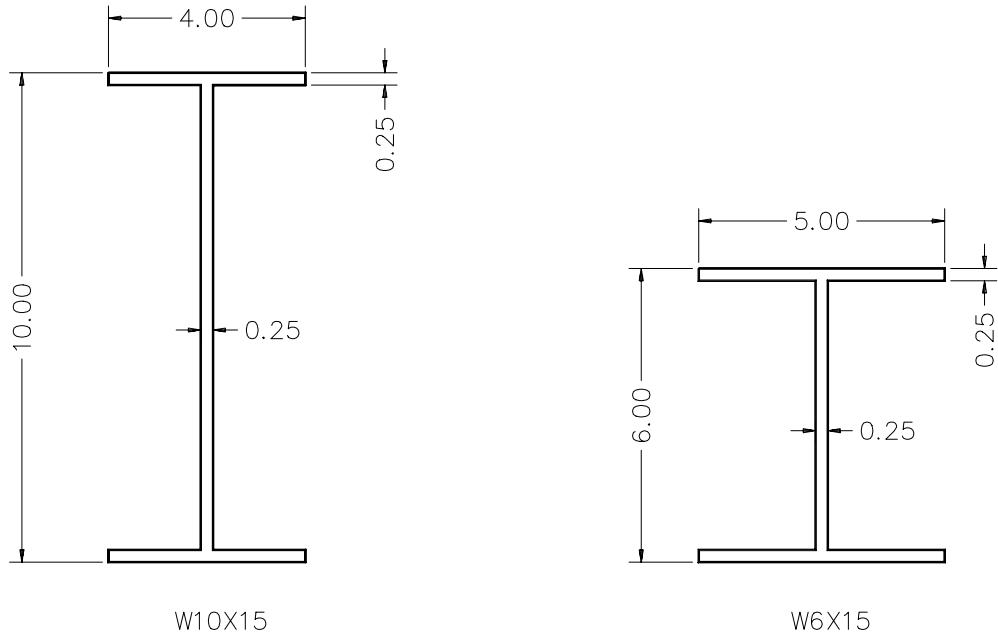# CHAPTER 9 EXERCISES

1. I-Beams

Draw the W10x15 beam shown in Figure CE9-1. *SaveAs* **W10X15**. Use the *Stretch* command
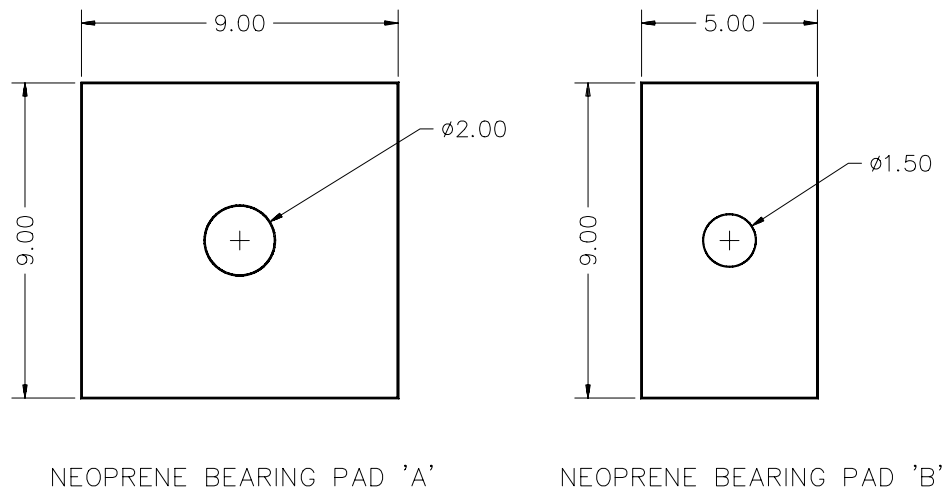to modify the beam to the dimensions for the W6x15. *SaveAs* **W6X15**.

Figure CE9-1

W10X15   W6X15

2. Bearing Pads

Draw the bearing pad "A" as shown in Figure CE9-2. Then, use the *Stretch* and *Scale* com-
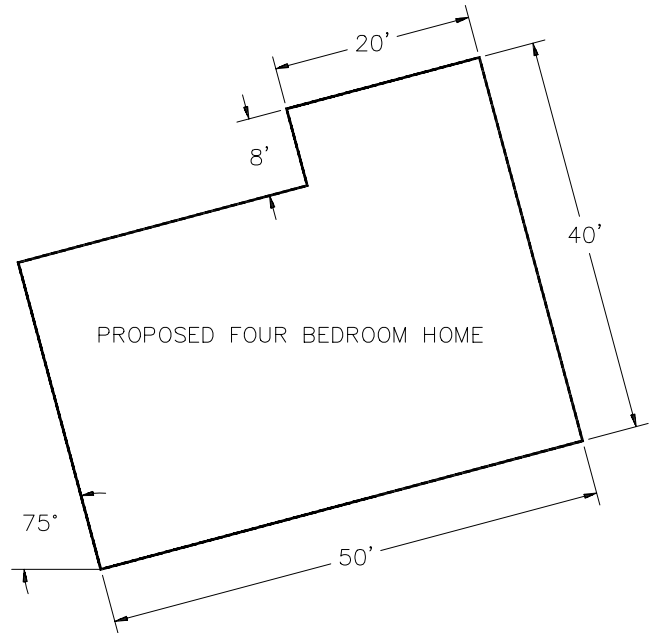mands to make the changes needed for pad "B". *SaveAs* **BEARPADS**.

Figure CE9-2

NEOPRENE BEARING PAD 'A'   NEOPRENE BEARING PAD 'B'

3. Plot Plan

Figure CE9-3

An engineer wishes to locate a house on a plot of land with a 15° angle from due north. Draw the house per the dimensions shown in Figure CE9-3 using the *Polar Snap* and *Polar Tracking* features to aid in placing the house on the plot plan. *SaveAs* **PLOT-PLAN**.

4. Printed Circuit Boards

Complete the drawing of PCB1 shown in Figure CE9-4. SaveAs **PCB1**. Change the sizes of the holes to create **PCB2** and *SaveAs* **PCB2**.

Figure CE9-4

CIRCLE	ø
A	10
B	20
C	8
D	15

CIRCLE	ø
A	20
B	12
C	15
D	10

PCB1   PCB2