

R2016 TEXT BOOK – LEARNING OBJECTIVES & TOPICAL OUTLINES

CHAPTER 5, LINE STANDARDS & LAYERS

Learning Objectives

After completing this chapter, the student will be able to do the following:

- ✓ Describe basic line conventions.
- ✓ Explain the concept of layers in a CADD drawing.
- ✓ Describe how drawing layers are used in various drafting fields.
- ✓ Create and manage layers
- ✓ Use **DesignCenter** to copy layers and linetypes between drawings.

TOPICAL OUTLINE

1. Line Standards (see Pages 128-129)
2. Introduction to Layers
3. Layers Used in Drafting Fields
4. Creating and Using Layers
 - a. Adding Layers
 - i. Layer names
 - ii. Renaming Layers
 - b. Selecting Multiple Layers
 - c. Layer Status
 - d. Setting the Current Layer
 - e. Setting Layer Color
 - f. Setting Layer Linetype
 - i. Loading Linetypes
 - ii. Setting Linetype Scale
 - g. Setting Layer Lineweight
 - i. Lineweight Settings
 - h. Layer Transparency
 - i. Setting Transparency
 - ii. Showing and Hiding Transparency
 - i. Layer Plotting Properties
 - j. Adding a Layer Description
 - k. Turning Layers On and Off
 - l. Freezing and Thawing Layers
 - m. Locking and Unlocking Layer
 - i. Locked Layer Fading
 - n. Deleting Layers
 - o. Adjusting Property Columns
 - p. Introduction to Layer Filters
 - i. (supplemental web site materials)
 1. Creating a property filter
 2. Creating a group filter
 3. Activating layer filters
 4. Inverting layer filters
 5. Additional layer filter options
 6. Filtering by searching

- q. Layers States (page 147 & supplemental web site materials)
- 5. Reusing Drawing Content
 - a. Introduction to DesignCenter (Fig. 5-28, Page 150-151)
 - b. Copying Layers & Linetypes