

DETAILS

3'-0 3/16" 4'-9 13/16"

6'-0" 2'-8" 6" R6'-2" 1'-11 9/16"

6" 6" 2'-0"

VEHICULAR ELEVATION

design **F/X**
GETTING STARTED GUIDE



DETAILS

design **F/X**
GETTING STARTED GUIDE

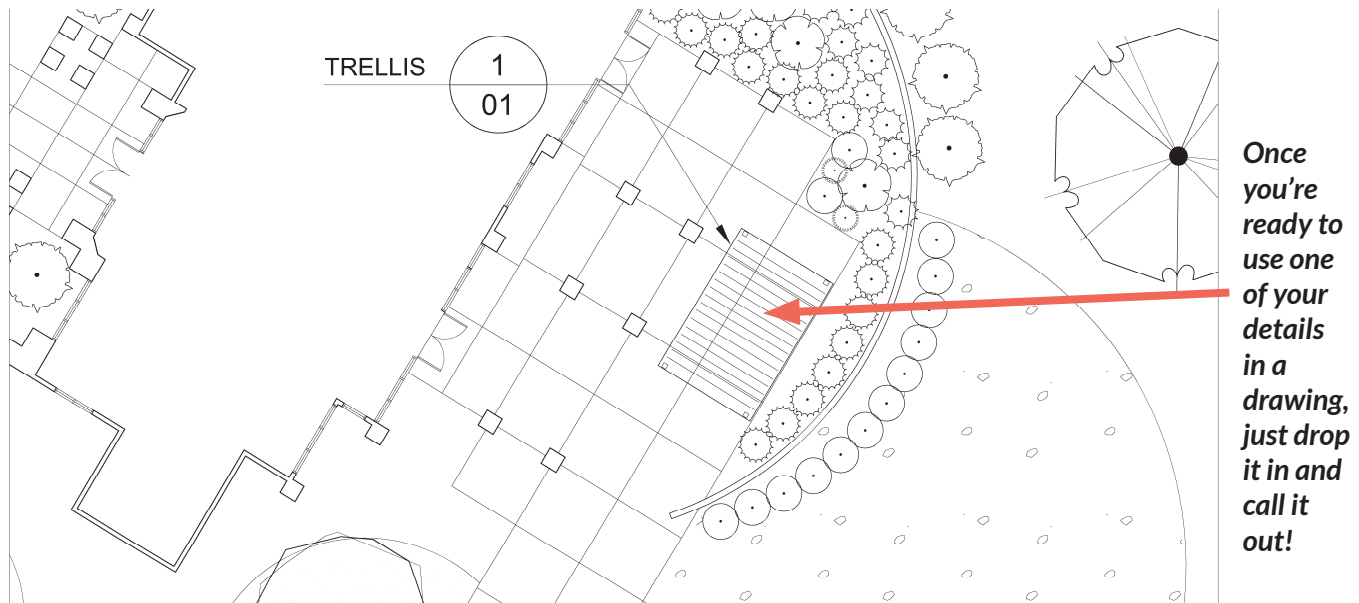
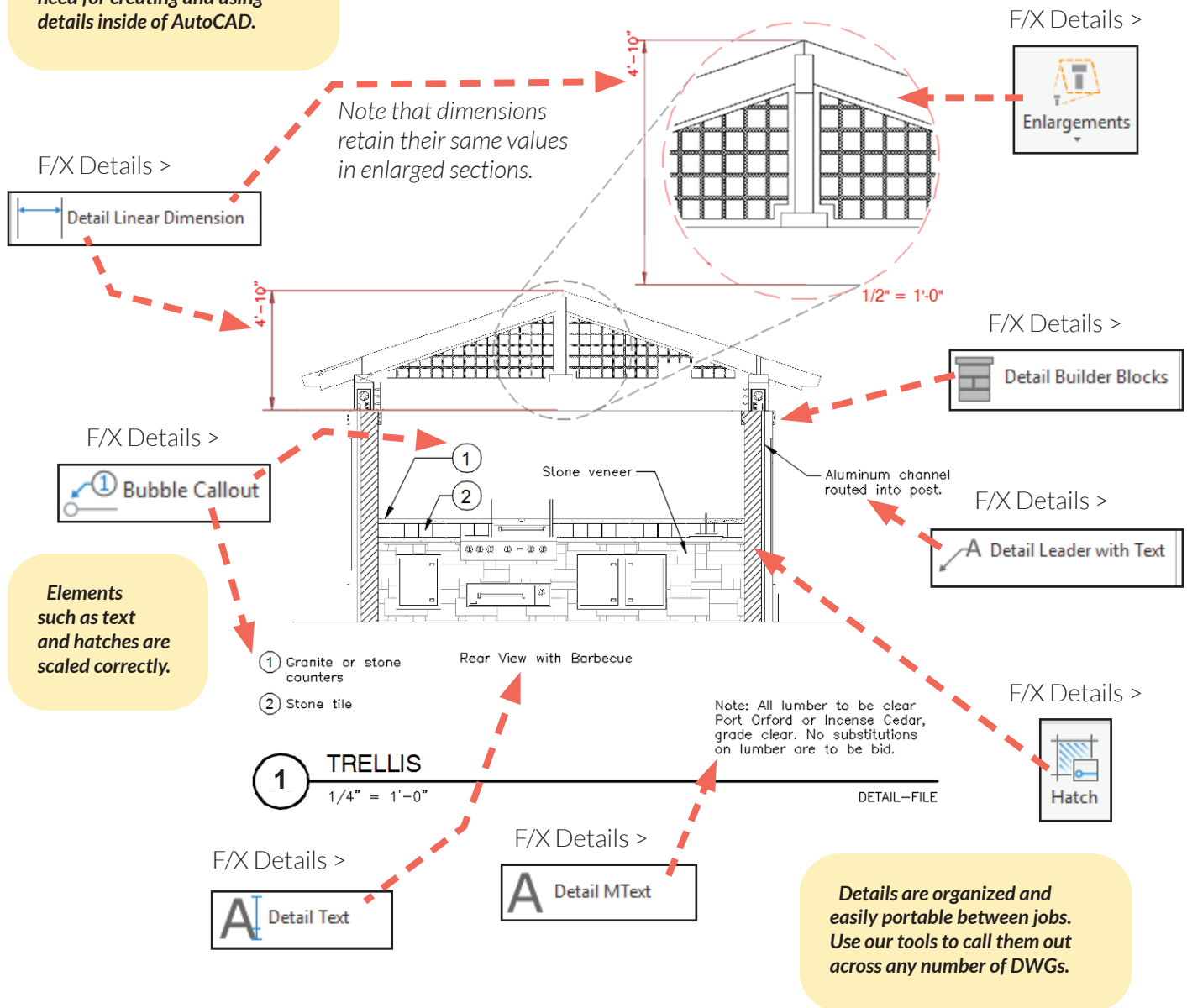
VEHICULAR ELEVATION

DETAILS

design **F/X**
GETTING STARTED GUIDE

VEHICULAR
ELEVATION

We give you all the tools you need for creating and using details inside of AutoCAD.



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Never Lose a Detail Again!

The Design F/X Ribbons *(Use this spread as a reference for locating all tools shown in this guide.)*

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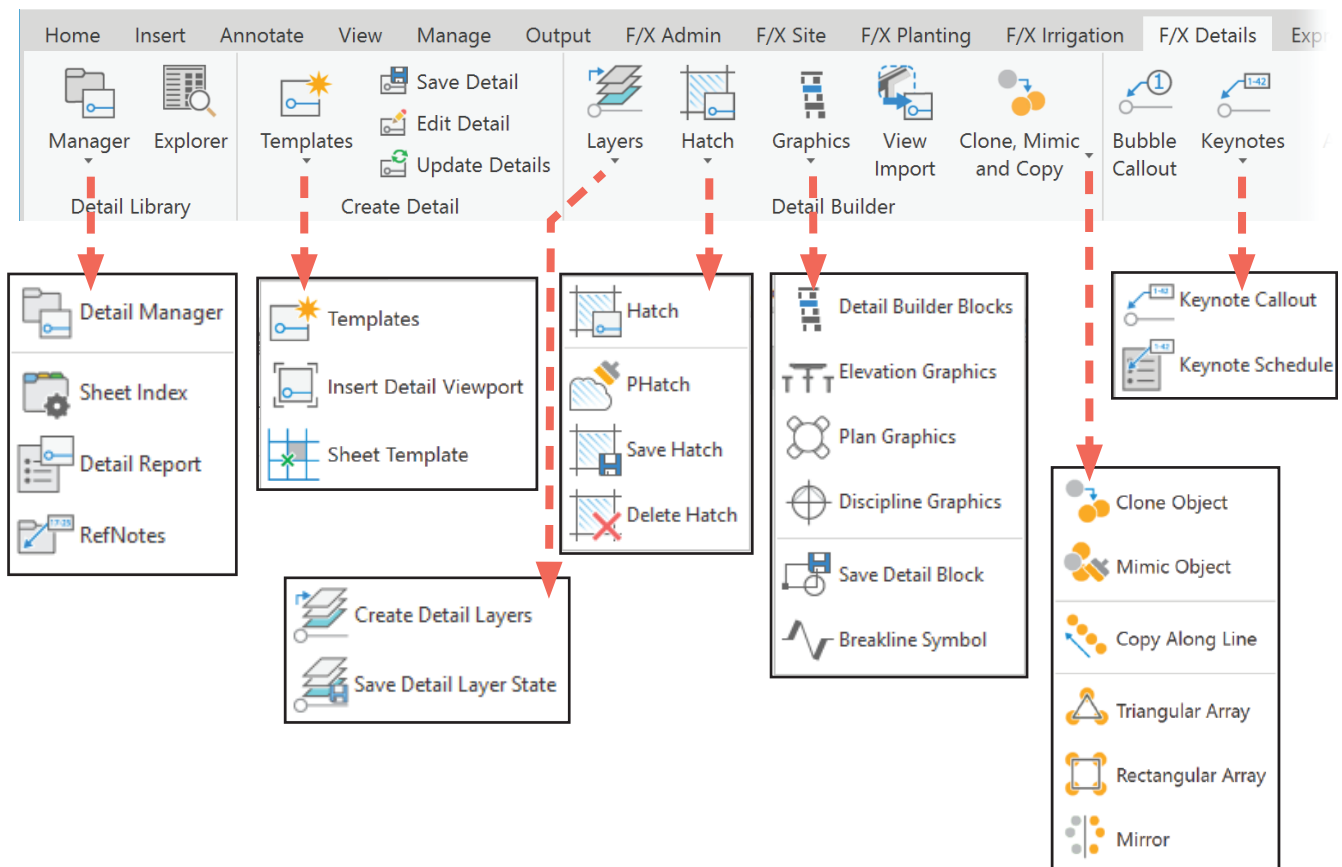
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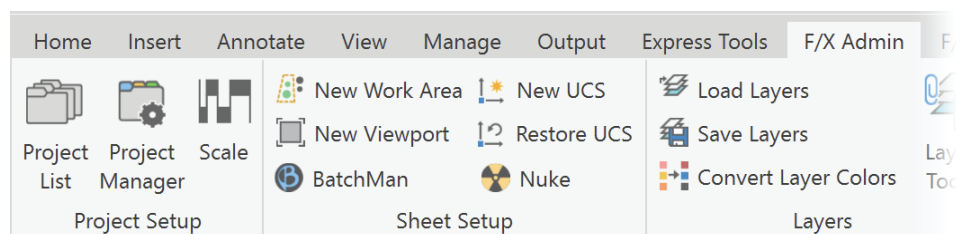
The Design F/X Ribbons

■ Refer back to this spread as a guide for locating the tools you'll need when working with details using Design F/X.

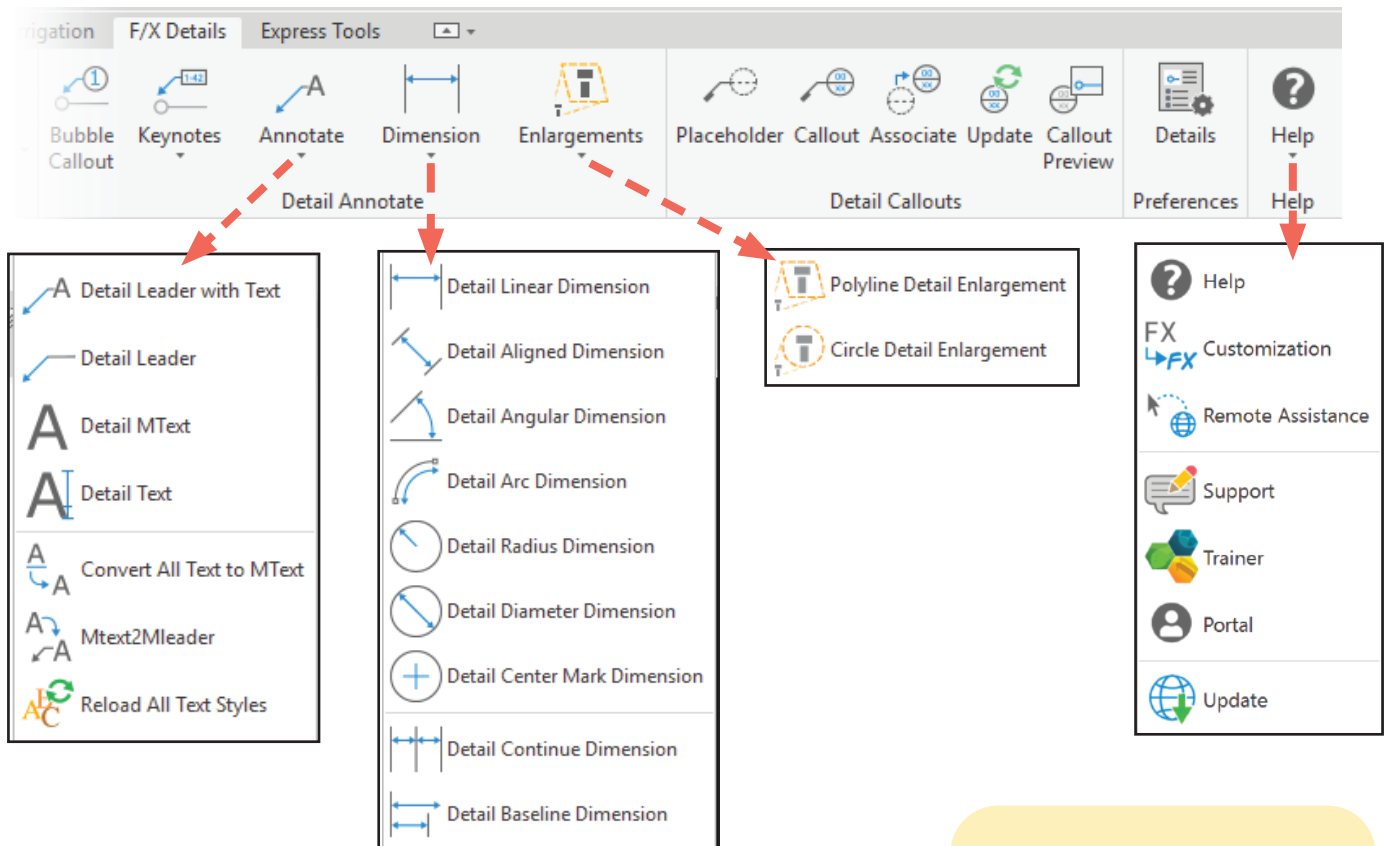
F/X Details Ribbon



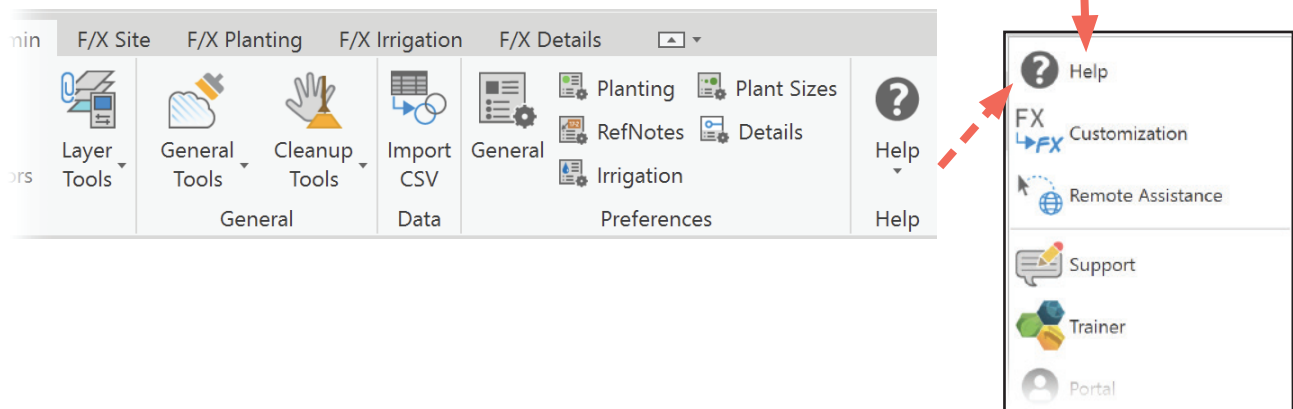
F/X Admin Ribbon



The Design F/X Ribbons



Need help? Click the **Help** button on any Land F/X ribbon, or visit www.LandFX.com/help.



Never Lose a Detail Again!

Any firm that uses AutoCAD can reap immeasurable benefits from our detail management system, available in all of our AutoCAD plugins – including Design F/X.

When our friends at Walt Disney Imagineering (WDI) needed a better way to keep a handle on their massive library of CAD details, we were happy to oblige. Inspired by extensive input from WDI, our detail organization system isn't just unprecedented. It's necessary. And you simply can't get it anywhere else. No other software allows you to connect with your detail library directly from CAD. We allow you to edit your office details on the fly (and save the changes to the originals), organize your details into a logical folder system, and place an unlimited number of details on infinite sheets.

You don't need to be an employee of a multi-office, multi-national body like WDI to understand the importance of keeping your details organized and standardized – or to experience the devastation of losing track of one. We've heard all the horror stories:

- Misplaced files
- Lost work
- Details missing from drawings

You can prevent these nightmare scenarios by setting up a logical, easy-to-navigate detail folder structure. (Also, don't forget to back up all your office details into a CAD Standards folder.)

Our detail tools help you manage, access, and standardize your details from a variety of project types without getting lost in an ever-growing, comprehensive list of projects. We've assembled this guide as an introduction to our detail system. With our help, you'll make your details your own – and never lose one again.

Jeremiah Farmer
CEO, Land F/X

■ **Changing the settings in the Details Preferences will not affect any details drawn prior to your customization.**

F/X Details >

A Detail Template is the “frame” for each detail you create. Set its size, and click **Open Template** to customize your detail title block.

F/X Admin >

General

Text Styles:

CALLOUT LIGHT
CALLOUT TEXT
CALLOUT TITLE
DETAIL TEXT
DIMENSION TEXT
LATERAL SIZE
MAINLINE SIZE
PHOTO LABEL
PLANT CALLOUT
SCHEDULE TEXT
SCHEDULE TITLE

Layers:

L-ANNO-HILT	2
L-ANNO-LABL	0
L-ANNO-LEDR-025M	7
L-ANNO-LEDR-035M	11
L-ANNO-LEDR-050M	5
L-ANNO-MATC	220
L-ANNO-SCHD-LINE	74
L-ANNO-SCHD-TEXT	7

Customize your detail layers and fonts. (See Pages 3, 4, and 5.)

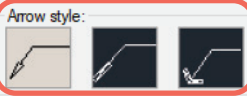
Details

Preferences

General | RefNotes | Planting | Plant Sizes | Irrigation | Details

Detail Template:
Format Width: 7.250 in.
Format Height: 7.125 in.

Open Template

Detail Callout:
Arrow style: 
☒ Include Detail Title
☒ Include RefNotes

Choose to include a detail title and Reference Note (RefNote) in your detail callouts.

Save Dimstyle
Keynote Callouts
Detail Explorer

Set a Dimension Style (DimStyle) for use in details you create. The DimStyle you set here will be saved in the current Preference Set.

DETAIL-TITLE

callouts

File Home Share View

Local Disk (C:) > LandFX > Blocks > graphics > callouts

Quick access
Downloads
Desktop
Documents
Pictures
21-people

Name

LAFX-DETAIL-R.dwg	8/10/2016 3:20
LAFX-DETAIL-PLACE-R.dwg	5/23/2016 9:49
LAFX-DETAIL-PLACE-L.dwg	5/23/2016 9:49
LAFX-DETAIL-PLACE-C.dwg	5/23/2016 9:49
LAFX-DETAIL-L.dwg	8/10/2016 3:20
LAFX-DETAIL-C.dwg	5/4/2016 12:35

Open and customize your detail callout blocks as needed.



Changes to the Preferences are saved in a Preference Set. For more information, see our *Customization Getting Started Guide*, available for download at <http://www.landfx.com/downloads/Getting-Started-Guide-CUSTOMIZATION.pdf>

■ **The most important element about using our Detail System is to make sure your firm's file and folder structure is organized and consistent. Logical organization and a clear folder structure ensure that your details are available and accessible at all times.**

Our **Detail Explorer** feature gives you instant access to all details, from all projects and manufacturers.

F/X Details >

Search all details in your library.

F/X Detail Library containing manufacturer-provided details

Project-specific details are just the beginning. Organize your details by year, type, client ... you name it!

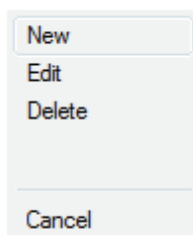
Here's one example:

Optional: Create a details folder for each of your jobs. Then use each job's folder to store all the details you use in that job. We highly recommend this practice if most of your details are unique per project, or if you have more than 5 designers in your office.

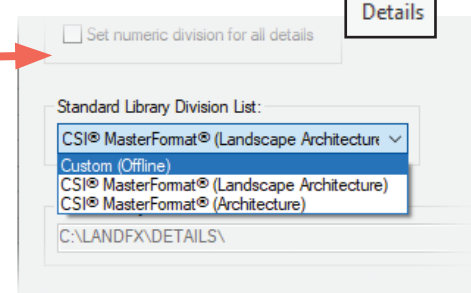
Default CSI® details pertaining to American construction standards

Manage the Land F/X detail library using these buttons ...

... or right-click a detail category to open a menu with the same options.

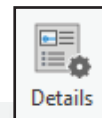


Optional: Select a standard detail organization list. We currently support the Construction Specifications Institute (CSI®) MasterFormat® for landscape architecture and architecture.



Need to update your detail folder structure? No problem. The **Detail Explorer** allows you to move details around as needed. See Page 3.

F/X Details >



The **Detail Explorer** provides multiple ways to manage your details. This incredibly powerful detail organization system gives you access to *every single one of your details* – from one easy-to-use interface.

To move or copy a detail to another folder, drag and drop it from this list ...

... to another category here.

Add photos to your details.

Thumbnail preview of a selected detail

List of details within the selected category

Right-click a detail to **Edit**, **Delete**, or **Print**.

Option to include empty detail categories in the list

Move details between installations with a click.

More info

New Edit Delete Print Import Export

DETAILS

Projects (P)

F/X Detail Library (FX)

Accessibility (AC)

Ramps (RAM)

Handrails and Grab Bars (RLS)

Stairs (STA)

Concrete (CO)

Construction (CO1)

STANDARD DETAILS

CONCRETE (03)

CAST-IN-PLACE CONCRETE (30)

STRUCTURAL CONCRETE (31)

Heavyweight Structural Concrete (13)

Lightweight Structural Concrete (16)

Shrinkage-Compensating Structural Concrete (19)

High-Performance Structural Concrete (23)

Ultra-High-Performance Structural Concrete (24)

Self-Compacting Concrete (26)

CONCRETE FINISHING (35)

High-Tolerance Concrete Floor Finishing (13)

Heavy-Duty Concrete Floor Finishing (16)

Colored Concrete Finishing (19)

Polished Concrete Finishing (43)

MASONRY (04)

METALS (05)

WOOD, PLASTICS, AND COMPOSITES (06)

ROUGH CARPENTRY (10)

Miscellaneous Rough Carpentry (53)

Exterior Rough Carpentry (63)

HEAVY TIMBER CONSTRUCTION (13)

01 STAIR HANDRAIL REQUIREMENTS

02 HANDRAIL AT RAMP

03 STAIR PIPE HANDRAIL SUPPORT

04 STAIR PIPE HANDRAIL

Edit

Delete

Print

Cancel

Exit

Detail Print

☒ List of all categories

☐ List of all details

☐ Each detail within the selected category: **FX-SI-BBQ-DG-**

☐ Each detail since last printed:

OK Cancel

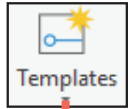
Print a list of all your details for reference, and to include in your CAD Standards binder.



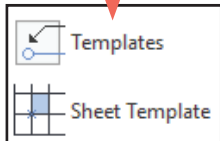
Use the **Detail Explorer** to maintain a detail binder, back up your details, and share details with other installations.

■ **Build your details at actual size with the physical components included. Control the size and scaling of your details, then instantly save them into your folder hierarchy – all from within CAD. Watch how easy it is!**

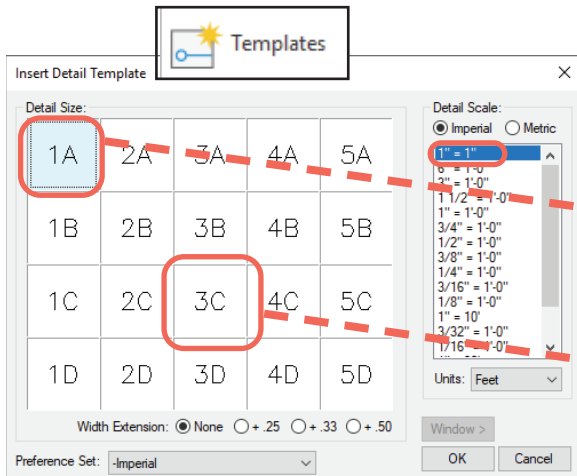
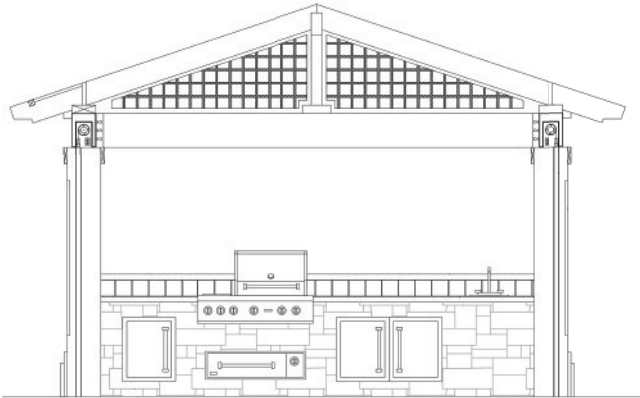
F/X Details >



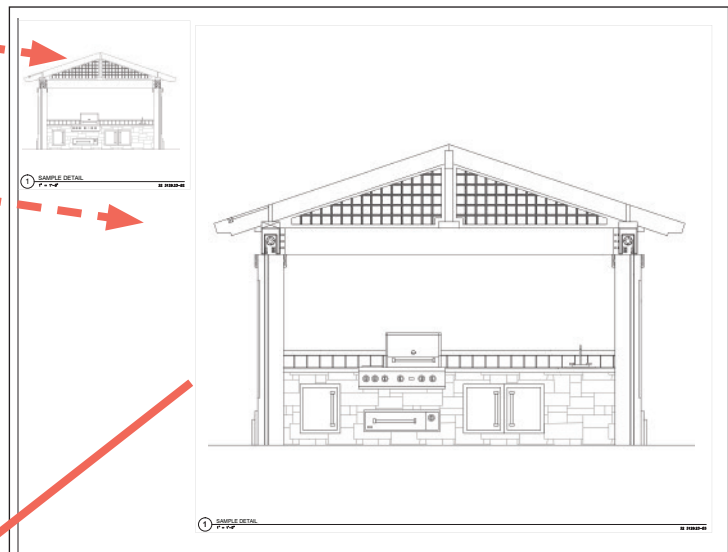
Open the **Templates** tool, and select the size and scale of your detail.



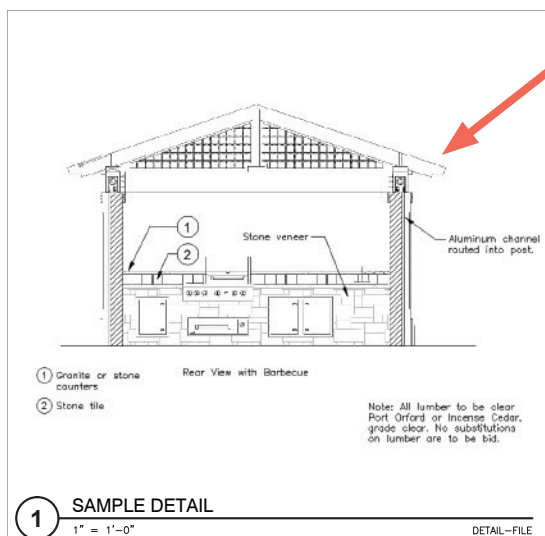
Place the template and begin drawing your detail, or draw your detail first and place the template around it.



Select a detail template size.



Apply the detail template to a drawing.



Your detail is now ready to annotate!

F/X Details >

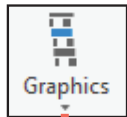


Work on multiple details at different scales within Model Space, and save them all at once using our **Save Detail** tool.

(See next page.) All relevant annotations placed in Model Space will be scaled perfectly for the scale you choose. Easily work on multiple details at once.

■ **Say no to manual repetition! If you build details, you inevitably use the same items over and over. We make it easy to organize, place, and edit your custom blocks without leaving CAD. Your blocks will be scaled perfectly every time you place them in a detail, regardless of the units or scale you've set in your drawing.**

F/X Details >

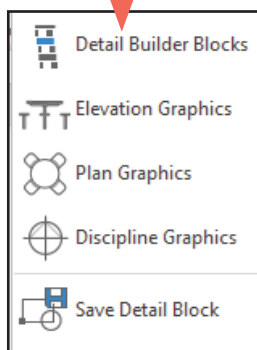


Graphics

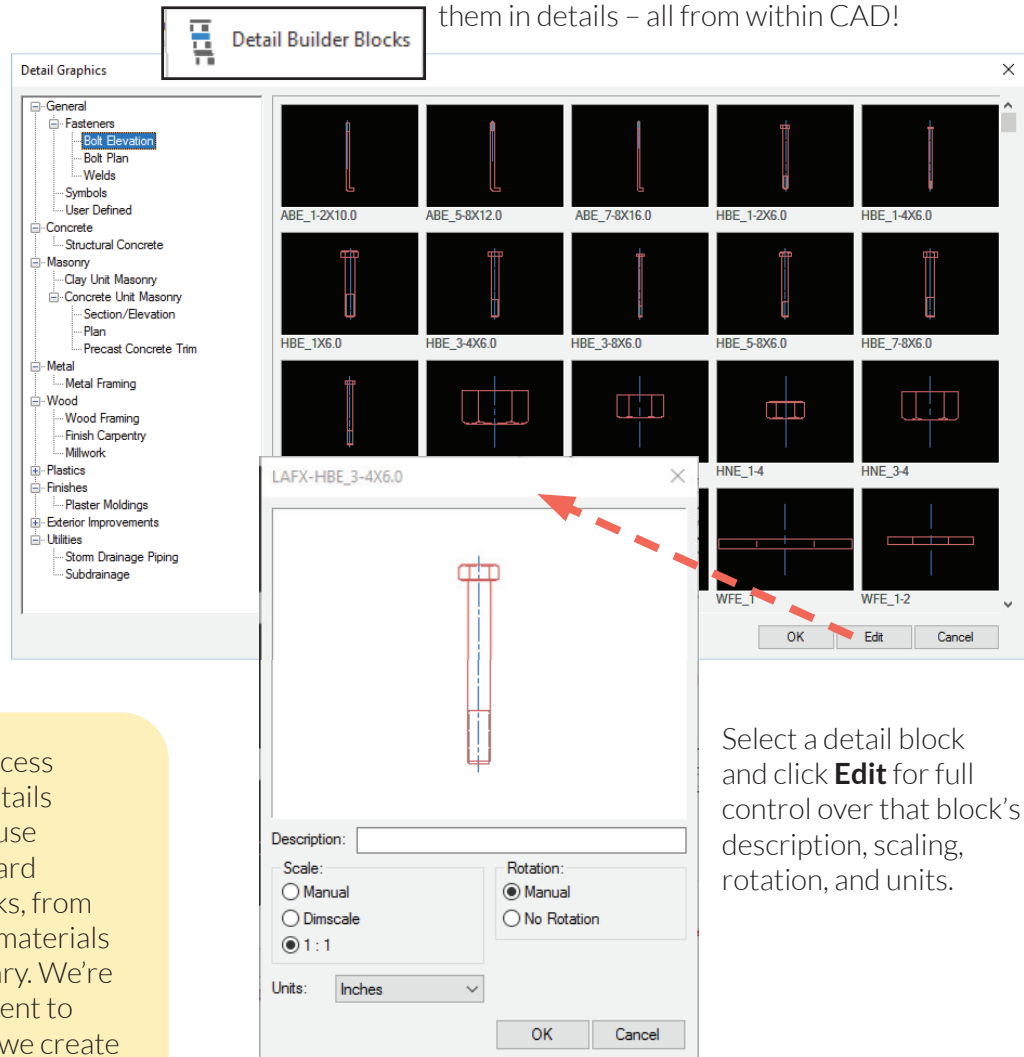


Save Detail Block

Any time you find yourself drawing a block from a detail, use our **Save Detail Block** tool to save it into our library of Detail Blocks. Just like that, you've made your custom block available to your whole office for future use!



Your saved blocks will then be available from a dialog box, where you (and anyone else in your office) can quickly select them and place them in details – all from within CAD!

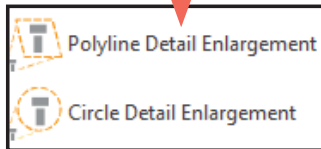
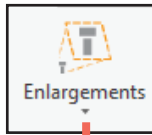


You won't just have access to your own custom details – you'll also be able to use our collection of standard detail component blocks, from fasteners and framing materials to moldings and masonry. We're constantly adding content to this library. Whenever we create new blocks, they'll be added to your library automatically!

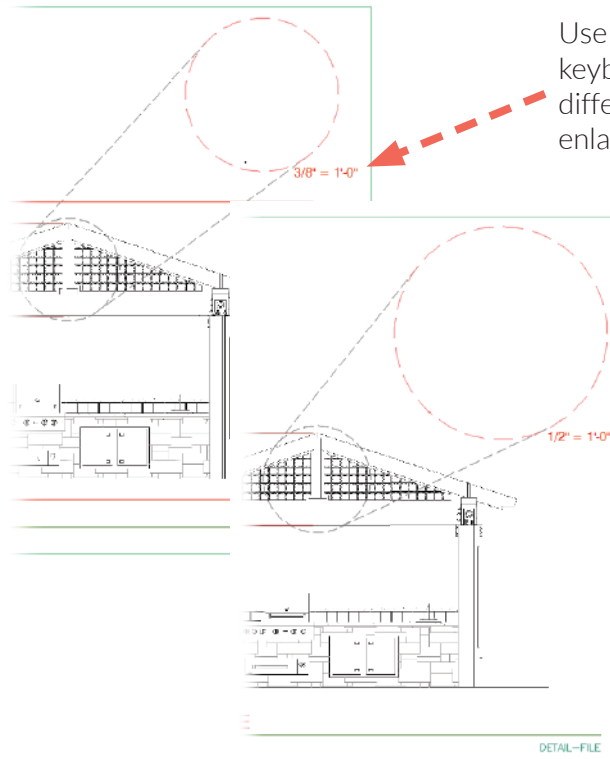
Select a detail block and click **Edit** for full control over that block's description, scaling, rotation, and units.

■ **Need to show an enlarged portion of your detail? Use one of our Enlargement tools. Select an exact scale to apply to the enlarged section.**

F/X Details >

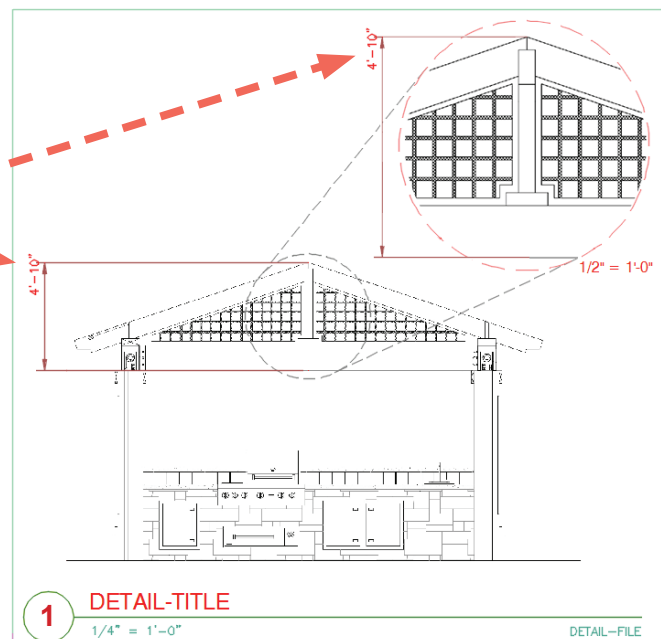


Select a polyline or circle enlargement section.

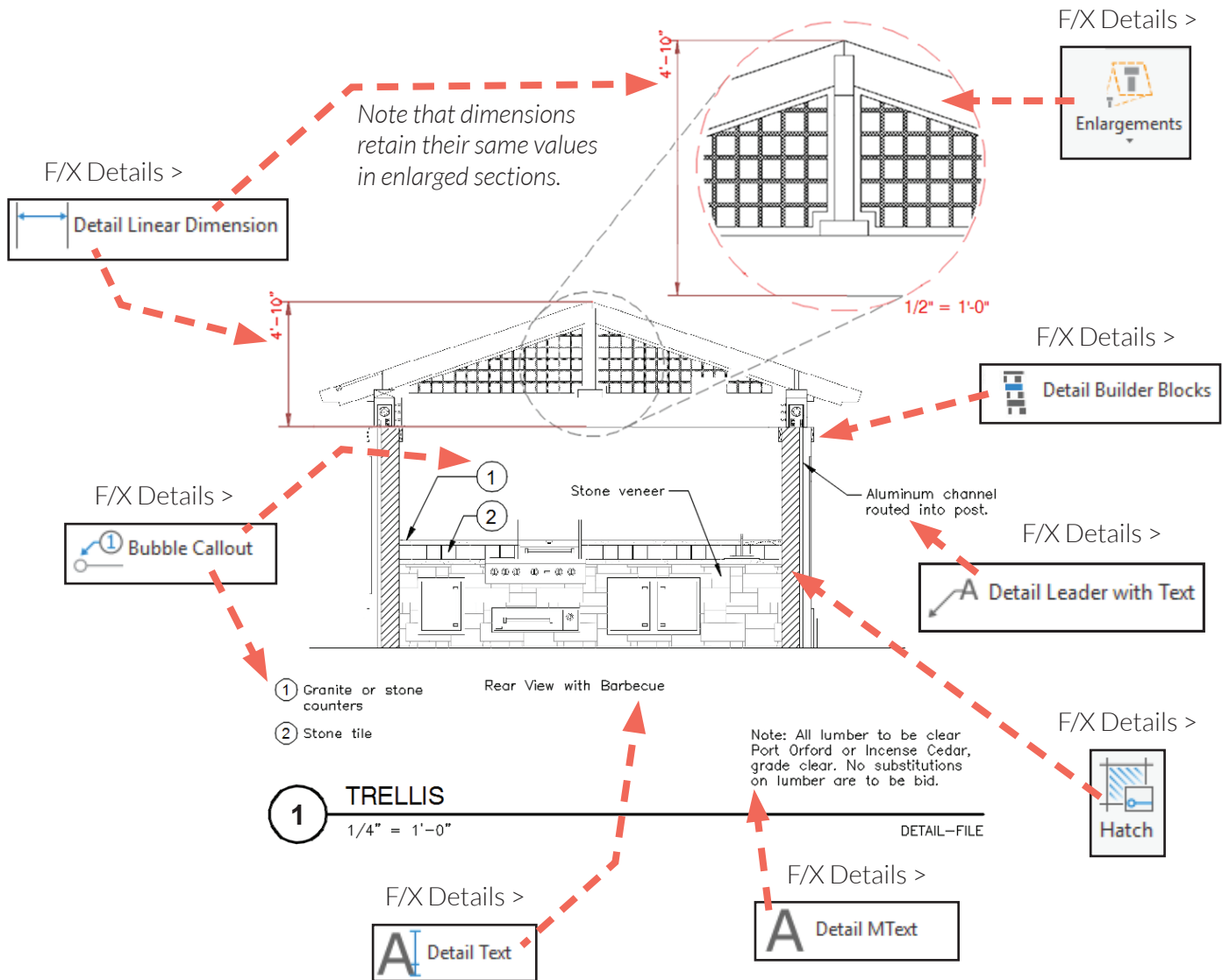


Click to place your enlargement.

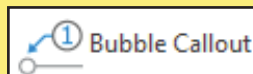
Objects in the enlarged section will retain their original dimensions, even at the new scale you select.



■ Our annotation tools make it incredibly easy to create and update your details in Model Space. You can even create callouts on the fly and instantly save them for use in future drawings. Keep the annotations with the detail they belong to, even while working on multiple details at once. We provide a level of flexibility and organization that's simply not available in your Revit model.



Detail Bubble Callouts are created on the fly for one particular detail, but you can also apply them to one more detail by simply copying the Schedule from one detail to another.



■ *Whether you're creating new details, editing your existing ones, or just saving your details into a folder structure, our **Save Detail** tool ensures they're organized, scaled, titled, and numbered correctly.*

Save your existing details into the detail hierarchy using the **Save Detail** process (shown below). It's more than just pointing to a DWG, as the system will need to know all that additional data that it couldn't possibly infer from just a DWG.

F/X Details >

Enter your detail info, then click **Save**. A detail can be referenced by multiple projects. However, when saving a detail, you can add it quickly to the project that required it.

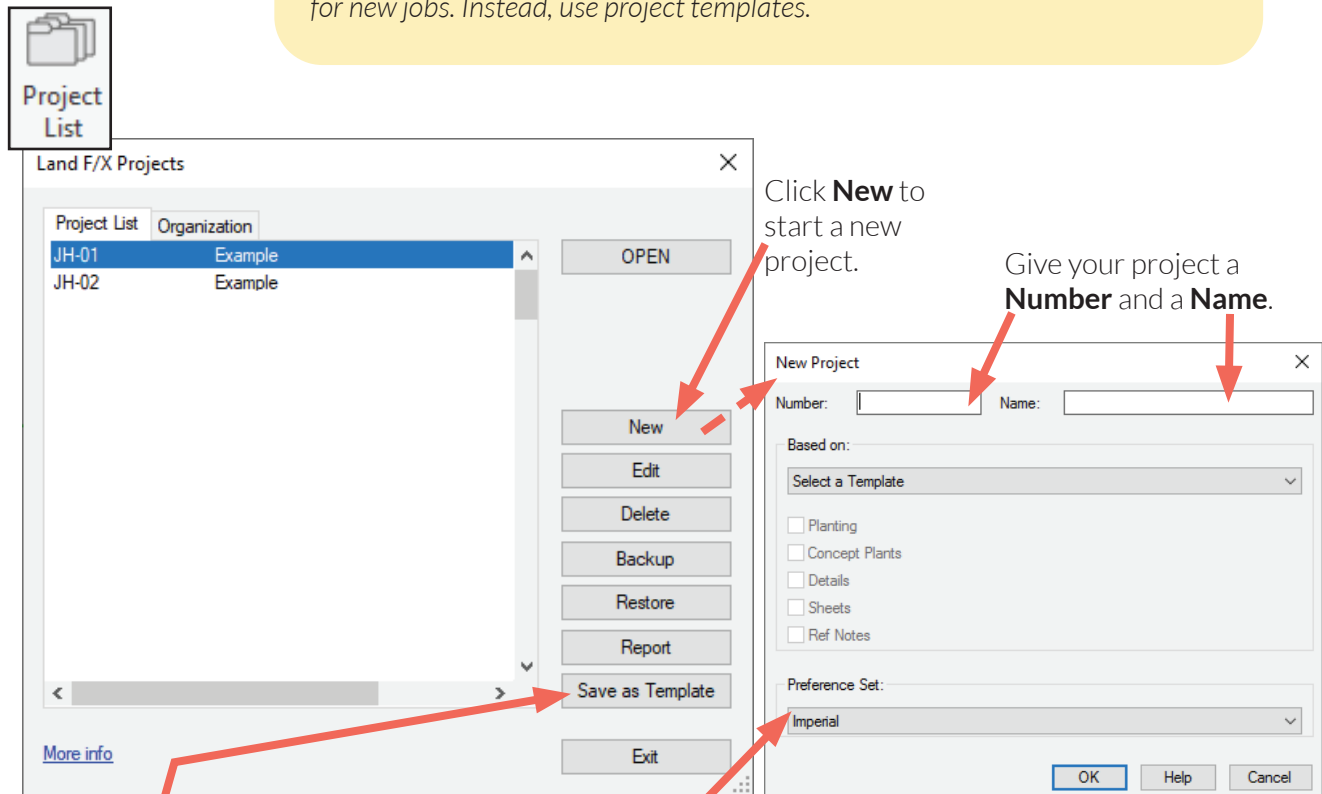


Use Standard Details for those details you find yourself needing for project after project. Take the time to save and organize your details in a system that works best for your office.

■ Your first step in using your details in a drawing is to start a new project, which will enable a connection between AutoCAD and your detail library and tools. Start a new project for each new job – the project will serve as that job's detail palette. Manage all your projects in our Projects dialog box. When you place, move, edit, and delete details, they will be updated automatically.

F/X Admin >

Important: Create a new project for each new job. **Do not** reuse projects for new jobs. Instead, use project templates.



Click **New** to start a new project.

Give your project a **Number** and a **Name**.

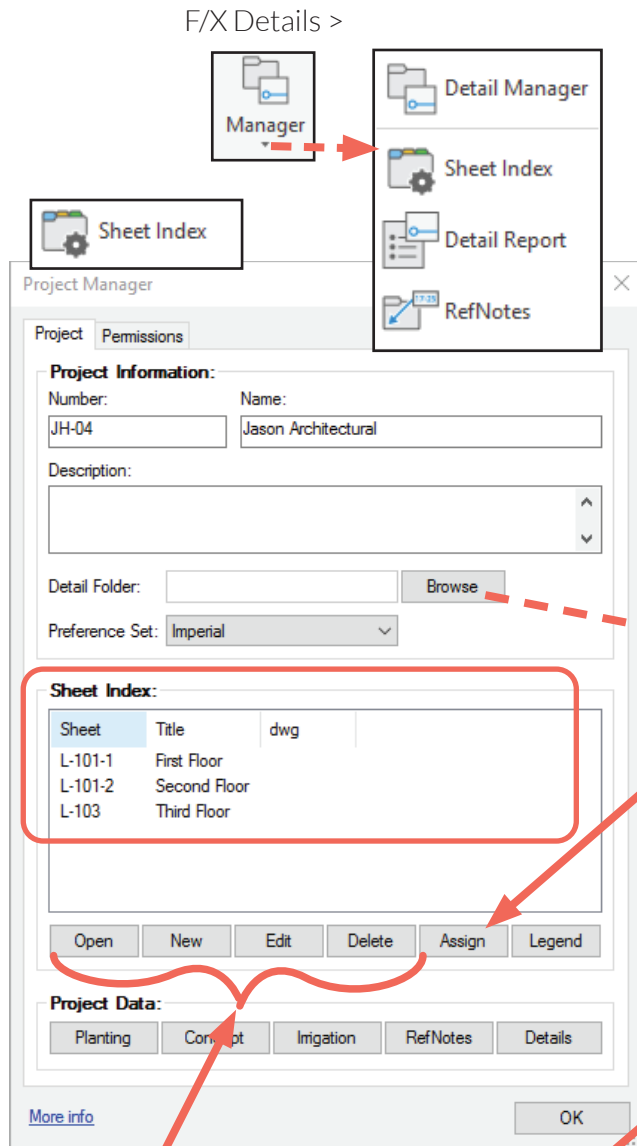
Any time a project has to follow a different set of standards, you'll need a different set of preferences, known as a Preference Set. (See Page 1.)

The **Project Number** has to be a unique number in relation to all other projects in the office. It can include up to 12 characters, and may be any combination of letters, numbers, or symbols (other than an apostrophe).

The **Project Name** is simply your office name for the project, and does not necessarily need to be unique from one project to another. (For example, you can have several "Smith Residence" projects.)

POWER TIPS Save a completed project as a template. You can then base future projects on it, copying in all details at once.

■ Our **Project Manager** dialog box includes the **Sheet Index**, where you can add to, organize, and edit the sheets associated with each **Layout** tab in your drawing. You can also use the **Project Manager** to select a folder where you'll store all details from the current project.



Open a sheet, add a **New** detail sheet, **Edit** or **Delete** a detail.

Optional: Expand a folder to view its contents by clicking the **plus (+)** sign next to it. Click **New** to add a new folder.

You can also create a separate detail folder for each job (recommended for offices with more than 5 designers, or whose details are unique per project).

See page 2 of this Guide.

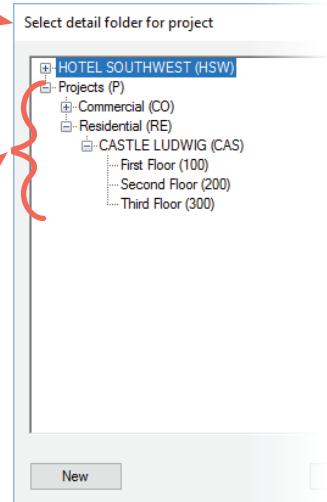
To be able to find your details when you want to use them, you'll need to store them within some sort of understandable hierarchy. That's where your detail folders come in.

Clicking **Sheet Index** opens the **Project Manager** for the current Land F/X project. Click **Browse** to set the **Detail Folder** for your project.



The **Sheet Index** will automatically read in a **Sheet Set** assignment (if you have created one).

Quickly **Assign** a detail sheet to a layout tab.



Take the time to set a detail folder that works for you, and feel confident that your project details are stored logically according to your needs.

■ We make it incredibly easy to place your details across any number of sheets, and any number of DWG files. Plus it's all managed by our Detail Manager – an intuitive interface that keeps your details organized like a champ!

F/X Details >

Manager

Detail Manager

Sheet Index

Detail Report

RefNotes

Search for a detail you've added to your project.

Refresh your list of details in the current project to reflect recent changes.

Renumber your details.

List of details you've added to your project

Add a photo to a detail.

View your project details **By Sheet** (pictured) or **By Number**.

List of details you've placed in the current drawing

Edit or **Delete** details you've added to your project.

Add **New** details from **Detail Explorer**

Place details on sheets in Paper Space.

Click to see a preview of the selected detail.

Import details from other projects

DETAIL MANAGER

Project Details:

Search:

☒ By Sheet ☐ By Number

P-CO-MMM-FLY-01 MERCHANDISE RACK

P-CO-MMM-FOOD-01 TYPICAL FOOD DISPLAY CASE

P-CO-MMM-SCH-01 UFO MOUNTING RACK

Placed Details

1/L-101-1 MASONRY WALL

New Edit Delete Import Replace Preview >

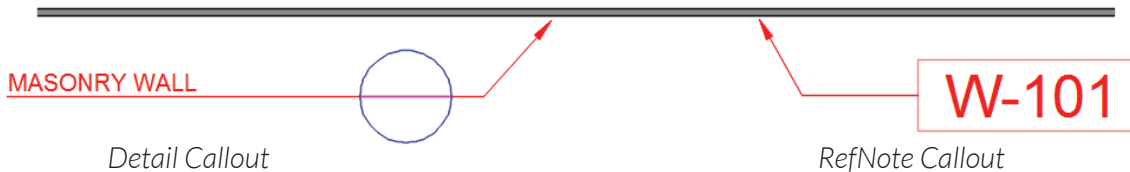
Place Callout Report Help

Detail Preview

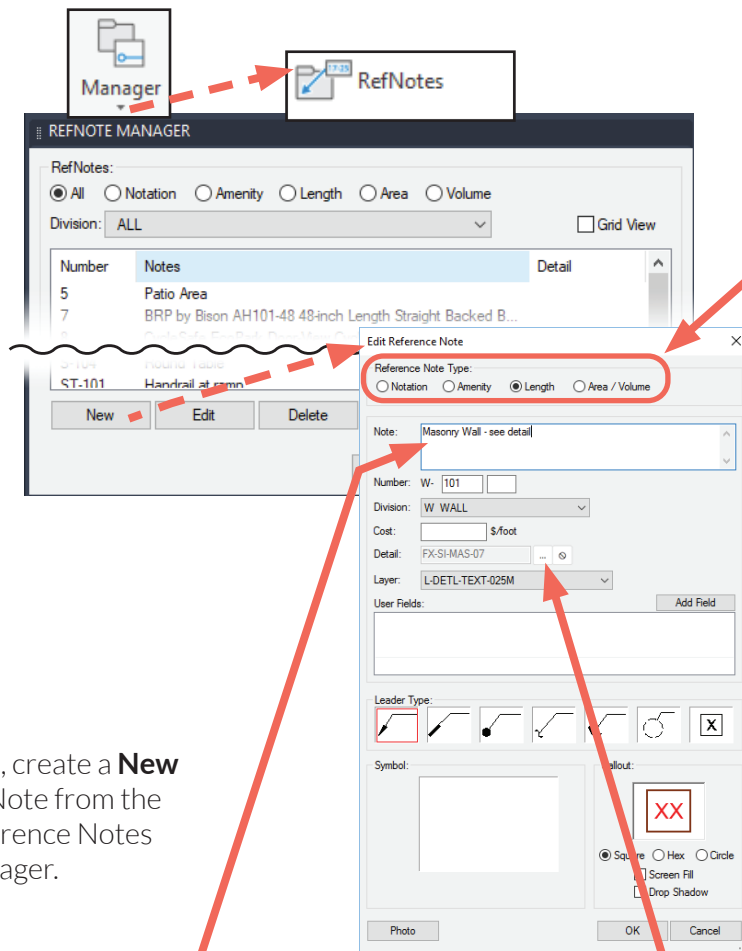


Place details on multiple sheets and in multiple drawing files. All detail references in the entire project will be updated.

■ Our Reference Notes (RefNotes) feature provides a flexible way to call out or calculate any object in your drawing. RefNotes also work great with details, giving you a way to list your details in a schedule (see next page). They also provide a slimmer callout style for multiple references to a detail.



F/X Details >



Note: Our Reference Notes tool requires a Planting F/X license.

Choose from four types of RefNotes. Select the type that suits your needs for the detail you need to catalog:

- **Notation:** Place a callout that refers to a text notation in your drawing.
- **Amenity:** Place an object represented by a block.
- **Length:** Call out and calculate the length of an object such as a wall.
- **Area/Volume:** Place an object or material measured in area or volume (such as flooring or paving materials) and represented by a hatch.

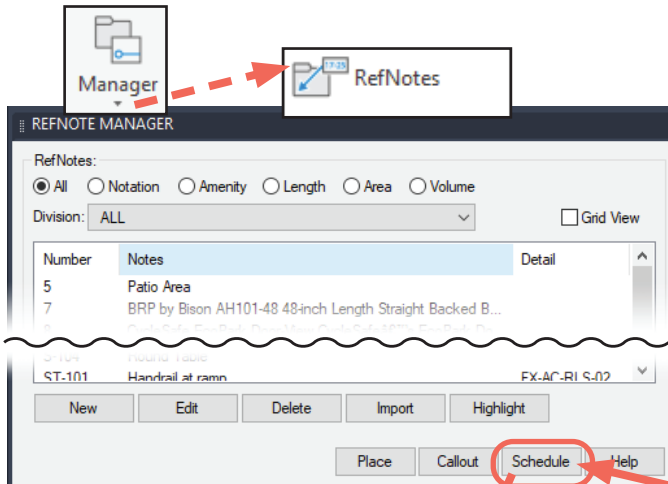
First, create a **New** RefNote from the Reference Notes Manager.

Add any necessary information, including a note in the **Notes** field. Because your RefNote will be referring to one of your details, simply end the note with something to the effect of "See detail."

Click the ... (**Set Detail**) button to associate the new RefNote with one of your details. You'll be brought to the Detail Manager, where you can select the detail.

■ Once you've associated a detail with a Reference Note and placed it in your drawing, you can list that detail in the Reference Notes Schedule. It's a great way to catalog all the details you've used in a particular job.

F/X Details >



Click the **Schedule** button in the Reference Notes Manager to begin configuring your schedule.

Send the schedule directly to your **Drawing**, to your drawing in **Table** format, or to a **Spreadsheet** for further editing.

Make sure to select the option to **Include Detail**.

If you want, you can also include a **Quantity** and/or **Cost** for each detail.

REFERENCE NOTES SCHEDULE

2017-02-08 11:58			
SYMBOL	STAIRS DESCRIPTION	QTY	DETAIL
ST-101	Handrail at ramp	4	1/ST-101
ST-102	Stair pipe handrail	4	2/ST-101
ST-103	Stair pipe handrail requirements	4	4/IR-101

Click **OK**, then click to place the schedule in your drawing (or in a spreadsheet, if you selected that option).

The schedule will include a **Symbol** and **Description** for each detail, as well as the detail number in the **Detail** column.

In this example, we've also opted to include a quantity (**QTY**) of each detail as used in the drawing.

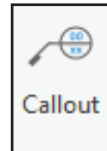
■ Our software offers multiple types of detail callouts that can be used to expedite the drafting process. You can also use “callout placeholders” to assign to details later. That way, if you’re unsure of which detail to use, you can always associate it later in the design process.

F/X Details >



Place a “dummy” callout on the fly, and assign it to a detail later.

F/X Details >



Place a detail callout when you know the exact detail you want to reference.

F/X Details >



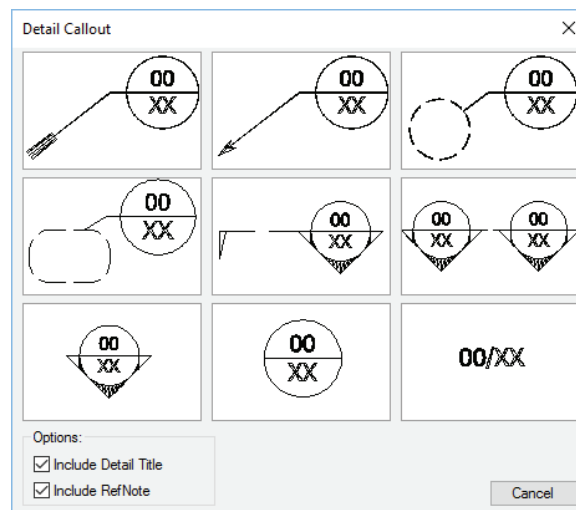
Adapt your “dummy” callouts once you’ve determined your detail placement.

F/X Details >



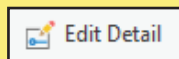
Callouts update automatically when you open a file. Want to update more often? Click me.

When placing a detail callout, *right-click* anywhere in your drawing to open this dialog box and select from a variety of callout styles.

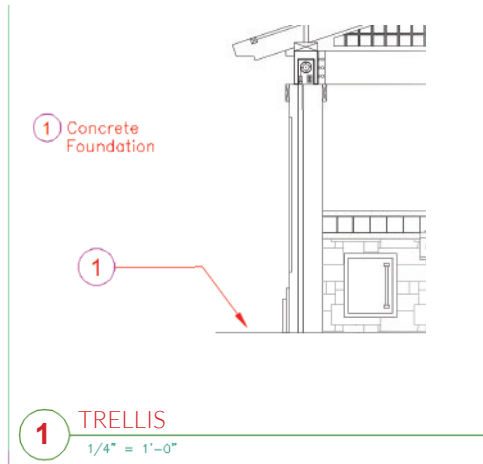


Place **Detail Callouts** within details, even as plain text. Callouts in a detail are filled out and updated automatically each time that detail is placed in a drawing!

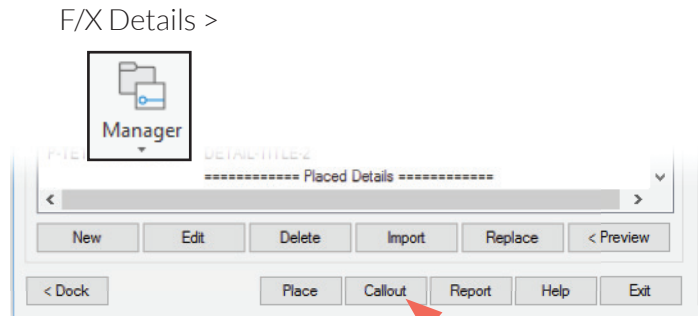
F/X Details >



■ *Design F/X includes multiple types of detail callouts that can be used to expedite the drafting process. You can also use “callout placeholders” to assign details later. That way, if you’re unsure of which detail to use, you can always associate it later in the design process.*

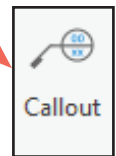


Place detail callouts inside a detail in a sheet, Model Space, or Paper Space.

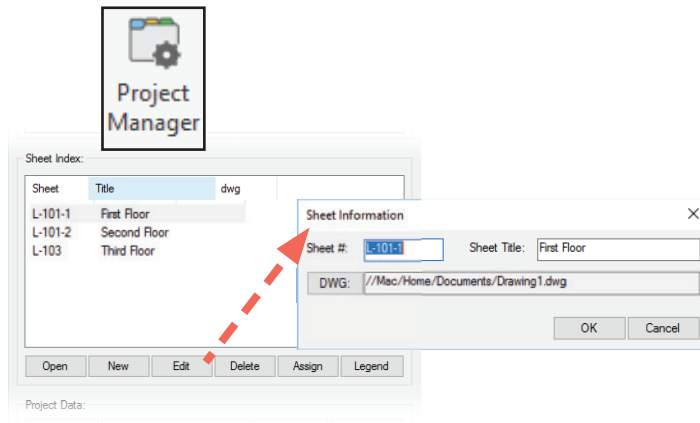


Place a detail callout by clicking the **Callout** button in the Detail Manager, or the **Callout** button on the **F/X Details** ribbon.

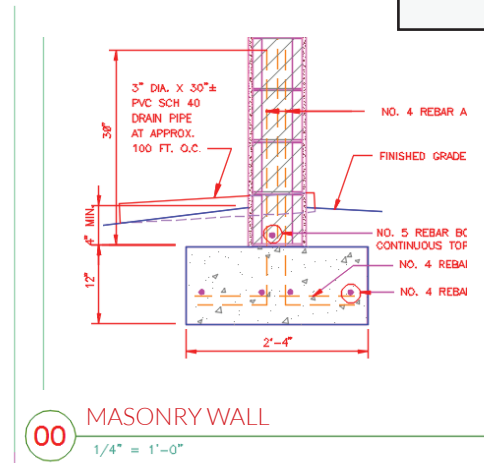
F/X Details >



F/X Admin >

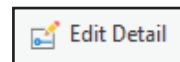


Quickly edit a detail’s sheet information using the Sheet Index, located in the Project Manager.



MASONRY WALL

F/X Details >

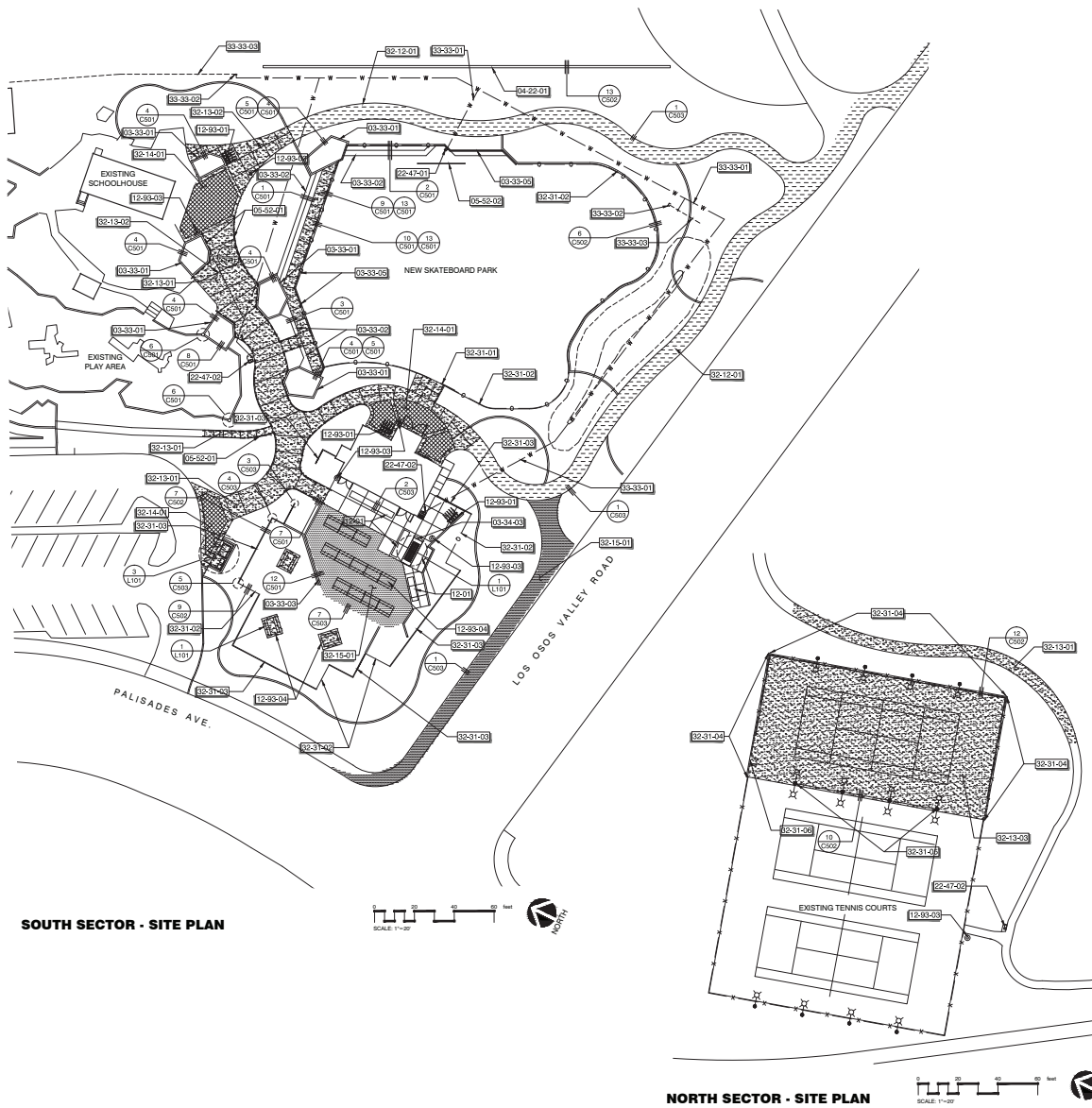


To edit any detail on the fly, open our **Edit Detail** tool, then click a callout referring to that detail. The source drawing for that detail will open, allowing you to make and save any edits.


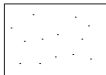




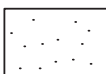




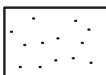














Need to change a detail’s sheet number? No problem! That detail’s callouts will update to reflect the new sheet number. When you open a DWG that contains the callouts, they’ll update automatically. Or you can update them manually by clicking **Update**.

Design F/X Pen Color & Weight Standards	17
Layer Colors & Lineweights	18











SOLID LINE COLORS

Color	Description	Line Sample	Dot & Box Sample
013M - Extra Fine (0.13mm)			
8	Gray		
13	Lt. Brown		
150	Lt. Blue		
191	Lt. Lavender		
025M - Fine (0.25mm)			
1	Red		
4	Cyan		
7	White (Black)		
15	Brown		
035M - Medium (0.35mm)			
6	Magenta		
11	Lt. Red		
32	Brown		
123	Teal		
050M - Broad (0.50mm)			
3	Green		
5	Blue		
52	Olive Green		
070M - Extra Broad (0.70mm)			
30	Orange		
74	Dull Green		
100M - Wide (1.00mm)			
40	Dk. Yellow		

SCREENED LINE COLORS

SMXX - Medium (0.35mm)

255	0%	
254	10%	
253	20%	
252	30%	
251	40%	
250	50%	
249	60%	
133	0%	

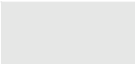







SBXX - Broad (0.50mm)

141	20%	
140	30%	
142	40%	
152	50%	
154	60%	

SWXX - Wide (1.00mm)

202	40%	
220	50%	

SCREENED SOLID FILL HATCH

		
0% 255	10% 254	20% 253
		
30% 252	40% 251	50% 250
		
60% 249	0% 133	

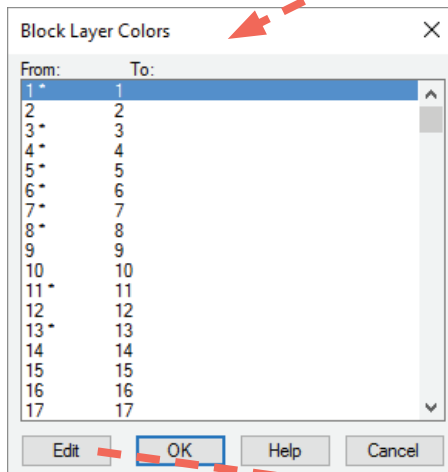
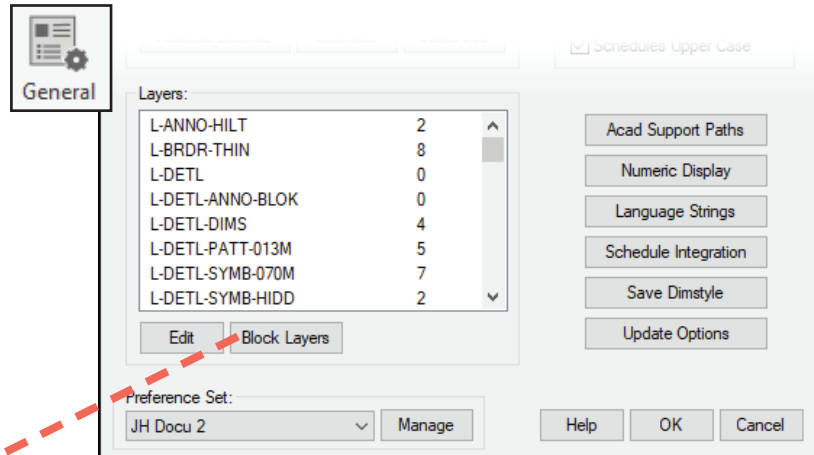
SCREENED NON-PLOT COLOR

Screening set to 0%

111	Lt. Teal
211	Lt. Pink

- Control the appearance of your drawing down to the layer, and change the default Design F/X colors to match your office standard.

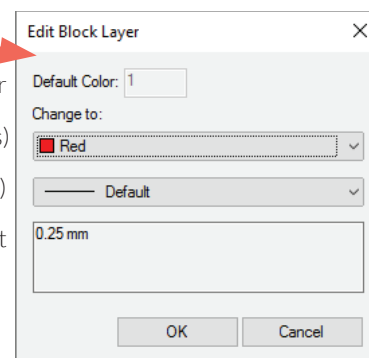
F/X Admin >



The **Block Layer Colors** dialog box lists the 255 colors used by AutoCAD as index colors for plotting. Each color used by Design F/X is followed by an asterisk (*).

Go to each color used by Design F/X that conflicts with your office standards. Click **Edit** to change it to meet your standards. You can ignore any colors your company doesn't use.

The **Edit Block Layer** dialog box:



Design F/X default layer color
Color in your CTB that plots to the selected lineweight (thickness)
Optional lineweight (STB printing)
Block layer description/lineweight

Create the **Plot File**: Edit your CTB file to account for some additional colors, or just edit the **LFX.ctb** file. Visit www.LandFX.com/docs for instructions on saving your plot style.

Notes

Use this page to take notes as you learn the software.

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