

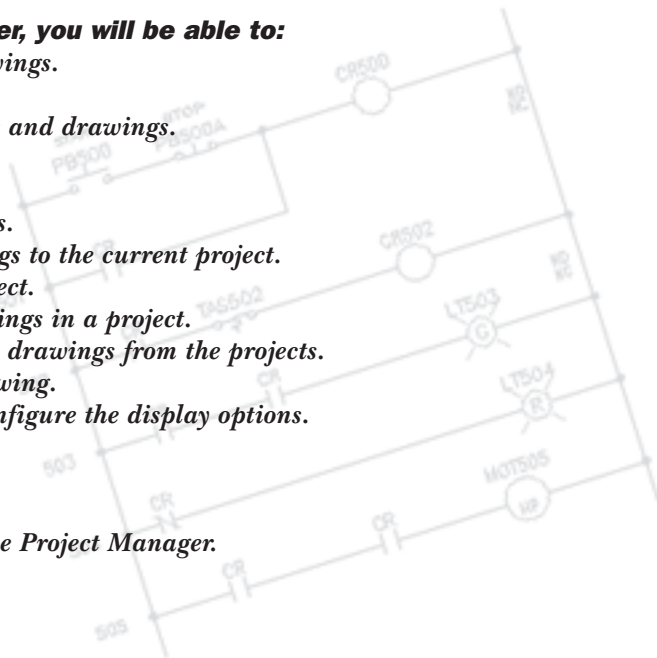
Chapter 2

Working with Projects and Drawings

Learning Objectives

After completing this chapter, you will be able to:

- Create new projects and drawings.
- Open the Project Manager.
- Edit the properties of projects and drawings.
- Add drawing descriptions.
- Open the existing projects.
- Activate and close the projects.
- Add existing and new drawings to the current project.
- Group the drawings of a project.
- Change the order of the drawings in a project.
- Rename, replace, and remove drawings from the projects.
- Assign a description to a drawing.
- Preview the drawings and configure the display options.
- Open the project drawings.
- Copy the existing projects.
- Delete projects.
- Understand the working of the Project Manager.



INTRODUCTION

AutoCAD Electrical is a project-based software in which wiring diagrams related to each other are grouped under a project. A project is a set of electrical wiring diagrams that forms a project file <project_name>.wdp. Each project is defined by an ASCII text file with .wdp extension. These project files contain a list of project information such as project settings, project or drawing properties, names and descriptions of drawing files, symbol library paths, and so on. You can have an unlimited number of projects. However, only one project can be active at a time. The list of these projects is displayed in the **Project Manager**.

PROJECT MANAGER

Ribbon:	Project > Project Tools > Manager
Toolbar:	ACE:Main Electrical 2 > Project Manager or ACE:Project > Project Manager
Menu:	Projects > Project > Project Manager
Command:	AEPROJECT



The **Project Manager** is used to create new projects, add new drawings to a project, re-order drawing files, access existing projects, and modify the existing information in a project. By default, the **Project Manager** is opened and docked on the left of your screen, as shown in Figure 2-1. If the **Project Manager** is not displayed by default, choose the **Manager** button from the **Project Tools** panel of the **Project** tab; the **Project Manager** will be displayed.

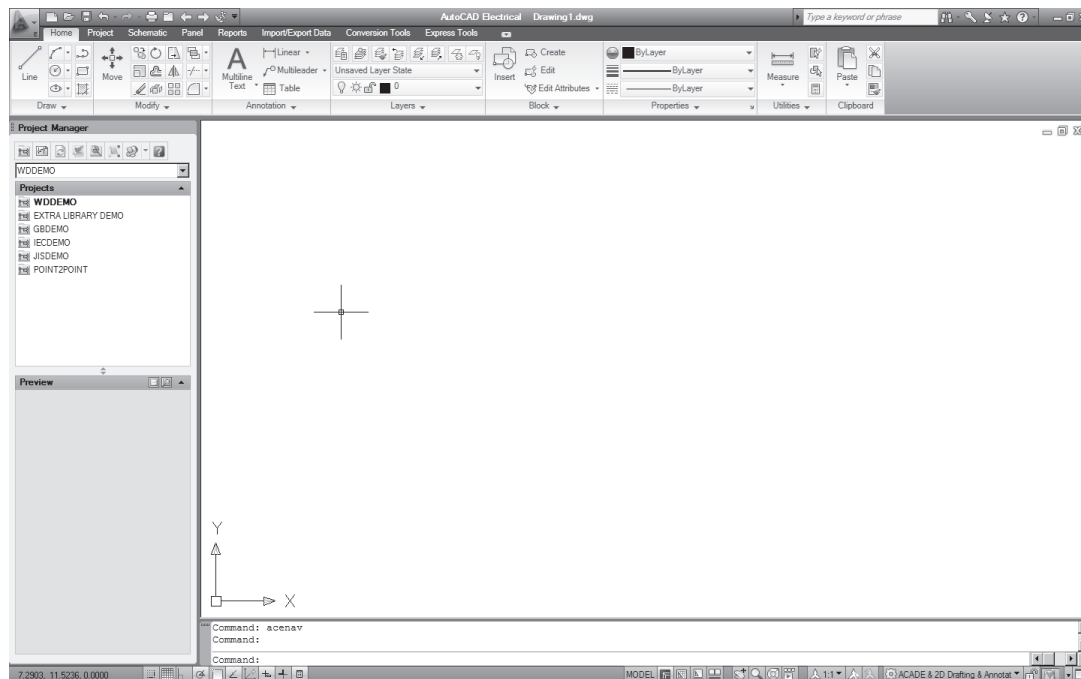


Figure 2-1 AutoCAD Electrical screen with the **Project Manager**

Alternatively, choose the **Project Manager** button from the **ACE:Main Electrical 2** toolbar to display the **Project Manager**. The **Project Manager** is similar to other AutoCAD Electrical tool palettes. You can dock the **Project Manager** at a specific location on the screen. Also, if you do not want to use project tools, you can hide the **Project Manager**.

When you double-click on the title bar of the **Project Manager**, it gets undocked and will be displayed separately on the screen, as shown in Figure 2-2. When you right-click on the title bar of the undocked **Project Manager**, a shortcut menu will be displayed, as shown in Figure 2-3. You can change the appearance, location, and display settings of the **Project Manager** by choosing the respective options from the shortcut menu.

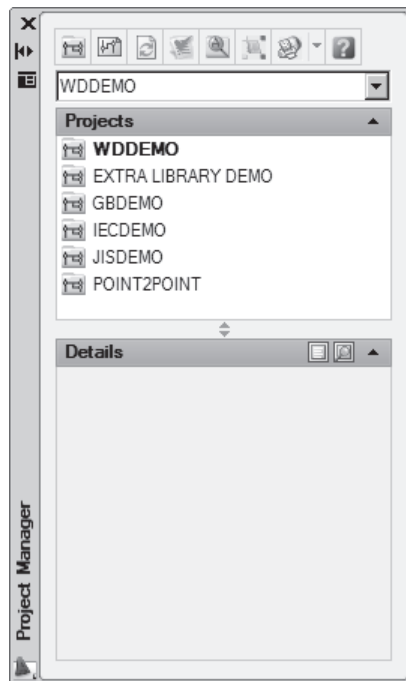


Figure 2-2 The undocked **Project Manager**

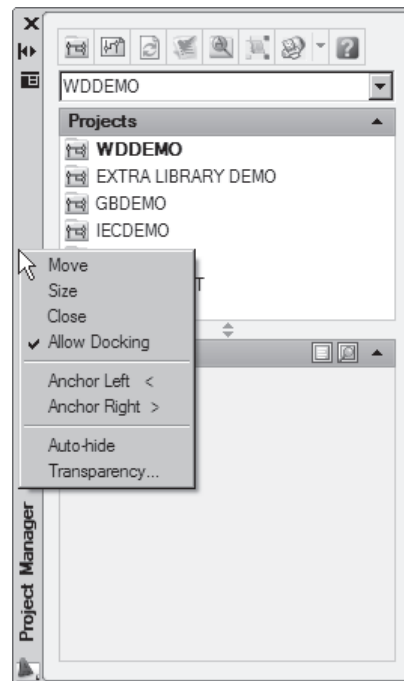
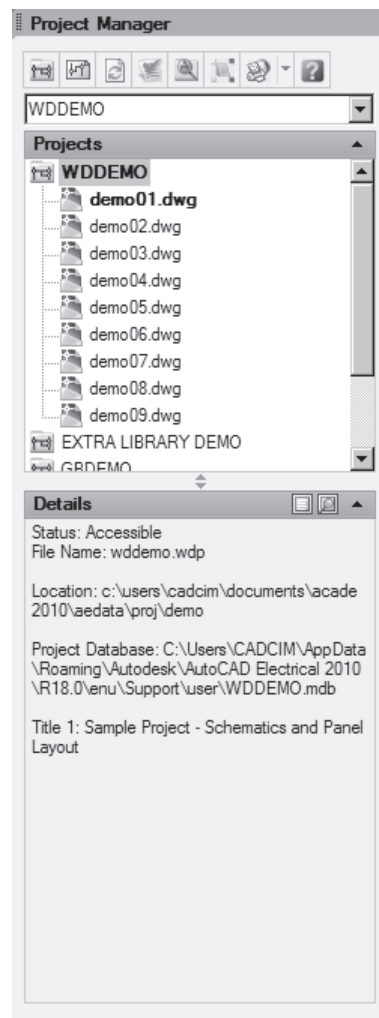


Figure 2-3 The shortcut menu displayed on right-clicking the title bar of the **Project Manager**

When you double-click on a project name in the **Projects** rollout, a list of drawings associated with the project will be displayed. Also, the details of the selected project will be displayed in the **Details** rollout of the **Project Manager**, as shown in Figure 2-4. The name of active project will appear in bold text in the **Projects** rollout of the **Project Manager**.

When you right-click on a drawing name, a shortcut menu will be displayed. You can use the options in this shortcut menu to open, close, copy, remove, replace, rename, or access other editing options to modify the drawing file. These options are discussed in detail later in this chapter. You can open a drawing file by double-clicking on it and the corresponding drawing file will appear in bold text in the **Projects** rollout of the **Project Manager**.



*Figure 2-4 The **Project Manager** displaying the list of drawings within a project*



Note

You cannot create two projects with the same name in the **Project Manager**. Moreover, using the **Project Manager**, you can switch between different projects and change their settings.

CREATING A NEW PROJECT IN AutoCAD Electrical

Command: ACENEWPROJECT



You can create a new project by using the **New Project** button from the **Project Manager**. To do so, choose the **New Project** button from the **Project Manager**; the **Create New Project** dialog box will be displayed, as shown in Figure 2-5. Alternatively, use the **ACENEWPROJECT** command to create a new project. Different options in the **Create New Project** dialog box are discussed next.

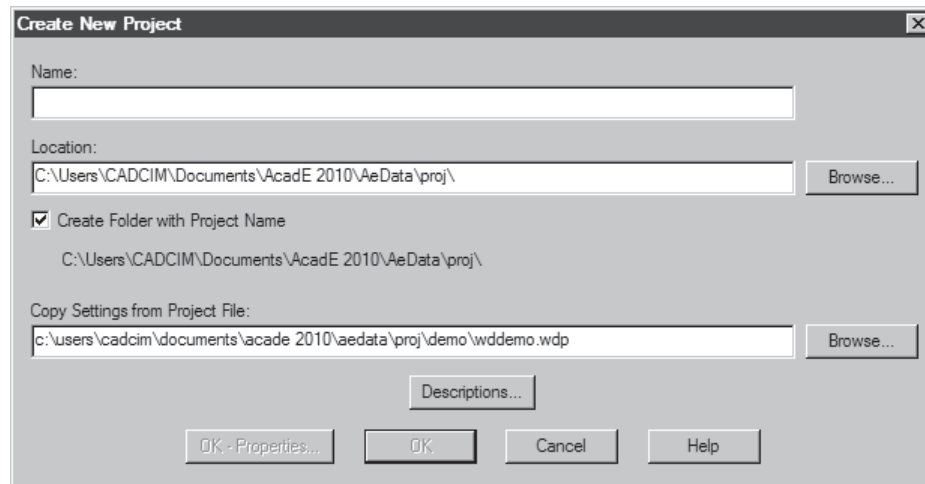


Figure 2-5 The Create New Project dialog box

Name

The **Name** edit box is used to enter a name for the project. On doing so, the *.wdp* extension will automatically be added to the file name and displayed under the **Create Folder with Project Name** check box.

Location

The **Location** edit box is used to specify the location for saving the project. You can also choose the **Browse** button on the right of the **Location** edit box to specify the location for saving the project file (*.wdp* file). By default, *C:\Users\CADCIM\Documents\AcadE 2010\AeData\proj* is displayed in the **Location** edit box, refer to Figure 2-5.

Create Folder with Project Name

The **Create Folder with Project Name** check box is selected by default in this dialog box. As a result, a folder with a name identical to the project name will be created. Also, the new project will be saved in that folder. The path of the folder will be the same as that defined in the **Location** edit box. If you clear the **Create Folder with Project Name** check box, a separate folder will not be created for the project.

Copy Settings from Project File

You can also copy the settings from an existing project and apply it to the new project that you want to create. To copy the settings from the existing project file, specify the name and location of the existing project file in the **Copy Settings from Project File** edit box. Alternatively, choose the **Browse** button on the right of this edit box; the **Open** dialog box will be displayed. Select an existing project file and then choose the **Open** button; the settings of the specified project will be applied to the new project and the location of the specified project will be displayed in the **Copy Settings from Project File** edit box. By default, *C:\Users\CADCIM\Documents\AcadE 2010\AeData\Proj\Demo\wddemo.wdp* is displayed in the **Copy Settings from Project File** edit box.

Descriptions

The **Descriptions** button is used to add a description to the project. Choose the **Descriptions** button; the **Project Description** dialog box will be displayed, as shown in Figure 2-6. In this dialog box, you can enter a description of the new project up to 12 lines per page. Next, select the **in reports** check box on the right of each description line; the information specified for the project will be included in the report. Note that the descriptions thus added will be included in the report headers of the report file and the title blocks of the drawing. Now, choose the **OK** button from this dialog box to save the changes made and exit the dialog box. The concept of report generation, title blocks, and **Project Description** dialog box are discussed in detail in the later chapters.

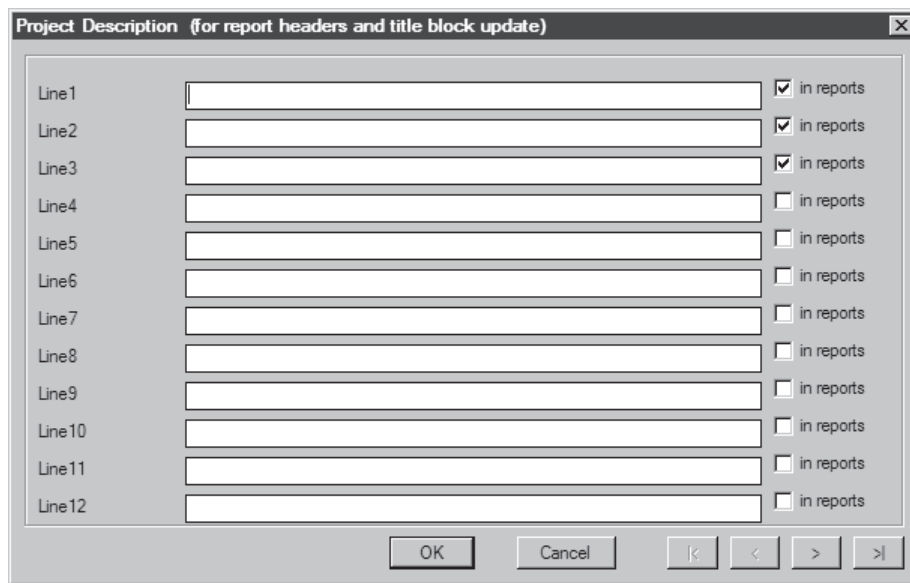


Figure 2-6 The **Project Description** dialog box

OK

The **OK** button of the **Create New Project** dialog box will be available only if you enter the name of the project in the **Name** edit box. Choose the **OK** button; the project that you created will be added to the current project lists in the **Project Manager**. Also, it will become an active project and its name will appear in bold text in the **Project Manager**.

OK-Properties

The **OK-Properties** button will be available only if you enter the project name in the **Name** edit box. Choose the **OK-Properties** button; a new project will be created and the **Project Properties** dialog box will be displayed. This dialog box is used to modify project settings, components, wire numbering, cross-references, styles, and drawing formats. All information defined in the **Project Properties** dialog box are saved to the project definition file (.wdp) as project and drawing defaults. Next, choose the **OK** button from this dialog box to exit from it. The options in the **Project Properties** dialog box are discussed later.

**Note**

You can also create a new project by right-clicking on the **Projects** rollout and then choosing the **New Project** option from the shortcut menu or by selecting the **New Project** option from the **Project selection** drop-down list in the **Project Manager**. You will learn more about it later in this chapter.

WORKING WITH DRAWINGS

In the previous topic, you learned to create new projects using the **Project Manager**. Now, you will learn how to create new drawings within an active project.

You can add any number of drawings to your project at any time. A project file can have drawings located in different directories. But, it is recommended that you save your drawings and project file (.wdp) in the same folder. When you create a new drawing, an invisible smart block, WD_M, will automatically be added to your drawing at location 0,0. The WD_M block defines drawing settings. These settings may be different from the project settings. Thus, you can have different settings for different drawings in a single project. Also, each AutoCAD Electrical drawing should contain only one copy of invisible WD_M block. If multiple WD_M blocks are present in the drawing, the settings may not be stored and read consistently. Also, note that the drawing to be created will automatically get added to the active project.

Creating a New Drawing

Command: ACENEWDRAWING



The **New Drawing** button is used to create a new drawing file. To do so, choose the **New Drawing** button from the **Project Manager**; the **Create New Drawing** dialog box will be displayed, as shown in Figure 2-7.

Alternatively, invoke this dialog box using the **ACENEWDRAWING** command or by right-clicking on the **Projects** rollout of the **Project Manager** and then choosing the **New Drawing** option from the shortcut menu. The different areas and options in this dialog box are discussed next.

Drawing File Area

The options in the **Drawing File** area are used to specify the name of the drawing file, the template file to be used in the drawing, the location to save the drawing, and the description for the new drawing file. The options in this area are discussed next.

Name

Enter a name for the new drawing in the **Name** edit box; the .dwg extension will automatically be added to the drawing name. Note that the **OK** and **OK - Properties** buttons will be available only after entering the name of the new drawing in this edit box.

Template

This edit box is used to specify the path and name of the template drawing (.dwt) for creating drawing file. Alternatively, you can choose the **Browse** button; the **Select**

Figure 2-7 The **Create New Drawing** dialog box

template dialog box will be displayed. Select the template drawing from this dialog box and choose the **Open** button; the location of the template drawing will be displayed in the **Template** edit box.



Note

After entering a template in the **Template** edit box, next time when you create a new drawing, the template entered previously will automatically get displayed in the **Template** edit box. If this edit box is left blank, AutoCAD Electrical will use the default acad.dwt file.

For Reference Only

The reference drawings are used for coversheets, terminal plans, and other non-electrical layouts in a project. These drawings save the processing time of AutoCAD Electrical functions. To create a reference drawing, you need to select the **For Reference Only** check box. On doing so, the reference drawing will be included in the project-wide plotting and title block update operations. All other electrical smart functions such as cross-referencing, automatic tagging, reporting, and so on will be non-functional. By default, the **For Reference Only** check box is cleared.

**Note**

*The color of the reference drawing icon displayed on the left of the drawing name in the **Project Manager** is gray.*

Location

The **Location** edit box is used to specify the location of the new drawing. The directory of the active project file is specified by default in the **Location** edit box. Alternatively, choose the **Browse** button on its right for specifying a different location for the new drawing. If you leave the **Location** edit box blank, the drawing file will be created at the same location as that of the active project. Note that you cannot create duplicate drawings at the same location.

Description 1-3

The **Description 1**, **Description 2**, and **Description 3** edit boxes are used to enter a description for the drawing. In these edit boxes, you can enter up to 3 description lines for the drawing file. You can also enter the description for a drawing by selecting the drop-down arrow on the right of this edit box. But this is possible only if you have entered the description in the earlier drawings. The description, thus entered, will be displayed in the title block updates and custom drawing properties.

OK

The **OK** button will be available only if you enter a drawing file name in the **Name** edit box. When you choose the **OK** button, the new drawing gets automatically added at the bottom of the list in the active project and it appears in bold text. To view the drawing file, expand the active project by double-clicking on the project name.

OK - Properties

The **OK - Properties** button will be available only if you enter a drawing name in the **Name** edit box of the **Drawing File** area. Choose the **OK - Properties** button; the drawing file will be created at the specified location, and also, the **Drawing Properties** dialog box will be displayed, as shown in Figure 2-8. This dialog box is used to define settings and options for a drawing. The options in the **Drawing Properties** dialog box will be discussed in the later chapters. The changes that you make using this dialog box will be saved as attribute values on the drawing's invisible WD_M block. Choose the **OK** button from the **Drawing Properties** dialog box; the drawing will be created and will appear in bold text at the bottom of the project list of the active project in the **Project Manager**.

**Note**

*Mentioning information in the **Description** edit boxes, the **IEC-Style Designators** area, the **Sheet values** area, and the **OK-Properties** button are optional. You can edit any of these fields later in the **Drawing Properties** dialog box at a later stage also.*

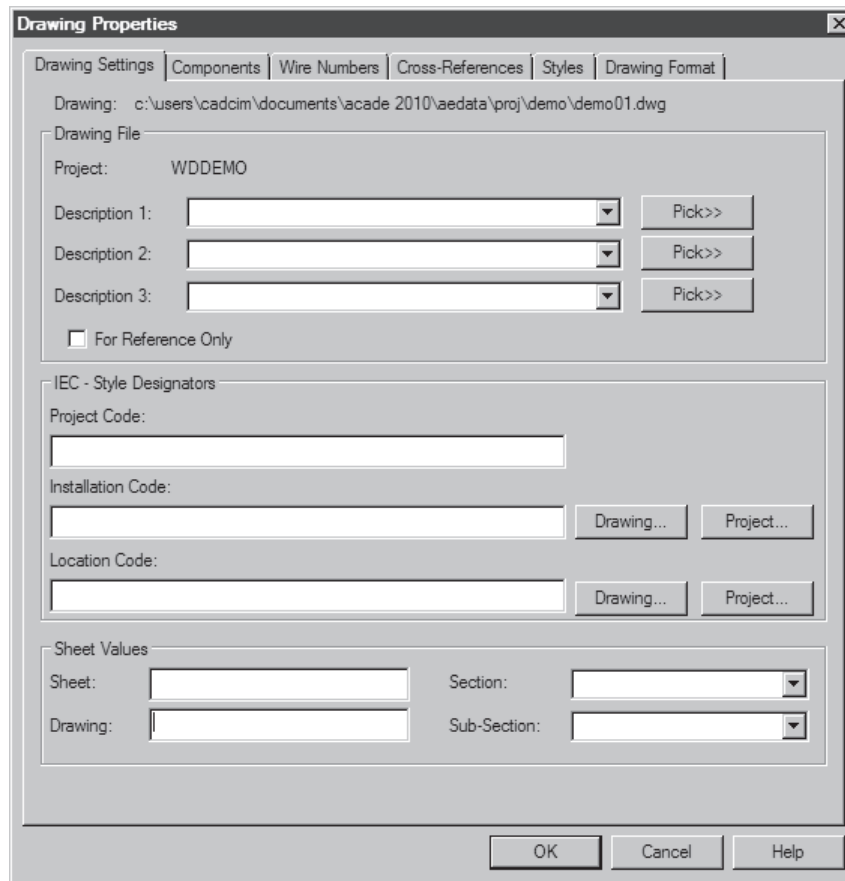


Figure 2-8 The *Drawing Properties* dialog box



Tip: The IEC style designators are widely used when you are using the IEC drafting standard. You must be aware of the drafting standards used in AutoCAD Electrical. The software has been designed to use five International Drafting Standards, which are listed below:

1. Joint Industrial Council ---- JIC (USA)
2. International Electrotechnical Commission ---- IEC (Europe, UK)
3. Japanese International Standard ---- JIS (Japan)
4. Guobiao Standard ---- GB (Chinese)
5. Australian Standard ---- AS (Australia)

Adding a New Drawing to the Current Project

You can add a new drawing to the current project using the **Project Manager**. If the **Project Manager** is not displayed by default on your screen, then choose the **Manager** button from the **Project Tools** panel of the **Project** tab or choose the **Project Manager** button from the **ACE: Main Electrical 2** or **ACE:Project** toolbar; the **Project Manager** will be displayed on the left of the screen, refer to Figure 2-1. Next, choose the **New Drawing** button from the **Project Manager**; the **Create New Drawing** dialog box will be displayed. Enter necessary information in this dialog box, as explained earlier. Next, choose the **OK** button; the new drawing will be created. Also, this drawing will automatically be added to the active project and will appear in bold text at the end of the Project Drawing list. Now, to add this drawing to an inactive project, right-click on the inactive project name and choose the **Add Active Drawing** option from the shortcut menu; the **Apply Project Defaults to Drawing Settings** message box will be displayed, as shown in Figure 2-9.

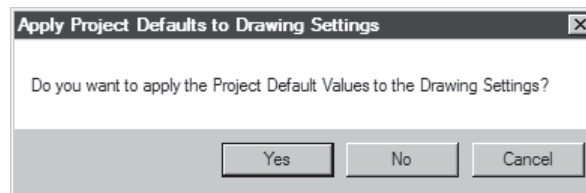


Figure 2-9 The *Apply Project Defaults to Drawing Settings* message box

Choose the **Yes** button from the **Apply Project Defaults to Drawing Settings** message box; the default values of the project will be added to the WD_M block definition of the newly added drawing. If you choose the **No** button, the new drawing will retain its existing settings. Choose the **Cancel** button to exit the command.



Note

You can have a single drawing in multiple projects.

Adding Existing Drawings to the Current Project

You can also add existing drawings to current projects. To do so, right-click on the project name in the **Projects** rollout of the **Project Manager**; a shortcut menu will be displayed, as shown in Figure 2-10. Choose the **Add Drawings** option from the shortcut menu; the **Select Files to Add** dialog box will be displayed, as shown in Figure 2-11. Select the drawings to be added to the project from this dialog box. Choose the **Add** button; the **Apply Project Defaults to Drawing Settings** message box will be displayed, refer to Figure 2-9.

If you choose the **Yes** button, the default values of the project will be added to the WD_M block definition of the newly added drawing. But, if you choose the **No** button, the new drawing will retain its existing settings. Also, the selected drawings will be added to your project and will appear at the end of the Project Drawing list.

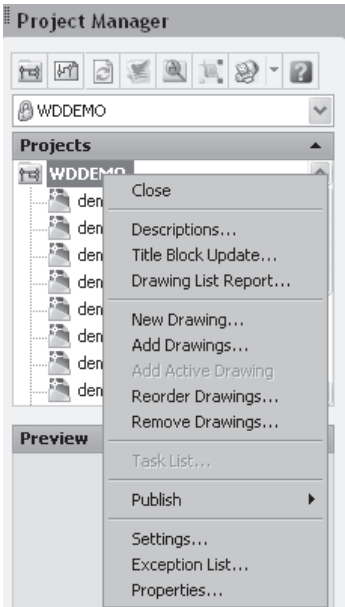


Figure 2-10 The shortcut menu displayed on right-clicking on the active project name in the **Project Manager**



Note
You can select multiple drawing files at a time from the **Select Files to Add** dialog box by pressing the **SHIFT** or **CTRL** key.

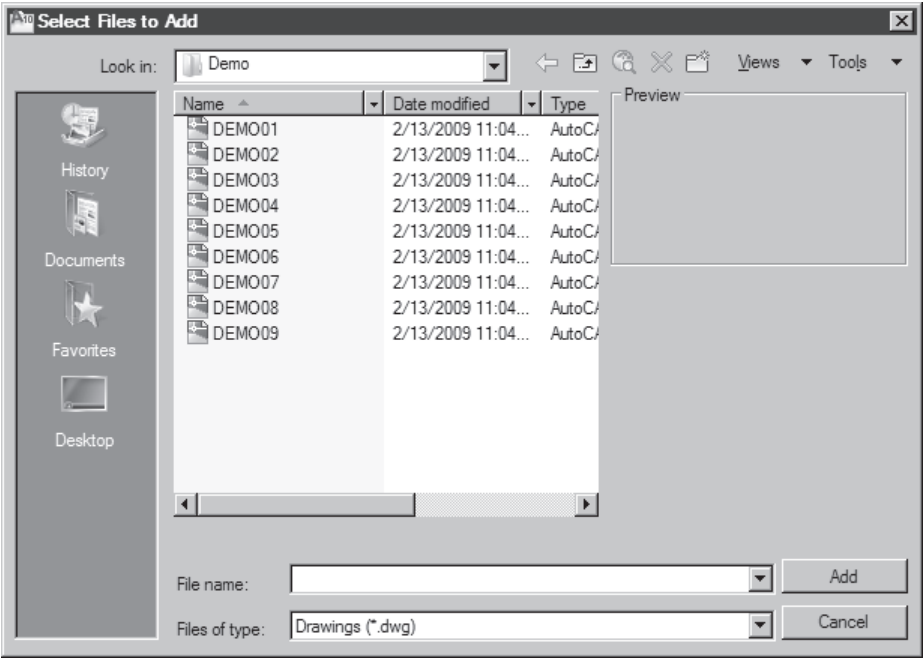


Figure 2-11 The **Select Files to Add** dialog box

WORKING WITH PROJECT DRAWINGS

You can group drawings, reorder drawings, remove drawings, assign description to drawings, preview drawings, configure the drawing list display, and so on using the **Project Manager**. Also, you can access the existing project and modify its related information using the **Project Manager**.

Grouping Drawings within a Project

You can create a group of drawings within a project list by assigning the section and sub-section codes to each drawing. To do so, expand the project by double-clicking on its name, if it is not already expanded; the drawings in that project will be displayed. Next, right-click on the drawing file; a shortcut menu will be displayed. Choose **Properties > Drawing Properties** from the shortcut menu; the **Drawing Properties** dialog box will be displayed, refer to Figure 2-8. In this dialog box, the **Drawing Settings** tab is chosen by default. Enter the required section and sub-section codes for the drawing in the **Sheet Values** area and choose the **OK** button; the section and sub-section codes will get assigned to the drawing file. Similarly, you can repeat the same procedure for each drawing that you want to group together, but ensure that the same section and sub-section codes are assigned to all of them.

After creating a group of drawings, the project-wide tagging, cross-referencing, and reporting functions can operate on whole project or a part of the drawing set, using the section and sub-section coding.

Changing the Order of Drawings in a Project

In the Project Drawing list, the drawings created are arranged in the same sequence as they are processed by AutoCAD Electrical during the project-wide tagging and cross-referencing operations. However, you can change the order of drawings present in a project as per your requirement. To do so, right-click on a project name and choose the **Reorder Drawings** option from the shortcut menu; the **Reorder Drawings** dialog box will be displayed, as shown in Figure 2-12. Select a drawing or drawings from the list displayed in this dialog box to reorder. You can press the CTRL or SHIFT key for selecting multiple drawings.

The options in the **Reorder Drawings** dialog box are discussed next.

Move Up

Choose the **Move Up** button to move the selected drawing one step up.

Move Down

Choose the **Move Down** button to move the selected drawing one step down.

Lower

Choose the **Lower** button to flip the name and path of the drawing files to lower case.

Upper

Choose the **Upper** button to flip the name and path of the drawing files to upper case.

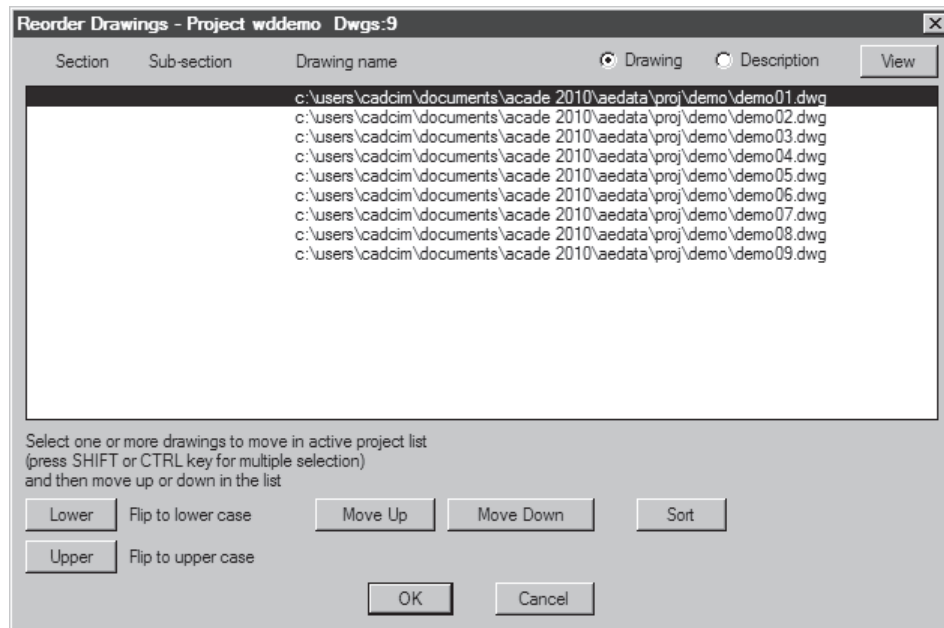


Figure 2-12 The Reorder Drawings dialog box

Drawing

The **Drawing** radio button is used to display the path and names of all drawings in a project. By default, this radio button is selected.

Description

Select the **Description** radio button to display the description of drawings. Note that the description will be displayed only if you have entered the description in the **Description 1/2/3** edit boxes in the **Create New Drawing** dialog box while creating a new drawing or in the **Drawing Settings** tab > **Description 1/2/3** edit boxes of the **Drawing Properties** dialog box.

View

Choose the **View** button to display the preview of the selected drawing in the **Drawing Preview** dialog box.

Sort

The **Sort** button is used to arrange drawings on the basis of their display properties. To do so, choose the **Sort** button; the **Sort Fields** dialog box will be displayed, as shown in Figure 2-13. You can sort out the drawings in different ways depending upon the options selected from the dialog box. You can select the required option from the **Primary sort**, **Secondary sort**, **Third sort**, and **Fourth sort** drop-down lists. These drop-down lists include reference status (REF), section code (SEC), sub-section (SUBSEC), and file name (FILENAME) options, respectively.

After setting the required parameters, choose the **OK** button from the **Sort Fields** dialog box; the drawing displayed in the list will be arranged according to the options selected from

the drop-down lists. Next, choose the **OK** button in the **Reorder Drawings** dialog box to save the changes and exit the dialog box.

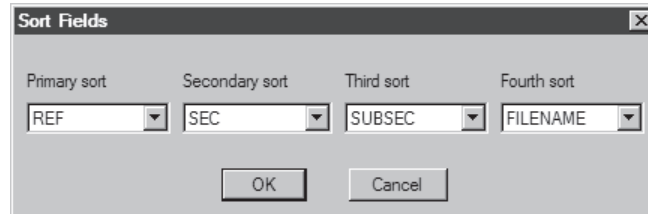


Figure 2-13 The Sort Fields dialog box

Removing a Drawing from a Project

You can remove a drawing from a project using the following two methods:

First Method

Right-click on the drawing name in the **Project Manager**; a shortcut menu will be displayed. Choose the **Remove** option from the shortcut menu; the drawing will be removed from the project instantly, but it will not be deleted from the folder where it is stored.

Second Method

Right-click on a project name and choose the **Remove Drawings** option from the shortcut menu displayed; the **Select Drawings to Process** dialog box will be displayed, as shown in Figure 2-14. The options in this dialog box are discussed next.

Drawing

The **Drawing** radio button is used to display the path and the name of all drawings in a project. This radio button is selected by default.

Description

Select the **Description** radio button; the description of all drawings will be displayed in the top list of the **Select Drawings to Process** dialog box. Remember that the description will be displayed only if you have entered the description in the **Description 1/2/3** edit boxes in the **Create New Drawing** dialog box or in the **Drawing Settings** tab > **Description 1/2/3** edit boxes of the **Drawing Properties** dialog box.

Do All

Choose the **Do All** button to transfer all drawings from the top list to the bottom list of the **Select Drawings to Process** dialog box.

Process v

The **Process v** button will be available only if you select a drawing(s) from the top list. This button is used to transfer the selected drawing from the top list to the bottom list. To do so, select a drawing (s) and then choose the **Process v** button; the selected drawing(s) will be transferred from the top list to the bottom list of the **Select Drawings to Process** dialog box. You can use the SHIFT or CTRL key to select more than one drawing at a time.

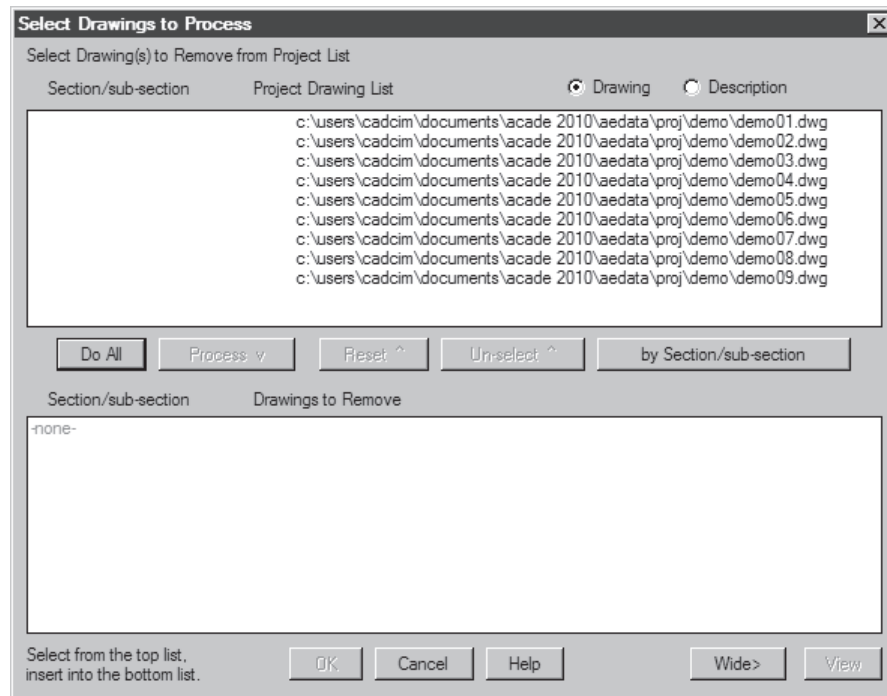


Figure 2-14 The *Select Drawings to Process* dialog box

Reset ^

The **Reset ^** button will be available only if you have transferred drawing(s) from the top list to the bottom list. Choose the **Reset ^** button to reset the drawings; it will revert back the drawings from the bottom list to the top list.

Un-select ^

The **Un-select ^** button will be available only if you select drawing(s) from the bottom list. The **Un-select ^** button is used to transfer drawing from the bottom list to the top list. To do so, select a drawing(s) from the bottom list and then choose the **Un-select ^** button; the drawings will be moved from the bottom list to the top list. You can unselect multiple drawings at a time by using the SHIFT or CTRL key.

by Section/sub-section

The **by Section/sub-section** button is used to select the drawings that have been grouped by specifying their sections and sub-sections. To do so, choose the **Section/Sub-section** button from the **Select Drawings to Process** dialog box; the **Select Drawings by Section/sub-section** dialog box will be displayed. Specify the section and sub-section codes in the **Section** and **Sub-section** edit boxes, respectively. Alternatively, select the section and sub-section codes from the **Section** and **Sub-section** drop-down lists, respectively. Next, choose the **OK** button from the **Select Drawings by Section/sub-section** dialog box; the corresponding drawing(s) will be transferred from the top list to the bottom list. Note that the **Section** and **Sub-section** drop-down lists display the

section and sub-section codes only if you have entered the section and sub-section values in the **Sheet Values** area of the **Create New Drawing** dialog box or in the **Drawing Settings** tab of the **Drawing Properties** dialog box.

After selecting drawings from the **Select Drawings to Process** dialog box, choose the **OK** button; the **Remove Drawing(s) from Project List** message box will be displayed. In this message box, choose the **OK** button; the selected drawings will be removed from the project list. Note that the drawings will instantly be removed from the project list, but they will not be deleted permanently from the folder where they are stored.

Assigning a Description to a Drawing

You can assign a three-line description to each drawing listed in your project. To do so, right-click on the name of a drawing in the project; a shortcut menu will be displayed. Next, choose **Properties > Drawing Properties** from the shortcut menu; the **Drawing Properties** dialog box will be displayed.

By default, the **Drawing Settings** tab is chosen in the **Drawing Properties** dialog box. Enter the description for the drawing in the **Description 1/2/3** edit boxes. You can also select the predefined description for your drawing from the **Description** drop-down list. Note that the predefined description will be available only if you have entered the description for any of the drawings of a project, as shown in Figure 2-15. This figure shows the predefined descriptions listed in the **Description 1** drop-down list of the **Drawing Properties** dialog box. Next, choose the **OK** button; the drawing file will be updated and saves the changes that you made.

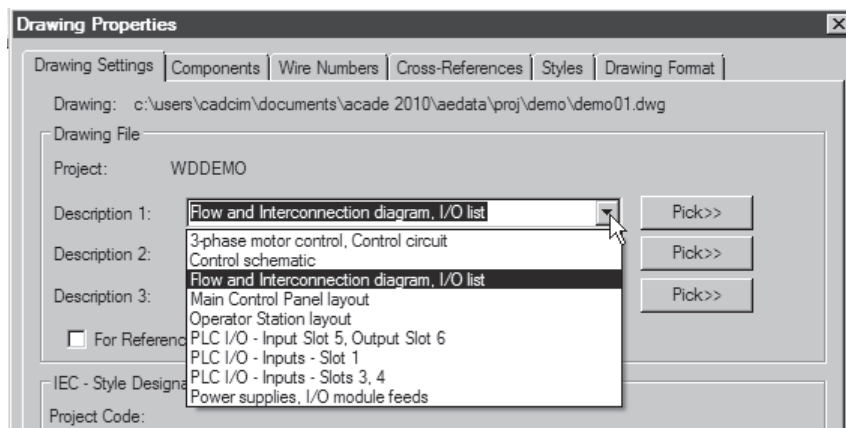


Figure 2-15 Partial view of the **Drawing Properties** dialog box displaying predefined description

**Note**

The description specified in the **Description 1**, **Description 2**, and **Description 3** edit boxes of the **Create New Drawing** or **Drawing Properties** dialog box can be linked to the attribute in the title block for automatic update and are discussed in the later chapters.

After adding description to a drawing, you can preview the description in the **Details** rollout of the **Project Manager**. These drawing details give a unique identity to the drawings based on users requirement and helps the users to search a particular drawing among multiple drawings in a project file.

Opening other Project Drawings When a Drawing is Already Open

Ribbon:	Project > Other Tools > Previous DWG Project > Other Tools > Next DWG
Toolbar:	ACE:Main Electrical 2 > Previous Project Drawing ACE:Main Electrical 2 > Next Project Drawing ACE:Quick Pick > Previous Project Drawing ACE:Quick Pick > Next Project Drawing
Command:	AEPREV and AENEXT



The **Previous DWG** and **Next DWG** buttons are used to open the previous and next drawings, respectively, of an active project. Using these buttons, you can view and switch among various drawings of a project. To do so, open any drawing of the active project and then choose the **Previous DWG** or **Next DWG** button from the **Other Tools** panel of the **Project** tab. Alternatively, you can choose the **Previous Project Drawing** or **Next Project Drawing** button from the **ACE:Main Electrical 2** or **ACE:Quick Pick** toolbar; the currently opened drawing will be closed and all changes made to it will be saved. Also, the requested drawing will open. The currently opened drawing will appear in bold text in the project list.



Tip: To open all drawings of an active project in a new window without closing the original drawing window, hold the **SHIFT** key while choosing the **Previous Project Drawing** or **Next Project Drawing** button.

**Note**

You cannot view and switch among the drawings that are not associated with the active project.

You can use the **Project Manager** to preview the drawings easily. If you move among various drawings using the up and down arrow keys, the selected drawing will not open.

Configuring the Drawing List Display



The **Drawing List Display Configuration** button is used to configure the information related to various drawings in the **Projects** rollout of the **Project Manager**.

This button allows you to display the information based on your requirement. By default, only the name of the drawing is displayed in the **Projects** rollout of the **Project Manager**, as shown in Figure 2-16. Choose the **Drawing List Display Configuration** button

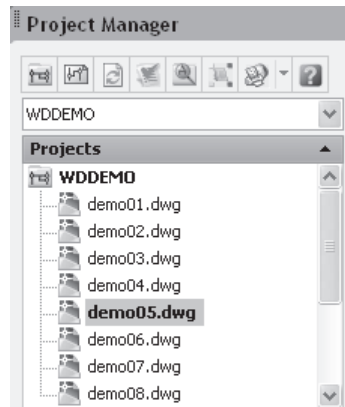


Figure 2-16 The Project Manager displaying the drawing files of the project

from the **Project Manager**; the **Drawing List Display Configuration** dialog box will be displayed, as shown in Figure 2-17. The options in this dialog box are discussed next.

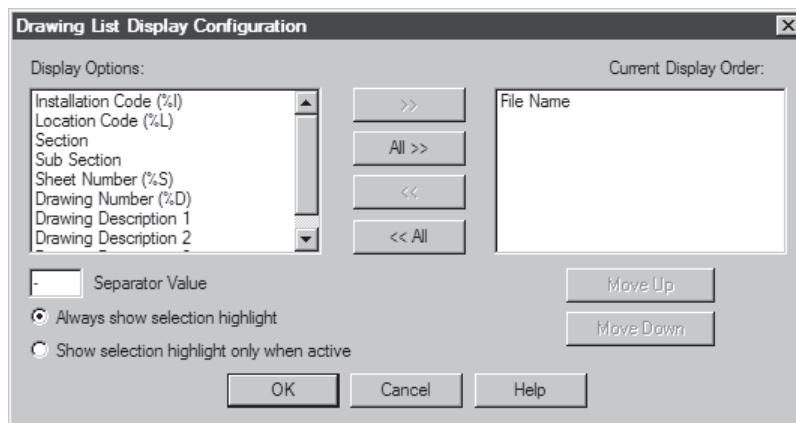


Figure 2-17 The Drawing List Display Configuration dialog box

Display Options Area

The **Display Options** area displays the predefined values that can be associated to a drawing. This area has 10 values that you can associate to a listed drawing.

Current Display Order

The **Current Display Order** area lists the display options that will be displayed in the **Projects** rollout in the **Project Manager**. The **File Name** option is displayed by default in this area.

>>/All >>

The >> button is used to move only the selected display option from the **Display Options** area to the **Current Display Order** area.

The **All>>** button is used to move all display options of the **Display Option** area to the **Current Display Order** area.

<</<<All

The << button is used to move only the selected display option from the **Current Display Order** area to the **Display Options** area.

The <<All button is used to move all display options from the **Current Display Order** area to the **Display Options** area.

Separator Value

The **Separator Value** edit box is used to specify the character to be used as a separator between the values in the listing. You can enter a character in the **Separator Value** edit box or use the default character (-) in this edit box.

Move Up

Choose the **Move Up** button to move the selected display option one step up in the **Current Display Order** area.

Move Down

Choose the **Move Down** button to move the selected display option one step down in the **Current Display Order** area.

Choose the **OK** button in the **Drawing List Display Configuration** dialog box; entire information related to drawings will be displayed in the **Projects** rollout, as shown in Figure 2-18.

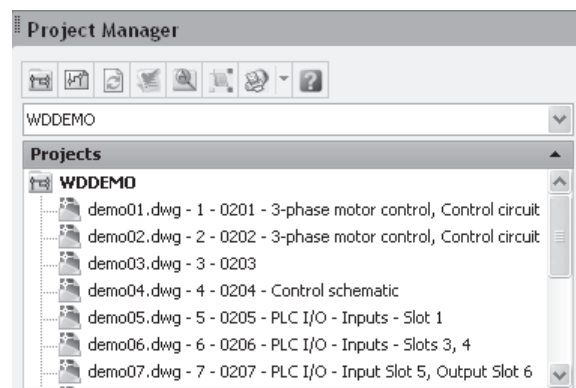


Figure 2-18 Partial preview of the **Project Manager** displaying the drawing information



Note

The sequence in which the drawing options are displayed in the **Current Display Order** area, the same sequence is followed for their display in the **Projects** rollout of the **Project Manager**. If you want to change the sequence, choose the **Move Up** or **Move Down** button.

COPYING A PROJECT

Ribbon:	Project > Project Tools > Copy
Toolbar:	ACE:Main Electrical 2 > Project Manager > Copy Project or ACE:Project > Copy Project
Menu:	Projects > Project > Copy Project
Command:	AECOPYPROJECT



The **Copy** tool is used to copy the entire project as well as the drawings present within that project. To do so, choose the **Copy** button from the **Project Tools** panel of the **Project** tab or choose the **Copy Project** button from the **Project Manager** flyout of the **ACE:Main Electrical 2** toolbar; the **Copy Project: Step 1 - Select Existing Project to Copy** wizard will be displayed, as shown in Figure 2-19.

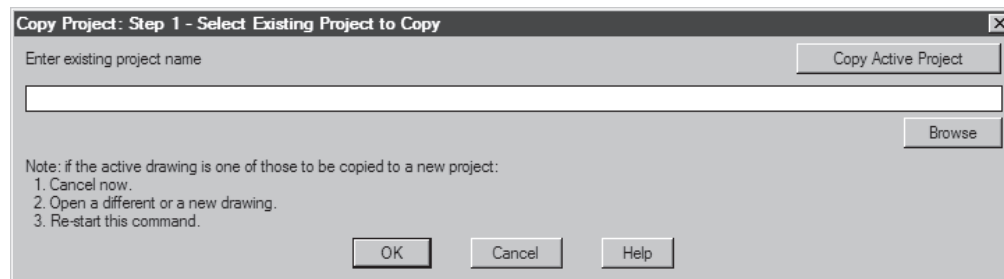


Figure 2-19 The **Copy Project: Step 1-Select Existing Project to Copy** wizard



Note

Before copying drawings to a new project, you need to close all drawings of that project.

Next, enter the name and path of the existing project in the **Enter existing project name** edit box. Alternatively, choose the **Browse** button from this dialog box to select the existing project; the **Select existing project to copy** dialog box will be displayed. Next, double-click on the project folder that you want to copy. Select the project's .wdp file and choose the **Open** button; the name and path of the existing project will be displayed in the **Enter existing project name** edit box. You can also choose the **Copy Active Project** button available in this dialog box to copy the currently active project.

Choose the **OK** button; the **Copy Project: Step 2 - Select path and name for new project** wizard will be displayed, as shown in Figure 2-20. Enter a name for the new project in the **File name** edit box and select the path for the new project from the **Save in** drop-down list. By default, the .wdp extension will be displayed in the **Save as type** edit box. Next, choose the **Save** button; the **Select Drawings to Process** wizard will be displayed, as shown in Figure 2-21.

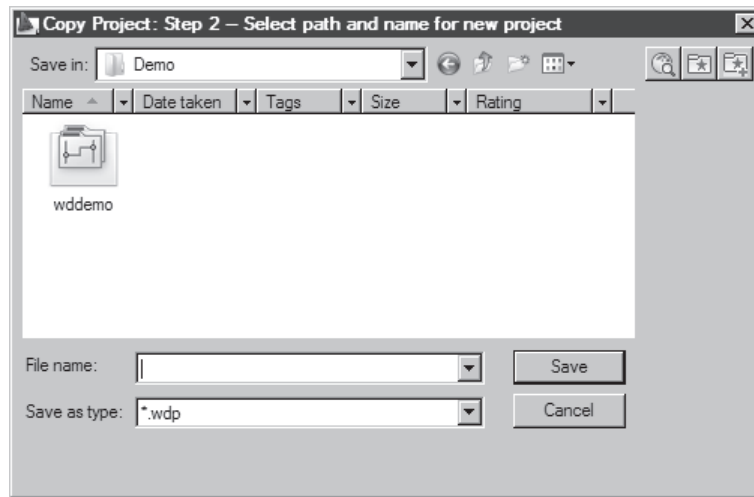


Figure 2-20 The *Copy Project: Step 2 - Select path and name for new project* wizard

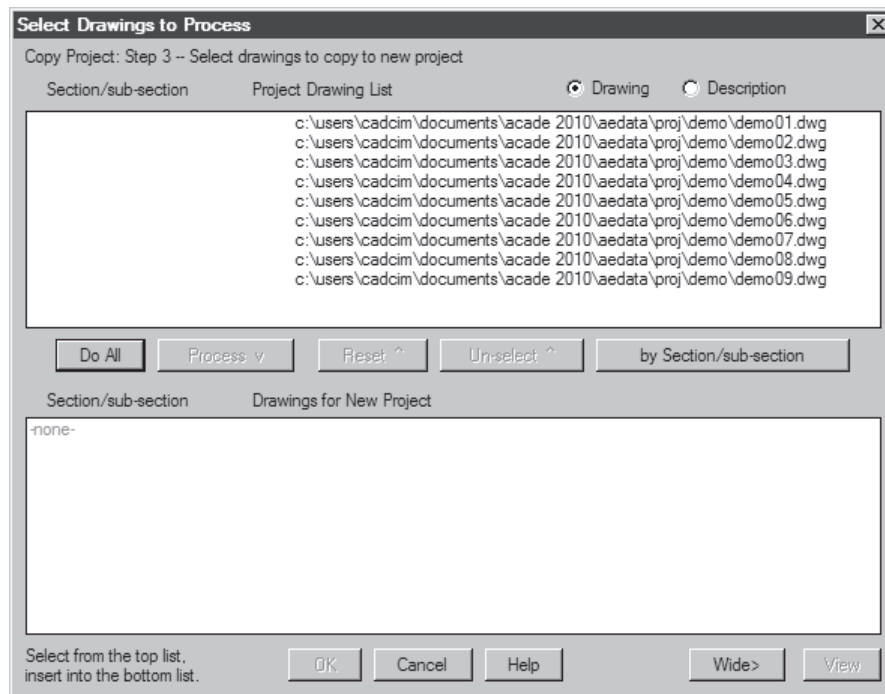


Figure 2-21 The *Select Drawings to Process* wizard

Select the drawing files that you want to copy in the project from the top list of this dialog box. Next, choose the **Process v** button; the selected drawings will be transferred from the top list of the **Select Drawings to Process** wizard to the bottom list. The other options in the **Select Drawings to Process** wizard have already been discussed. Choose the **OK** button from the **Select Drawings to Process** wizard; the **Copy Project: Step 4 - Enter Base Path for Project Drawings** wizard will be displayed, as shown in Figure 2-22.

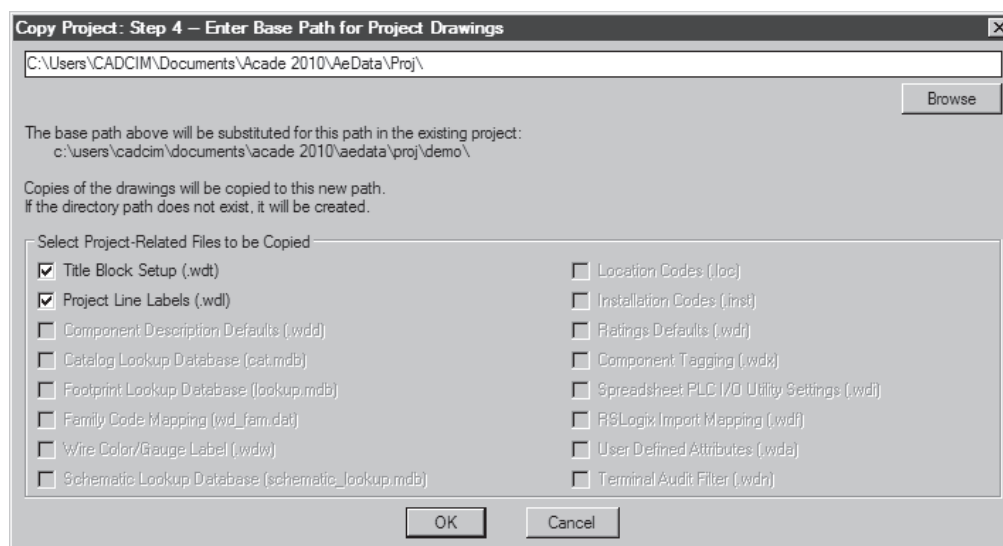


Figure 2-22 The Copy Project: Step 4 -- Enter Base Path for Project Drawings wizard



Note

In case, there is no drawing file in the project to be copied, then the **Select Drawings to Process** wizard will not be displayed and the **AutoCAD Message** message box will be displayed. Choose the **OK** button in this message box; the **Copy Project: Step 4 - Enter Base Path for Project Drawings** wizard will be displayed.

In this dialog box, enter the directory path where the new project will be saved. The directory path will be created, if it does not exist. In the **Select Project-Related Files to be Copied** area, you can specify the project related files that need to be copied to the project that you want to create. Note that the project related files to the project to be copied will be activated in the **Select Project-Related Files to be Copied** area. To copy these files, select the check boxes on the left of the respective files. Choose the **OK** button; the **Copy Project: Step 5 - Adjust new drawing file names** wizard will be displayed, as shown in Figure 2-23.

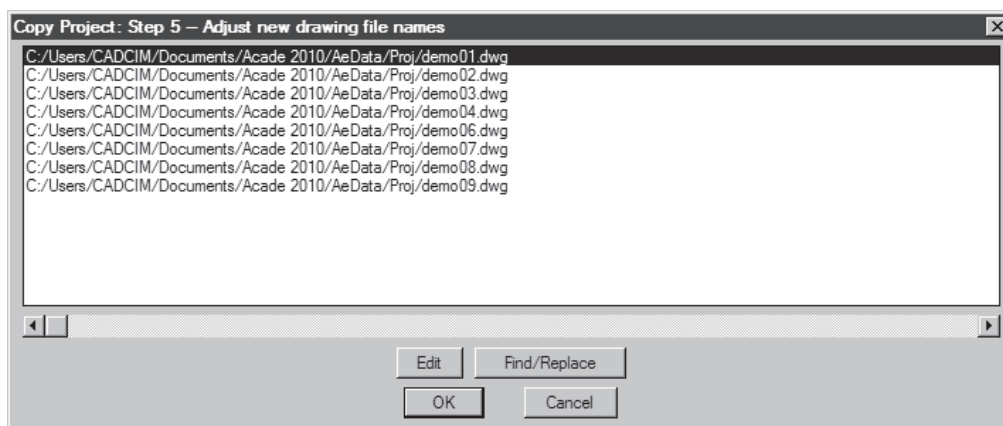


Figure 2-23 The Copy Project: Step 5 - Adjust new drawing file names wizard

Choose the **Edit** button in this wizard to edit the file name and path of the selected drawing, if needed. Similarly, choose the **Find/Replace** button to find or replace a drawing file name and its path. Next, choose the **OK** button; the name of the new project will be displayed at the top in the **Projects** rollout in bold text and will become the active project.

DELETING A PROJECT

Ribbon: Project > Project Tools > Delete
Menu: Projects > Project > Delete Project
Command: AEDELETEPROJECT

The **Delete** button or the **AEDELETEPROJECT** command is used to delete an existing project and its drawings permanently. To do so, choose the **Delete** button from the **Project Tools** panel of the **Project** tab; the **Select Existing Project to Delete** dialog box will be displayed, as shown in Figure 2-24.

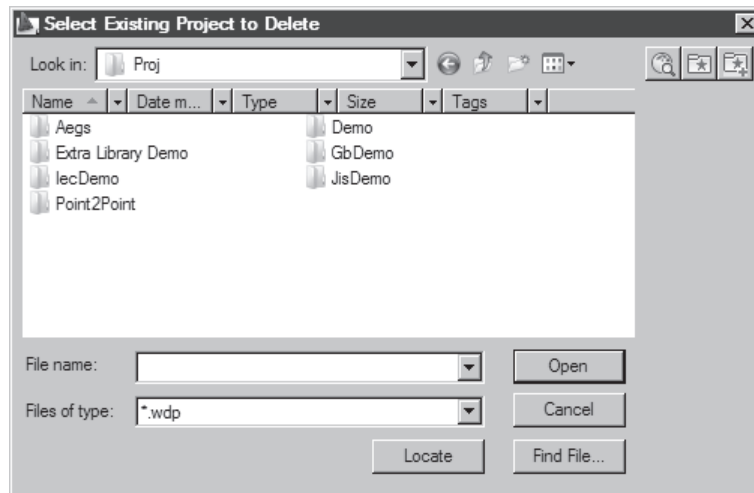


Figure 2-24 The *Select Existing Project to Delete* dialog box

Enter the name of the project file to be deleted in the **File name** edit box. Alternatively, select a project name from the list displayed in the **Select Existing Project to Delete** dialog box. Next, double-click on the name of the project folder, if it exists. Select the project definition file(.wdp) and choose the **Open** button; the **Project File Delete Utility** dialog box will be displayed, as shown in Figure 2-25. The options in this dialog box are discussed next.

Delete “.wdp” project list file

The **Delete “.wdp” project list file** check box is used to permanently delete the selected project file with .wdp extension.

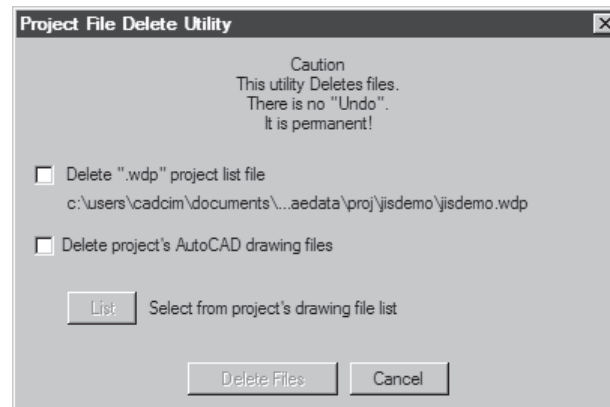


Figure 2-25 The **Project File Delete Utility** dialog box

Delete project's AutoCAD drawing files

The **Delete project's AutoCAD drawing files** check box is used to delete only the drawing files of a project. Note that this check box will be available only if the related project consists of drawing files.

List

The **List** button will be available only if you select the **Delete project's AutoCAD drawing files** check box. Choose the **List** button; the **Select Drawings to Process** dialog box will be displayed, refer to Figure 2-23. Select the drawings to be deleted from the drawing file list of the project. Next, choose the **OK** button from the **Select Drawings to Process** dialog box; the **Project File Delete Utility** dialog box will be displayed again. Choose the **Delete Files** button from the **Project File Delete Utility** dialog box; the selected files will be deleted permanently, and you cannot retrieve them.

OTHER OPTIONS IN PROJECT MANAGER

As discussed earlier, the **Project Manager** lists the drawing files associated with each project. You can change the settings of a project by using the **Project Manager**, refer to Figure 2-26. The major tools and rollouts in the **Project Manager** have already been discussed. Some of the remaining ones are discussed next.

1. Buttons
2. Project selection drop-down list
3. Projects rollout
4. Project Drawing list
5. Detail/Preview rollout

Buttons

There are several buttons available in the **Project Manager** such as **Refresh**, **Publish/Plot**, and so on, see Figure 2-27. These buttons are discussed next.

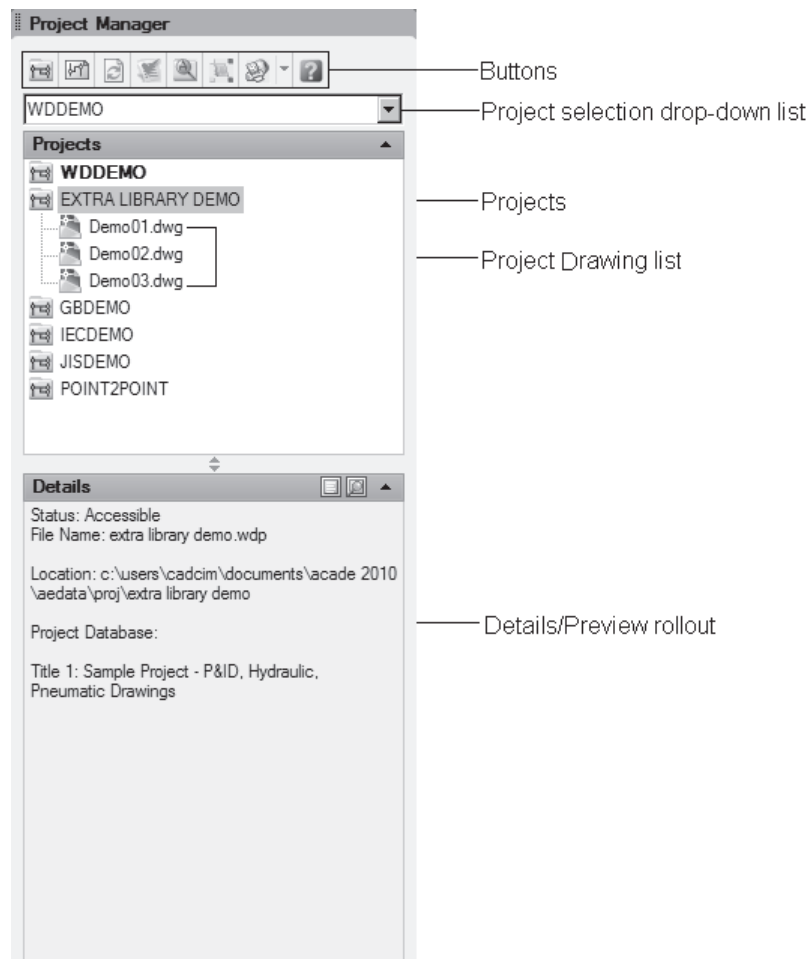


Figure 2-26 Various components of the **Project Manager**

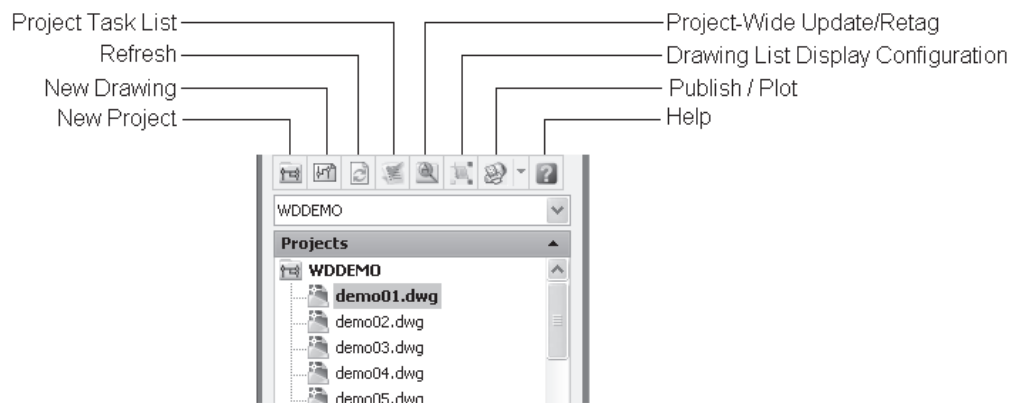


Figure 2-27 Various buttons in the **Project Manager**

Refresh



The **Refresh** button is used to refresh the drawing list present in the **Project Manager**.

Project Task List

Command: (C:WD_UPD_PENDING NIL)



The **Project Task List** button will be available only if there are pending updates for drawing file. The **Project Task List** button is used to execute pending updates on any drawing files in the active project that have been modified. To invoke this tool, choose the **Project Task List** button from the **Project Manager** or right-click on the active project; a shortcut menu will be displayed. Next, choose the **Task List** option from the shortcut menu; the **Task List** dialog box will be displayed. Select the drawing files that you want to update and choose the **OK** button; the **QSAVE** dialog box will be displayed. Choose the **OK** button from the **QSave** dialog box; the drawing(s) will be updated. The options in the **Task List** dialog box are discussed in detail in the later chapters.

Project-Wide Update/Retag

Command: (C:WD_BUMP)



The **Project-Wide Update Retag** button is used to update the related line reference numbers, device tagging, cross-reference text, and signal reference updates on the selected drawing files in an active project. To invoke this tool, choose the **Project-Wide Update/Retag** button from the **Project Manager**; the **Project-Wide Update or Retag** dialog box will be displayed. Specify the required options in this dialog box and choose the **OK** button; the **Select Drawings to Process** dialog box will be displayed. Now, select the drawings that you want to process and choose the **Process** button. Next, choose the **OK** button; the selected drawings will be updated. The options in the **Project-Wide Update or Retag** dialog box will be discussed in detail in the later chapters. You can also use the (C:WD_BUMP) command to invoke the **Project-Wide Update or Retag** dialog box.

Publish / Plot



Choose the **Publish / Plot** button from the **Project Manager**; a flyout will be displayed, as shown in Figure 2-28. The options in the flyout of the **Publish / Plot** button are used to plot active drawings, publish the drawings of the active project to web and dwf, and zip the active project. Choose the **Plot Project** option from the flyout to batch plot one or more drawings in the active project. Plotting of drawings will be discussed in detail in the later chapters.

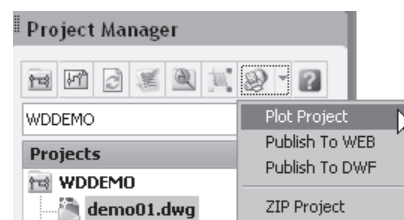


Figure 2-28 The options displayed on choosing the **Publish/Plot** button

Help



When you choose the **Help** button from the **Project Manager**, the **AutoCAD Electrical Help** window will be displayed. Alternatively, choose **Help > Electrical Help Topics** from the menu bar to display the **AutoCAD Electrical Help** window.

This window helps you in understanding different options, commands, and tools of AutoCAD Electrical.



Note

If you press **F1** or use the **HELP** command, it will display the **AutoCAD 2010** help window, but not the **AutoCAD Electrical Help** window.

Project Selection Drop-down List

The Project selection drop-down list is available at the top of the **Project Manager**, as shown in Figure 2-29, and it consists of the following options:

1. Names of all open projects
2. Recent
3. New Project
4. Open Project

The active project is indicated by a check mark in the Project selection drop-down list, refer to Figure 2-29. You cannot close any open project using the **Project selection** drop-down list. The other options in this drop-down list are discussed next.

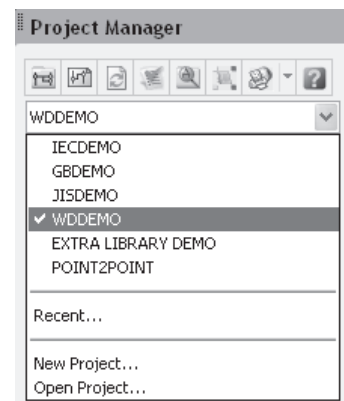


Figure 2-29 The **Project Manager** displaying the **Project selection** drop-down list

Recent

When you select the **Recent** option from the **Project selection** drop-down list, the **Recent Projects** dialog box will be displayed. In this dialog box, you can view the recently opened projects, view the drawings of the selected project, remove the selected project, and find the drawings from the recent projects list displayed in the **Recent Projects** dialog box.

New Project

Command: ACNEWPROJECT

The **New Project** option is used to create a new project. To do so, select the **New Project** option from the **Project selection** drop-down list; the **Create New Project** dialog box will be displayed. The options in this dialog box have already been discussed. Specify the required options and choose the **OK** button; the new project will be created and will appear in bold text on the top of the list in the **Projects** rollout. Also, the newly created project will automatically become the active project.

Open Project

The **Open Project** option is used to open an existing project. To do so, select the **Open Project** option from the **Project selection** drop-down list; the **Select Project File** dialog box will be displayed. Next, select the project from this dialog box and choose the **Open** button; the selected project's name will automatically be displayed in the **Projects** rollout in bold text and it will become the active project.

Projects Rollout

The **Projects** rollout displays a list of all opened projects. You can open as many projects as you want, but only one project can be active at a time. The active project appears in bold text and is always displayed at the top of the list in the **Projects** rollout. When you right-click on the name of the active project or on the project that is in bold text, a shortcut menu will be displayed, as shown in Figure 2-30. The options in the shortcut menu are discussed next.

Close

The **Close** option is used to close the opened projects, which are displayed in the **Projects** rollout. To do so, choose the **Close** option from the shortcut menu; the project will be removed from the current projects list.

Descriptions

The **Descriptions** option is used to edit the description of an existing project. It is also used to add description to a new project. To do so, choose the **Descriptions** option from the shortcut menu; the **Project Description** dialog box will be displayed, refer to Figure 2-6.

As the **Project Description** dialog box displays unlimited lines, you can enter the description as per your requirement. The information that you enter in these lines can be re-used in the Component, Bill of Material, and Wire reports that are generated for the project or mapped to title block of the drawing. Select the **in reports** check box from the **Project Description** dialog box to include the project description line information in report headers and title blocks, which will be discussed in detail in the later chapters.

Title Block Update

Command: WD_TB

The **Title Block Update** option is used to update the information of the title block for the entire project drawing set or for the active drawing. To update the title block information, choose the **Title Block Update** option from the shortcut menu; the **Update Title Block** dialog box will be displayed, as shown in Figure 2-31. The options in this dialog box will be discussed in detail in the later chapters. You can also update a title block by using the **WD_TB** command.

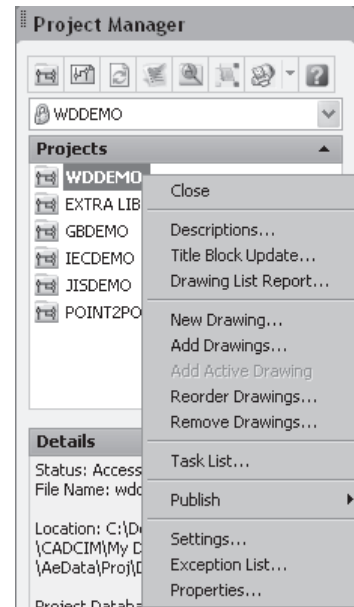


Figure 2-30 The shortcut menu displayed by right-clicking on the active project in the Project Manager

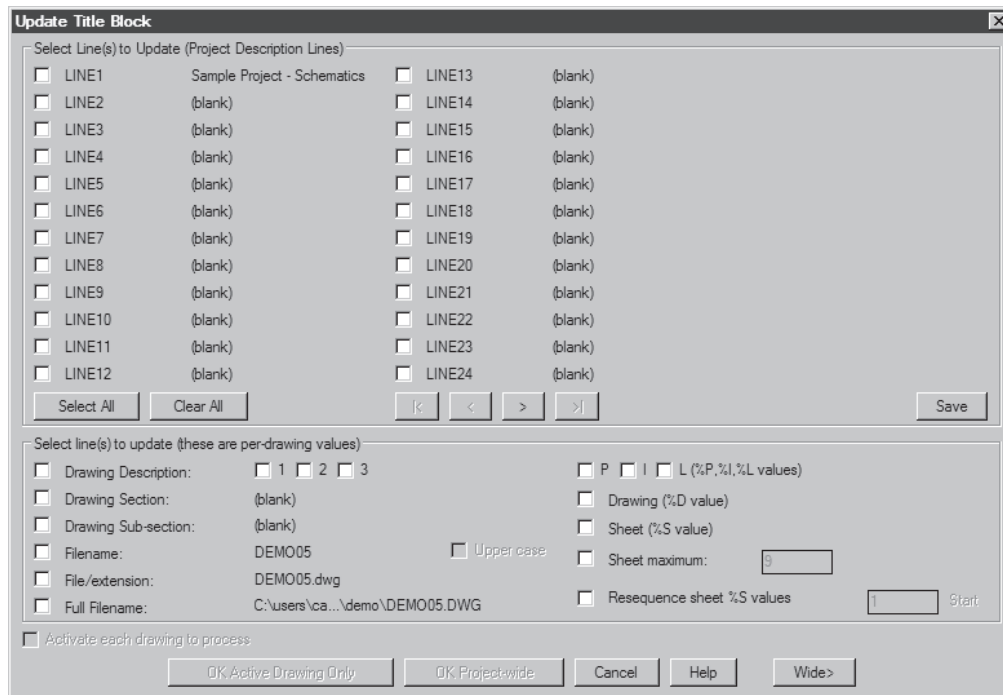


Figure 2-31 The Update Title Block dialog box

Drawing List Report

Command: WD_DWGLST_PROJ

The **Drawing List Report** option is used to generate a report, which lists the project drawing information of title block such as file names, file date, time, sheet number, drawing descriptions, sections, and so on. To generate a report, choose the **Drawing List Report** option from the shortcut menu or use the **WD_DWGLST_PROJ** command; the **Drawing List Report** dialog box will be displayed. The options in this dialog box are used to extract the new drawing list report, display previous drawing list report, and select format file for report. You will learn more about the generation of reports in the later chapters.

Task List

The **Task List** option will be available only if an active project has pending updates on any drawing file, which is present within the active project and has been modified. Choose the **Task List** option from the shortcut menu; the **Task List** dialog box will be displayed. The options in the **Task List** dialog box will be discussed in the later chapters.

Publish / Plot

When you move the cursor to the **Publish** option of the shortcut menu, a flyout will be displayed, as shown in Figure 2-32. This flyout consists of **Plot Project**, **Publish To WEB**, **Publish To DWF**, and **Zip Project**. Choose the **Plot Project** option to batch plot one or more drawings in the active project. The **Publish To WEB**, **Publish To DWF**, or **Zip Project** options are used to publish the project to web, dwf, creating the zipped file of a project, respectively.

Settings

When you choose the **Settings** option from the shortcut menu, the **Current Settings** dialog box will be displayed. This dialog box displays settings of a project and information about AutoCAD Electrical environment.

Exception List

When you choose the **Exception List** option from the shortcut menu, the **Properties**

Exception List dialog box will be displayed, as shown in Figure 2-33. This dialog box displays the list of drawing files that possess properties that are different from the project definition file (*.WDP). Figure 2-34 shows the **Properties Exception List** dialog box that will be displayed if the settings of all drawing files of a project match with the settings of the project definition file. Also, this dialog box displays that there are no exceptions.

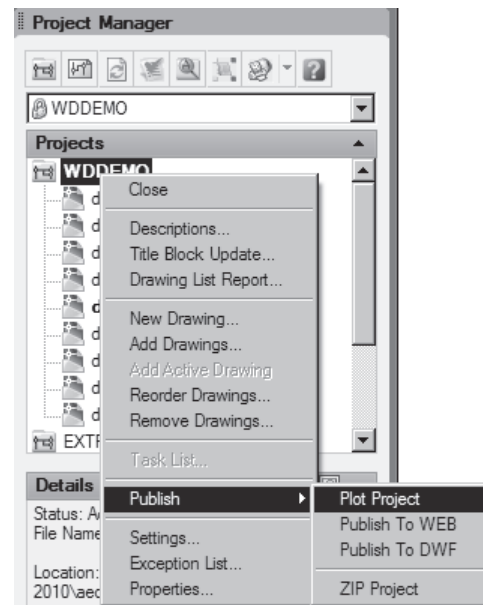


Figure 2-32 Various **Publish** options displayed in the shortcut menu

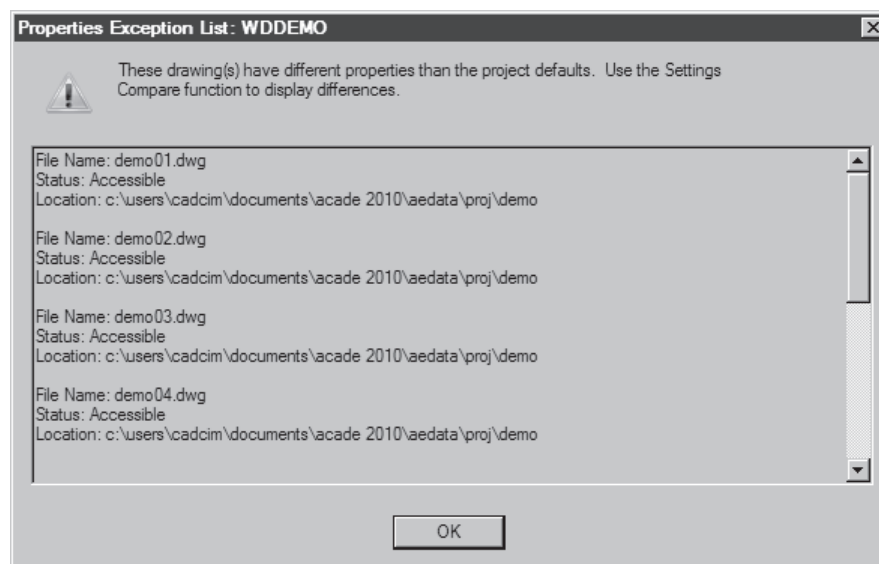


Figure 2-33 The **Properties Exception List** dialog box

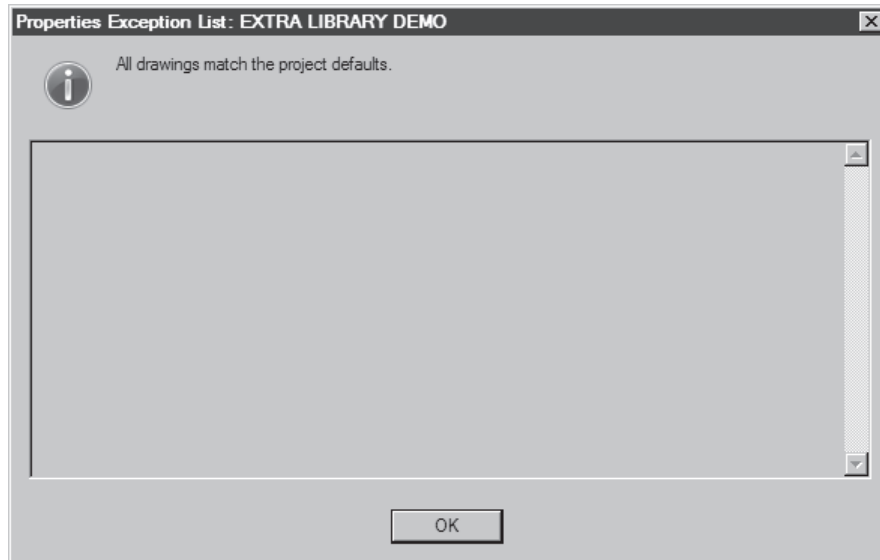


Figure 2-34 The *Properties Exception List* dialog box



Note

You can view the difference between drawing properties and project defaults. To do so, choose the **Projects > Settings Compare** from the menu bar or choose the **Settings Compare** button from the **Drawing Properties** flyout of the **ACE:Main Electrical 2** toolbar; the **Compare Drawing and Project Settings** dialog box will be displayed. This dialog box can be used to compare the drawing and project default settings.

Properties

On choosing the **Properties** option from the shortcut menu, the **Project Properties** dialog box will be displayed, as shown in Figure 2-35. Using this dialog box, you can edit and modify properties for project settings, components, wire numbers, cross-references, styles, and drawing format. The editing of project properties will be discussed in detail in the later chapters.



Note

The options discussed above will be displayed if you right-click on an active project in the **Projects** rollout. But if you right-click on an inactive project, a shortcut menu will be displayed with the **Activate** option, as shown in Figure 2-36. If you choose this option from the shortcut menu, the selected project will become active and will be displayed at the top of the projects list in bold text. The active project is indicated by a tick mark in the **Project selection** drop-down list in the **Project Manager**.

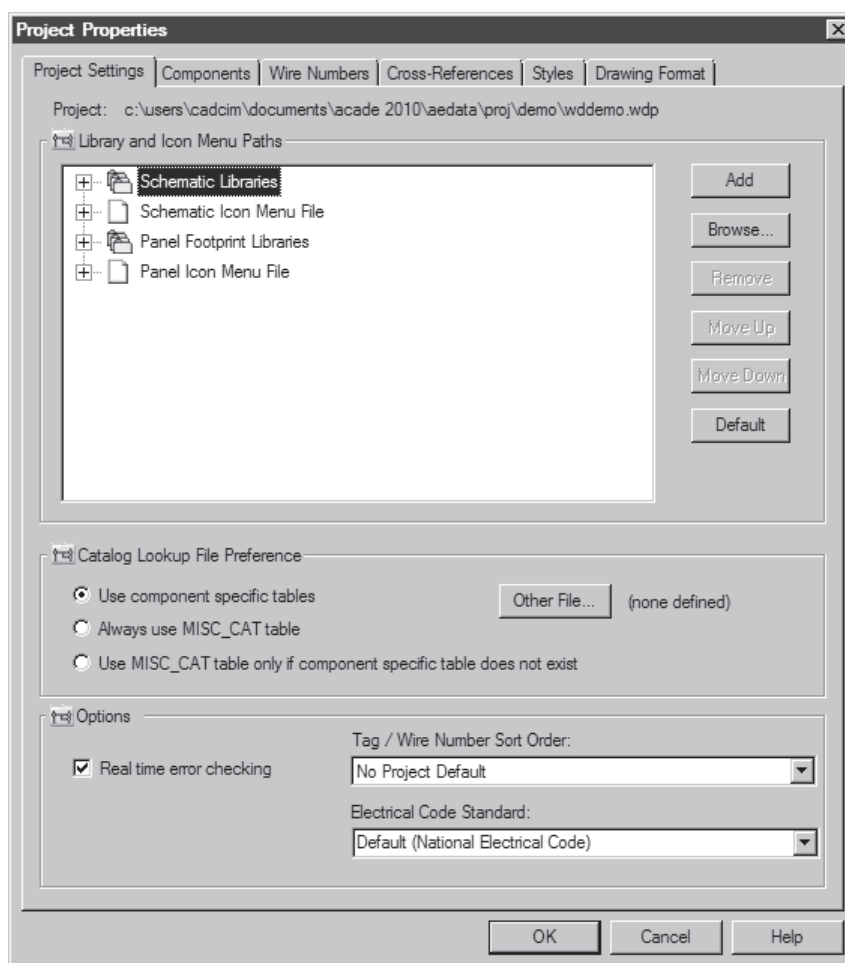


Figure 2-35 The *Project Properties* dialog box

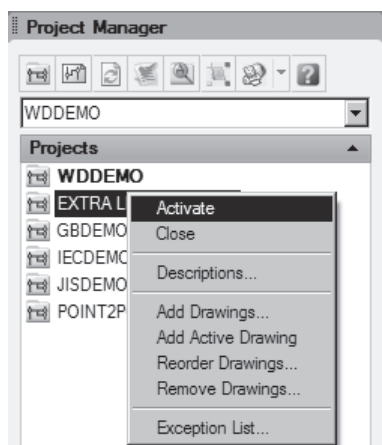


Figure 2-36 The shortcut menu displaying the *Activate* option

Project Drawing List

The Project Drawing list displays the drawings available in a project. If you double-click on a project name in the **Projects** rollout of the **Project Manager**, the drawings associated with that project will be displayed. Right-click on a drawing file name; the editing options will be displayed, as shown in Figure 2-37. Using these options, you can open, close, remove, rename, and replace a drawing file. You can also edit the properties of a drawing by choosing **Properties > Drawing Properties** from the shortcut menu, refer to Figure 2-37. The options in this shortcut menu are discussed next.



Note

The .dwg file extension indicates that the corresponding file is a drawing file, refer to Figure 2-37. But you can convert a drawing file into a reference drawing. To do so, right-click on the drawing name and choose **Properties > Drawing Properties** from the shortcut menu; the **Drawing Properties** dialog box will be displayed. Select the **For Reference Only** check box from the **Drawing Settings** tab; your drawing file will convert to the reference drawing. However, its extension (.dwg) will remain same.

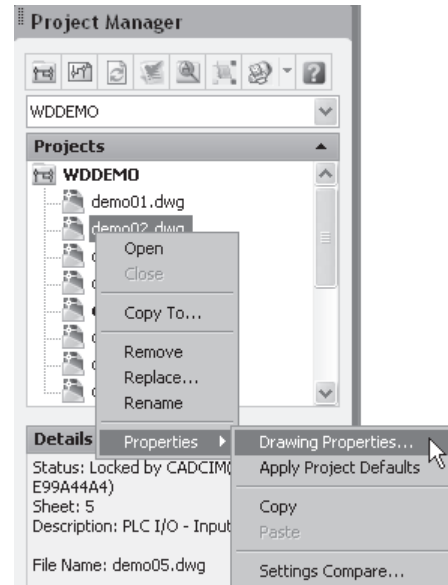


Figure 2-37 The editing options available in the shortcut menu when you right-click on a drawing in the **Project Manager**

Open

On choosing the **Open** option from the shortcut menu, the selected drawing will open in a new window and its name will appear in bold text in the Project Drawing list. Alternatively, you can select a drawing file name and press ENTER to open the corresponding drawing. You can also open a drawing file by double-clicking on it. The **OPEN** command is also used to open a drawing file.

Close

Choose the **Close** option from the shortcut menu to close the current drawing file. This option will be available only if the drawing file is open. You can also close a drawing file by using the **CLOSE** command.

Copy To

The **Copy To** option is used to copy the selected drawing to the same or another open project. To do so, choose the **Copy To** option from the shortcut menu; the **Copy To** dialog box will be displayed, as shown in Figure 2-38. Next, from the **Save in** drop-down list, select the location where you want to copy the drawings. If you want to change the name of the drawing file, enter the drawing file name in the **File name** edit box. Next, select the project name from the **Project** drop-down list. Choose the **Save** button; the **Apply Project Defaults to Drawings Settings** message box will be displayed.

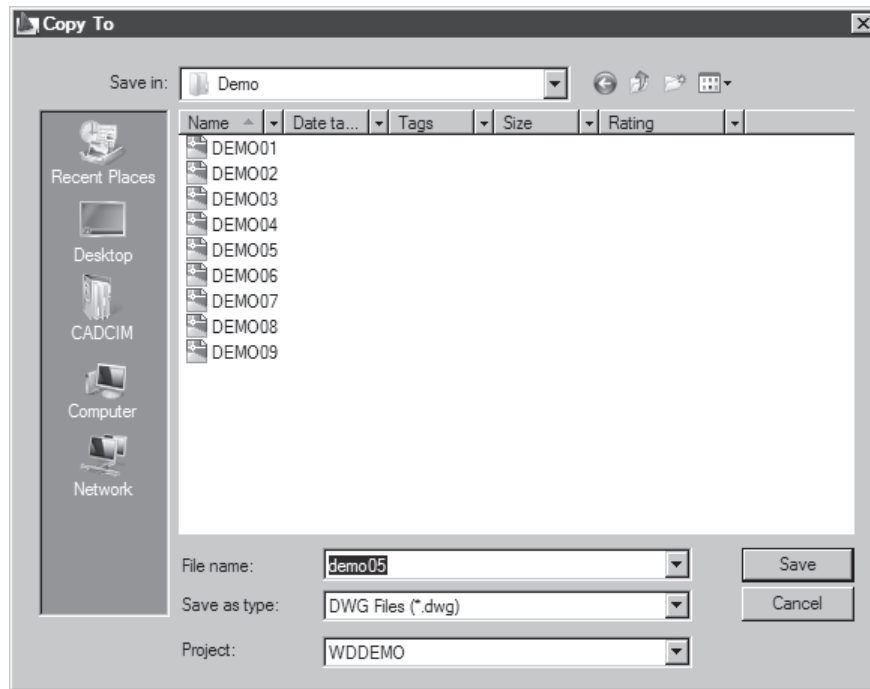


Figure 2-38 The *Copy To* dialog box

Choose the **Yes** button in the message box to apply the project default values to the newly added drawing's WD_M block definition; the selected drawing(s) will be copied to the specified project. If you want the new drawing to retain its existing settings, choose the **No** button.

Remove

Choose the **Remove** option from the shortcut menu to remove the selected drawing from the current project. This options does not remove the drawings permanently.

Replace

The **Replace** option is used to replace the selected drawing with the desired one. To do so, choose the **Replace** option from the shortcut menu; the **Select Replacement Drawing** dialog box will be displayed, as shown in Figure 2-39. Next, select the drawing file and choose the **Select** button; the **Apply Project Defaults to Drawings Settings** dialog box will be displayed, refer to Figure 2-9. Choose the **Yes** button to apply the project default values to the newly added drawing's WD_M block definition. If you want the new drawing to retain its existing settings, choose the **No** button; the drawing file will get replaced with the selected drawings. This drawing will be displayed in the Project Drawing list. Also, note that if the drawing is already present in the project, it will display the message that drawing is already present in the project.

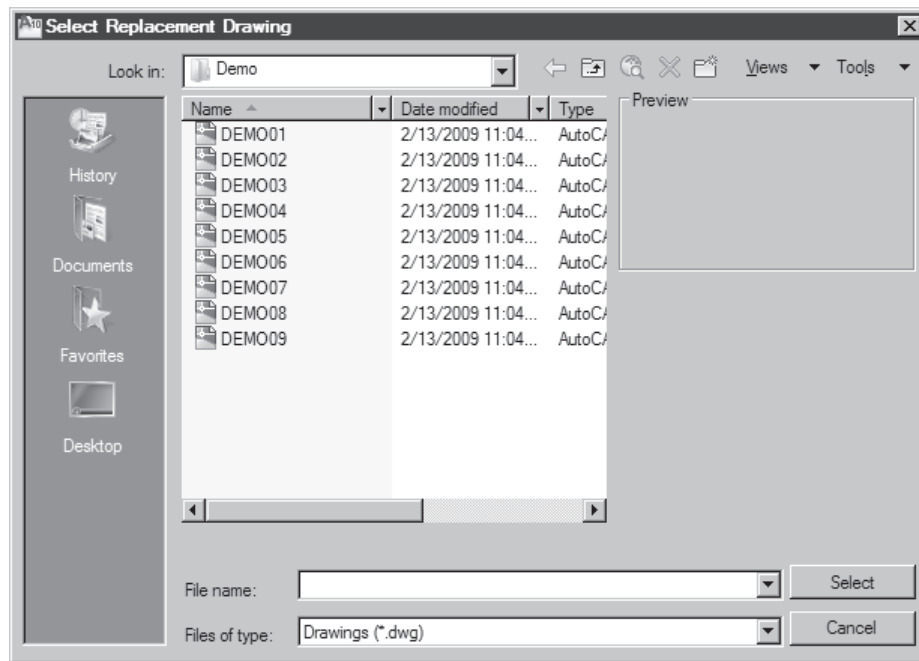


Figure 2-39 The Select Replacement Drawing dialog box

Rename

The **Rename** option is used to rename the selected drawing. To do so, choose the **Rename** option from the Project Drawing list; the name of the selected drawing will be replaced by an edit box. Enter a new name in the edit box to rename the drawing.

Drawing Properties

The **Drawing Properties** option is used to edit, assign, and remove the section and sub-section codes of a drawing. To do so, choose **Properties > Drawing Properties** from the shortcut menu; the **Drawing Properties** dialog box will be displayed, refer to Figure 2-8. In the **Drawing Properties** dialog box, you can assign descriptions to the drawing files. Also, you can change drawing settings, component tag format, wire number format, cross-reference format, styles, and drawing format. Note that each individual drawing can have its own drawing settings for designing purpose.

Apply Project Defaults

Choose the **Apply Project Defaults** option from the shortcut menu to apply the project default settings to the new drawing files, if it was not done at the time of creation of the drawing files.

Copy

You can copy drawing settings and options from one drawing to one or more drawings by choosing the **Copy** option from the shortcut menu.



Note
The drawing-specific information that is displayed in the **Drawing Settings** tab of the **Drawing Properties** dialog box, refer to Figure 2-8, cannot be copied from one drawing to another.

Paste

Choose the **Paste** option from the shortcut menu to apply the copied drawing settings as well as other options from one drawing to other selected drawing(s).

Settings Compare

The **Settings Compare** option is used to compare the drawing and its project settings. To do so, choose the **Settings Compare** option from the shortcut menu; the **Compare Drawing and Project Settings** dialog box will be displayed, as shown in Figure 2-40. This dialog box displays differences between the drawing settings and their associated default values in the project definition file (.wdp).

See Figure 2-40, where *demo01.dwg* is the drawing name and *WDDEMO* is the project name.

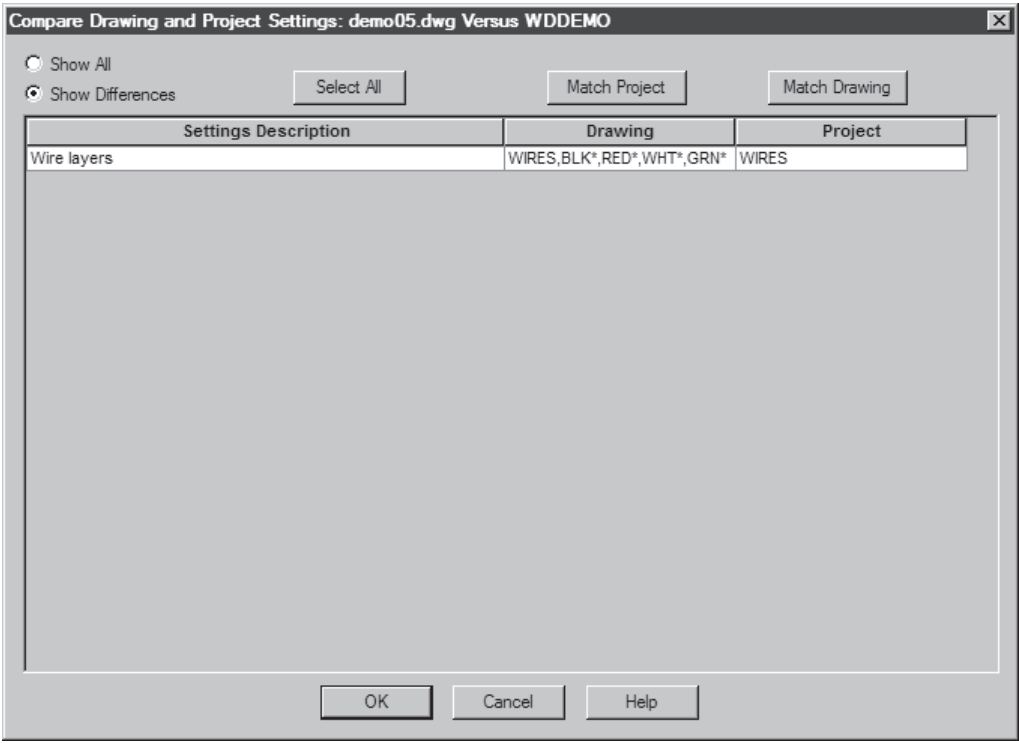


Figure 2-40 The Compare Drawing and Project Settings dialog box

Details/Preview Rollout

The **Details/Preview** rollout displays the details of the selected project or drawing as well as the preview of the selected drawing. The **Details** and **Preview** rollouts shown in Figure 2-41 and 2-42, respectively, are discussed next.

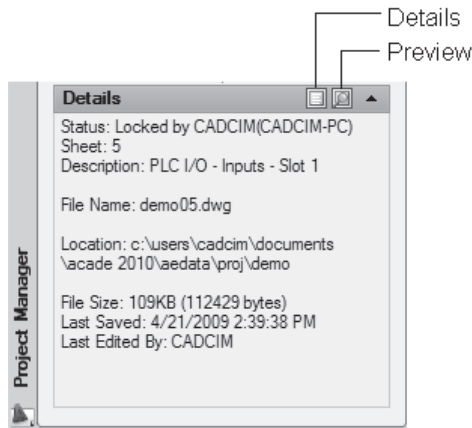


Figure 2-41 The **Project Manager** displaying the **Details** rollout

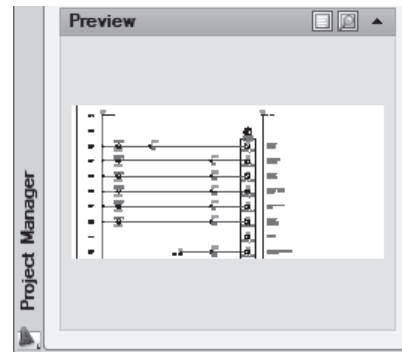


Figure 2-42 The **Project Manager** displaying the **Preview** rollout

Details

The **Details** button is used to view details of the selected project and drawing. To do so, select a project or drawing from the **Projects** rollout and then choose the **Details** button from the **Details/Preview** rollout in the **Project Manager**; details of the selected project or drawing will be displayed in the **Details** rollout. Whenever you select a drawing file, its details get updated and remain visible till you select a new drawing file. The information that will be displayed in the **Details** rollout includes status, description, if added, file name, file location, file size, date when the file was last saved, the name of the user who modified the file last, and so on, refer to Figure 2-41.



Note

You can switch/move from one drawing to another by using the up and down arrow keys.

Preview

The **Preview** button is used to display the preview of the selected drawing in the **Preview** rollout. To preview a selected drawing, select the drawing from the **Projects** rollout and then choose the **Preview** button from the **Details/Preview** rollout; the image of the selected drawing will be displayed in the **Preview** rollout, refer to Figure 2-42. The image of the selected drawing will be visible till you select another drawing from the **Projects** rollout. You can use up and down ARROW keys to view all drawings of a project.

**Note**

As discussed in the previous section, you can use the **Project Manager** to preview drawings. Moving among drawings by using the up and down **ARROW** keys does not open a drawing; it only changes the preview or the details displayed in the **Project Manager**.

TUTORIALS

Tutorial 1

In this tutorial, you will create a new project and add project description to it, as shown in Figure 2-43. (Expected time: 10 min)

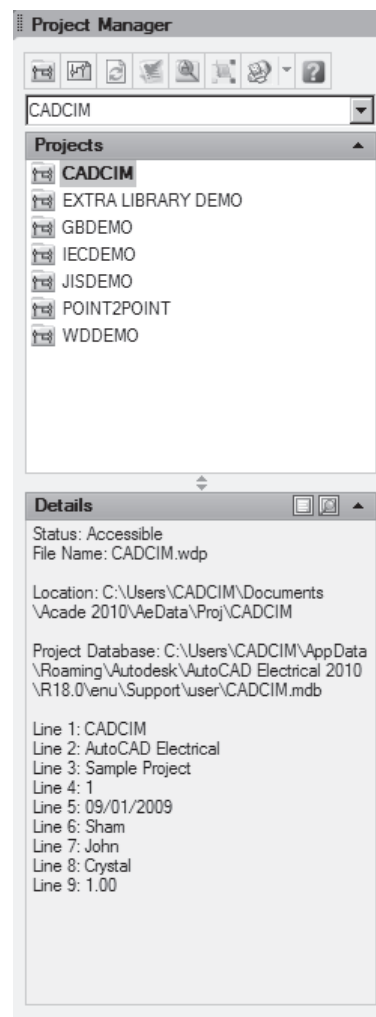


Figure 2-43 The **Project Manager** displaying the **CADCIM** project and its description

The following steps are required to complete this tutorial:

- a. Start AutoCAD Electrical 2010.
- b. Create a new project and add project description to it.

Starting AutoCAD Electrical 2010

1. Start AutoCAD Electrical 2010 by choosing **Start > All Programs** (or **Programs**, if you are working with Windows XP Classic appearance mode) > **Autodesk > AutoCAD Electrical 2010 > AutoCAD Electrical 2010**. Alternatively, double-click on the shortcut icon of AutoCAD Electrical 2010 on the desktop of your computer to start AutoCAD Electrical 2010.
2. The **Project Manager** is displayed by default on the left of the screen. If it is not displayed, choose the **Manager** button from the **Project Tools** panel of the **Project** tab. Alternatively, choose the **Project Manager** button from the **ACE:Main Electrical 2** toolbar to display the **Project Manager**.

Create a New Project

1. In the **Project Manager**, choose the **New Project** button; the **Create New Project** dialog box is displayed, as shown in Figure 2-44.

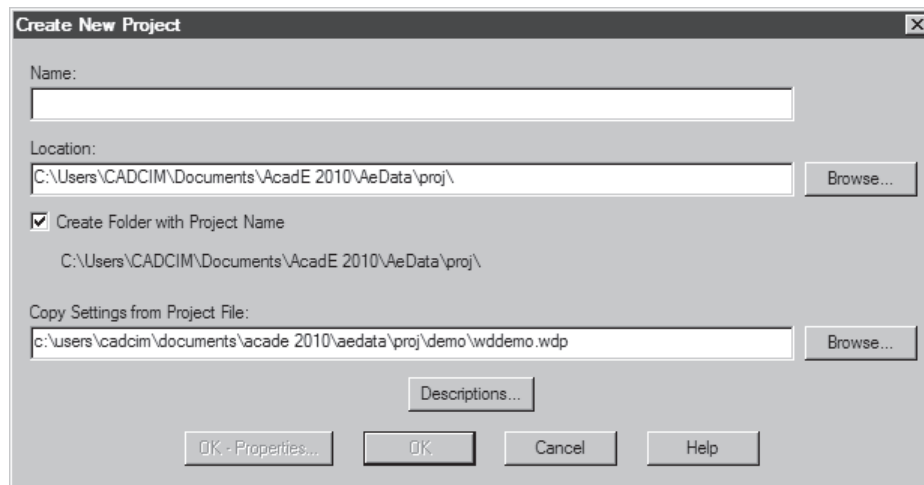


Figure 2-44 The Create New Project dialog box

2. Enter **CADCIM** in the **Name** edit box.
3. To specify the location of the project, choose the **Browse** button; the **Browse for Folder** dialog box is displayed. By default, the **Proj** folder is selected in this dialog box. Choose the **OK** button; the location of the project is automatically displayed in the **Location** edit box.

4. Select the **Create Folder with Project Name** check box, if it is not already selected.
5. By default, the name and path of the existing project is displayed in the **Copy Settings from Project File** edit box which is `c:\users\cadcim\documents\acade 2010\aedata\proj\demo\wddemo.wdp`. If it is not displayed, choose the **Browse** button; the **Open** dialog box is displayed. Select the **Demo** folder and then select the `wddemo` project file. Next, choose the **Open** button; the path and name of the existing project is displayed in the **Copy Settings from Project File** edit box.
6. Choose the **Descriptions** button from the **Create New Project** dialog box; the **Project Description** dialog box is displayed.
7. Enter the following information in the **Project Description** dialog box, as shown in Figure 2-45.

LINE1= CADCIM
 LINE2= AutoCAD Electrical
 LINE3= Sample Project
 LINE4= 1
 LINE5= 09/01/2009
 LINE6= Sham
 LINE7= John
 LINE8= Crystal
 LINE9= 1.00

Line	Description	in reports
Line1	CADCIM	<input checked="" type="checkbox"/>
Line2	AutoCAD Electrical	<input checked="" type="checkbox"/>
Line3	Sample Project	<input checked="" type="checkbox"/>
Line4	1	<input checked="" type="checkbox"/>
Line5	09/01/2009	<input checked="" type="checkbox"/>
Line6	Sham	<input checked="" type="checkbox"/>
Line7	John	<input checked="" type="checkbox"/>
Line8	Crystal	<input checked="" type="checkbox"/>
Line9	1.00	<input checked="" type="checkbox"/>
Line10		<input type="checkbox"/>
Line11		<input type="checkbox"/>
Line12		<input type="checkbox"/>

Figure 2-45 The **Project Description** dialog box

Now, select the **in reports** check box corresponding to each of these line to include this description in the reports, refer to Figure 2-45.

8. Choose the **OK** button from the **Project Description** dialog box to save the changes made in this dialog box.

**Note**

The information that you will enter in the description lines of the **Project Description** dialog box will be displayed at a particular location in the title block of the drawing, as shown in Figure 2-46. The title blocks will be discussed in detail in the later chapters.

CADCIM		Line 1
AutoCAD Electrical		Line 2
Sample Project		Line 3
ENGINEER	Sham	Line 8
JOB NO	1	Line 7
SCALE	1.00	Line 5
DATE	09/01/2009	
DWG NO		
SHEET NO		
OF 1		

Figure 2-46 The title block showing the description entered in the **Project Description** dialog box

9. Choose the **OK** button from the **Create New Project** dialog box. You will notice that the **CADCIM** project will appear in bold text at the top of the project list displayed in the **Project Manager**.
10. Next, select the **CADCIM** project from the **Project Manager**.
11. Choose the **Details** button from the **Details/Preview** rollout. You will notice that the project description/information that you entered in the first nine lines of the **Project Description** dialog box is displayed in the **Details/Preview** area, as shown in Figure 2-47.

**Note**

It is recommended to save all tutorials in the forthcoming chapters in the **CADCIM** project.

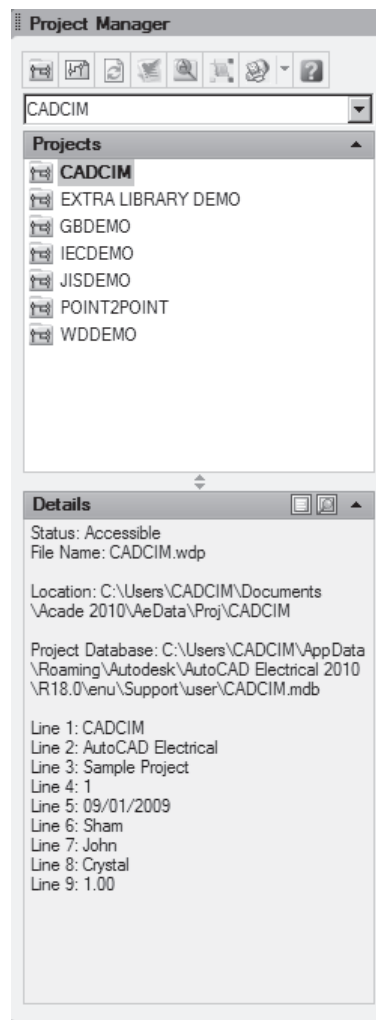


Figure 2-47 The Project Manager displaying the CADCIM project and its description

Tutorial 2

In this tutorial, you will create a new drawing in the **CADCIM** project that you created in Tutorial 1 of this chapter and add description to it. The details of the drawing and its preview are shown in Figures 2-48 and 2-49. **(Expected time: 10 min)**

The following steps are required to complete this tutorial:

- Start AutoCAD Electrical 2010.
- Create a new drawing and add description to it.

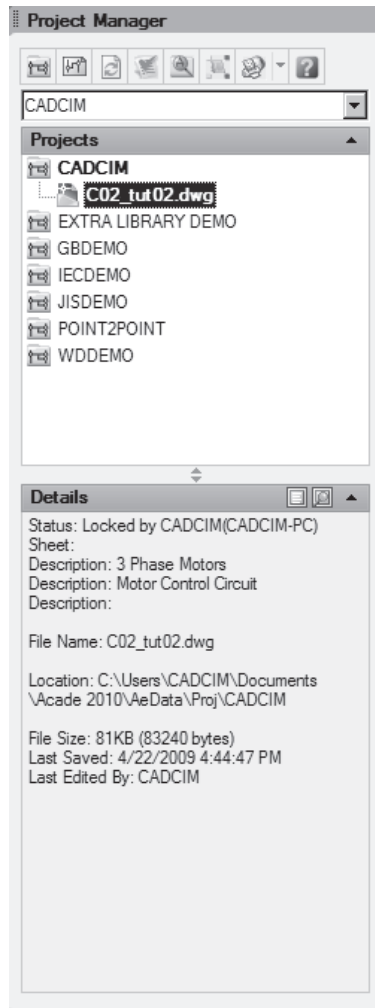


Figure 2-48 The Project Manager displaying details of the drawing

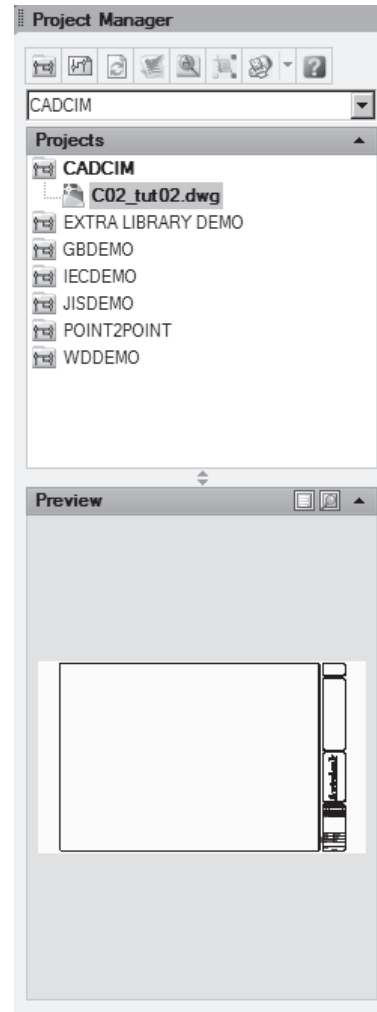


Figure 2-49 The Project Manager displaying the preview of the drawing

Starting AutoCAD Electrical 2010

1. Start **AutoCAD Electrical 2010** by choosing **Start > All Programs** (or **Programs**, if you are working with Windows XP Classic appearance mode) > **Autodesk > AutoCAD Electrical 2010 > AutoCAD Electrical 2010**. Alternatively, double-click on the shortcut icon of AutoCAD Electrical 2010 on the desktop of your computer to start AutoCAD Electrical 2010.
2. The **Project Manager** is displayed by default on the left of the screen. If it is not displayed, choose the **Manager** button from the **Project Tools** panel of the **Project** tab. Alternatively, choose the **Project Manager** button from the **ACE:Main Electrical 2** toolbar to display the **Project Manager**.

3. If the **CADCIM** project is not displayed in the **Projects** rollout of the **Project Manager**, select the **Open Project** option from the **Project selection** drop-down list; the **Select Project File** dialog box is displayed. Select the **Proj** folder from the **Look in** drop-down list and then double-click on the **CADCIM** folder name. Next, select the **CADCIM** file and choose the **Open** button; the **CADCIM** project is displayed in the **Projects** rollout and becomes the active project.

Creating a New Drawing

1. In the **Project Manager**, choose the **New Drawing** button; the **Create New Drawing** dialog box is displayed, as shown in Figure 2-50.



Figure 2-50 The *Create New Drawing* dialog box

2. Enter **C02_tut02** in the **Name** edit box.
3. To specify template in the **Template** edit box, choose the **Browse** button; the **Select template** dialog box is displayed. Select **ACAD_ELECTRICAL** from the list displayed in the **template** dialog box and then choose the **Open** button; the name and path of the template is displayed in the **Template** edit box.

4. Clear the **For Reference Only** check box, if it is selected.
5. To specify the location for the drawing, choose the **Browse** button given on the right of the **Location** edit box; the **Browse For Folder** dialog box is displayed. By default, the active project, which is **CADCIM** project is selected. Choose the **OK** button; the location of the drawing is automatically displayed in the **Location** edit box.
6. Enter **3 Phase Motors** in the **Description 1** edit box.
7. Enter **Motor Control Circuit** in the **Description 2** edit box.
8. Choose the **OK** button from the **Create New Drawing** dialog box; you will notice that the drawing that you created gets added to the active project. To view the drawing that you created, double-click on the project name; the drawing list is displayed and the drawing *C02_tut02.dwg* appears in bold text in the **Project Manager**. In this case, the active project is **CADCIM**, and therefore the drawing gets added to this project. Click on the drawing; the details and the preview of the drawing are displayed in the **Project Manager**, as shown in Figures 2-51 and 2-52.

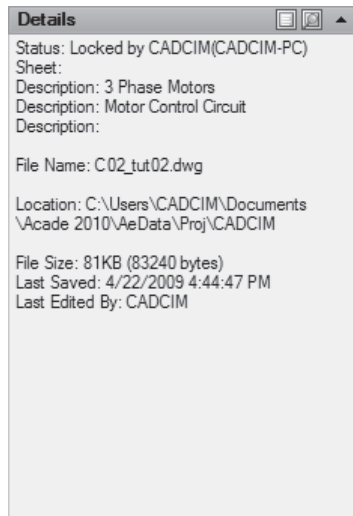


Figure 2-51 The **Details** rollout displaying the description of *C02_tut02.dwg*

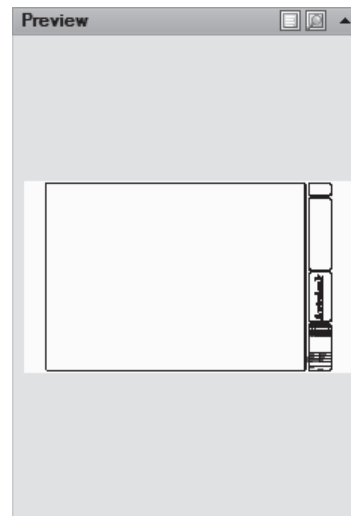


Figure 2-52 The **Preview** area displaying the preview of *C02_tut02.dwg*

Tutorial 3

In this tutorial, you will add and remove drawings from the **CADCIM** project and replace the drawings of **POINT2POINT** project with the **CADCIM** project that you created in Tutorial 1 of this chapter.

(Expected time: 15 min)

The following steps are required to complete this tutorial:

- a. Add drawings from the existing project to the **CADCIM** project.
- b. Remove a drawing.
- c. Replace the drawing.

Adding Drawings from the Existing Project

1. If the **Project Manager** is not displayed, choose the **Manager** button from the **Project Tools** panel of the **Project** tab; the **Project Manager** is displayed.
2. To add drawings to the **CADCIM** project, right-click on it; a shortcut menu is displayed. Choose the **Add Drawings** option from the shortcut menu; the **Select Files to Add** dialog box is displayed.
3. Select the **Proj** folder from the **Look in** drop-down list; the list of all projects saved in this folder is displayed. Next, double-click on the **Demo** folder from the **Select Files to Add** dialog box; the drawings present in this folder are displayed.
4. Press SHIFT/CTRL and select the **DEMO01**, **DEMO02**, **DEMO03**, **DEMO04**, and **DEMO05** drawings.
5. Next, choose the **Add** button; the **Apply Project Defaults to Drawing Settings** message box is displayed.
6. Choose the **Yes** button from the **Apply Project Defaults to Drawing Settings** message box; the selected drawings are added to the **CADCIM** project, as shown in Figure 2-53.

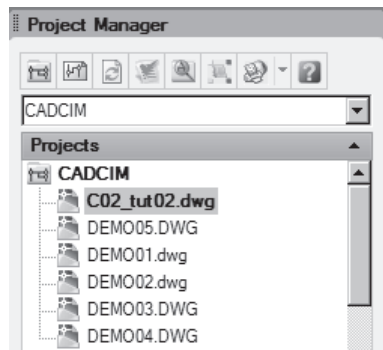


Figure 2-53 The Project Manager displaying the CADCIM project with the drawings added to it

Removing a Drawing

1. To remove the **DEMO01.dwg** drawing from the project, right-click on the drawing name and choose the **Remove** option from the shortcut menu; the **DEMO01.dwg** drawing is removed from the drawing list, as shown in Figure 2-54.

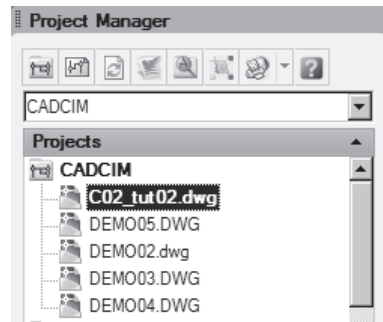


Figure 2-54 The **Project Manager** displaying the **CADCIM** project after removing the **DEMO01.dwg** drawing

Replacing the Drawing

1. To replace the **DEMO02.dwg** drawing of the **CADCIM** project with the *Connector.dwg* of **POINT2POINT** project, right-click on the **DEMO02.dwg** drawing; a shortcut menu is displayed. Choose the **Replace** option from the shortcut menu; the **Select Replacement Drawing** dialog box is displayed.
2. Next, select the **Proj** folder from the **Look in** drop-down list.
3. Double-click on the **Point2Point** folder; the *Connector.dwg* drawing is displayed in the **Select Replacement Drawing** dialog box.
4. Next, select the *Connector.dwg* drawing and choose the **Select** button; the **Apply Project Defaults to Drawing Settings** message box is displayed.
5. Choose the **Yes** button; the **DEMO02.dwg** is replaced by *Connector.dwg* drawing in the **CADCIM** project, as shown in Figure 2-55.

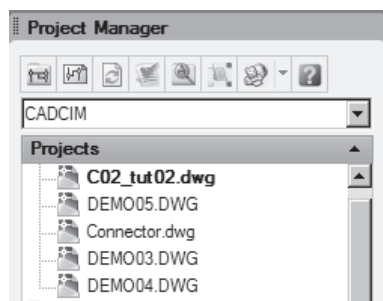


Figure 2-55 The **Project Manager** displaying the **CADCIM** project with **DEMO02.dwg** drawing replaced by the *Connector.dwg* drawing

Self-Evaluation Test

Answer the following questions and then compare them to those given at the end of this chapter:

1. A project file is an ASCII text file. (T/F)
2. The **Project Manager** is used to manage the project files only. (T/F)
3. A project file always consists of drawings placed in a single directory. (T/F)
4. You can switch between sequential drawings in an active project. (T/F)
5. You can activate more than one project at a time. (T/F)
6. The _____ option is used to batch plot all drawings of a project or a specified group of drawings.
7. The _____ option is used to create the copies of an existing project, including all drawing and project related files.
8. The _____ dialog box is used to edit the properties of a drawing.
9. Choose the _____ button to view the preview of a drawing.
10. You can add up to _____ lines of description for each drawing in a project.

Review Questions

Answer the following questions:

1. Which of the following tools is used to create a new drawing?
(a) **New Project** (b) **Copy Project**
(c) **New Drawing** (d) **Surfer**
2. Which of the following buttons is used to change the appearance of a drawing list displayed in the **Project Manager**?
(a) **Plot Project** (b) **Project Task List**
(c) **Move Up** (d) **Drawing List Display Configuration**
3. Which of the following options is used to add drawing(s) to a project?
(a) **Descriptions** (b) **Add Active Drawing**
(c) **Add Drawings** (d) **Title Block Update**

4. Which of the following commands is used to delete a project?
- (a) **WD_TB** (b) **ACENAV**
(c) **AEDELETEPROJECT** (d) **ACENEWPROJECT**
5. Which of the following dialog boxes is used to edit project properties?
- (a) **Drawing List Display Configuration** (b) **Project Properties**
(c) **Drawing Properties** (d) **Compare Drawing and Project Settings**
6. The **Remove** option is used both for removing and deleting a drawing file. (T/F)
7. You can close only the non-active projects. (T/F)
8. The check mark before a project name in the Project selection drop-down list indicates that the project is active. (T/F)
9. Projects can be closed using the Project selection drop-down list. (T/F)
10. The **Reorder Drawings** option is used to reorder drawing files. (T/F)

Exercises

Exercise 1

Create a new project with the project name **NEW_PROJECT** and add appropriate description to it. (Expected time: 10 min)



Note

*It is recommended to save all exercises in the forthcoming chapters in the **NEW_PROJECT** project.*

Exercise 2

Create a new drawing named **C02_exer02.dwg** in the project created in Exercise 1 and add appropriate description to it. (Expected time: 10 min)

Exercise 3

Using the **Copy** button, create a new project named as **COPY_PROJECT** containing the drawings and settings of any existing project. (Expected time: 10 min)

Answers to Self-Evaluation Test

1. T, 2. F, 3. F, 4. T, 5. F, 6. Plot Project, 7. Copy Project, 8. Drawing Properties, 9. Preview, 10. three