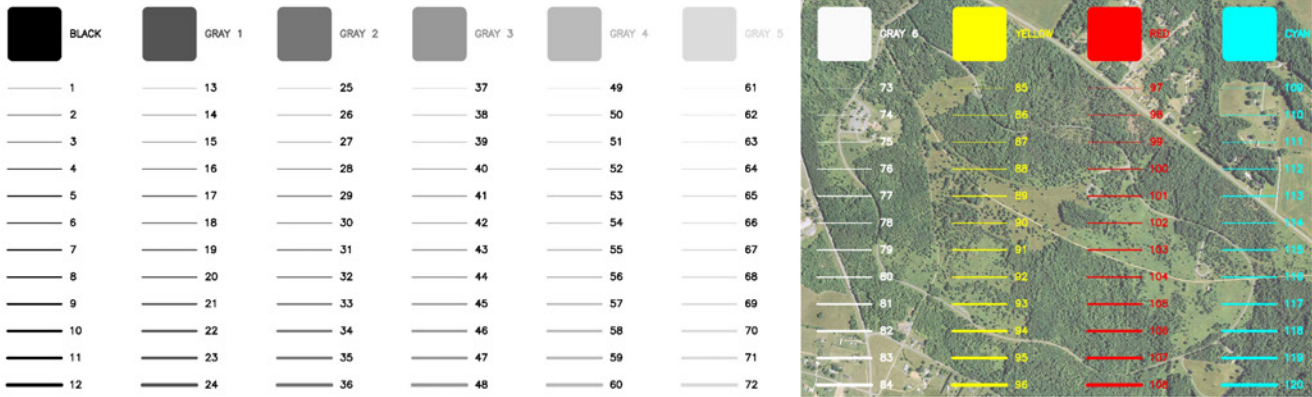
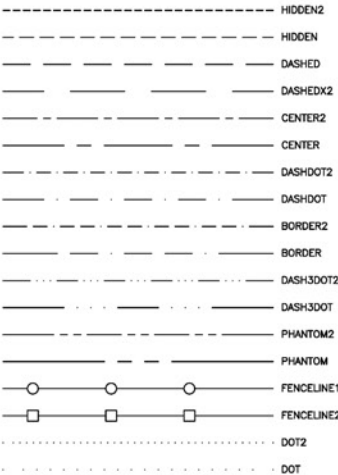


# CED CAD Standards Synopsis

## CED STANDARD LINEWEIGHTS AND SCREENING



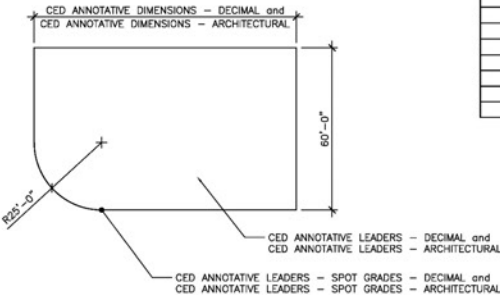
## CED STANDARD LINETYPES



## CED STANDARD TEXT AND DIMENSIONS

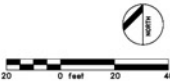
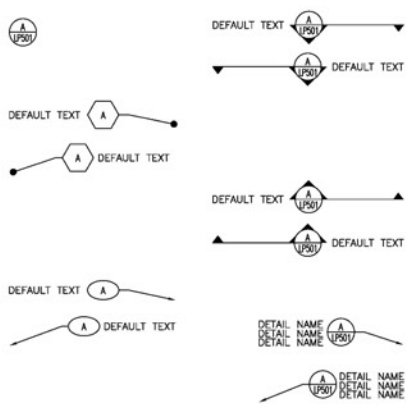
ROMANS.SHX IS THE STANDARD FONT, AND IS DEFINED BY THE TEXT STYLE "CED ANNOTATIVE TEXT - DECIMAL" AND "CED ANNOTATIVE TEXT - ARCHITECTURAL" DEPENDING ON TEMPLATE CHOSEN. 0123456789 \_-!@#\$%^&\*()<>[]|}

ROMAND.SHX IS THE TITLEBLOCK FONT, AND IS DEFINED BY THE TEXT STYLE "CED TITLEBLOCK" IN BOTH TEMPLATES. 0123456789 \_-!@#\$%^&\*()<>[]|}



ARCHITECTURAL SCALE FACTORS	
$\frac{1}{8}''=1'-0''$	3072
$\frac{1}{16}''=1'-0''$	1536
$\frac{1}{32}''=1'-0''$	768
$\frac{1}{64}''=1'-0''$	384
$\frac{1}{128}''=1'-0''$	192
$\frac{1}{256}''=1'-0''$	96
$\frac{1}{512}''=1'-0''$	48
$\frac{1}{1024}''=1'-0''$	24
$\frac{1}{2048}''=1'-0''$	12
$\frac{1}{4096}''=1'-0''$	6
$\frac{1}{8192}''=1'-0''$	3
$\frac{1}{16384}''=1'-0''$	2

## CED STANDARD CALLOUTS



CED / UGA

COLLEGE OF ENVIRONMENT AND DESIGN  
CAD STANDARDS

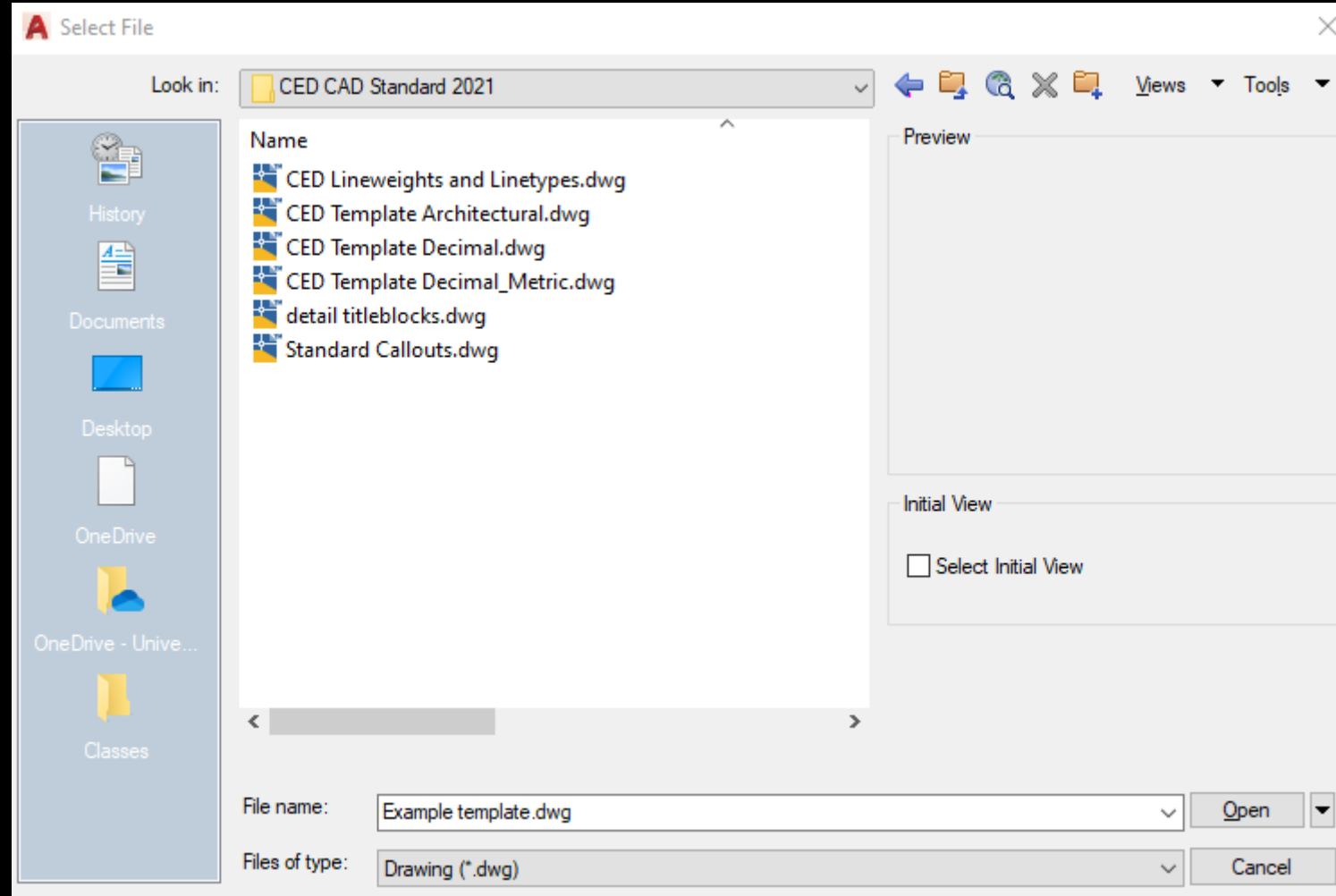
NO.	NOTES	DATE

DRAWN: TJ  
DATE: 8/24/2014  
SCALE: 1"=20'

SHEET TITLE:  
STANDARD LINE WEIGHTS,  
LINE TYPES, TEXT STYLES,  
DIMENSION STYLES, AND  
GENERAL EXAMPLES

SHEET NUMBER:  
1

# Templates and included CAD files

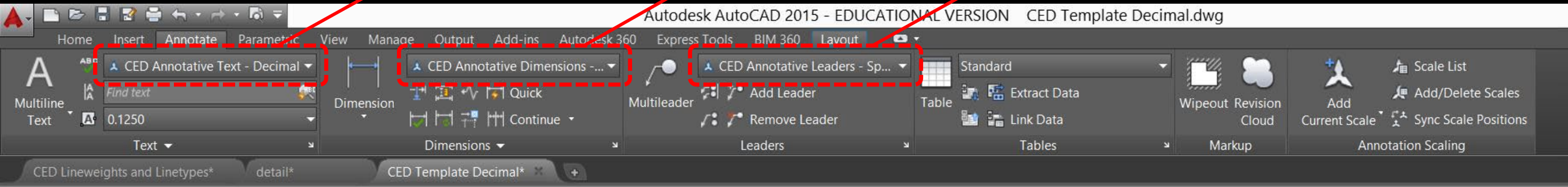


# Text Styles

Text Styles

Dimension Styles

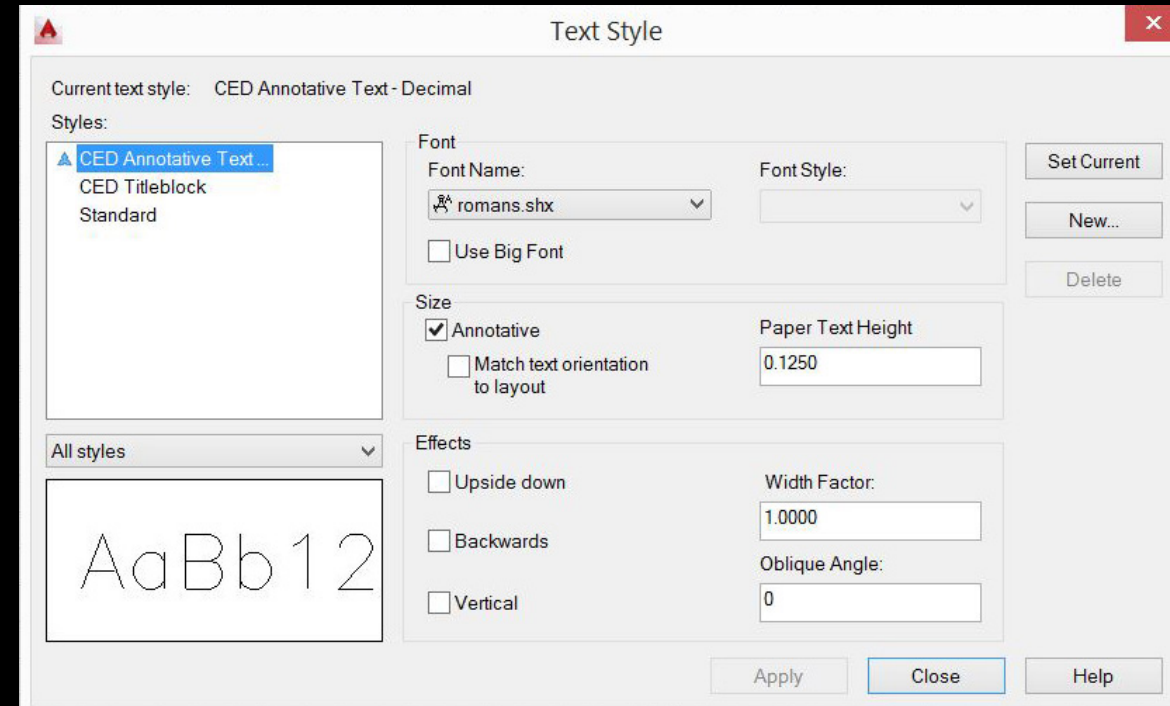
Multi-leader Styles



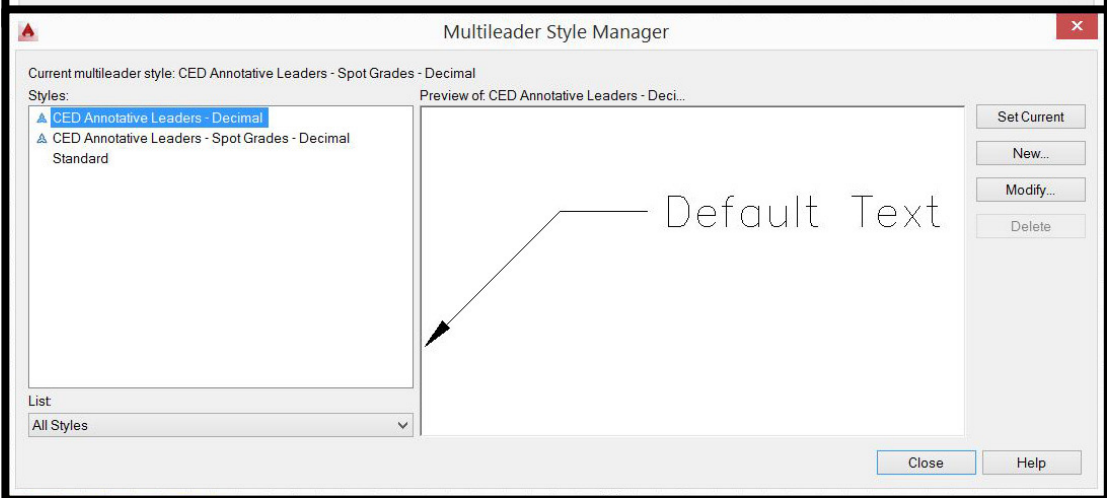
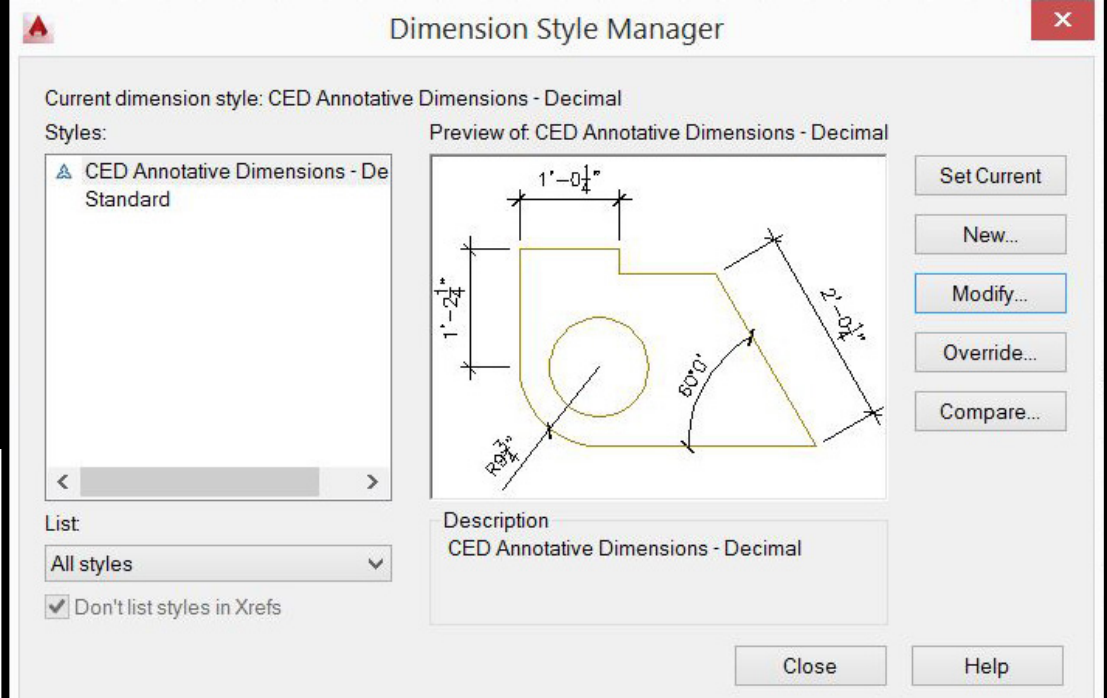
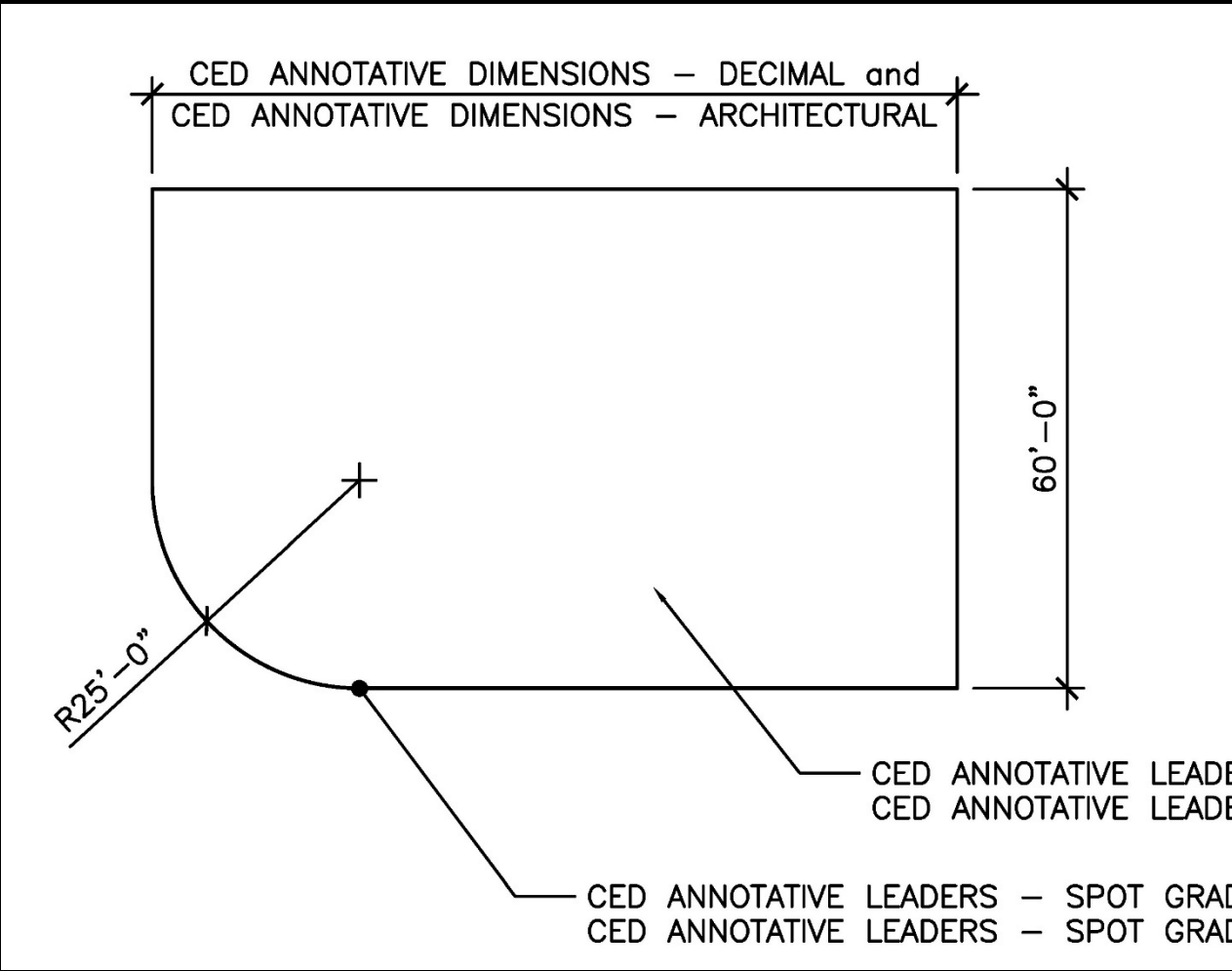
## CED STANDARD TEXT AND DIMENSIONS

ROMANS.SHX IS THE STANDARD FONT, AND IS DEFINED BY THE TEXT STYLE "CED ANNOTATIVE TEXT – DECIMAL" AND "CED ANNOTATIVE TEXT – ARCHITECTURAL" DEPENDING ON TEMPLATE CHOSEN. 0123456789 \_-!@#\$\$%^&\*()<>[]{}

ROMAND.SHX IS THE TITLEBLOCK FONT, AND IS DEFINED BY THE TEXT STYLE "CED TITLEBLOCK" IN BOTH TEMPLATES. 0123456789 \_-!@#\$\$%^&\*()<>[]{}



# Dimension / Multi-leader Styles



# Titleblocks

Logo in block as CAD entities

All titleblock text information included  
as editable attributes of the block:

Student Information

Project Information

Revision / Issue box

Drawn / Date / Scale box

Sheet Title

Sheet Number

North arrow is a separate block

Scale is a separate block,  
with editable attributes

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**GEORGIA**  
College of  
Environment + Design

STUDENT NAME  
STUDENT INFORMATION

PROJECT NAME  
PROJECT INFORMATION  
PROFESSOR  
CLASS  
INFORMATION

REV	DESCRIPTION	DATE
1	SCHEMATIC DESIGN	04/24/14

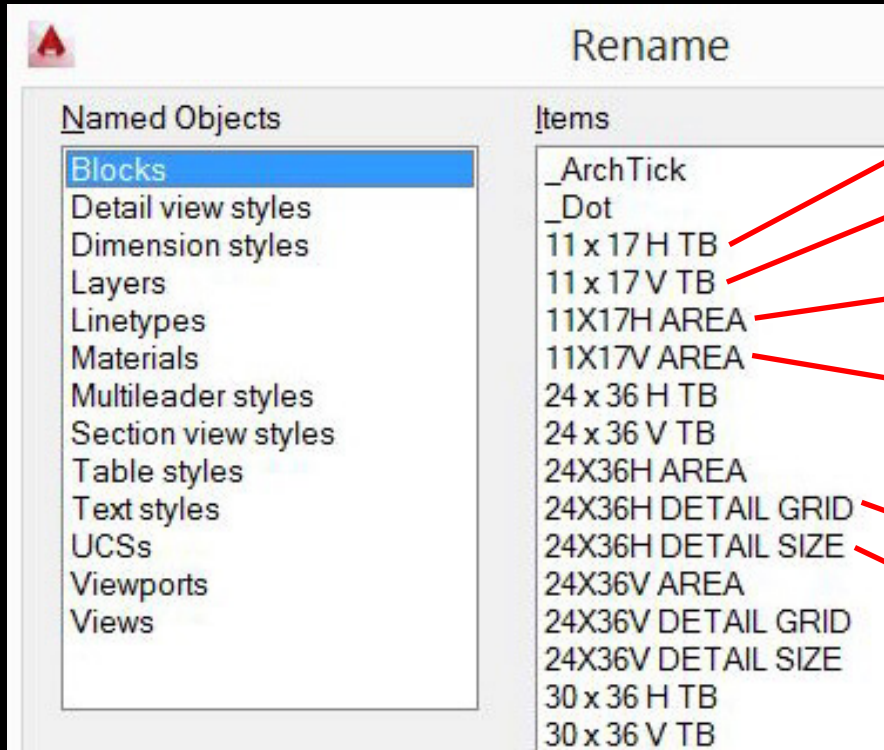
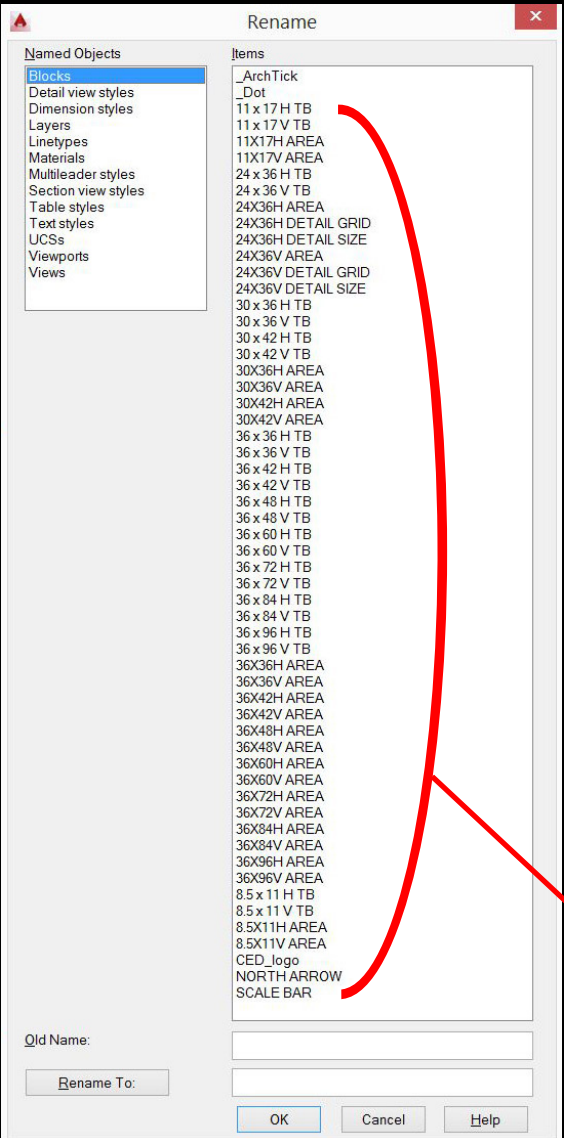
DRAWN: TJ  
DATE: 05/24/2014  
SCALE: 1"=20'

SHEET TITLE:  
SITE PLAN  
MAIN  
ENTRANCE

SHEET NUMBER:  
L-101



# Blocks



11x17 horizontally-oriented titleblock

11x17 vertically-oriented titleblock

Plot area (use to create a saved view) for 11x17 horizontally-oriented titleblock

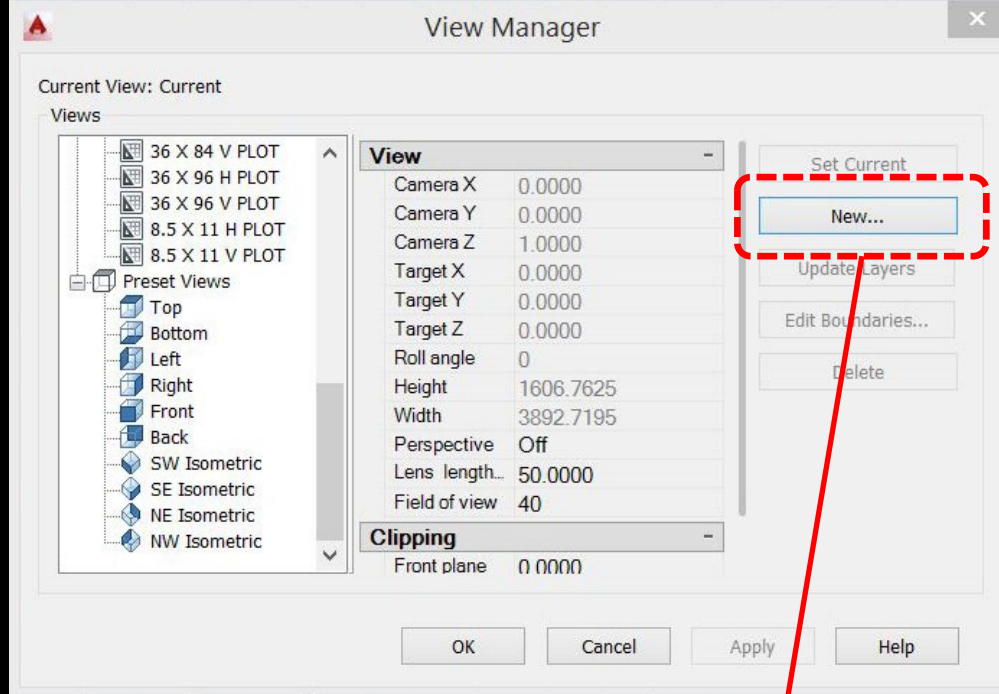
Plot area (use to create a saved view) for 11x17 vertically-oriented titleblock

Grid to aid in laying out details on a sheet

Detail size, corresponds to detail grid

Standard blocks included in CED Templates

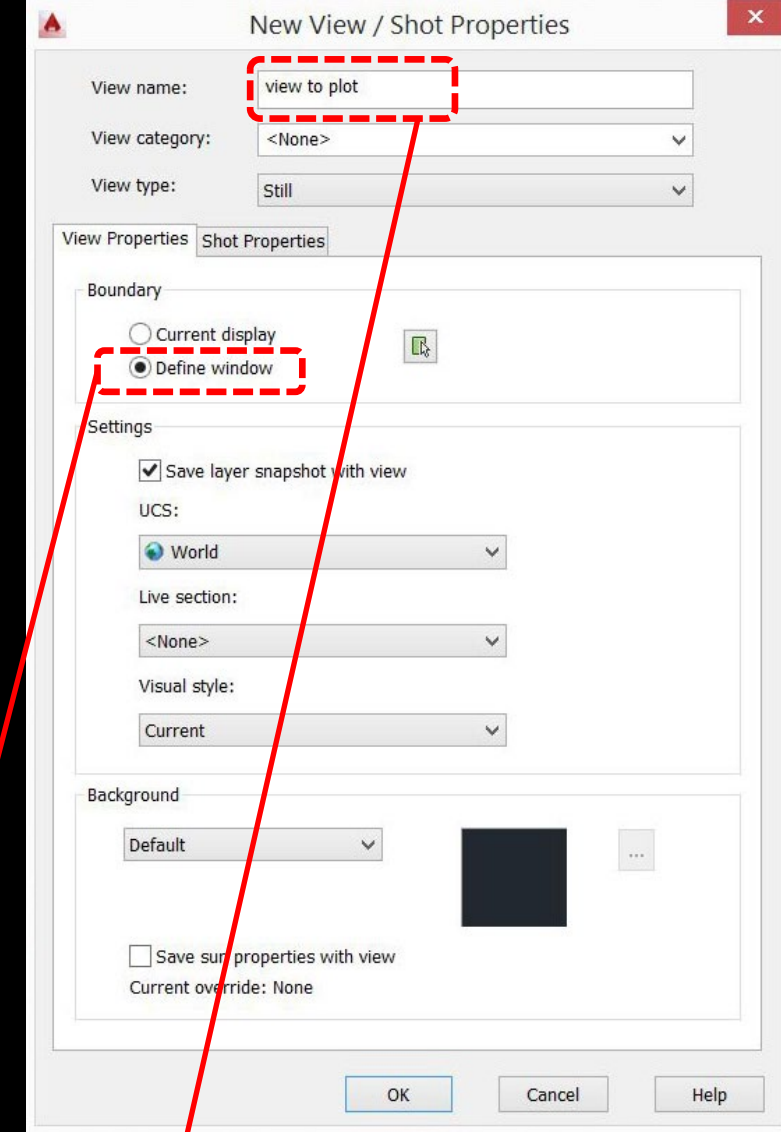
# Viewport Sizes Plot Views



Create a new view...

...by picking a window using the  
viewport size block corners...

...and giving it a unique name that  
will be used in the page setup.



# Plot Views

Set view current  
in viewport

Current

Model Views

view to plot

Layout Views

11 X 17 H PLOT

11 X 17 V PLOT

24 X 36 H PLOT

24 X 36 V PLOT

30 X 36 H PLOT

30 X 36 V PLOT

30 X 42 H PLOT

30 X 42 V PLOT

36 X 36 H PLOT

36 X 36 V PLOT

36 X 42 H PLOT

36 X 42 V PLOT

36 X 48 H PLOT

General

Name

view to plot

Category

<None>

UCS

World

Layer snaps...

Yes

Annotation...

1:20

Visual Style

2D Wireframe

Background...

<None>

Live Section

<None>

Animation

View type

Still

Transition ty...

Fade from black in...

Transition d...

1.0000

Playback du...

0.5000

View

Set Current

New...

Update Layers

Edit Boundaries...

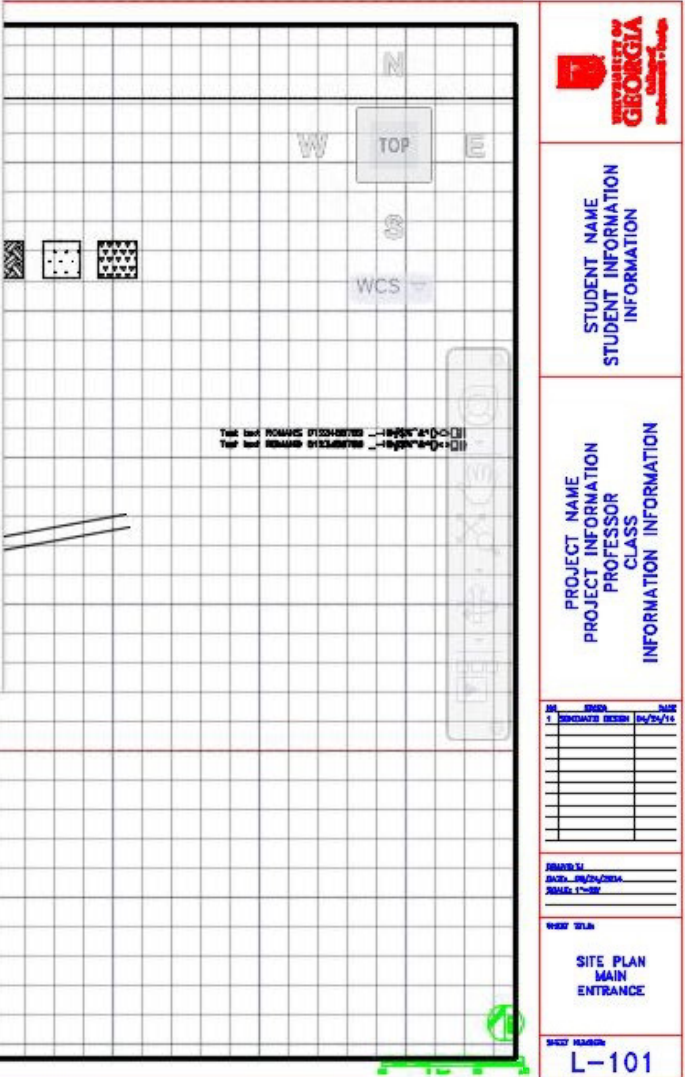
Delete

OK

Cancel

Apply

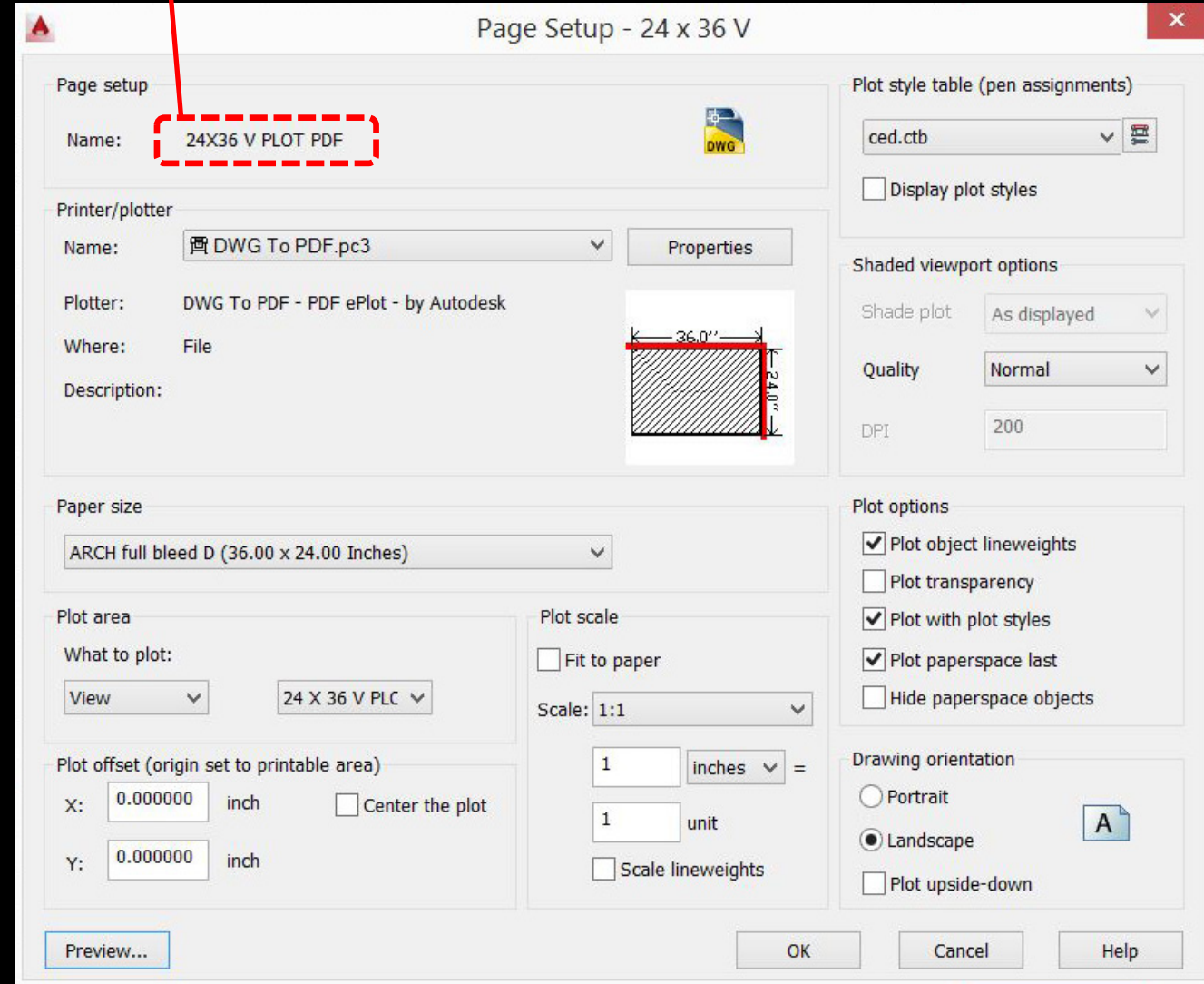
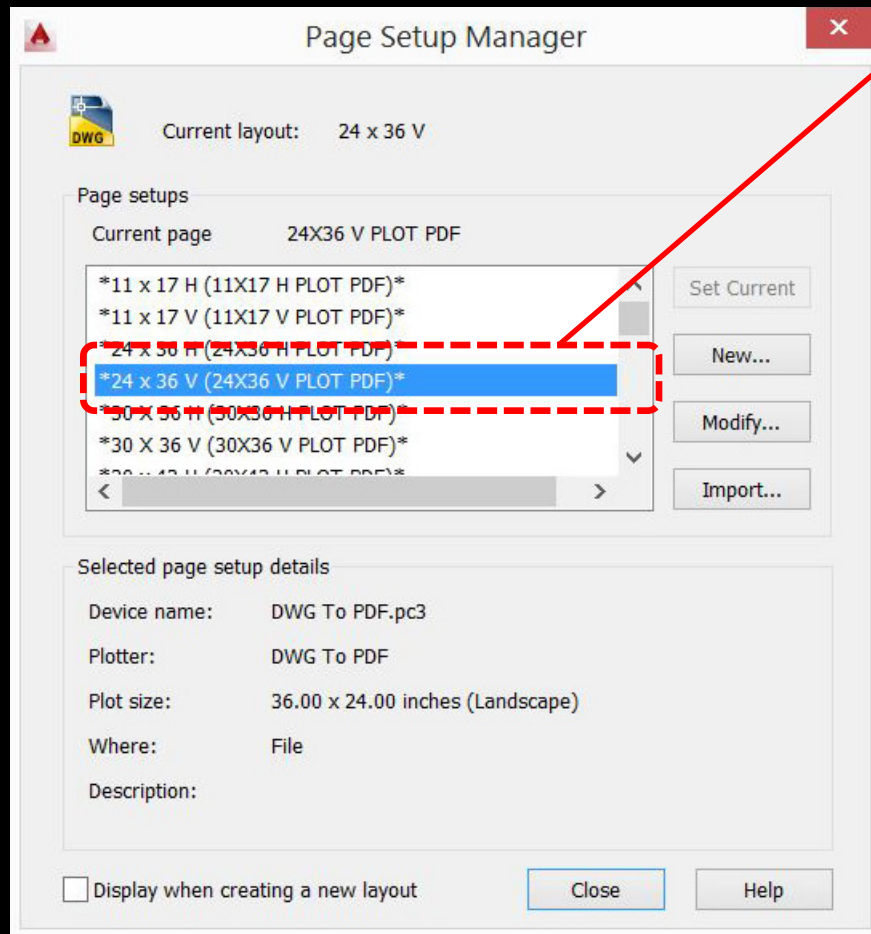
Help





# Page Setups

Named page setups for all sheet sizes and titleblock orientations in template

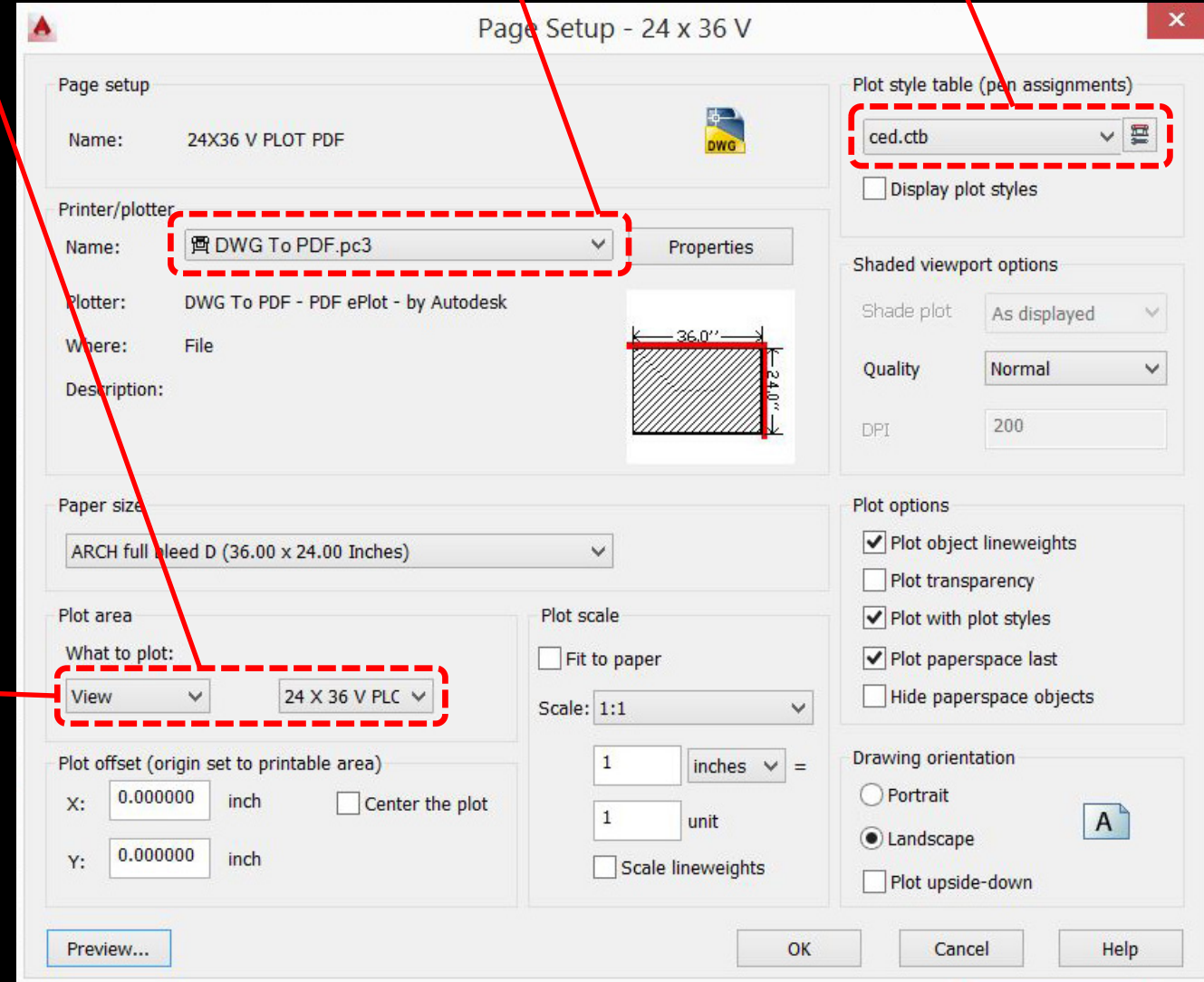
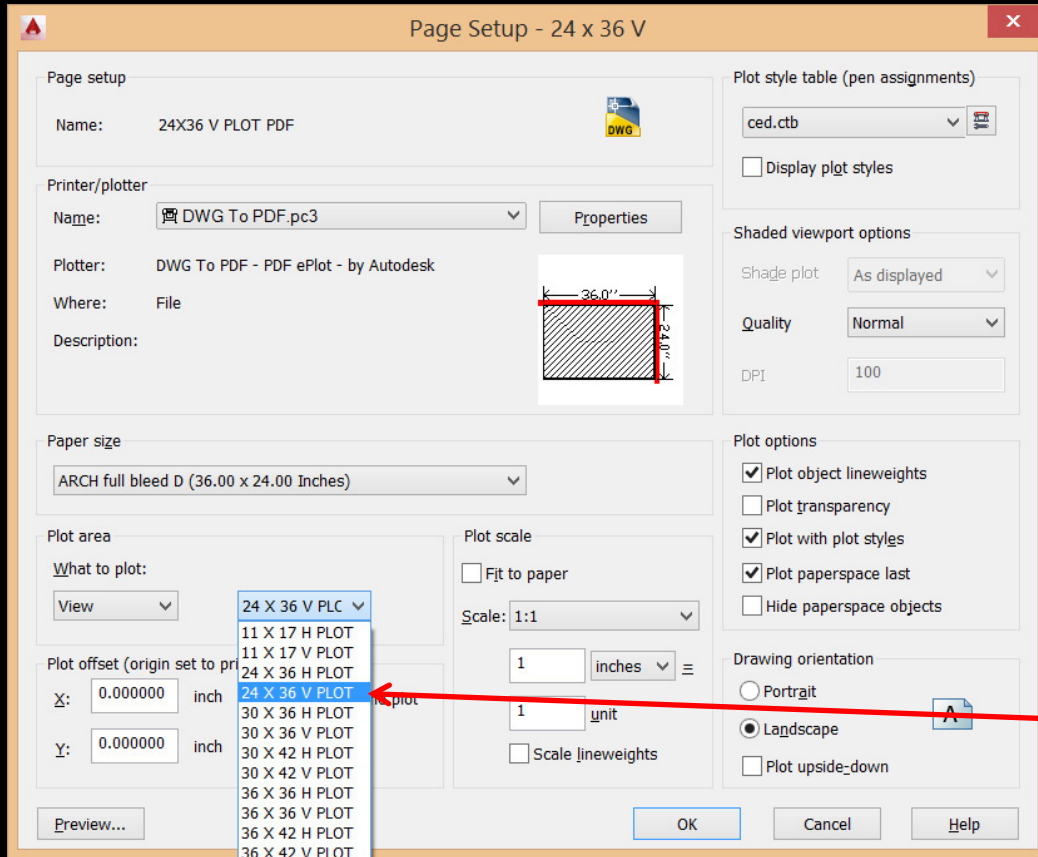


# Page Setups

Set plot area to View, use  
named view that matches  
sheet orientation

CED standard plotter  
(DWG to PDF.pmp;  
DWG to PDF.pc3)

CED standard plot  
style table  
(CED.ctb)





# CTB file

Sequence of 12 lineweights repeats...

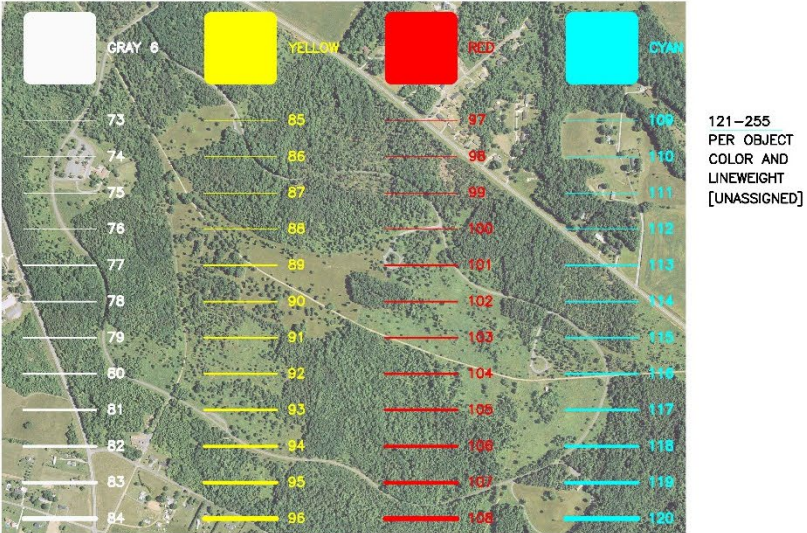
Plot Style Table Editor - ced.ctb

General Table View Form View

Name	Color 1	Color 2	Color 3	Color 4	Color 5	Color 6	Color 7	Color 8	Color 9	Color 10	Color 11	Color 12	Color 13	Color 14	Color 15
Description	Description_1	Description_2	Description_3	Description_4	Description_5	Description_6	Description_7	Description_8	Description_9	Description_10	Description_11	Description_12	Description_13	Description_14	Description_15
Color	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	Black	84,84,84	84,84,84	84,84,84
Enable dithering	On	On	On	On	On	On	On	On	On	On	On	On	On	On	On
Convert to grayscale	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Use assigned pen #	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Virtual pen #	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Screening	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Linetype	Use object linetype	Use object linetype	Use object linetype	Use object linetype	Use object linetype	Use object linetype	Use object linetype	Use object linetype	Use object linetype	Use object linetype	Use object linetype	Use object linetype	Use object linetype	Use object linetype	Use object linetype
Adaptive adjustment	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off	Off
Lineweight	0.0508 mm	0.1778 mm	0.2794 mm	0.3810 mm	0.5080 mm	0.5588 mm	0.6096 mm	0.7112 mm	0.7874 mm	0.9906 mm	1.1938 mm	1.5748 mm	0.0508 mm	0.1778 mm	0.2794 mm
Line End Style	Use object end style	Use object end style	Use object end style	Use object end style	Use object end style	Use object end style	Use object end style	Use object end style	Use object end style	Use object end style	Use object end style	Use object end style	Use object end style	Use object end style	Use object end style
Line Join style	Use object join style	Use object join style	Use object join style	Use object join style	Use object join style	Use object join style	Use object join style	Use object join style	Use object join style	Use object join style	Use object join style	Use object join style	Use object join style	Use object join style	Use object join style
Fill Style	Use object fill style	Use object fill style	Use object fill style	Use object fill style	Use object fill style	Use object fill style	Use object fill style	Use object fill style	Use object fill style	Use object fill style	Use object fill style	Use object fill style	Use object fill style	Use object fill style	Use object fill style

## CED STANDARD LINEWEIGHTS AND SCREENING

BLACK	GRAY 1	GRAY 2	GRAY 3	GRAY 4	GRAY 5
1	13	25	37	49	61
2	14	26	38	50	62
3	15	27	39	51	63
4	16	28	40	52	64
5	17	29	41	53	65
6	18	30	42	54	66
7	19	31	43	55	67
8	20	32	44	56	68
9	21	33	45	57	69
10	22	34	46	58	70
11	23	35	47	59	71
12	24	36	48	60	72

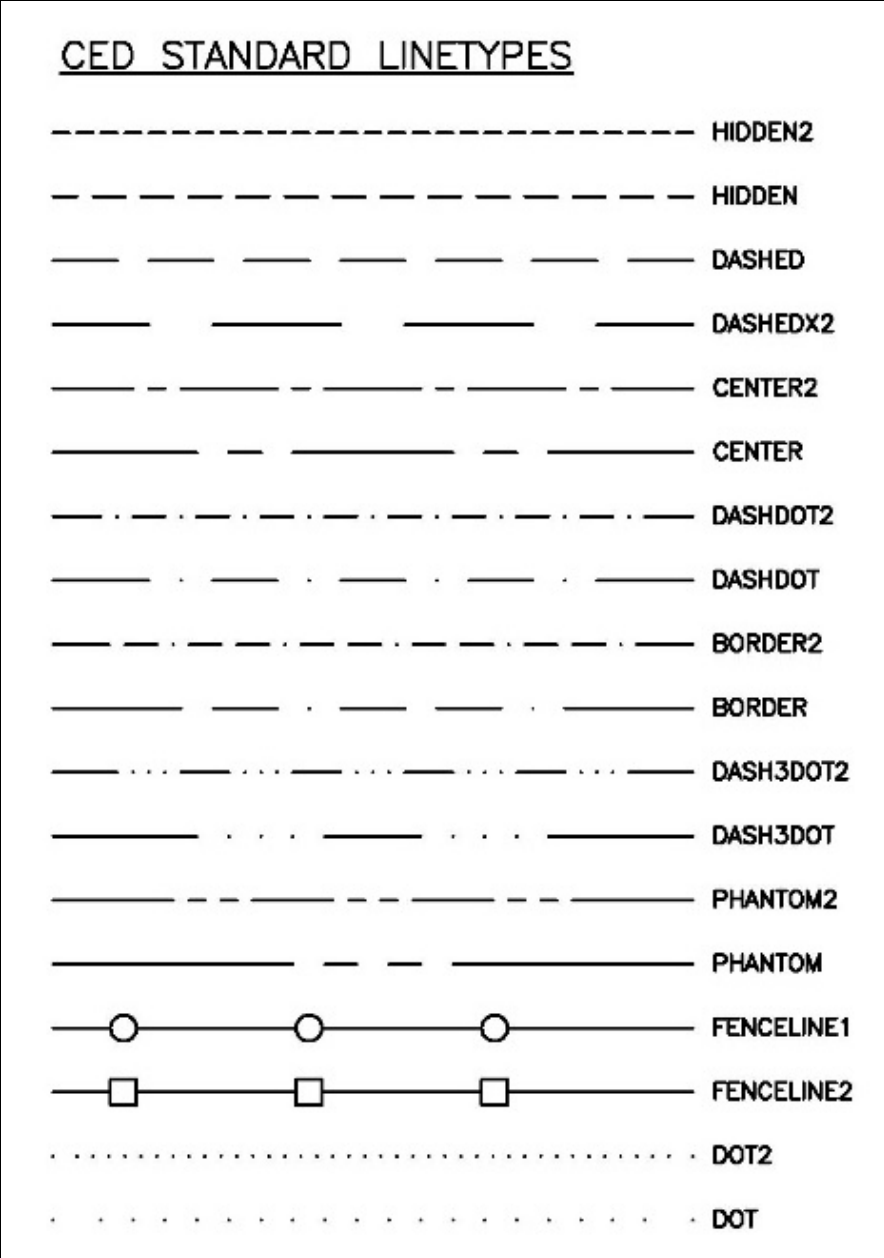
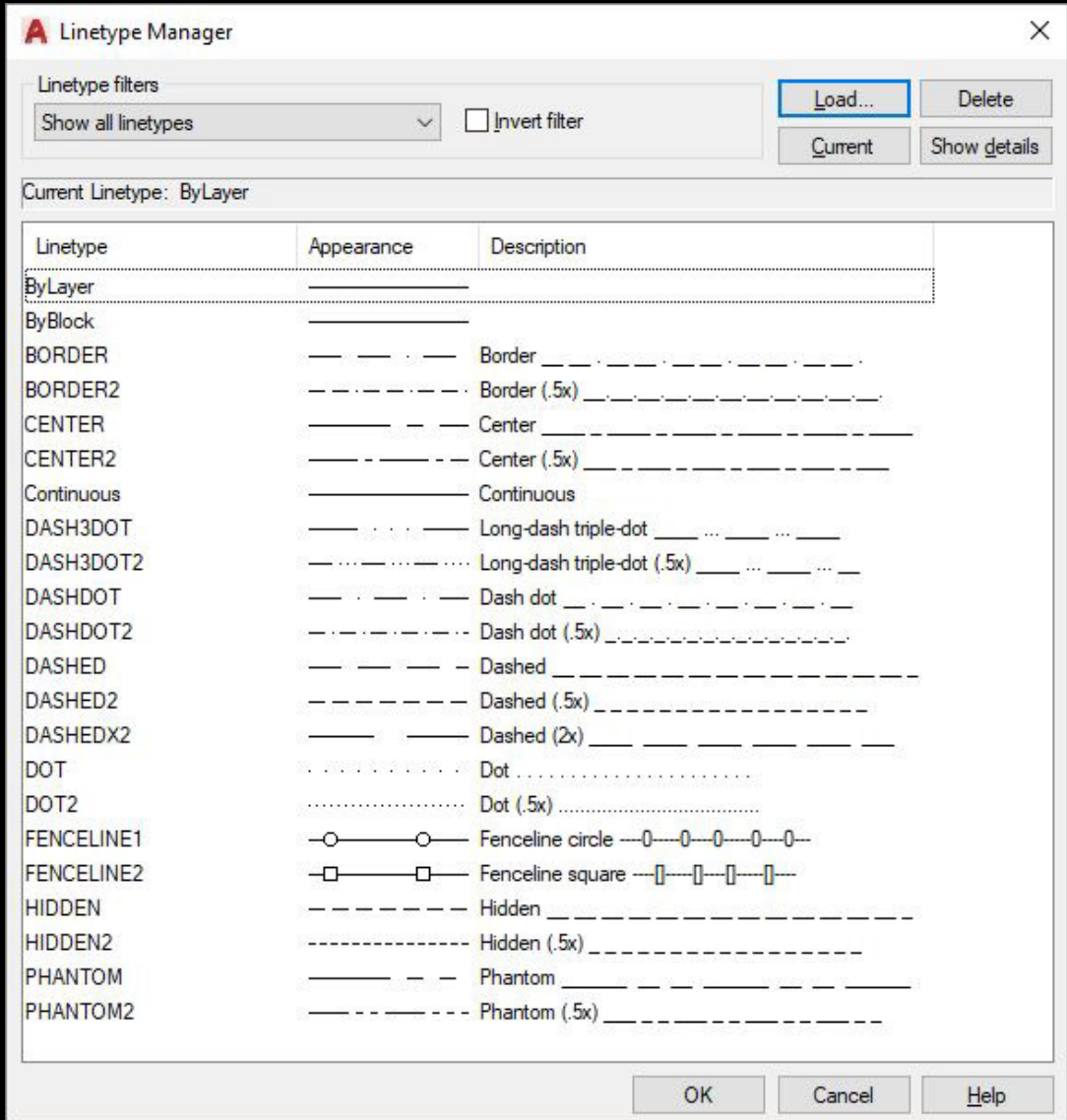


...in 100% black,  
6 incrementally  
lighter shades of  
gray, and 3 colors.

# Line types

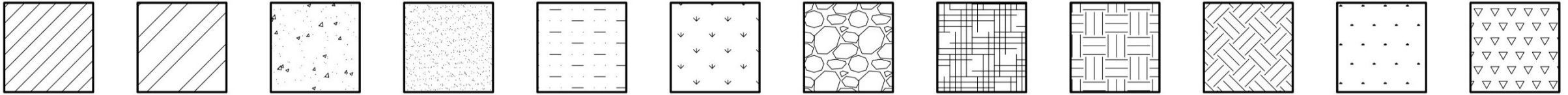
Linetypes preloaded in templates.

Use universal ltscaling.





# Hatch Patterns



Hatch patterns in templates with  
annotative scaling

Logo



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Logo in templates as CAD entities

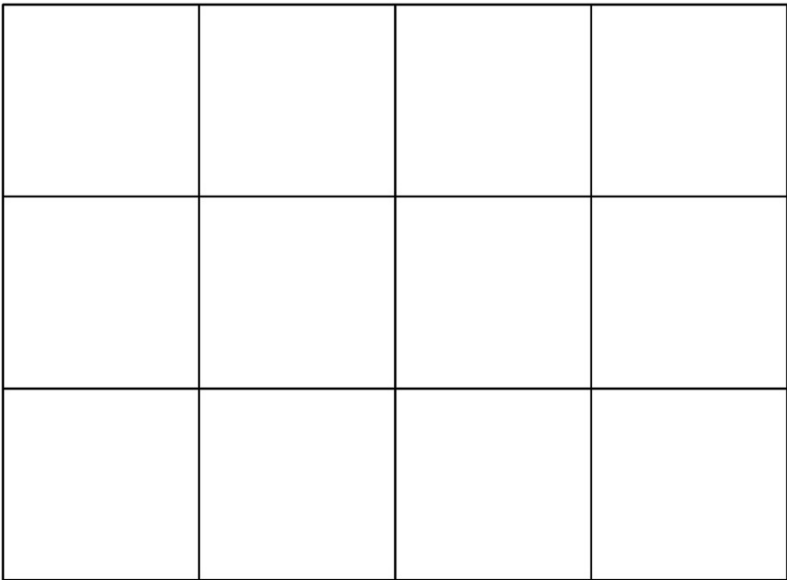
# Details

Scale up detail size template in model space based on desired detail scale and associated scale factor.

Use Detail Reference Grid as an alignment tool for placing details into a titleblock sheet.



24x36 V DETAIL SIZE



24x36 V DETAIL GRID

ARCHITECTURAL SCALE FACTORS	
$\frac{1}{256}"=1'-0"$	3072
$\frac{1}{128}"=1'-0"$	1536
$\frac{1}{64}"=1'-0"$	768
$\frac{1}{32}"=1'-0"$	384
$\frac{1}{16}"=1'-0"$	192
$\frac{3}{32}"=1'-0"$	128
$\frac{1}{8}"=1'-0"$	96
$\frac{3}{16}"=1'-0"$	64
$\frac{1}{4}"=1'-0"$	48
$\frac{3}{8}"=1'-0"$	32
$\frac{1}{2}"=1'-0"$	24
$\frac{3}{4}"=1'-0"$	16
$1"=1'-0"$	12
$1\frac{1}{2}"=1'-0"$	8
$3"=1'-0"$	4
$6"=1'-0"$	2

Detail Reference Grid for  
24x36 sheet with vertical TB

# Details

ARCHITECTURAL SCALE FACTORS	
$\frac{1}{256}"=1'-0"$	3072
$\frac{1}{28}"=1'-0"$	1536
$\frac{1}{64}"=1'-0"$	768
$\frac{1}{32}"=1'-0"$	384
$\frac{1}{16}"=1'-0"$	192
$\frac{3}{32}"=1'-0"$	128
$\frac{1}{8}"=1'-0"$	96
$\frac{3}{16}"=1'-0"$	64
$\frac{1}{4}"=1'-0"$	48
$\frac{3}{8}"=1'-0"$	32
$\frac{1}{2}"=1'-0"$	24
$\frac{3}{4}"=1'-0"$	16
$1"=1'-0"$	12
$1\frac{1}{2}"=1'-0"$	8
$3"=1'-0"$	4
$6"=1'-0"$	2

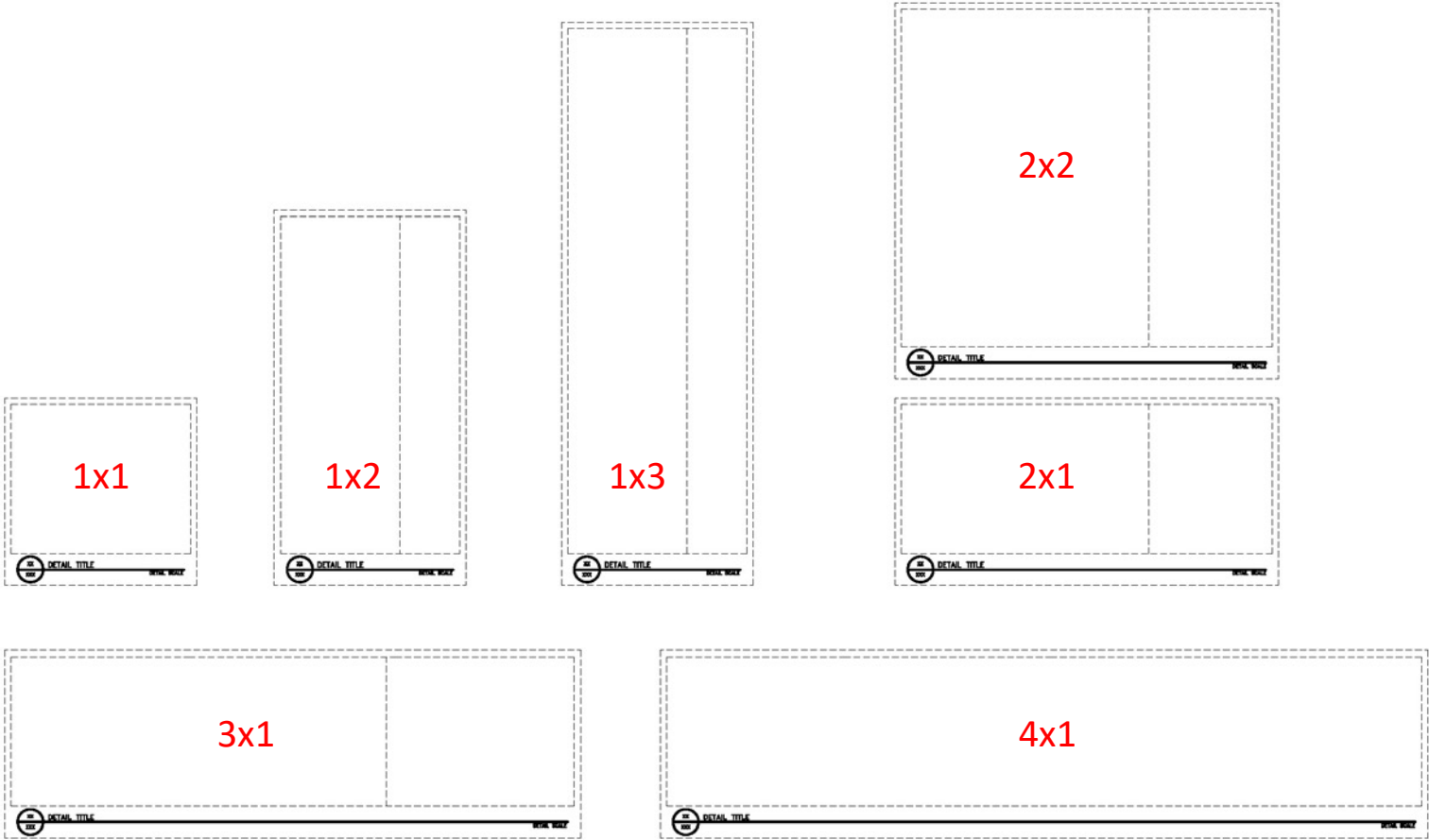
DETAIL AREA BLOCKS  
USE THESE BLOCKS TO DETERMINE THE SIZE OF YOUR DETAIL. TO DO THIS, COPY THE BLOCK YOU NEED, PASTE IT INTO YOUR DRAWING (CREATED USING ARCHITECTURAL UNITS) IN MODELSPACE, THEN SCALE IT UP BASED ON YOUR DETAIL SCALE, USING THE SCALE FACTORS IN THIS TABLE.

THE TITLEBLOCK INFORMATION IS INCLUDED AS EDITABLE ATTRIBUTES, JUST LIKE OUR CED STANDARD TITLEBLOCK, SO DOUBLECLICK TO EDIT THE TEXT.

Detail size templates and titles.

Based on Detail Reference Grid, choose the template based on detail size and complexity. More complex details may require more than one grid block. Remember, these are scaled up in model space based on desired detail scale and associated scale factor. Titles are blocks with editable attributes, so edit the text just as you would the CED Standard titleblock.

Dashed lines are non-printing.





# Layer Names

Standard layer names created in templates

Follow naming patterns for new layers

Use an X to indicate existing information. For example, L-PLNT-TREE-X for existing tree information. Make layers as needed, following the patterns.

LAYER PROPERTIES MANAGER

Current layer: 0	
Filters	« S... Name
All	0
All Used Layers	
	Defpoints
	L-ANNO-DIMS
	L-ANNO-KEYN
	L-ANNO-LEGN
	L-ANNO-NOTE
	L-ANNO-NPLT
	L-ANNO-REDL
	L-ANNO-REVS
	L-ANNO-SYMB
	L-ANNO-TEXT
	L-ANNO-TTLB
	L-ANNO-TTLB-BORD
	L-ANNO-TTLB-LOGO
	L-ANNO-TTLB-TEXT
	L-ANNO-TTLB-VPRT
	L-BLDG
	L-IRRG
	L-IRRG-COVR
	L-IRRG-EQPT
	L-IRRG-PIPE
	L-IRRG-SPKL
	L-LITE
	L-LITE-IDEN
	L-LITE-SITE
	L-PLNT
	L-PLNT-BEDS
	L-PLNT-GRND
	L-PLNT-PLAN
	L-PLNT-TREE
	L-PLNT-TURF

☐ Invert filte

All: 50 layers displayed of 50 total layers

Standard layer names created in template

Follow naming pattern for new layers

# Detail Layer Names

Current layer: 0

Filters

All

All Used Layers

Invert filter

S..	Name	On	Fr...	VP Freeze	Lock	Plot	Color	VP Color	Linetype	VP Linetype	Lineweight	VP Lineweigl
✓	0	☑	☀	🔒	🔒	🖨	white	white	CONTINUOUS	CONTINUOUS	Default	Defau
	L-DETL-MEDM	☑	☀	🔒	🔒	🖨	green	green	CONTINUOUS	CONTINUOUS	Default	Defau
	L-DETL-THCK	☑	☀	🔒	🔒	🖨	blue	blue	CONTINUOUS	CONTINUOUS	Default	Defau
	L-DETL-THIN	☑	☀	🔒	🔒	🖨	yellow	yellow	CONTINUOUS	CONTINUOUS	Default	Defau
	L-DETL-XTHK	☑	☀	🔒	🔒	🖨	red	red	CONTINUOUS	CONTINUOUS	Default	Defau
	L-DETL-XTHN	☑	☀	🔒	🔒	🖨	10	10	CONTINUOUS	CONTINUOUS	Default	Defau

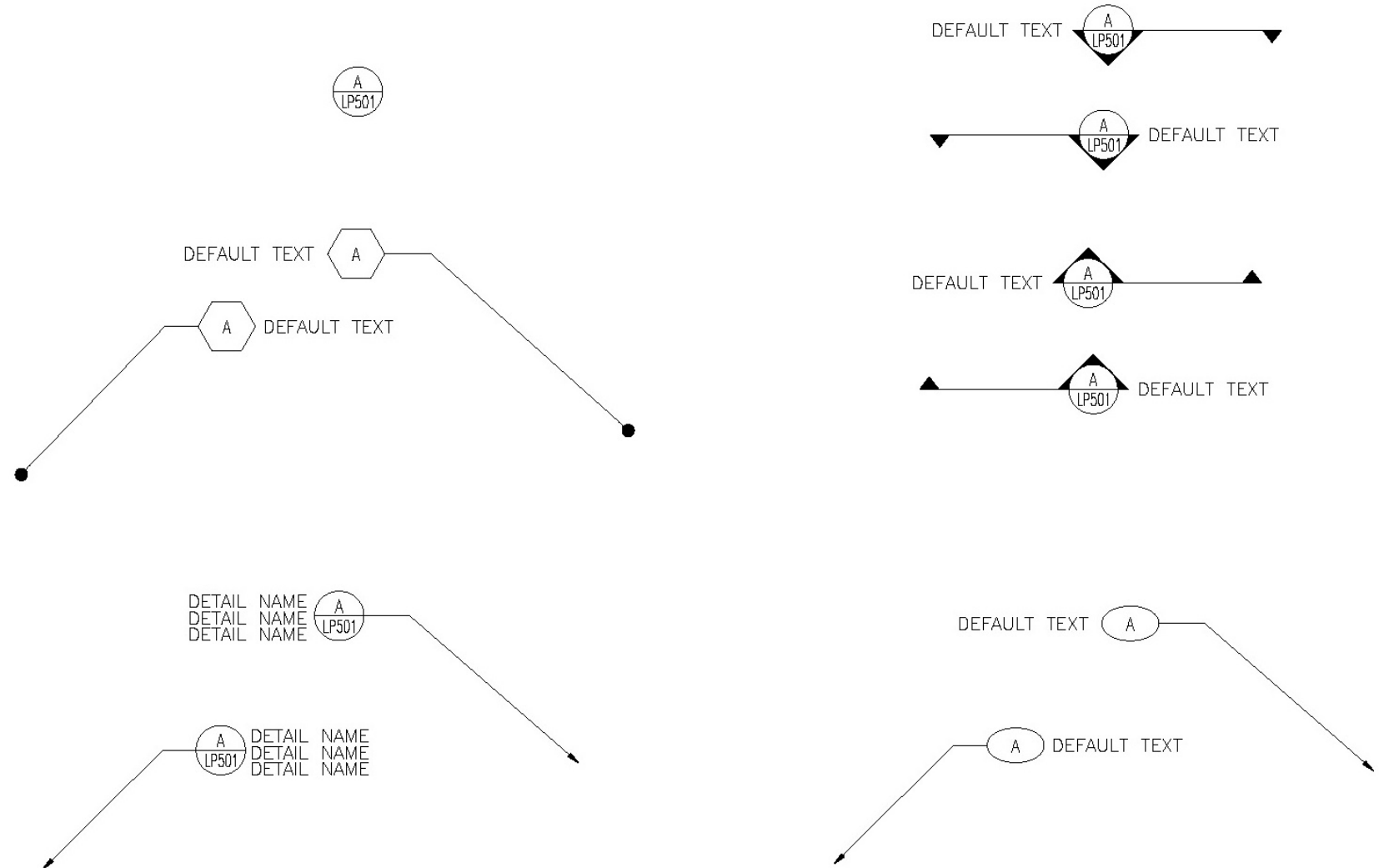
All: 6 layers displayed of 6 total layers

LAYER PROPERTIES MANAGER

# Callouts

Standard callout and reference blocks are included in the download.

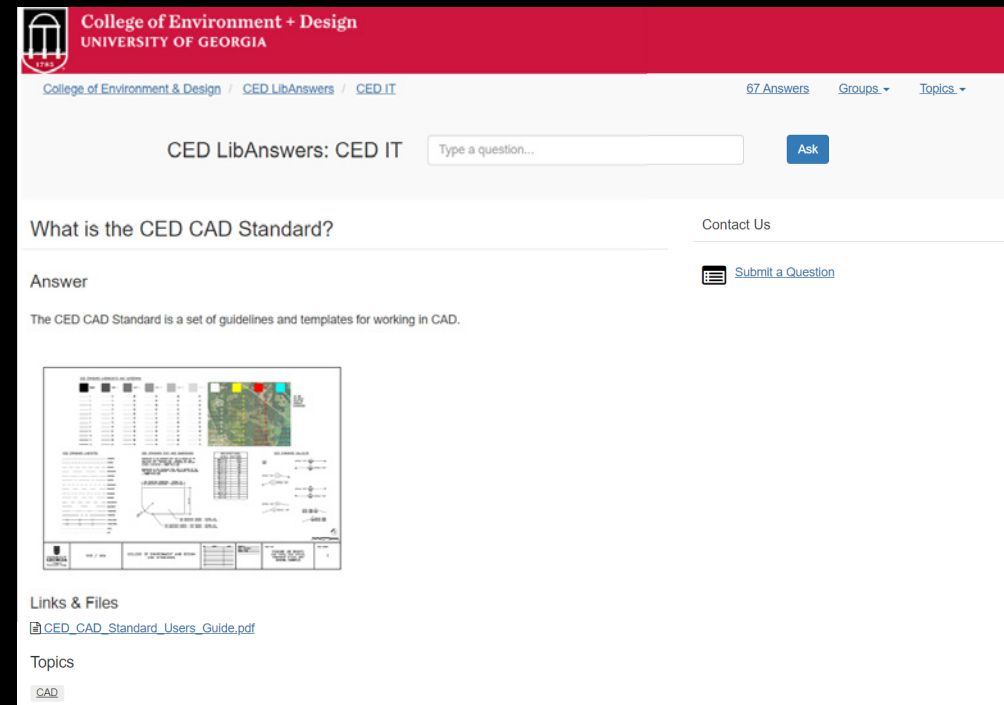
These are annotatively scaled blocks, so they adjust automatically based on your annotation scale.



# Where do I download the Standard?

Navigate to the main CED CAD Standard FAQ at:  
<https://answers.ced.uga.edu/IT/faq/395954>

Download the .ZIP and extract the files from it,  
then go to the next page to see where to place  
those files on your computer.



The screenshot displays the 'CED LibAnswers: CED IT' web interface. At the top, the header identifies the 'College of Environment + Design' at the 'UNIVERSITY OF GEORGIA'. Below the header, a navigation bar shows the path 'College of Environment + Design / CED LibAnswers / CED.IT' and statistics for '67 Answers', 'Groups', and 'Topics'. A search bar with the placeholder 'Type a question...' and an 'Ask' button is present. The main content area features the question 'What is the CED CAD Standard?' with a 'Contact Us' link. Below the question, the 'Answer' section states: 'The CED CAD Standard is a set of guidelines and templates for working in CAD.' An image of a CAD standard template is shown. At the bottom, a 'Links & Files' section includes a link to 'CED\_CAD\_Standard\_Users\_Guide.pdf' and a 'Topics' section with a 'CAD' tag.

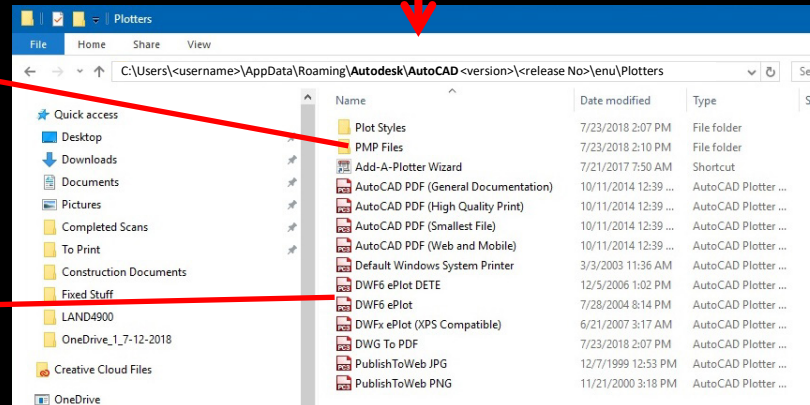
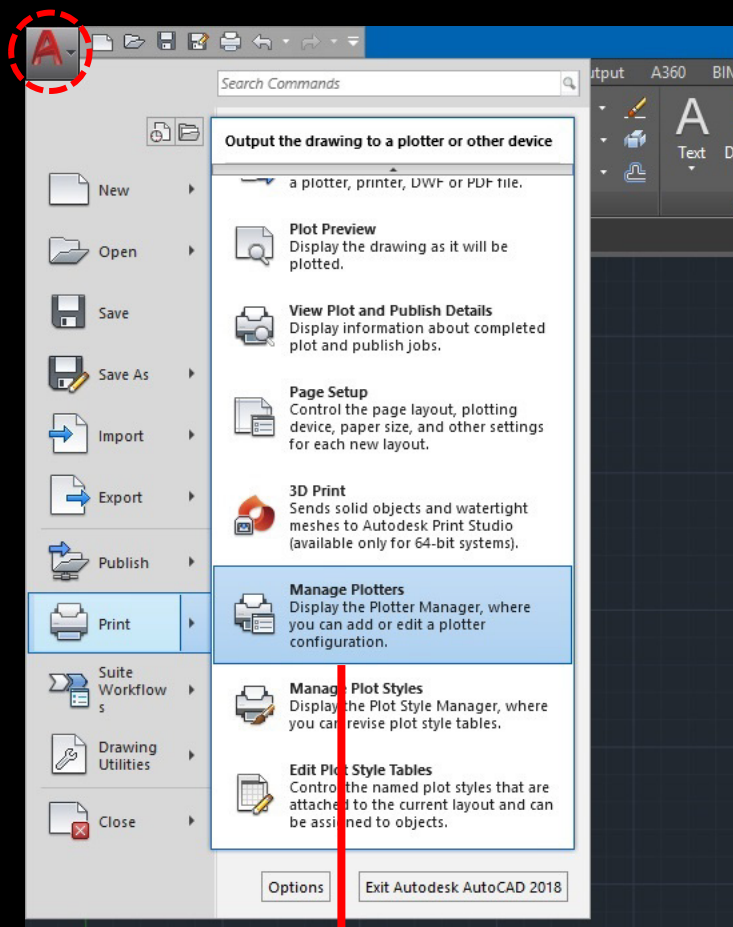


# How do I install?

## Option A (works for most)

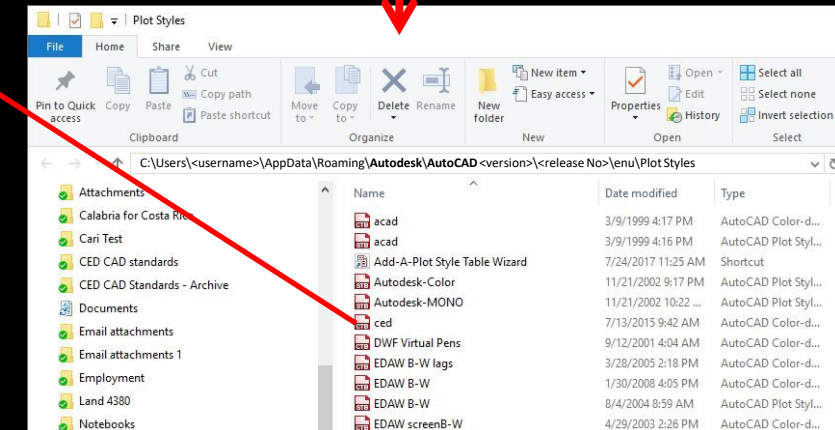
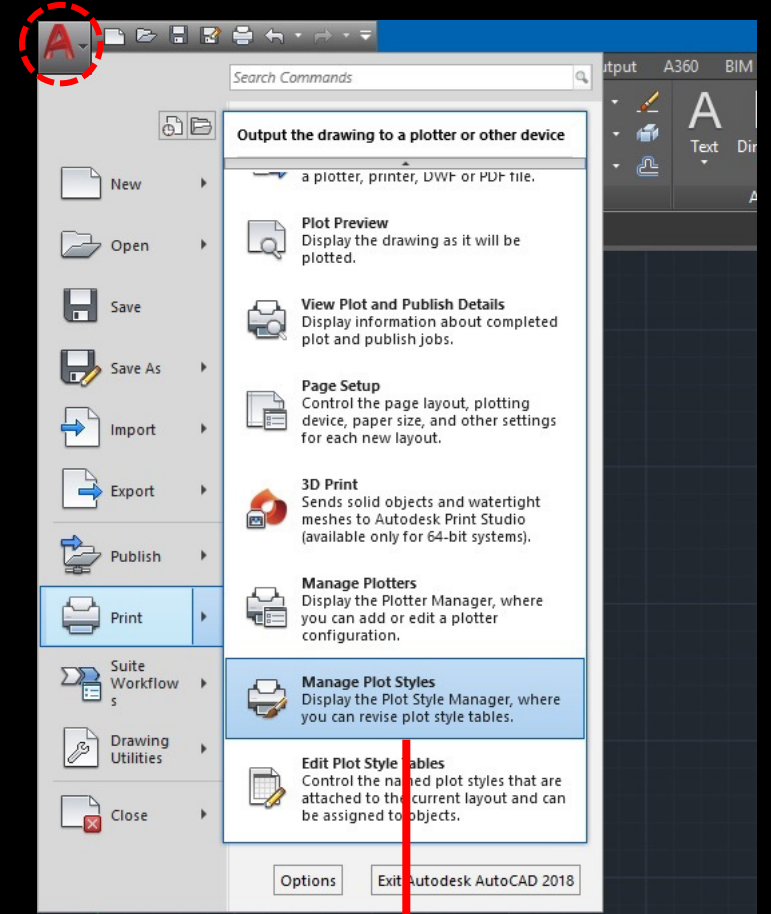
Three files need to be placed in specific locations on your computer.

Launch **MANAGE PLOTTERS** and **MANAGE PLOT STYLES** from AutoCAD to navigate to these locations.



DWG to PDF.pmp  
placed in PMP  
Files folder

DWG to PDF.pc3  
placed in Plotters  
folder



CED.ctb  
placed in  
Plot Styles  
folder

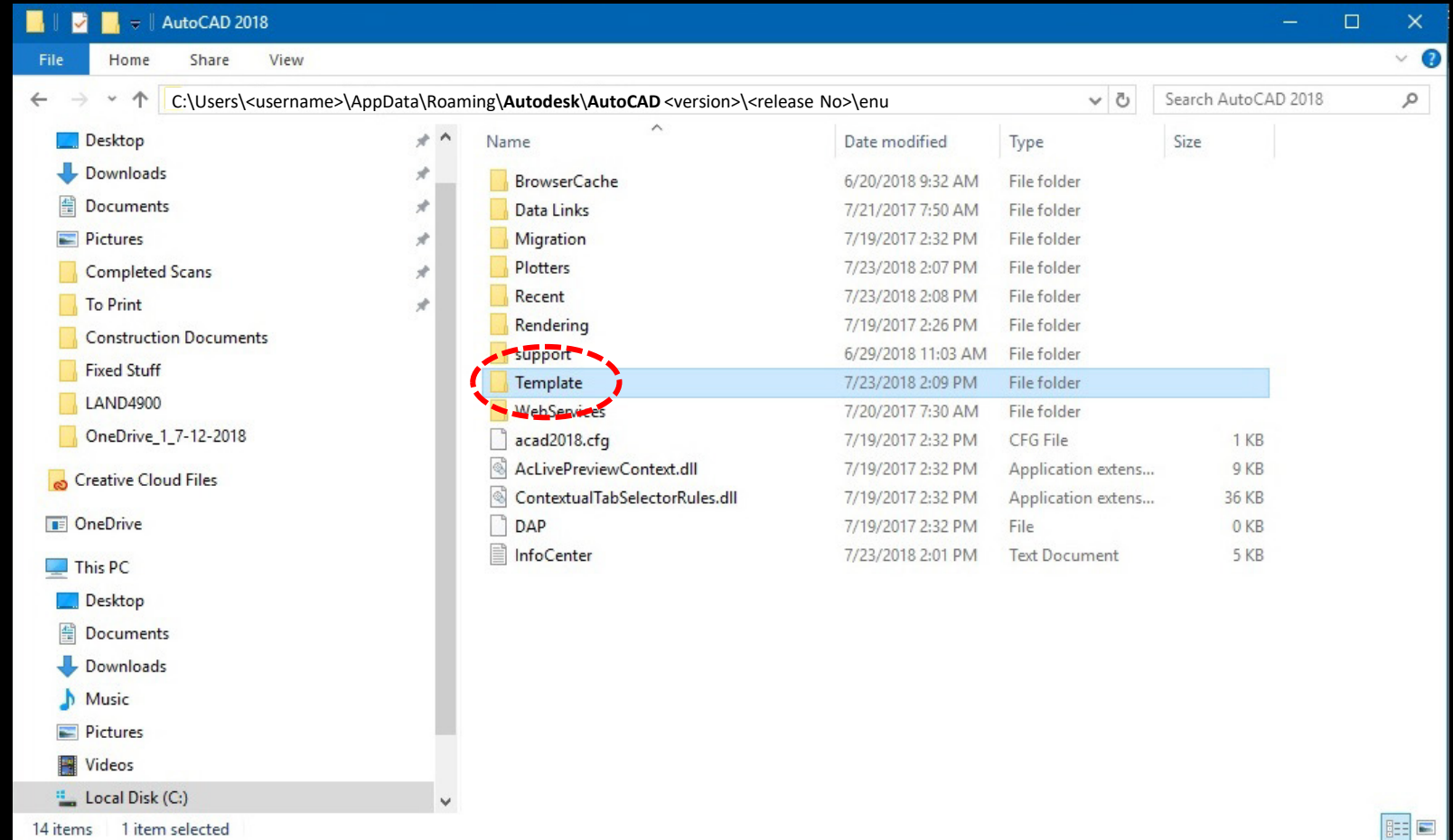
# How do I install?

## File Locations for AutoCAD Templates

The template files (.dwt) can be copied into place, allowing you to create new files with all the standard components.

From either the PLOT STYLES or PLOTTERS windows you opened in the previous step, navigate up one level to the enu folder, then to the TEMPLATE folder.

Copy the three template files (CED TEMPLATE ARCHITECTURAL.dwt, CED TEMPLATE DECIMAL.dwt, and CED TEMPLATE DECIMAL\_METRIC.dwt) into the TEMPLATE folder.



Note that template in this case denotes an AutoCAD file saved with a .dwt extension. These function differently than files saved as a standard .dwg, such as those seen on the second slide of this presentation.

# How do I install?

## Option B

(if Option A fails)

Three files need to be placed in specific locations on your computer.

The AutoCAD OPTIONS command opens this screen, which you can use to manually locate file locations, as well as view or modify many other settings.

