CHAPTER 10

Printing

PROJECT EXERCISE

This project exercise provides step-by-step instructions for printing the Chapter 6 Project Exercise design, shown in Figure P10–1.

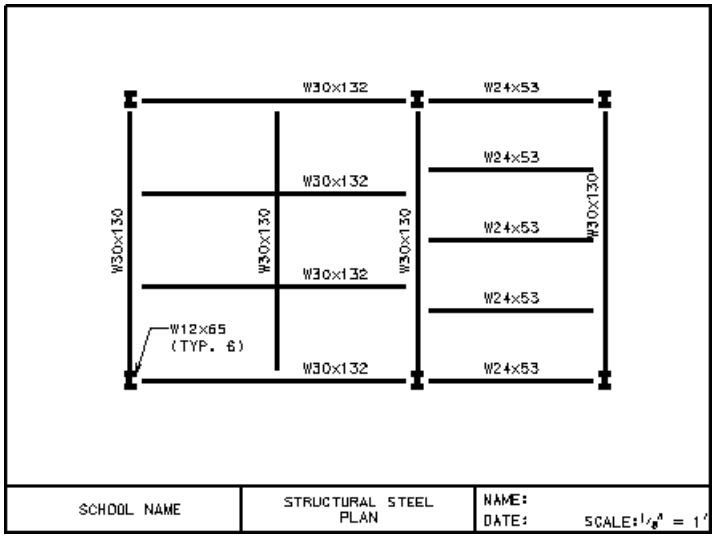

Figure P10–1 Completed project design

Note: As you complete each step in the project procedures, place a check mark by the step to help you keep up with where you are in the project.

SET UP THE DESIGN FOR PLOTTING

This procedure prepares the structural steel plan design for printing.

STEP 1: Start MicroStation and open the design file named CH6.DGN.

Note: If you did not draw the Chapter 6 project, refer to the Chapter 6 practice for instructions.

STEP 2: Invoke the Fit View tool to fit the view window.

STEP 3: Set the default Snap mode to Keypoint.

STEP 4: Invoke the Place Fence tool from the Fence tool box, and in the Tool Settings window, select the **Block** option.

MicroStation prompts:

Place Fence Block > Enter first point

Keypoint snap to one corner of the border block, and then place a data point.

Place Fence Block > Enter opposite corner

Keypoint snap to the diagonally opposite corner, and then place a data point to complete placing the Fence Block.)

Note: A successful Keypoint snap is indicated by the tentative cross appearing on the corner and the entire border block switching to the highlight color.

SET UP THE PRINTING PARAMETERS

This procedure opens the Print dialog box, sets the required printing parameters, and prints the fence contents.

STEP 1: Invoke **Print** from the **File** menu to display the Print dialog box.

STEP 2: Invoke **Select Windows Printer** from the File menu and select a printer from the list.

STEP 3: Select **Fence** from the **Area** menu on the Print dialog box.

STEP 4: Refer to Figure P10–2 and set the appropriate settings.

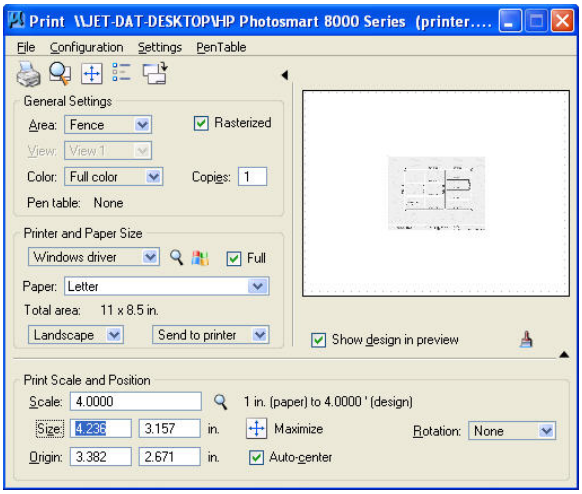

Figure P10–2 Print settings box

Note: The **Scale** says 4.0000 ft:in/IN and is equivalent to 1/4″ = 1′–0″.

STEP 5: Invoke **Print Attributes** from the **Settings** menu on the Print dialog box and turn OFF the **Plot Border** and **Fence boundary** checkboxes, as shown in Figure P10–3. Click **OK** to close the dialog box.

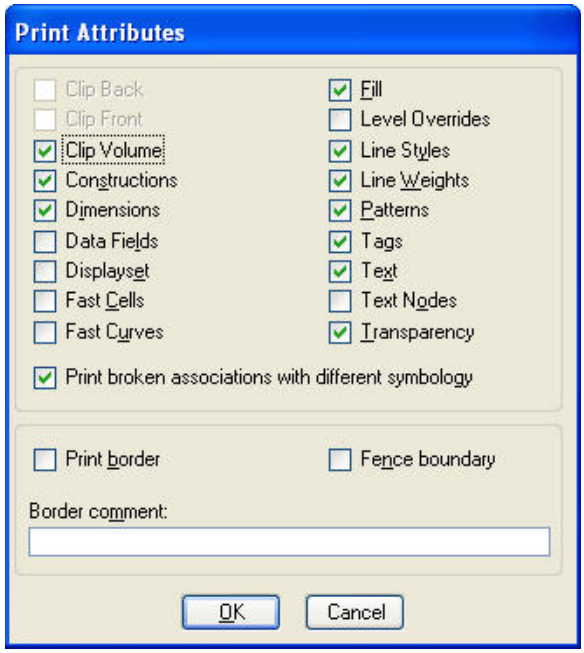

Figure P10–3 Print Attributes dialog box

STEP 6: Submit the print to the printer/plotter by invoking **Print** from the **File** menu on the Print dialog menu bar.

Note: Leave the Print settings box open for the next procedure.

PLOT THE DESIGN AGAIN WITH ALL ELEMENTS AT WEIGHT 0

This procedure uses the Pen Table option to print the same design with all elements at weight 0.

STEP 1: Invoke **New** from the **Pen Table** menu on the menu bar of the Print dialog box.

STEP 2: In the Create Pen Table File dialog box, key-in **CH10.TBL** in the **File name** field, and click **OK**. MicroStation displays the Modify Pen Table settings box, similar to Figure P10–4.

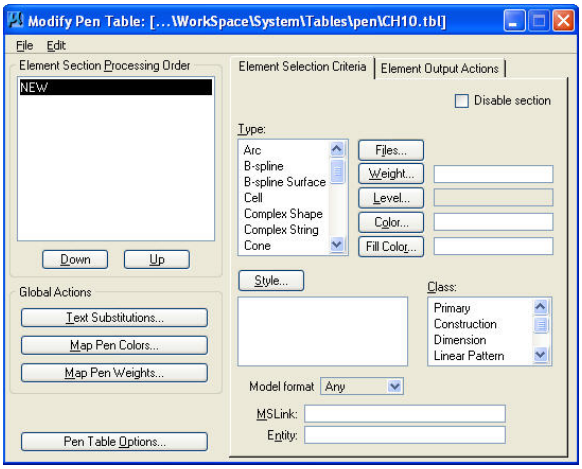

Figure P10–4 Modify Pen Table settings box

STEP 3: Click the **Element Output Actions** tab, turn the **Width** check box ON, and set the Line Width to 0.

STEP 4: Invoke **Save** from the **File** menu on the Modify Pen Table settings box.

STEP 5: Invoke **Preview** from the **Save** menu on the Print dialog box to preview the way the printed design will look after the modification in the Modify Pen Table settings box.

Note: The Line Width setting is for plotting only. The width of the elements in the design is unchanged.

STEP 6: Invoke **Print** from the **File** menu on the Print dialog box to print the design with all elements at weight 0.

DRAWING EXERCISES 10–1 THROUGH 10–5

The following exercises have you create prints of the exercises that were created in earlier chapters. The requested plot scales are intended to create print on letter-size (8.5″ × 11″) paper.

- If the printer/plotter you have access to can handle larger sheet sizes, print at larger scales.
- If the printer/plotter you have access to cannot plot at the recommended scales, reduce the scale by half. For example, if it cannot create a full-scale print, create a half-scale print.

Exercise 10–1

Open the design created in Exercise 4–5, fit the view, size the view window to minimize the space outside the design area, then print the view at full scale (1.0000 IN:TH/IN).

Exercise 10–2

Open the design created in Exercise 5–2, place a fence by snapping to diagonally opposite corners of the design border, then print the contents of the fence at full scale (1.0000 IN:TH/IN).

Exercise 10–3

Open the design created in Exercise 9–3, place a fence by snapping to diagonally opposite corners of the design border, then print the contents of the fence at full scale (1.0000 IN:TH/IN).

Exercise 10–4

Open the design created in Exercise 5–5, place a fence by snapping to diagonally opposite corners of the design border, then print the contents of the fence at $^1/_4$″ = 1′, (4.0000′.″/IN).

Exercise 10–5

Open the design created in Exercise 6–5, place a fence by snapping to diagonally opposite corners of the design border, then print the contents of the fence at $^1/_2$″ = 1′, (2.0000′/IN).