# **Creating a Strip Map Series**

This exercise shows you how to make a series of maps along a linear feature. In this scenario, you will be making a series of maps along Dixie Highway starting at the Watterson Expressway south to the Meijer just south of Stonestreet Road. You will need to be able to read the Parcel IDs along the highway to do property research on certain properties. A sample of the final layout for this map is on the last page of the exercise.

Open ArcMap in a Citrix connection. In the ArcMap – Getting Started window, go to Existing Maps>Browse for more... and go to the H:/DataDrivenPages directory and select DixieStrip.mxd.

The map opens showing the 5 mile study corridor along Dixie Hwy. Look at the table of contents to see what layers will be shown in this map series.

### **Creating Strip Map Index Features**

A Strip Map Index feature class needs to be created to use Data Driven Pages to produce a Strip Map Series. It is a series of rectangles along the linear feature.

**Open** the **ArcToolbox** button in the Standard tool bar along the top of the mxd. Navigate to **ArcToolbox>Cartography Tools>Data Driven Pages**. (Figure 1) **Open** the **Strip Map Index Features** tool.



Figure 1 - Data Driven Pages toolbox

We will be producing hardcopy maps on **8.5**" **x 14**" paper at a scale of **1 in. = 100 ft**. The page orientation will be **portrait**.

Figure 2 on the next page shows the setup for the **Strip Map Index Features** tool. The new Strip Map Index feature class will be called **DixieIndex** and placed in the **DDP.gdb**. Figure 3 on the next page explains some of the **components** of the tool.

Dixie Hwy Corridor Study		1
Output Feature Class		-
H: \DataDrivenPages \DDP.gdb \DixieIndex		
Use Page Unit and Scale (optional)		
Map Scale (optional)		
Length Along the Line (optional)		
1200	Feet	<u> </u>
Length Perpendicular to the Line (optional)		
<b>4</b> 500	Feet	
Page Orientation (optional)		
VERTICAL 🔰		-
Percentage of Overlap (optional)		
	4	5
Starting Page Number (optional)		
		1
, Strip Map Direction (optional)		
EW NS		-
<u> </u>		

Figure 2 - Strip Map Index Features tool

**1** – **Length** of an index rectangle **along** the line in map units.

**2** – **Length** of an index rectangle **perpendicular** to the line in map units.

- **3** The page orientation. **Vertical** used for
- portrait and Horizontal used for landscape.

4 – The **percentage** of **overlap** between index rectangles.

**5** – The start and direction of the page numbering.

When all the components are set, click **OK**. The new Strip Map Index feature class, **DixieIndex**, will be added to the mxd and appear in the map.

To set the scale, **right click** on the Data Frame called **Layers** and select **Properties**. Go to the **Data Frame tab** and set the **Extent** to **Fixed Scale** and set **Scale to 1,200**. (1 inch = 100 feet)

Figure 3 – Strip Map Index Feature Components



## **Creating the Data Driven Pages**

To open the **Data Driven Pages** toolbar, go to **Customize > Toolbars** and select **Data Driven Pages**.

	<b>Figure 4</b> - Setup Data Driven Pages, Definition tab			
On the <b>Data Driven Pages</b> toolbar,	Setup Data Driven Pages			
use the <b>Definition</b> tab to open the	Definition Extent			
Setup Data Driven Pages				
property pages. (Figure 4)	(1) What are data driven pages?			
	An index layer is used to produce multiple output pages using a single layout. Each page the data at a different extent. The extents are defined by the features in the index lay	e shows er.		
Check Enable Data Driven Pages.				
Choose the <b>Layers</b> data frame that contains the index layer. For <b>Layer</b> , choose the index layer. In this exercise, select <b>DixieIndex</b> . For the <b>Name Field</b> , choose the field name ' <b>PageNumber</b> '. For the <b>Sort Field</b> , choose the field name ' <b>PageNumber</b> '.	✓ Enable Data Driven Pages   Index Layer   Data Frame:   Layers   Layer:   Optional Fields   Rotation:   Angle   Spatial Reference:   Name Field:   PageNumber   Sort Field:   PageNumber   ✓ Sort Ascending	•		
For the <b>Rotation</b> choose the field	OK	Cancel		
name 'Angle'				
inanie ingre i				
Switch to the <b>Extent</b> tab. (Figure 5)	Setup Data Driven Pages	<u> Y</u> X		
	Definition Extent			
Select Center and Maintain	Map Extent			
<b>Current Scale</b> . This will keep a	C Best Fit			
fixed scale with the current map	Margin			
scale.	Size: Speafy Using:			
	Percentage			
Click <b>OK</b> . This will zoom to the		_		
first page in your index layer.	Round Scale To Nearest:			
	10			
Change the symbology in the	Center And Maintain Current Scale			
DixieIndex layer to Fill Color of				
No Color. Increase the Outline	O Data Driven Scale			
Width to 5.0 and change the	v v			
Outline Color to Black.				
Check on the Current Parcel				
<b>Polygons</b> layer. <b>Check off</b> the				
Dixie Hwy Corridor Study laver	OK	Cancel		

On the **Data Driven Pages** toolbar, step through some of your pages using the arrow buttons.

## Adding Dynamic Text the Layout View

If necessary, go to the **Layout** view to view the pages. Double check to make sure the Map Scale is set to **1:1,200** in the **Standard** toolbar.

To add the page number with the total page number (1 of 26), go to the **Data Driven Pages** toolbar, click on the **Page Text** button and select **Data Driven Page with Count**. (Figure 6)

Data Driven Pages	→ × Page Text →	
	Data Driven Page Name Data Driven Page Number	
	Data Driven Page with Count	
	Data Driven Page Display Expression Data Driven Page Attribute	a+
Figure 6 – Data Drive Pag	e Toolbar.	A.

The text box will appear in the **center** of the layout. **Move** it to the **lower right corner** of the **layout**. (See Sample Map on the last page.)

To add a **Title** with the page number, **click** on the **Page Text** button in the **Data Driven Pages** toolbar and select **Data Driven Page Number**. The **page number** will appear in the **center** of the layout.

**Right click** in the **page number**, select **Properties** and click on the **Text** tab.

In the **Text** window, notice the html code enabling the dynamic text: <dyn type="page" property="name"/>

**In front of the html code, type "Dixie Highway Corridor Map #:** " (Figure 7)

Change the font size to 16. Click OK.

**Move** the **Title** to the **center** of the margin below the data frame. (See Sample Map on the last page.)

Proper	ties		×
Text	Size and Position	1	
Text:			
Dixie prop	Highway Comidor erty="name"/>	Map #: <dyn <="" th="" type="page"><th></th></dyn>	
Font:	Arial 16.00		E E E
Angle	: 0.00	Character Spacing	: 0.00 🛨
Abou	t formatting text	Leading:	0.00 📩
<u></u>		OK Cancel	Apply

Figure 7 - Adding Static Text with Dynamic Text

Save the mxd.

If you choose, **export** the all the pages of the map series into one **Single PDF file**. (See Exercise 1, page 4.)

Close the mxd.

Exercise 3

### Sample Map for Exercise 3



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