Chapter

8a

Metric Seed Files

This Chapter will cover:

- 1. Starting a New Seed File
- 2. Modifying Text Styles
- 3. Modifying Dimension Styles
- 4. Changing Working Units
- 5. Saving and Setting a Seed File

In the last chapter, you made a standard English template or seed file. In this chapter, you will create a metric based seed file which you will be able to use when moving on to the next chapter, the bracket problem.

Start a New Project

Select the New button from the Standard Toolbox and the New window will appear. Select the browse button and choose the standard seed file that already has the layers, grid and other modified settings we still want. Save the new file as "Metric Seed" and save the file.

New - C:\Users\Charles\Desktop\wcc microstation v8i 2D\Microstation Training\							
Save in:	Microstation T	raining 🗸 🗸	G 🌶 🖻 🗔 -			8 🗎	
Ca	Name	*	Date modified	Туре	Size		
	DGN Circular Prot	olem	12/21/2011 11:22	DGN File	47 KB		
Recent Places	Rectangle Pr	oblem	12/21/2011 9:21 AM	DGN File	46 KB		
	DGN Seed		12/22/2011 9:48 AM	DGN File	39 KB		
	Disk Titleblock		12/22/2011 10:13	DGN File	39 KB		
Desktop							
Libraries							
Network	File <u>n</u> ame:	Metric Seed			•	<u>S</u> ave	
	Save as type:	MicroStation DGN Files (*.dgn)	Cancel				
	Seed:	C:\Users\Charles\Desktop\wcc mic	Browse				

Figure 8a.1 – Starting a New File

Modifying Text Styles

You already created a text style in the Circle problem called Standard. In this seed file, you will make a Metric style. Select Element from the menu bar and then select Text Styles. The Text Style window will appear.

🛝 Text Styles - Metric (A	active : Style (none))	X			
St <u>y</u> le Vi <u>e</u> w Text Styles Style (none) Standard Metric	General Spacing Under/Overline Backgrou Font: Arial Height: 3.1750 Width: 3.1750 Signt: 0° Justification Left Top	nd Advanced			
	Metric				

Figure 8a.6 – Text Style Window

Change the Text Height to 3.175, and the width will automatically change to match the height (Figure 8aa.6). Under Spacing, change the Line Spacing to 1. Change the color to ByLevel. Click Save to save your new text style.

	🛦 Text Styles - Metric (Active : Standard)							
Te St V V	Style V ext Styles style (none Metric Stand	riew	General Lir	Spacing Spacing e Spacing: cing Type: rcharacter: e Offset X: e Offset Y:	Under/Overline 1.00 Exact 0.00 0.00 0.00	Background	Advanced Fix Ba Up Su Su	ed Spacing ckwards side Down ger Script b Sgript
	Metric							

Figure 8a.7 – Setting the Active Text Style

You can right click on the Metric style and Activate it. You will use this style when placing dimensions and notes. Close the Text Styles window to continue configuring the Dimension Style.

Creating a Metric Dimension Style

Click on the magnifying glass beside the style menu access the Dimension Styles window. Click the Create Dimensions Style button, and create a new style called Metric. Under Units, change the Accuracy to 0.12 (Figure 8a.8). Also, check the Leading Zeros and Trailing Zeros boxes in the Primary Units area.

🔊 Dimension Style:	s - Metric	
<u>S</u> tyle <u>V</u> iew		
🗄 - 🏠 🛛] 👆 🗙 🕁 🖨 🍣 🔯	
Dimension Styles	Geometry Units Text Symbology Advance	ed
Style:(none)	Primary Units	Secondary Units
<u> </u>	Use Working Units	Show Secondary Units
Metric Chandrad	Label Format: MU -	Label Format: MU
	Master Units: Millimeters mm	Master Units: Meters 💌
	Sub Units: Micrometers 💌 um	Su <u>b</u> Units: Meters 💌
	Accuracy: 0.12	A <u>c</u> curacy: 0.1234 💌
	Main Prefix: Main Suffix:	
	Upper Prefix: Upper Suffix:	Lower Prefix: Lower Suffix:
	Leading Zero Trailing Zeros	Leading Zero Trailing Zeros
	Altemate Label Settings 💌	Altemate Label Settings 🔻
	Scale	Angle Format
	☑ <u>R</u> eference Scale	Units: Angle 🔻
	Scale_Factor: 1.000000	Display: D.DDDD -
		<u>A</u> ccuracy: 0.1234 -
	Metric Format	Leading Zero Trailing Zeros
	Use <u>C</u> omma for Decimal	
	Units Separator: 1234.56 💌	
	403.23	XXX Yyy XXXXX Yyyyy
		60° XX TY



Under Text, select the Text Style drop menu and select the Metric text style you just created (Figure 8a.9). In the Format area, change the Orientation to Horizontal. Click the save style button at the top of the window when you are finished. Now you are ready to place the radius dimensions

Limension Styles - Metric										
<u>Style View</u>										
Dimension Styles Geometry Units Text Symbology Advanced										
Style:(none)	Style	Notes								
Notrio	Text Style: Netric	Leader Type: Line								
Standard	<u>F</u> ont: Style (none)	Terminator:								
	Height:	Text Frame: None								
	Width: Metric	e Scale 0.000000								
		e Leager 2.00000								
	Format	Lower Margin: 0.500000								
	Orientation: Horizontal	▼ Text Rotation: Horizontal ▼								
	Location: Inline	Horizontal <u>Attachment:</u> Auto								
	Justification: Center > Left	▼ Edit About: Top ▼								
	Text Frame: None									
	Left Margin: 0.500000									
	Lower Margin: 0.500000									
	Stacked Fractions	▼ = Xx Yy =								
	Enable (Off)									
	Type: From Fort									
	Alignment: Top									
	Scale 1.000000									
	402.02 H H Y	XXX Yyy								
	103.23 T	60° XX000 Yyyyy Xx Yy								



Modifying the Drawing Units

Design File Settings	
Category Active Angle Active Scale Angle Readout Axis Color Bement Attributes Fence	Modify Working Unit Settings
Isometric Locks Snaps Stream Views Working Units	Advanced Settings Resolution: 10000 per Distance Meter Working Area: 9.0072E+008 Kilometers Solids Area: 1 Kilometers Solids Accuracy: 1E-008 Meters <u>Edit</u> Focus Item Description Specifies the largest measuring unit, for example, Meters or Feet used in the design.

The seed file you are creating will be based on Metric units rather than standard English. То change the project's working units, select Setting from the menu bar and then select Design File and the DGN File Settings window will appear. Select Working Units from the column on the left. Change Format to MU for Master Unit only, and change the Master Unit to millimeters. Change the Angle Accuracy to 0.1234. Press OK to save these settings.

Figure 8a.10 – Setting the Working Units

Select Angle Readout from the column on the left. Tthe Angle Accuracy should still be set to 0.1. Press OK to save these settings.

Figure 8a.11 – Setting the Working Units

Saving and Setting the Seed File

To save the seed file, just click save.

An easy way to set the seed file is use the Browse button to locate the template you want to use and set the Metric template file for the new drawing.

New - C:\Users\Charles\Desktop\wcc microstation v8i 2D\Microstation Training\								
Save <u>i</u> n:	Microstation Tr	aining 🗸 🗸	G 🌶 🖻 🛄 🕇			S 🗎		
e	Name	*	Date modified	Туре	Size			
Recent Places	Circular Prob	lem	12/21/2011 11:22 12/23/2011 8:11 AM	DGN File DGN File	47 KB 39 KB			
	Rectangle Pro	oblem	12/21/2011 9:21 AM 12/22/2011 9:48 AM	DGN File DGN File	46 KB 39 KB			
Desktop	Ditleblock		12/22/2011 10:13	DGN File	39 KB			
Computer								
Network								
IVELWORK	File <u>n</u> ame:	New Metric Part				<u>S</u> ave		
	Save as type:	MicroStation DGN Files (*.dgn)				Cancel		
	Seed:	ed: C:\Users\Charles\Desktop\wcc microstation v8i 2D\Microstation Training\Metric Seed.dgn						

Figure 8a.12 – Setting the Seed File

* World Class CAD Challenge 02-17 * - This task is not timed but we do challenge you to test your seed file on some sample drawings to discover whether you would be required to modify any system variables or create a level that is forgotten. Continue to test your templates, each time you can write down your omission and open the seed file, make the change to maintain your World Class status.