

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 1)

August 2006

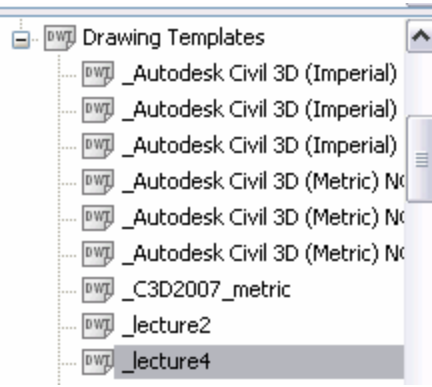
Autodesk®

Objective

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

Exercise

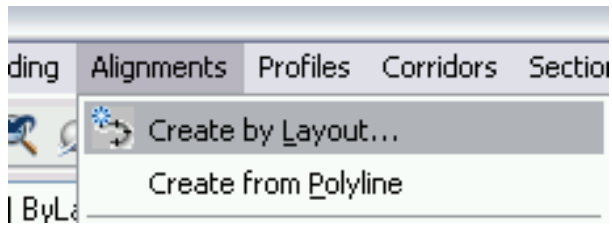
1. Open the [_lecture4.dwt] create new drawing



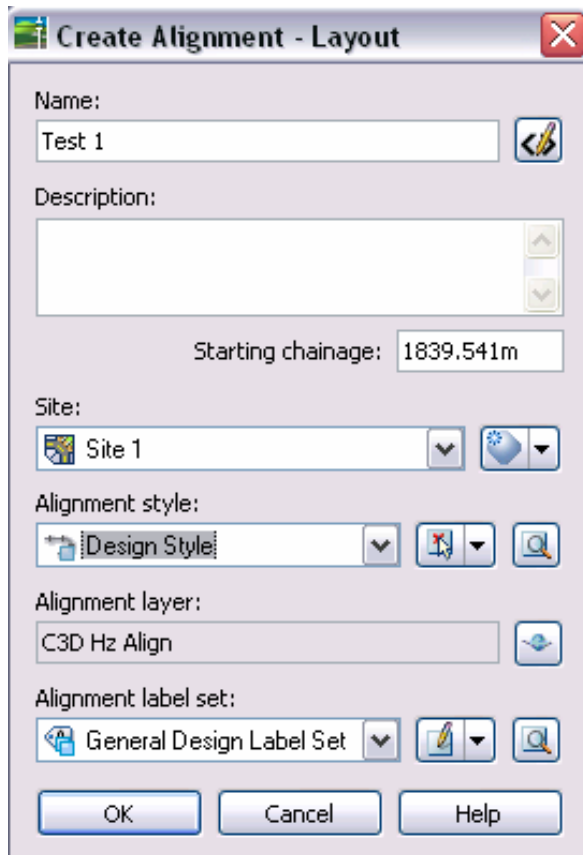
2. Insert the underline point

<i>ST</i>	<i>1+839.541</i>	<i>832988.639</i>	<i>822790.746</i>
<i>TS</i>	<i>2+085.376</i>	<i>833164.254</i>	<i>822962.776</i>
<i>SC</i>	<i>2+185.376</i>	<i>SL=100.000</i>	<i>823030.850</i>
<i>PI</i>		<i>833237.470</i>	<i>823127.440</i>
<i>CC</i>		<i>833332.350</i>	<i>823127.440</i>
<i>CS</i>	<i>2+445.784</i>	<i>833647.929</i>	<i>822540.459</i>
<i>ST</i>		<i>R=+639.500</i>	
<i>TS</i>	<i>2+545.784</i>	<i>833465.250</i>	<i>823153.311</i>
<i>SC</i>	<i>2+571.684</i>	<i>SL=100.000</i>	
<i>PI</i>		<i>833562.414</i>	<i>823176.839</i>
<i>CC</i>	<i>2+621.684</i>	<i>833587.737</i>	<i>823182.276</i>
<i>CS</i>		<i>SL=50.000</i>	
<i>ST</i>		<i>833636.563</i>	<i>823193.044</i>
<i>TS</i>		<i>834327.552</i>	<i>823341.129</i>
<i>SC</i>		<i>833297.263</i>	<i>824654.166</i>
<i>PI</i>		<i>R=-1500.000</i>	
<i>CC</i>	<i>3+933.113</i>	<i>834635.745</i>	<i>823977.063</i>
<i>CS</i>		<i>SL=50.0000</i>	
<i>ST</i>	<i>3+983.113</i>	<i>834657.817</i>	<i>824021.926</i>
<i>PC</i>	<i>4+279.003</i>	<i>834786.964</i>	<i>824288.144</i>
<i>PI</i>		<i>834838.720</i>	<i>824394.833</i>
<i>CC</i>		<i>833887.244</i>	<i>824724.612</i>
<i>PT</i>	<i>4+515.060</i>	<i>R=-1000.000</i>	
<i>PC</i>		<i>834864.090</i>	<i>824510.667</i>
<i>PI</i>	<i>4+679.495</i>	<i>834899.270</i>	<i>824671.294</i>
<i>CC</i>		<i>834916.292</i>	<i>824749.017</i>
<i>PT</i>		<i>835576.517</i>	<i>824522.966</i>
<i>POE</i>	<i>4+837.931</i>	<i>R=+693.300</i>	
		<i>834950.479</i>	<i>824820.863</i>

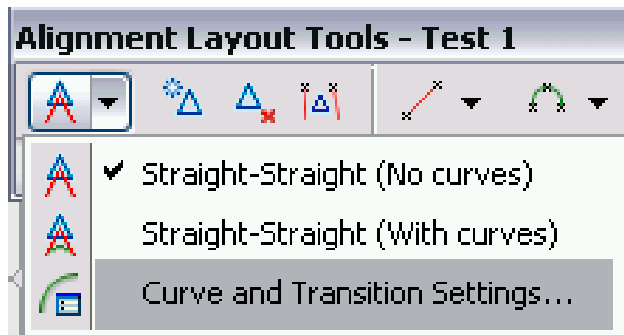
3. In the toolbar menu, select 「Alignment」 → 「Create by Layout」



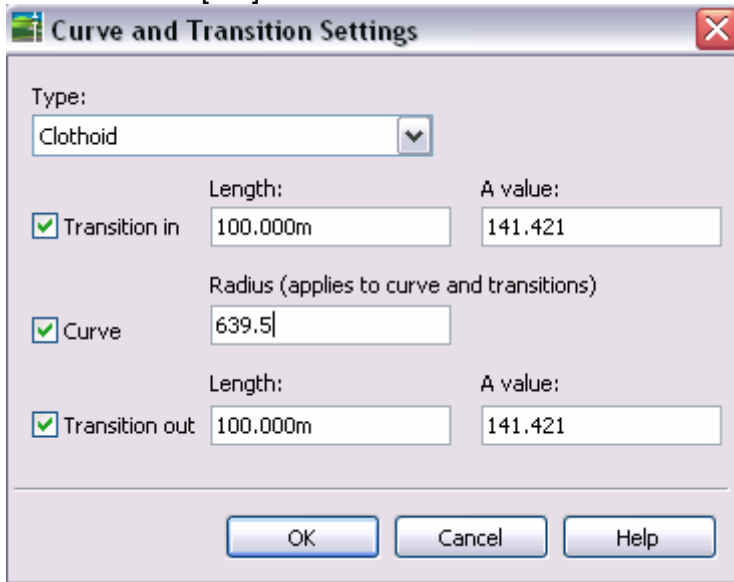
4. In the Layout dialog box :
 - Enter the alignment name (e.g. Test)
 - Enter the starting chainage (1839.541)
 - Press [OK]




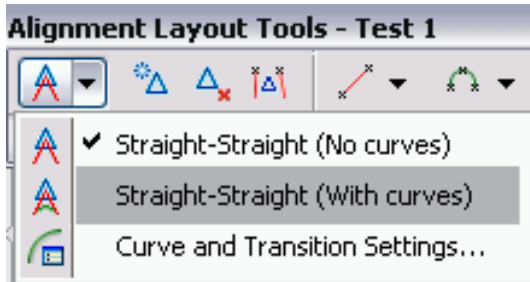
5. In the Layout toolbar menu, expand the  icon select 「Curve and Transition Settings」



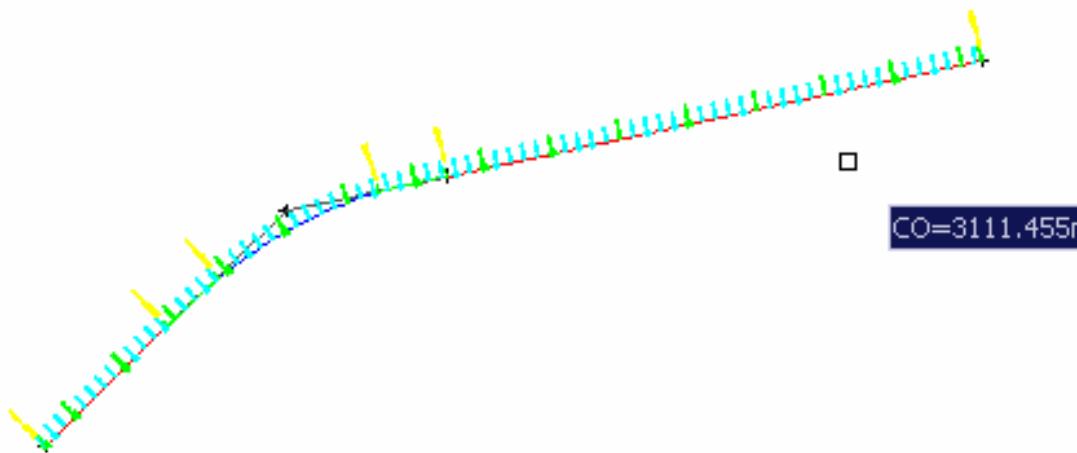
6. In the setting dialog box :
 - Turn on and enter the transition in and out length (100)
 - Turn on and enter the curve radius (639.5)
 - Press [OK]




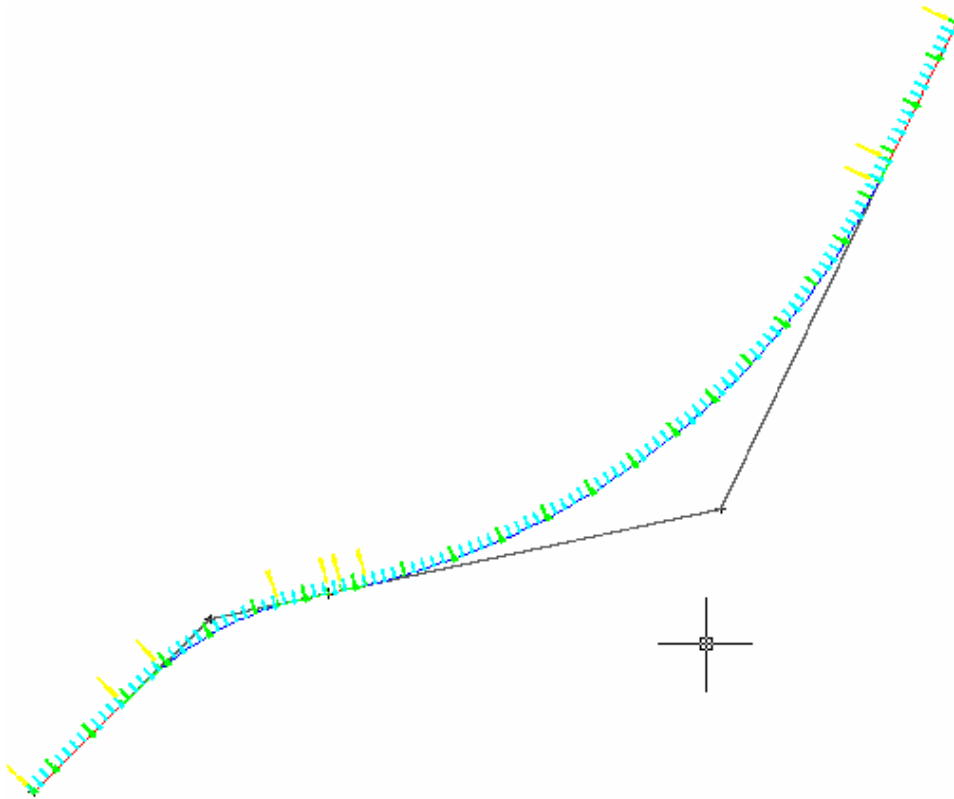
7. Expand  icon, select 「Straight-Straight(with curves)」



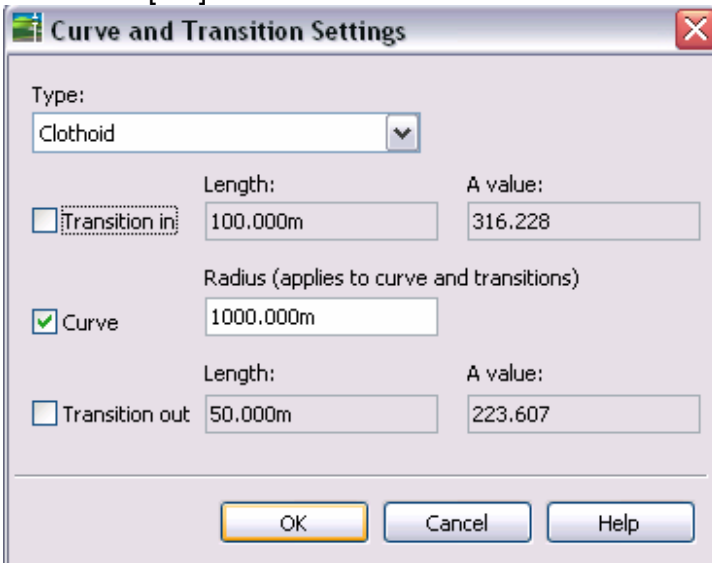
8. Select the start point(ST) →(PI) →(PI)



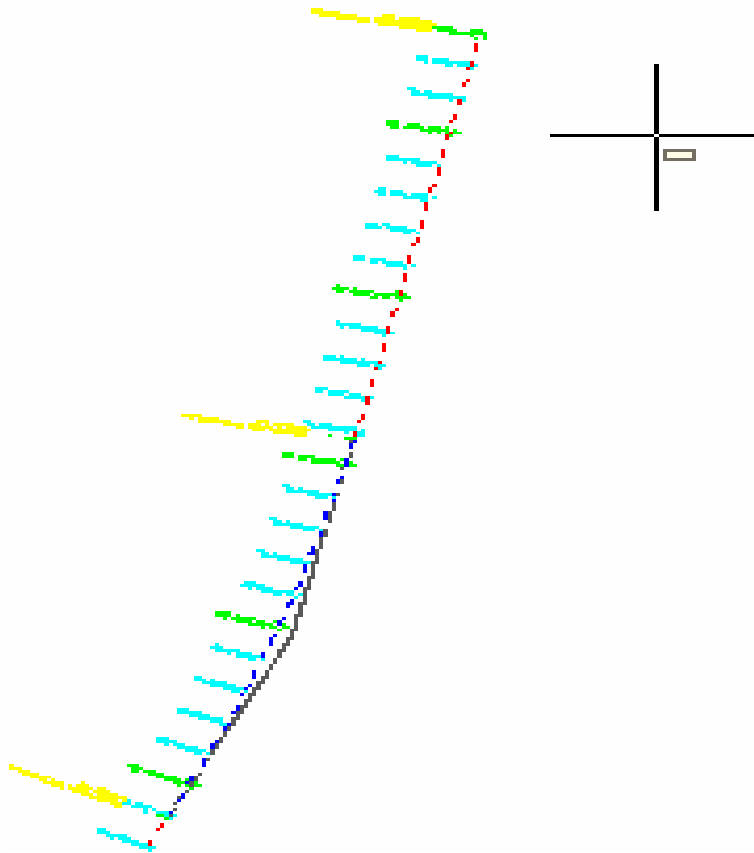
9. In the Layout toolbar menu, expand the  icon select 「Curve and Transition Settings」
10. In the setting dialog box :
 - Turn on and enter the transition in and out length (50)
 - Turn on and enter the curve radius (1500)
 - Press [OK]
11. Select the (PC) point



12. Repeat the step(9), in the setting dialog box :
 - Turn off and enter the transition in and out length
 - Enter the curve radius (1000)
 - Press [OK]

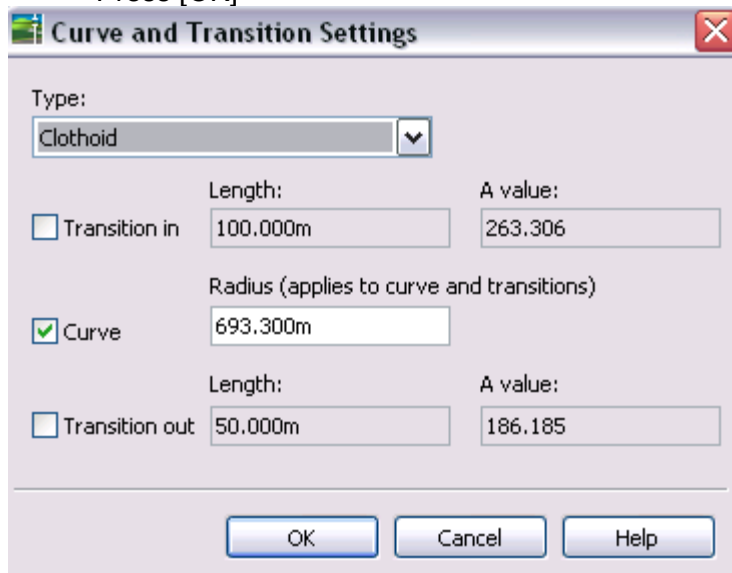


13. Select the (PI) point, →(PI)

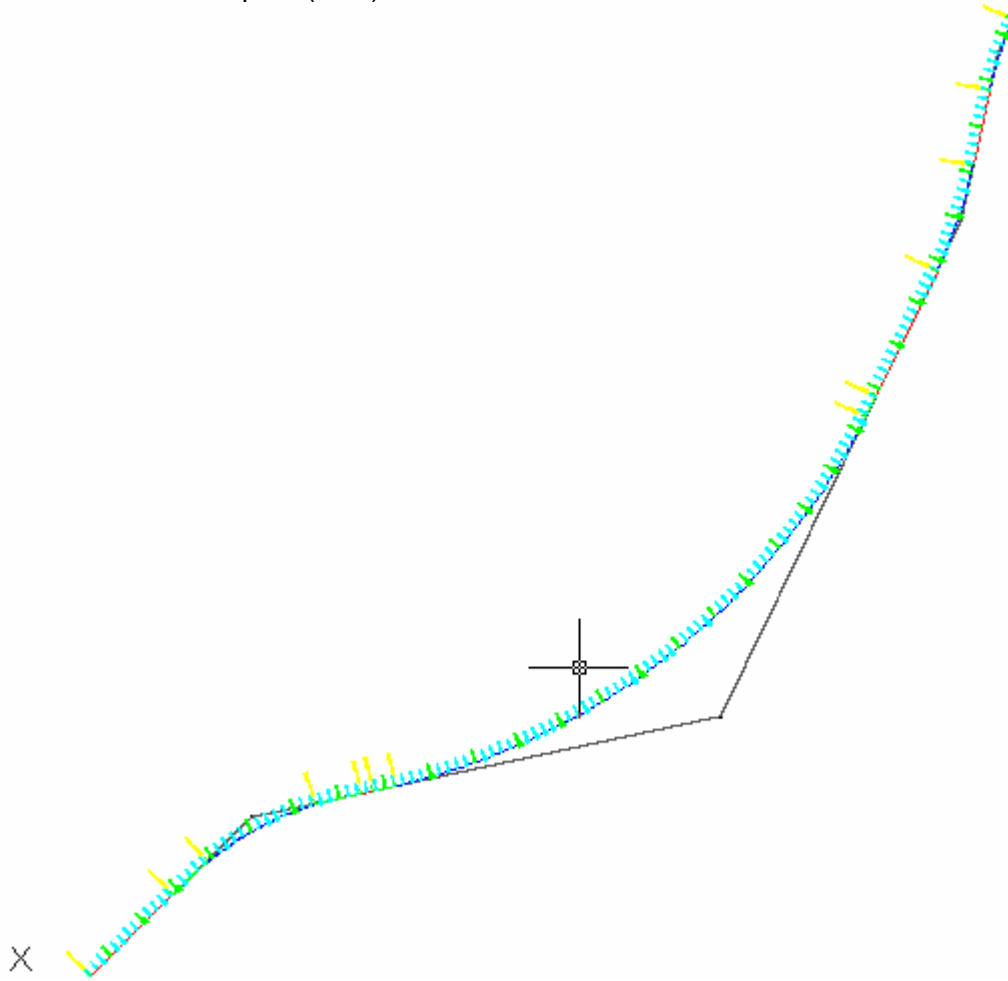


14. Repeat the step(12), in the setting dialog box :

- Turn off and enter the transition in and out length
- Enter the curve radius (693.3)
- Press [OK]



15. Select the end point(P0E)



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