

AUTODESK® CIVIL 3D

Dynamic 3D Computer-aided Design with Autodesk Civil 3D

Training Course for:
Autodesk® Civil 3D™ 2007



Lecture 4 – Supplementary Notes Create Alignment by Drawing (method 2)

August 2006

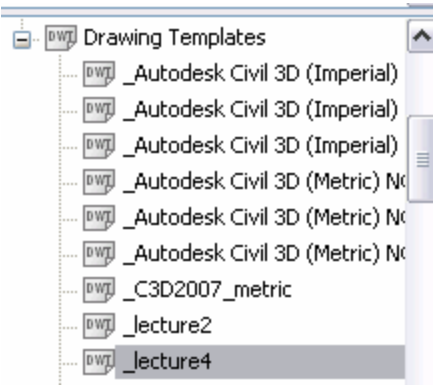
Autodesk®

Objective

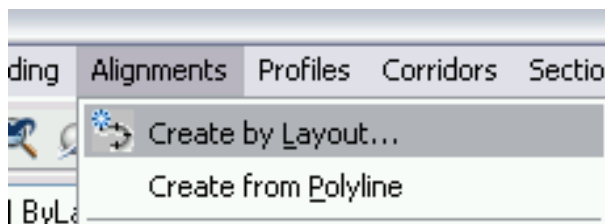
This document describes the steps to create Alignment in Civil 3D.

Exercise

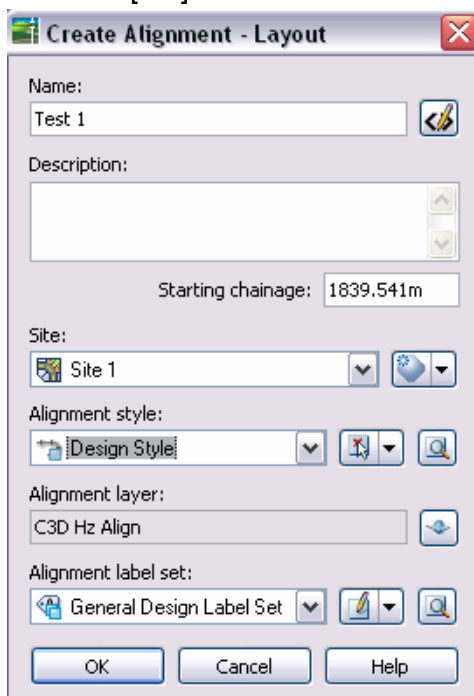
1. Open the [_lecture4.dwt] create new drawing



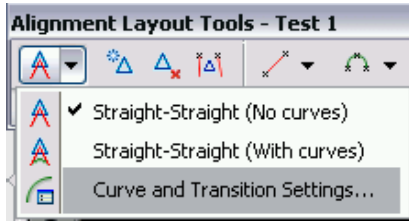
2. In the toolbar menu, select 「Alignment」 → 「Create by Layout」



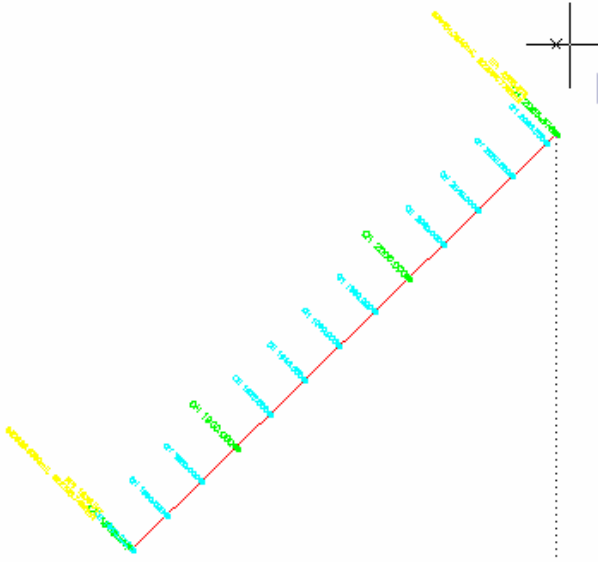
3. In the Layout dialog box :
 - Enter the alignment name (e.g. Test)
 - Enter the starting chainage (1839.541)
 - Press [OK]




4. In the Layout toolbar menu, expand the  icon select 「Straight-Straight(No curves)」

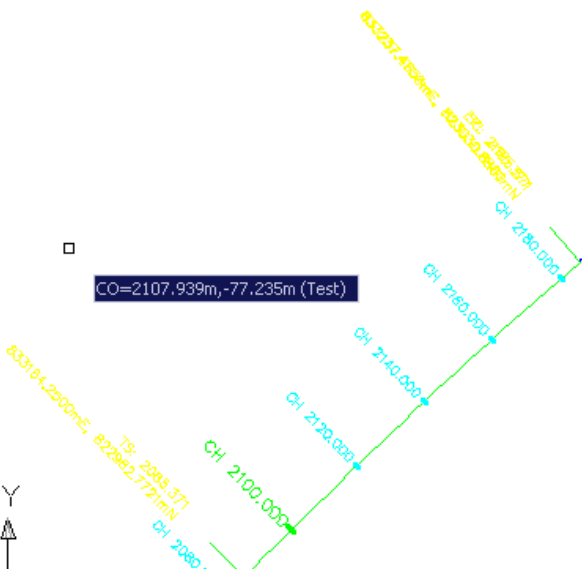


5. Insert start point (832988.639, 822790.746) to (833164.254, 822962.776)

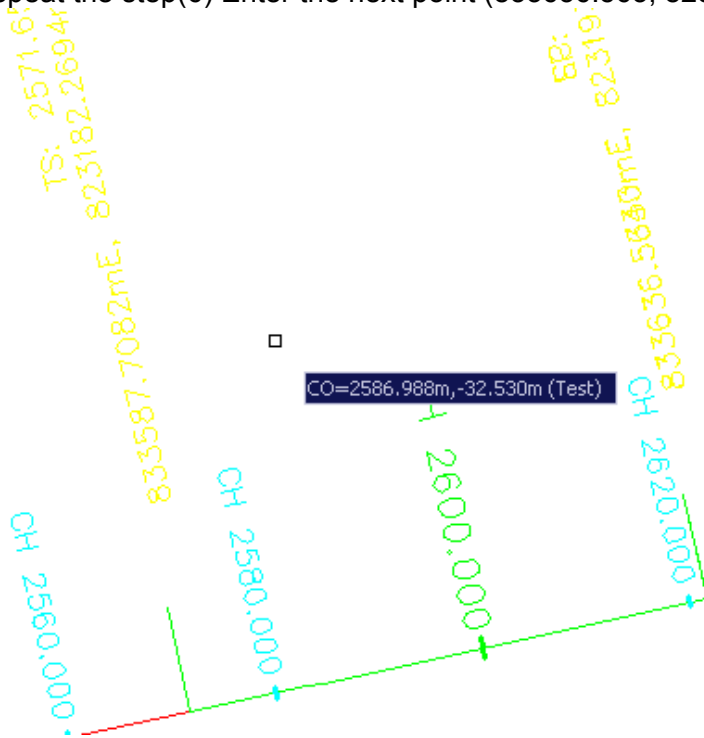


6. Select  icon, select 「Floating Curve with Transition(entity, radius, thought point)」

- Select the line
- Enter the radius (639.5)
- Enter the transition length (100)
- Enter the curve angle (Less than 180)
- Enter the through point (833237.47, 823030.85)

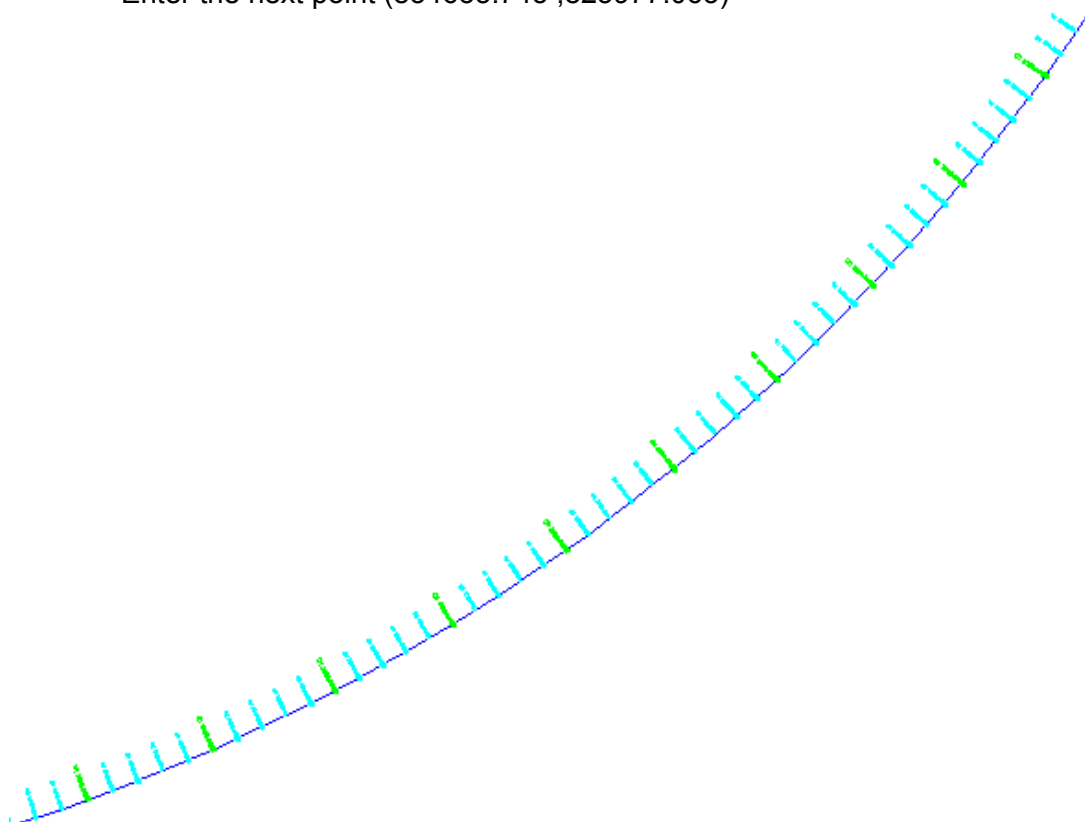


9. Repeat the step(6) Enter the next point (833636.563, 823193.044)



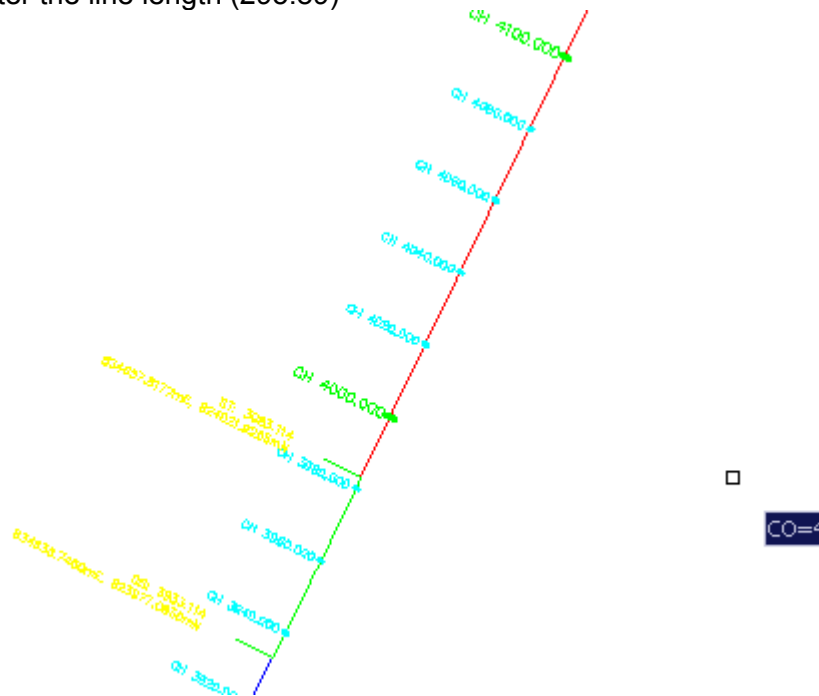
10. Repeat the step(7),

- Enter the radius(1500)
- Enter the curve Counterclockwise
- Enter the next point (834635.745 ,823977.063)



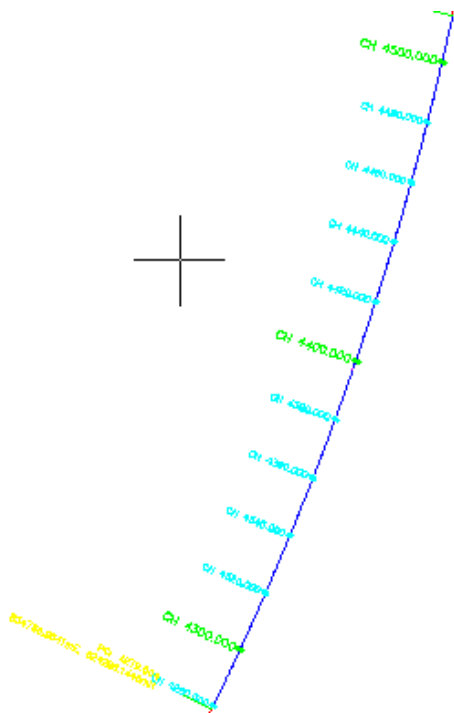
11. Repeat the step(8),


- Select the curve end
- Enter the transition length (50)
- Enter the line length (295.89)



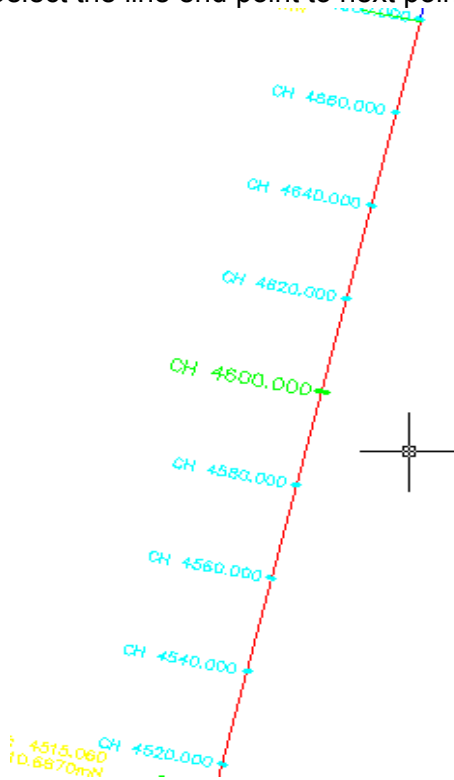
12. Select  icon, select 「Fixed Curve (Two Point and radius)」

- Select the transition end point
- Enter the radius(1000)
- Enter the curve Counterclockwise
- Enter the next point (834864.090, 824510.667)



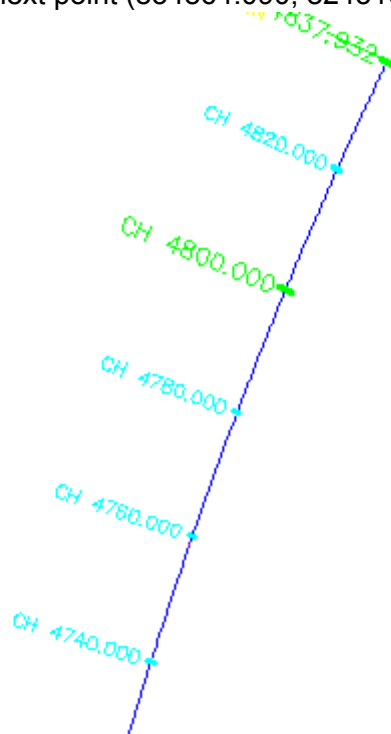
13. Select the  icon, select 「Fixed Straight (Two Points)」

14. Select the line end point to next point (834899.27,824671.294)

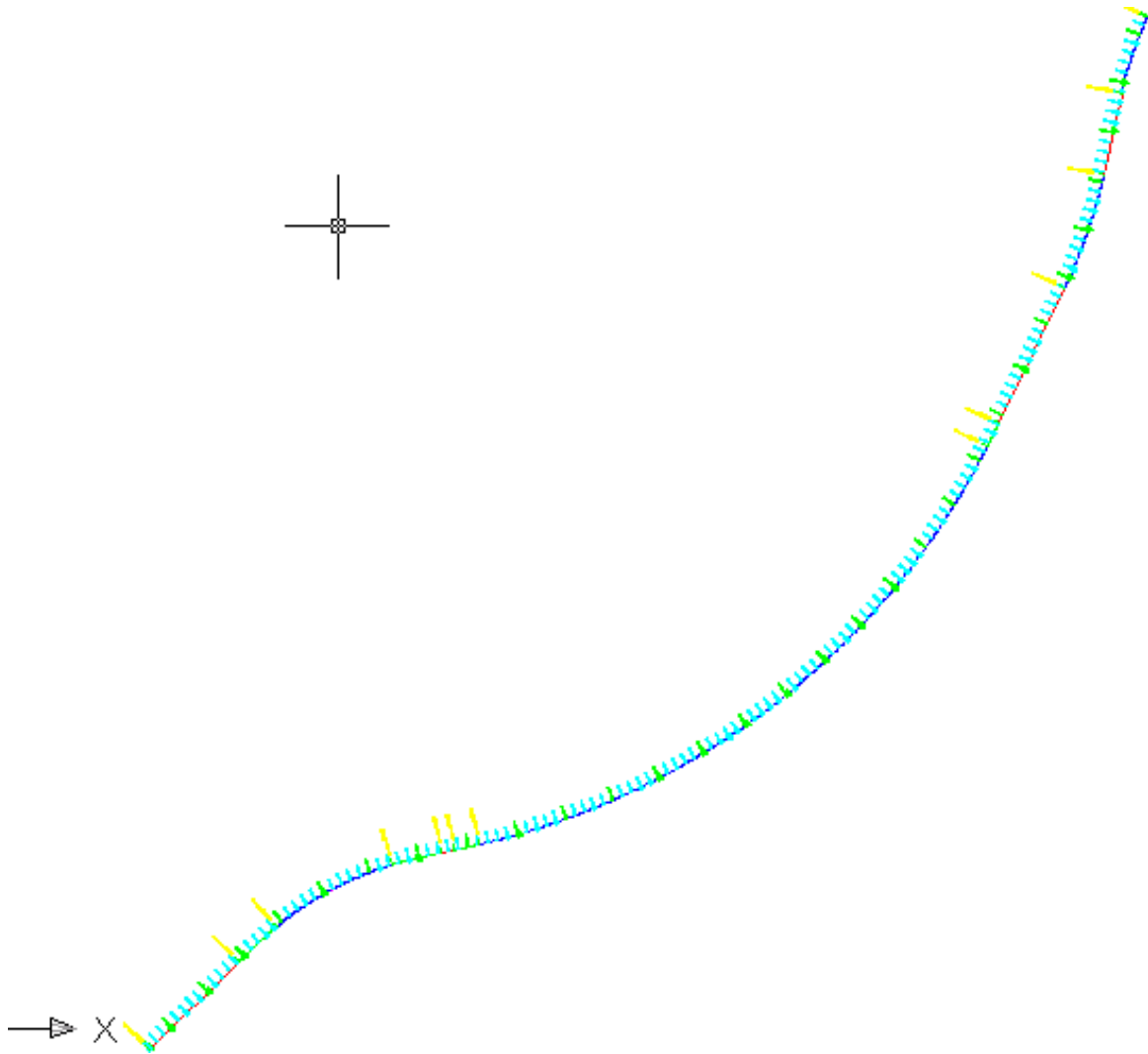


15. Repeat the step(12),

- Enter the radius(693.3)
- Enter the curve Clockwise
- Enter the next point (834864.090, 824510.667)



16. Zoom out the drawing



17. Close the drawing file. Do not save the change.