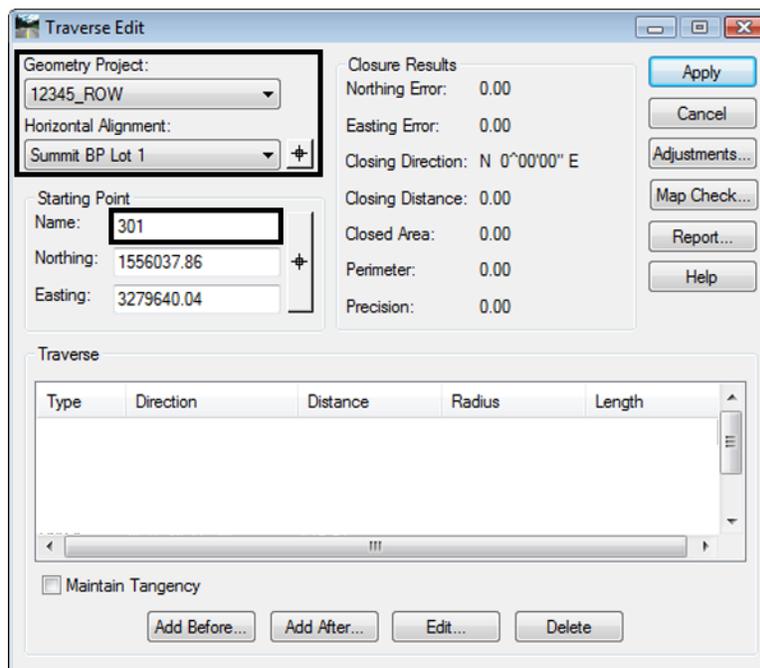
9. <D> Apply



10. Select **Geometry > Utilities > Traverse Edit** to open the Traverse Edit dialog box.

11. Set the fields for the *Geometry Project* and *Horizontal Alignment*.

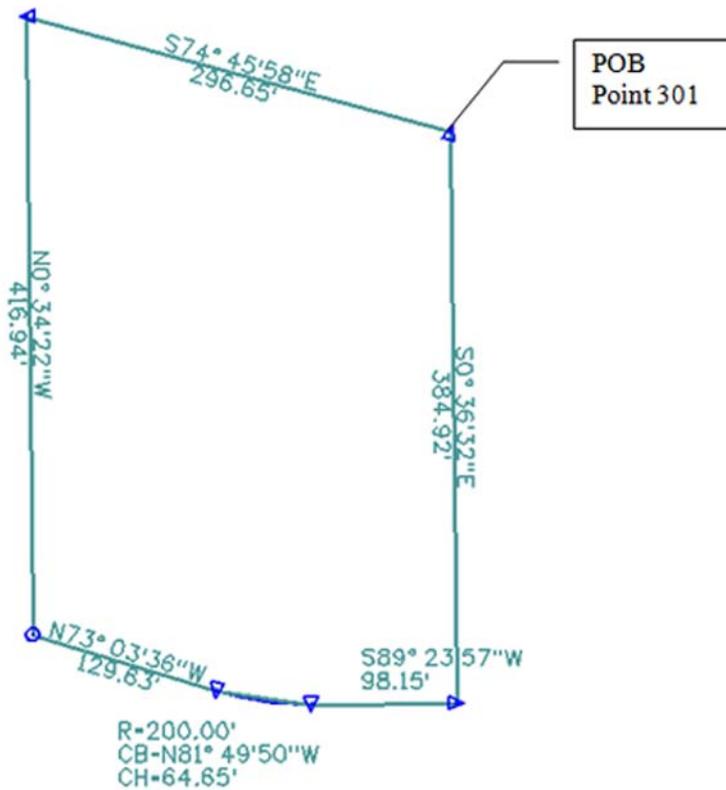
12. Key-in : **301** for the *Starting Point* (Cogo point 301 is located at the NE corner of lot 1).



13. *Lot 1 is described as:*

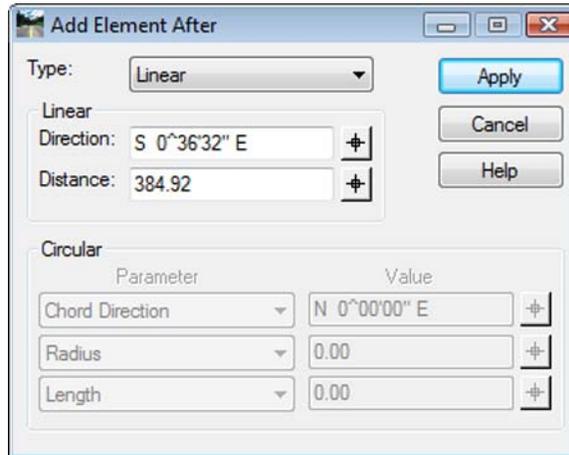
Commencing at the West ¼ corner of Section 13, Township 8 South., Range 64 West. Thence along said section line N 0-37-05 W, 154.14 feet. Thence departing from said section line S 89-22-55 W, 30.00 feet to the westerly right-of-way line of County Road 33 and the Point of Beginning.

1. Thence S 0-36-32 E, to the northerly right of way line of Summit Business Park Road, 384.92 feet.
2. Thence along said right of way line, S 89-23-57 W, 98.15 to a point of curvature.
3. Thence N 81-49-50 W, 64.65 feet along the chord of said curve, having a 200.00' radius to the right.
4. Thence N 73-03-36''W, 129.63 feet. Thence departing from Summit Business Park Road, N 0-34-22 W to the southerly right of way line of S.H. 86, 416.94 feet.
5. Thence along said right of way line, S 74-45-58 E, 296.65 to the point of beginning.



14. <D> the **Add After** button on the Traverse Edit dialog.
15. Set *Type: Linear*

16. Input the **Direction** and **Distance** for the first course as shown.



Add Element After

Type: Linear

Linear

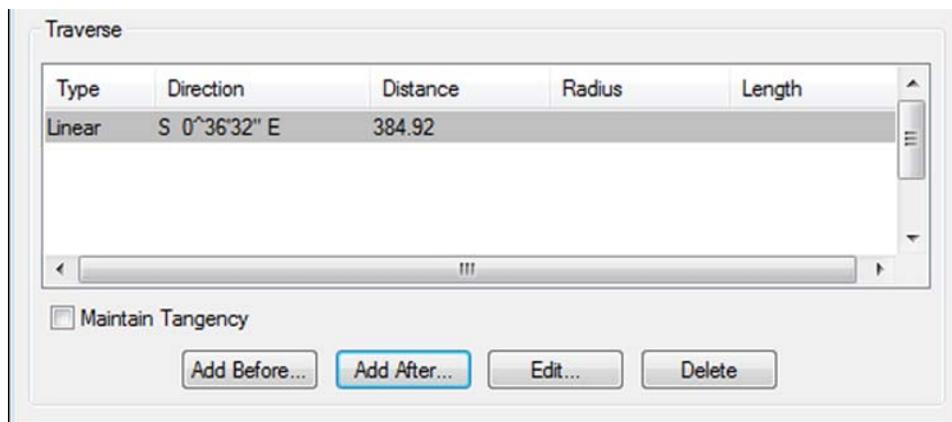
Direction: S 0°36'32" E

Distance: 384.92

Circular

Parameter	Value
Chord Direction	N 0°00'00" E
Radius	0.00
Length	0.00

17. <D> **Apply** - the course is added to the alignment.



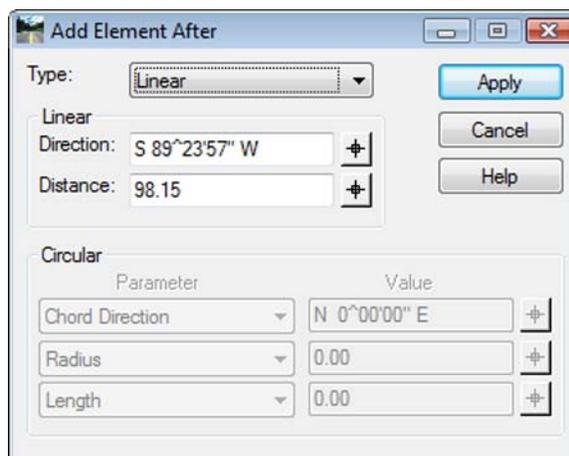
Traverse

Type	Direction	Distance	Radius	Length
Linear	S 0°36'32" E	384.92		

Maintain Tangency

Add Before... Add After... Edit... Delete

18. **Input** the second Course.



Add Element After

Type: Linear

Linear

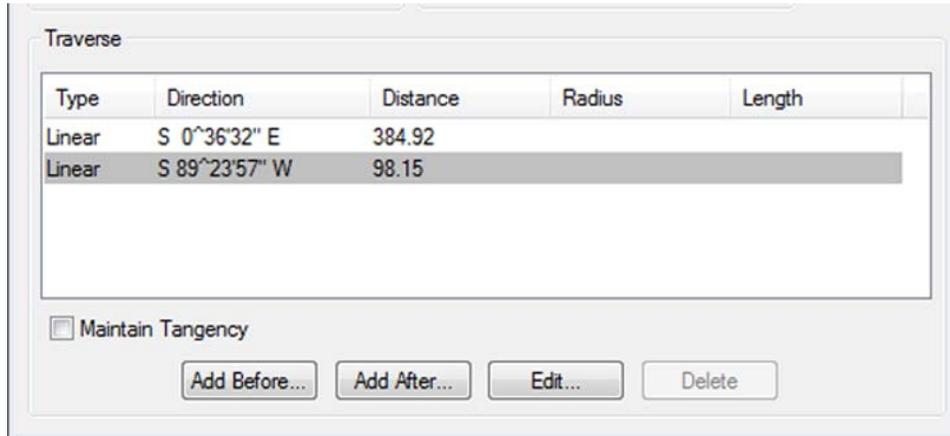
Direction: S 89°23'57" W

Distance: 98.15

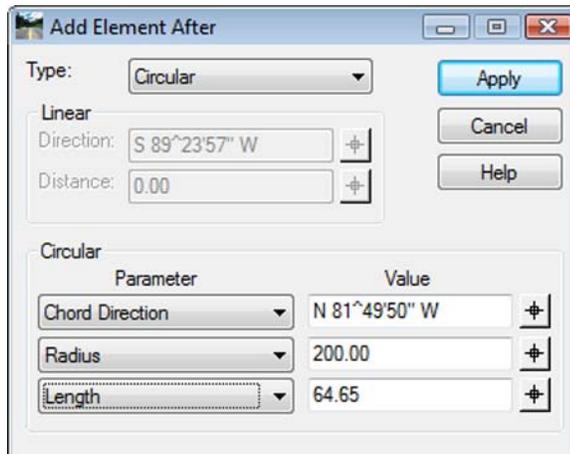
Circular

Parameter	Value
Chord Direction	N 0°00'00" E
Radius	0.00
Length	0.00

19. <D> **Apply** - the second course is added to the alignment.



20. **Input** the third course – change *Type*: Circular



21. <D> **Apply** - the third course is added to the alignment.

The screenshot shows the 'Traverse Edit' dialog box. The 'Geometry Project' is '12345_ROW' and the 'Horizontal Alignment' is 'Summit BP Lot 1'. The 'Starting Point' has a name, Northing of 1556037.86, and Easting of 3279640.04. A 'Closure Results' box is highlighted, showing: Northing Error: -376.74, Easting Error: -158.04, Closing Direction: N 22°45'29" E, Closing Distance: 408.55, Closed Area: 31783.00, Perimeter: 548.00, and Precision: 1.34. The 'Traverse' table below lists three courses: a linear course S 0°36'32" E (384.92), a linear course S 89°23'57" W (98.15), and a circular course N 81°49'50" W (64.65) with a radius of 200.00 and length of 64.93. The 'Maintain Tangency' checkbox is unchecked. Buttons at the bottom include 'Add Before...', 'Add After...', 'Edit...', and 'Delete'.

Type	Direction	Distance	Radius	Length
Linear	S 0°36'32" E	384.92		
Linear	S 89°23'57" W	98.15		
Circular	N 81°49'50" W	64.65	200.00	64.93

Note: As courses are entered, the parent dialog displays closure results.

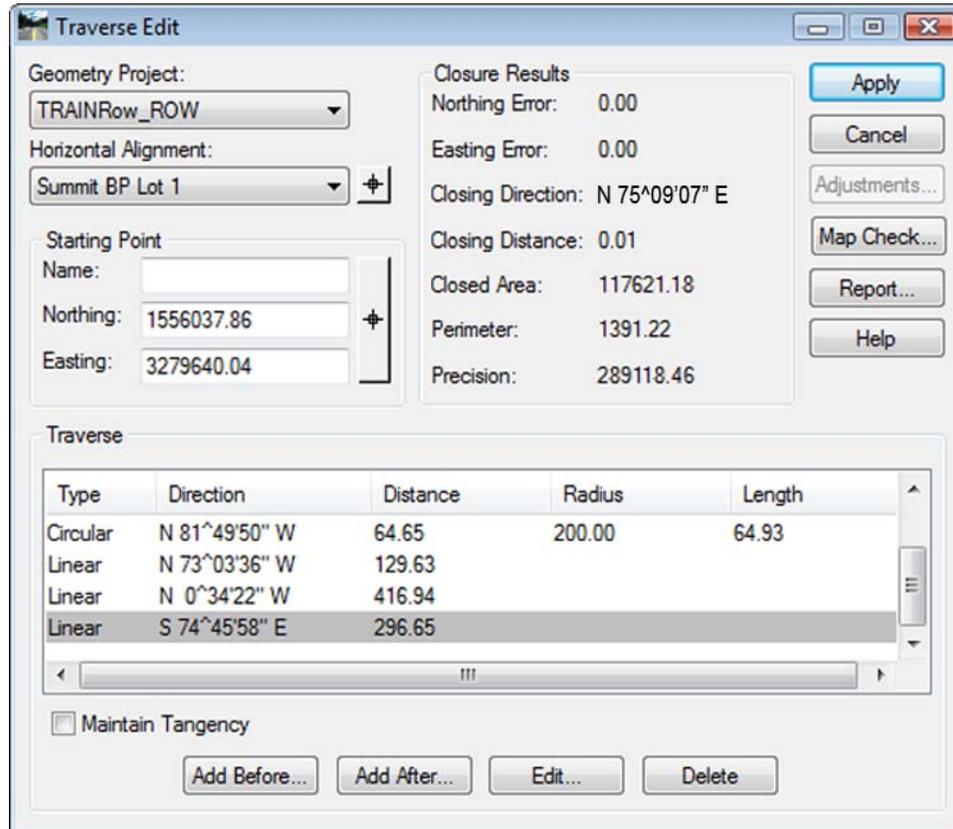
22. **Input** the fourth course and <D> **Apply**

The screenshot shows the 'Add Element After' dialog box. The 'Type' is 'Linear'. The 'Linear' section has 'Direction' set to N 73°03'36" W and 'Distance' set to 129.63. The 'Circular' section has 'Chord Direction' set to N 0°00'00" E, 'Radius' set to 0.00, and 'Length' set to 0.00. Buttons include 'Apply', 'Cancel', and 'Help'.

23. **Input** the fifth course and <D> **Apply**

24. **Input** the sixth and final course and <D> **Apply**

25. Review Closure Results in the parent dialog.



Traverse Edit

Geometry Project: TRAINRow_ROW

Horizontal Alignment: Summit BP Lot 1

Starting Point

Name:

Northing: 1556037.86

Easting: 3279640.04

Closure Results

Northing Error: 0.00

Easting Error: 0.00

Closing Direction: N 75°09'07" E

Closing Distance: 0.01

Closed Area: 117621.18

Perimeter: 1391.22

Precision: 289118.46

Buttons: Apply, Cancel, Adjustments..., Map Check..., Report..., Help

Traverse

Type	Direction	Distance	Radius	Length
Circular	N 81°49'50" W	64.65	200.00	64.93
Linear	N 73°03'36" W	129.63		
Linear	N 0°34'22" W	416.94		
Linear	S 74°45'58" E	296.65		

Maintain Tangency

Buttons: Add Before..., Add After..., Edit..., Delete

26. <D> **Apply** to create the alignment.

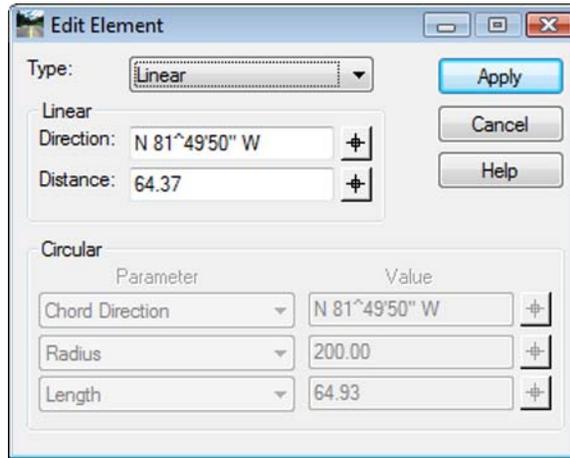
Note: The Report button on the dialog can be used to summarize the alignment. The report can be written to a text file.

The Adjustments button on the Traverse Edit dialog is dithered. If the alignment contains circular elements, adjustments are not enabled.

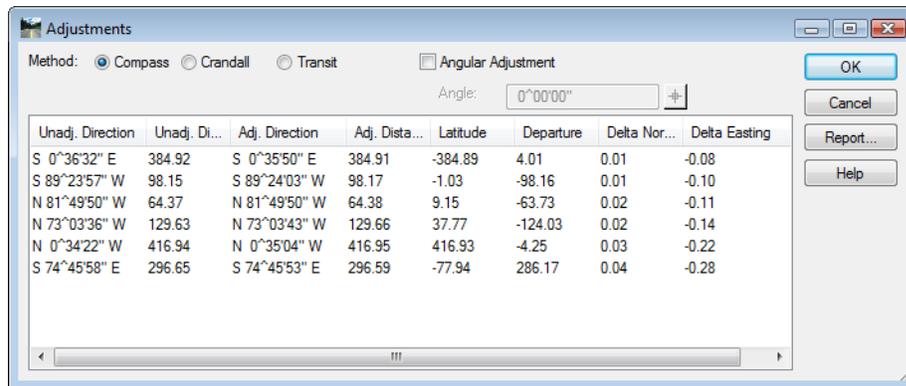
Challenge Lab:

- ◆ Edit the record containing the curve by <D> on it and selecting **Edit**
- ◆ Change the record type to **Linear**

- ◆ Input the chord Direction and an incorrect chord distance, <D> **Apply**



- ◆ Close the *Edit Element* dialog
- ◆ <D> on the *Adjustments* button



Select the appropriate Method

<D> **OK** to apply the selected adjustment

Note: The columns for Unadjusted and Adjusted values. As the various radio buttons for method are selected, the adjusted values update providing a preview of potential solutions.