

Salt River Project



Delivering water and power™

CAD Standards Manual for Design and Construction Projects

Facilities Services
Design & Construction
Vision: Best in Class

October 2022



Delivering water and power™

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Section 1.0 – Introduction

This manual was created to provide a user-friendly environment for all who work on SRP Facilities drawing files. By adhering to the SRP CAD standards, all drawings will become more accurate and efficient for use in projects and other miscellaneous work. All information in this manual was created using a variation of industry CAD standards. We combined information we felt necessary to create a comprehensive set of standards that comply with our specific needs.

If all who work on projects for SRP facilities identify discrepancies immediately, we will be able to correct and manage our database effectively and efficiently.

This manual is considered a living document, changes will be made if/when necessary. To request a change for consideration, please email the assigned SRP Project Manager.

1.1 Policy on CAD File Translation

SRP recognizes that many of its construction firms do not use AutoCAD or the same version of AutoCAD. However, SRP expects that service providers who work with other file formats will submit DWG CAD files upon project closeout that are fully compliant with all of the standards outlined herein. Drawings shall have no significant loss of drawing entities or project data that can result from standard CAD file translation procedures. AutoCAD 2022 is the preferred file format.

All DWG files and CAD drawing entities submitted at the end of a project must be able to be manipulated using standard AutoCAD drafting procedures. Non-compliance with this policy will result in the rejection of CAD files submitted in addition to delayed rendering of final project payment. DXF files will not be accepted at project closeout as a substitution for DWG CAD file deliverables, however, they will be accepted along with the properly formatted files.

1.2 Translation Testing Recommended

For firms translating their native CAD file format into DWG format concerned about delivering error-free CAD files to SRP upon project closeout, it is strongly recommended that thorough file translation testing be conducted before the drawing development phase of the project. This will assure early detection of file conversion issues and allow for corrective measures to be taken before the project closeout period.

Section 2.0 – Requesting CAD Data

Consultants may request copies of existing CAD data for SRP facilities. CAD data is provided for the convenience of the recipient only. This data has been gathered from a variety of sources, and it may or may not conform to SRP CAD standards.

SRP makes no representation as to the data's completeness or accuracy. All existing conditions shall be verified by the consultants using the referenced files.

2.1 How to Request Data

All requests shall be emailed to the SRP project manager. The project manager will review the request and submit an internal DEC Request to the Facilities Design team.

Facilities Design team will have the requested files copied and sent to the consultant's representative via email.

All request shall include:

Site location

Site Building Number

Building Level (Basement, 1st Floor, 2nd Floor, etc.)

Discipline (Civil, Architectural, Structural, Mechanical, Plumbing, Electrical, etc.)

Drawing format (CAD Files, PDF's or both)

Email Address for all recipients to be copied on email

Section 3.0 – General CAD Standards and Best Practices

These general standards are intended to include the fundamental requirements for the efficient generation, archival and retrieval of electronic drawings prepared for SRP.

All CAD drawings shall be produced in accordance with SRP Design and Construction CAD Standards Manual.

All drawings will be drawn at true scale and true coordinates in model space.

All CAD files should use the architectural (feet and inches) format. Civil engineering CAD files may use the engineering (decimal) format. Metric formats are not generally used.

Layer names shall conform to the SRP Design and Construction CAD Standards Manual which were derived from the National CAD Standard (NCS). All drawing elements shall be drawn on the appropriate layer and discipline.

All CAD drawings shall be drafted using precision input employing the most accurate source material available. For all drawing entities, zero tolerance is required, all lines meet at intersections, straight lines are straight, blocks are inserted properly without overlap, etc.

All CAD files shall be flattened and purged with an insertion point of 0, 0, 0.

Consultants are responsible for the accuracy of all CAD drawings delivered to SRP, regardless of the accuracy of CAD drawings of previous projects furnished by SRP.

When setting up new drawings, plans shall be oriented per master file orientation with plan north and true north up. If this is not possible contact SRP's Construction PM. All drawings to be oriented identically across all disciplines within the same drawing set.

Section 4.0 – Types of CAD Files

SRP projects utilize (3) types of CAD files: model files, sheet files, and template files.

4.1 Model Files

A model file contains the graphics, which describe a subset of a site or building's geometry and its physical components: plans, elevations, sections, relevant dimensions outlets, ducts, etc.

All model files shall be drawn at full scale (1=1). Model files are usually referenced by other files. Model files can contain other model files referenced in.

Model Files shall only contain:

Xref's	Dimensions	Detail Symbols
General Notes	Revision Clouds	Section Cuts
Keyed Notes	Revision Deltas	System Indicators
Construction notes	Column Bubbles	Point of Connection
Hatching		

4.2 Sheet Files

Sheet files are used to assemble model files, title blocks, and other information for plotting. A sheet file may contain one or more scaled views of one or more models arranged within a border and title block. Sheet files contain AutoCAD's paper space information. They are never referenced by other files.

Sheet Files shall only contain:

Title Block	Drawing Title	Schedules
Borders	Key Plan	North Arrow

4.3 Template Files

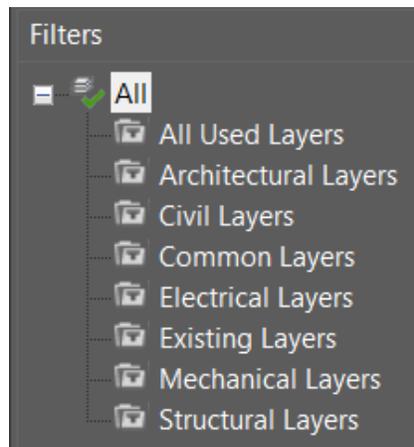
Template files for AutoCAD projects are typically in “.dwt” format. A template for SRP projects has been provided for use by all consultants. This template includes all the SRP Standard layers that follow the National CAD Standards.

Section 5.0 – Layers

SRP has adopted the National CAD Standard (NCS) for its layering scheme. A comprehensive layer list has been included into the SRP Standard AutoCAD template. Should there be a need to add a missing layer, these layers shall follow the NCS v4 format. The SRP CAD Standard utilizes the Description Field within the AutoCAD Layer Manager. All the standard layers have had their NCS description added to reduce confusion.

5.1 National CAD Standard Hierarchies

The NCS layers are organized into hierarchies based upon discipline. The convention utilizes a scheme of naming layers with four field groups. The four groups are discipline code, major group, minor group and status field. Filters have been created in the SRP template to easily organize the disciplines.



Layer name with discipline (A), major group (WALL), minor group (FULL TEXT) and status field (N)

A	-	W	A	L	L	-	F	U	L	L	-	T	E	X	T	-	N
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Discipline Code

The Discipline Code is a one-character field, which easily and quickly identifies the layer and how it applies the responsibility of the project (Architect, Civil, Electrical, Mechanical, etc.) Other disciplines exist within the NCS that do not pertain to SRP work and have been omitted from the SRP CAD title block file.

Code	Discipline
A	Architectural
C	Civil
E	Electrical Engineering
F	Fire Protection
G	General
L	Landscape Architecture
M	Mechanical Engineering
P	Plumbing
S	Structural Engineering
T	Telecommunications
W	Distributed Energy

Major Group

Major groups are a four-character field used to identify the building system. Major groups are typically grouped with specific discipline codes. For example, a drawing might contain the following layers:

A-WALL Walls
A-DOOR Doors
C-PKNG Parking Lots

Minor Group

Minor groups add an additional set of information to the layer names. It is an optional, four-character field to further define the Major Groups.

A-WALL-PART denotes Architecture, Wall, Partial-height.

User-Definable Fields

The minor group field can be defined by the user, allowing additional layers to be added to accommodate special project requirements. This should only be done if a defined layer does not apply to a project. Some examples of layers using a user-defined minor group field are as follows:

A-DOOR-PRHT - Architecture, Door, Partial-height
A-WALL-EXT - Architecture, Wall, Exterior walls
M-EXHS-DUCT - Mechanical, Exhaust System, Ductwork

5.2 Status Field

The Status field is a single-character field that distinguishes the data contained on the layer according to the status of the work or the construction phase.

Status Field Code	
D	Existing to demolish
E	Existing to remain
F	Future work
N	New work
X	Not in contract
1-9	Phase number

The SRP title block contains layers with assigned colors for both proposed and existing work. Existing layers have the “-E” suffix after the layer name, as well as a corresponding “Existing” layer filter. These layers can be changed or copied to Demo or Future layers by changing the “E” suffix to a “D” or “F”.

5.3 Common Layers Used in All Files

Annotation Layers

Annotation comprises of text, dimensions, sheet borders, detail references, and other elements on CAD drawings that do not represent physical aspects of a building. The major group “ANNO” designates annotation. Types of annotation are designated in table below:

Layer Name	Layer Description
*-ANNO-DIMS	Extension lines, dimension arrowheads/dots/slashes, dimension text
*-ANNO-IDEN	Identification Tags
*-ANNO-KEYN	Keynotes with associated leader lines and arrowheads
*-ANNO-MARK	Markers, Break Lines, Match-lines
*-ANNO-NOTE	General notes and general remarks
*-ANNO-NPLT	Construction lines, reference targets, area calculations, viewport windows
*-ANNO-PATT	Miscellaneous patterning and cross-hatching
*-ANNO-REVC	Revision Cloud and Delta
*-ANNO-STMP	Stamp
*-ANNO-SCHD	Schedules
*-ANNO-SYMB	Miscellaneous symbols

*-ANNO-TEXT	Miscellaneous text and callouts with associated leader lines and arrowheads
*-ANNO-TITL	Drawing and Detail Titles
*-ANNO-TTBL	Border and title block
XREF	Reference files

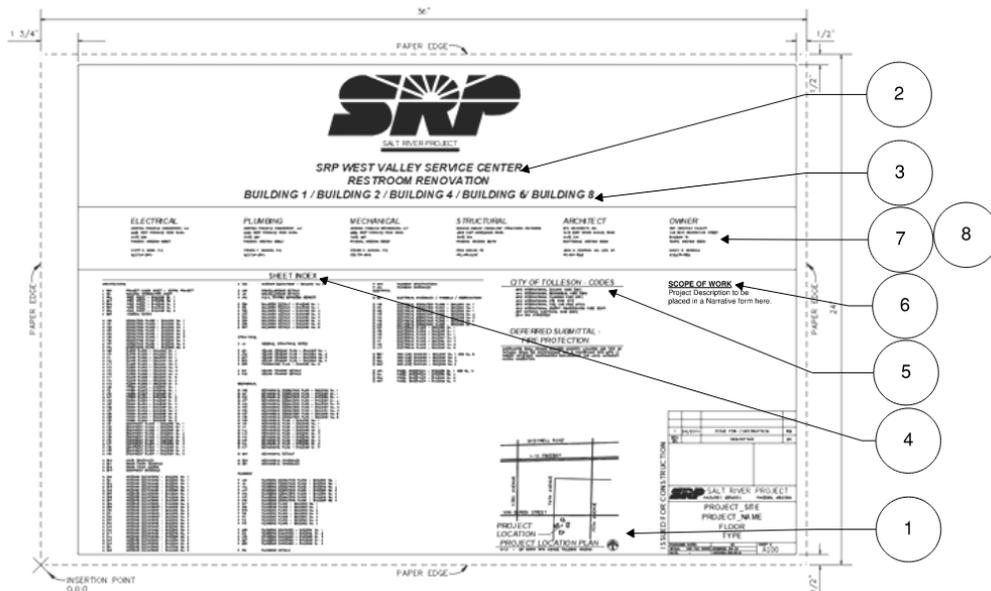
**Refer to SRP's Current Layer Management Structure (section 8.0) at the end of this manual.*

Section 6.0 – Drawing Organization

6.1 Sheet Size

Standard Arch Type D 24"x36" drawing sheets shall be used for all SRP design, construction, & record drawings.

6.2 Cover Sheet



Standard Cover Sheet Border

Figure 6-1

1. Project Site Location
2. Project Name
3. Site Building Number
4. Sheet Index
5. Code Index
6. Scope of Work
7. Consultants Information
8. Consultants Project Contact

6.3 Title Block

All title block information must be entered completely. The title block has attributes that can be manipulated using the DDATTE command in AutoCAD. All projects shall use the SRP standard title block. Do not Explode or Modify the title block.

1	0	11/20/19	ISSUE FOR CONSTRUCTION	RM
	REV. NO.		DESCRIPTION	BY
2	CONSULTANT LOGO NAME ADDRESS CITY, STATE, ZIP PHONE NUMBER PROJECT NUMBER			4 Professional Stamp Expire Date
3			SALT RIVER PROJECT FACILITIES SERVICES PHOENIX, ARIZONA	
	SITE LOCATION			
	PROJECT_NAME			
	FLOOR TYPE			
	FILENAME: CAD FILE NAME		SHEET #	
	SCALE: AS NOTED	DESIGNED BY: XX		A100
	DATE: xx-xx-xxxx	CHECKED BY: XX		

**Standard Title Block
Figure 6-2**

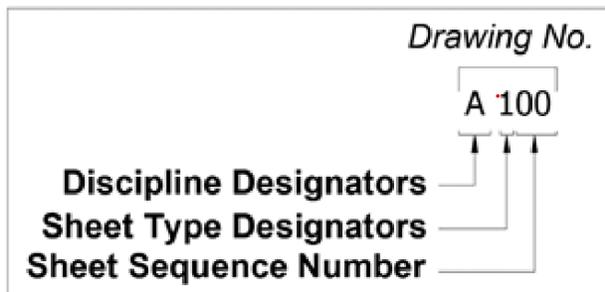
6.4 Title Block Identification

1. Revision Block
 - a. Issue for Review
 - i. Revision number shall be labeled with alpha characters – A, B, C.
 - ii. Remove all alpha character revisions from title block before issuing the “Issue for Construction” drawing set.
 - b. Issue for Construction
 - i. Revision number shall start with 0.
 - ii. All revisions after construction shall be labeled with numeric characters.
 - iii. Do not erase previous revisions, if needed add revision line to title block and adjust all sheets accordingly.
2. Consultant Logo
3. Drawing Set Type
 - a. Issue for xx% Review
 - b. Issue for Construction
 - c. Record Drawings
4. Location for professional stamp
5. Sheet Information
 - a. First Line – Site Location
 - b. Second Line – Project Name
 - c. Third Line – Floor Level / Discipline
 - d. Fourth Line – Discipline / Type of Drawing
6. Sheet Identification
 - a. Refer to Section 6.5 Sheet Identification

6.5 Sheet Identification

The sheet sequence number is a two-digit number that identifies each sheet in a series of the same discipline and sheet type.

Plan sheets may replicate the floor name within each discipline. This makes sheets A102, M102, and E102 the second-floor plan for each of the various disciplines.



Discipline Designators

The discipline designator consists of one alphabetical character. The discipline designator identifies the sheet as a member of a particular genre of drawings.

Sheet Type Designators A-ANNO-REVC

The sheet type designator consists of one numeric character. The sheet type designator refers to the type of information displayed in the drawing.

Sheet Sequence Number

Sheet sequence number consists of two numeric characters. The sheet sequence number is a series of sequential number from 00 through 99.

6.6 Sheet Discipline Designators

Code	<i>Discipline</i>
A	Architectural
C	Civil
E	Electrical Engineering
F	Fire Protection
G	General
L	Landscape Architecture
M	Mechanical Engineering
P	Plumbing
S	Structural Engineering
T	Telecommunications
W	Distributed Energy

6.7 Sheet Type Designators

The following sheet designators are shown in the order they should be for each package.

G	General
0	Cover Sheet
1	Code Plan and General Information

C	Civil Engineering
0	Legends, General Information
1	Survey Plans
2	Paving Plans
3	Enlarged Plans
4	Not used
5	Sections
6	Schedules
7	Diagrams
8	Details
9	3D views (Isometrics, Perspectives, Photographs)

A	Architectural
0	Legends, General Information
1	Floor Plans
2	Enlarged Plans
3	Reflected Ceiling Plans
4	Roof Plans
5	Sections
6	Schedules
7	Elevations
8	Details
9	Finish and Furniture Plans

S	Structural Engineering
0	Legends, General Information
1	Floor Plans
2	Enlarged Plans
3	Reflected Ceiling Plans
4	Roof Plans
5	Sections, Stairs & Elevators
6	Concrete, Masonry
7	Diagrams
8	Details
9	3D views (Isometrics, Perspectives, Photographs)

M	Mechanical Engineering
0	Legends, General Information
1	Floor Plans
2	Enlarged Plans
3	Reflected Ceiling Plans
4	PFDs
5	Sections
6	Schedules
7	Control Systems
8	Details
9	User Defined

P	Plumbing Engineering
0	Legends, General Information
1	Floor Plans
2	Enlarged Plans
3	Not used
4	PFD's
5	Sections
6	Schedules
7	Not used
8	Details
9	Schematics & Isometrics

F	Fire Protection
0	Legends, General Information
1	Floor Plans
2	Enlarged Plans
3	Reflected Ceiling Plans
4	Roof Plans
5	Sections
6	Schedules
7	Diagrams
8	Details
9	3D views (Isometrics, Perspectives, Photographs)

E	Electrical Engineering
0	Legends, General Information
1	Power Plans
2	Enlarged Plans
3	Lighting Plans
4	Roof Plans
5	Sections
6	One-Line Diagrams
7	Riser Diagrams \Schematics
8	Details
9	Panel Schedules

T	Telecommunications
0	Legends, General Information
1	Floor Plans
2	Enlarged Plans
3	Reflected Ceiling Plans
4	Roof Plans
5	Sections
6	Schedules
7	Diagrams
8	Details
9	3D views (Isometrics, Perspectives, Photographs)

W	Distributed Energy
0	Legends, General Information
1	Power Plans
2	Enlarged Plans
3	Lighting Plans
4	Roof Plans
5	Sections
6	One-Line Diagrams
7	Riser Diagrams \Schematics
8	Details
9	Panel Schedules

6.8 Xref (External References) Identification

In naming base drawings to be used as external references (xrefs), all files shall begin with an “x” to distinguish them as an xref. The remaining file name shall be as descriptive as possible describing the content of the base drawing.

Examples:	No	Yes
	X-CUB-SITE-PLAN	= X-SSW00_SitePlan
	X-CUB01-ARCH-1st-FLR	= X=SSW01-1_ArchPlan
	X-CUB01-RCP-1st-FLR	= X-SSW01-1_ArchRCP

**Please note SRP’s naming convention as referenced above: “X” references this is owner’s master drawing. “SSW” is the site location, “00” or “01” is the location on the site (00 is the site and 01 is building #1), “-1” references the floor level, and lastly “_ArchPlan” is the discipline of the file (example “ArchPlan” is the architectural floor plan file).*

6.9 Xref Paths

All external reference files shall be:

1. Attached by Reference Files Type “Overlay”
2. Path Type shall be set to “Relative Path”
3. Scale shall be “1”
4. Insertion point shall be 0,0,0
5. Rotation Scale shall be “0”
6. Inserted onto layer “ XREF”

6.10 Hatching

Do not use polylines with increased width as a replacement for hatching. Hatching is allowed on the Sheet file in model space. Do not place hatching in the Model File or Explode the Hatching. All hatching shall be placed on a discipline specific hatch layer. All fire rated walls need to be indicated with a specific hatch pattern (thickened interior wall line pattern: 1-dashed for 1-hour and 2-dashes for 2-hour, etc), see owner for requirements.

6.11 Scale

All SRP Master Drawings are drawn at true scale and true coordinates in model space. Do not

rescale the master drawings. Use the Model Space & Paper Space feature and scale the viewport to the desired scale. Scale on each sheet to be represented in text and graphic format.

6.12 Annotation

All annotations such as text, hatching, symbols, and revision numbers shall be produced on the separate allocated layers designated by discipline. Text size shall be 3/32" when printed on 24x36" sheet, legible, and appropriate to the graphic information presented and the intended plotted scale of the drawing.

6.13 Text Styles and Fonts

Consultants shall use the following text styles and fonts for all projects

Standard: The font type "Simplex" shall be used for all text, notes, and dimensions. All text shall be 3/32" when plotted.

Title: The font type "Arial" shall be used for all titles. All text shall be 1/4" when plotted.

Common Scales and Text Height				
Drawing Scale	Dimscale	LTScale	Texted Height	
1" = 60' - 0"	720		5'-7.5"	180"
1" = 50' - 0"	600		4'-8.25"	150"
1" = 40' - 0"	480		3'-9"	120"
1" = 30' - 0"	360		2'-9.75"	90"
1" = 20' - 0"	240		1'-10.5"	60"
1/32" = 1' - 0"	384	128	3'-0"	96"
1/16" = 1' - 0"	192	64	1'-6"	48"
1/8" = 1' - 0"	96	32	9"	24"
1/4" = 1' - 0"	48	16	4.5"	12"
1/2" = 1' - 0"	24	4	2.25"	6"
Full			3/32"	1/4"

6.14 Dimensions

All dimensions shall be drawn on the Model File in Model Space. When Plotted, Dimension Text shall be 3/32". All dimensions shall be in a named dimension style, so the dimension parameters can be readily modified.

6.15 Linetypes

SRP utilizes standard AutoCAD line types. If a custom line type is required contact the SRP Facilities Design team. Contour lines, dashed, and other fonted lines shall be made of one continuous line segment, not a series of separate line segments.

Section 7.0 – Project Deliverables

7.1 Record Drawings

CAD data submitted by consultants shall be accurate and shall conform to the current SRP CAD Standards, even if reference data provided by SRP was inaccurate or did not conform to the standards.

Record drawings shall include all changes to the project throughout construction, including changes submitted through RFI's.

All drawing sheets shall be labeled as "Record Drawings" and contain no clouds or revision deltas.

SRP requires that all plans be submitted digitally. All record drawings are to be compiled into a single PDF document and submitted along with all AutoCAD DWG files. AutoCADs are required from every sheet in the construction drawing set (including overall plans, sheet content, etc.) and from every discipline for the project (Civil, Architectural, Structural, Mechanical, Plumbing, Electrical, Telecom, Fire Sprinkler, Fire Alarm, Furniture, etc). If the total transfer size is larger than 12MB, please email your SRP Project Manager to request access to the SRP Mass File Transfer System.

The submitted PDF files shall be created so that the plans will accurately print on a 24"x36" sheet. Only black and white pdf files will be accepted.

7.2 Validation of Delivered Materials

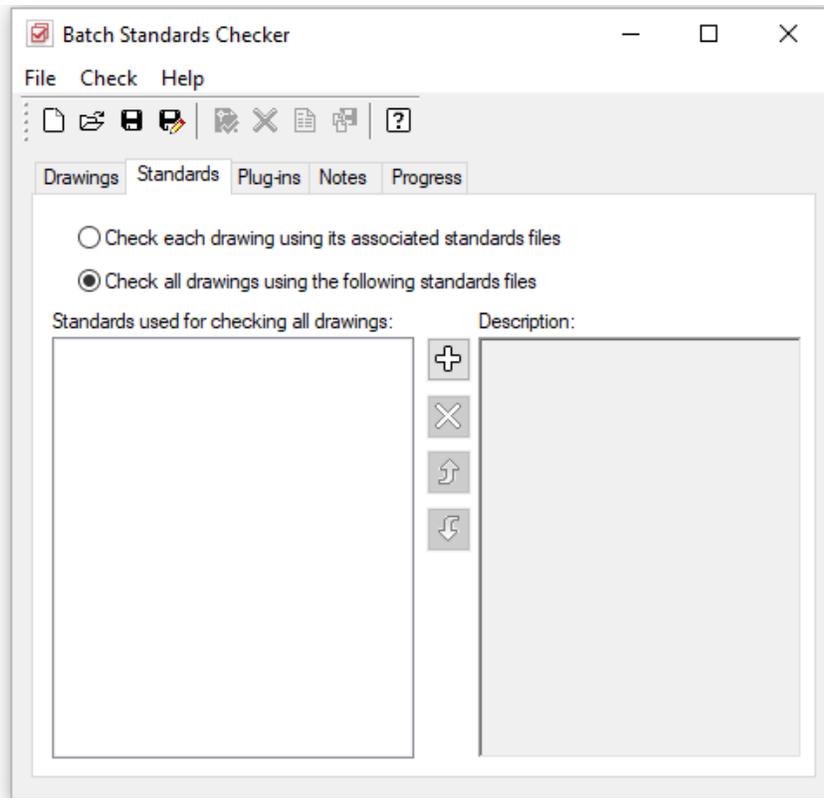
Facilities Design team will validate the AutoCAD data and other materials submitted by the consultant using the AutoCAD command “Batch Standards Checker”. If the submittals do not conform to the SRP CAD Standards, the submittals will be returned to the consultant to be revised for resubmittal.

The Batch Standards Checker audits a drawing or a series of drawings for standards violations and creates an XML-based summary report detailing all violations. Batch Standards Checker is installed by default alongside AutoCAD and can be accessed externally from AutoCAD by using the Windows Search Bar. In preparation for using the Batch Standards Checker, you will need to save the AutoCAD file “SRP Title Block CD - 24x36” as a new “.dws” file. This “.dws” file will be what you use in the next process.

After launching the app, click the “Standards Tab”

Click the circle - Check all drawings using the following standards files

Click + Tab and locate SRP Standards Checker.dws file, click open



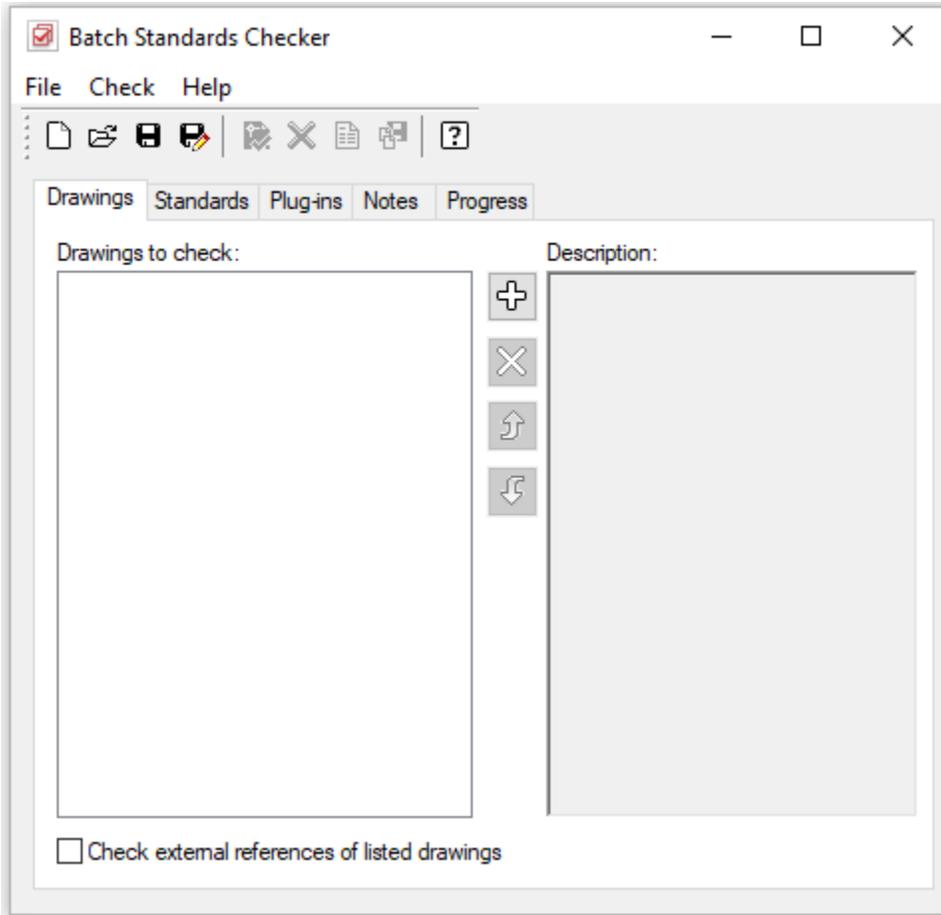
Click the “Drawings” tab

On the Drawings Tab, click the + button (Add Drawing).

Locate / Select drawing(s) to be audited. Click Open

Go to pulldown menu select “Check” and scroll down to “Start Check”

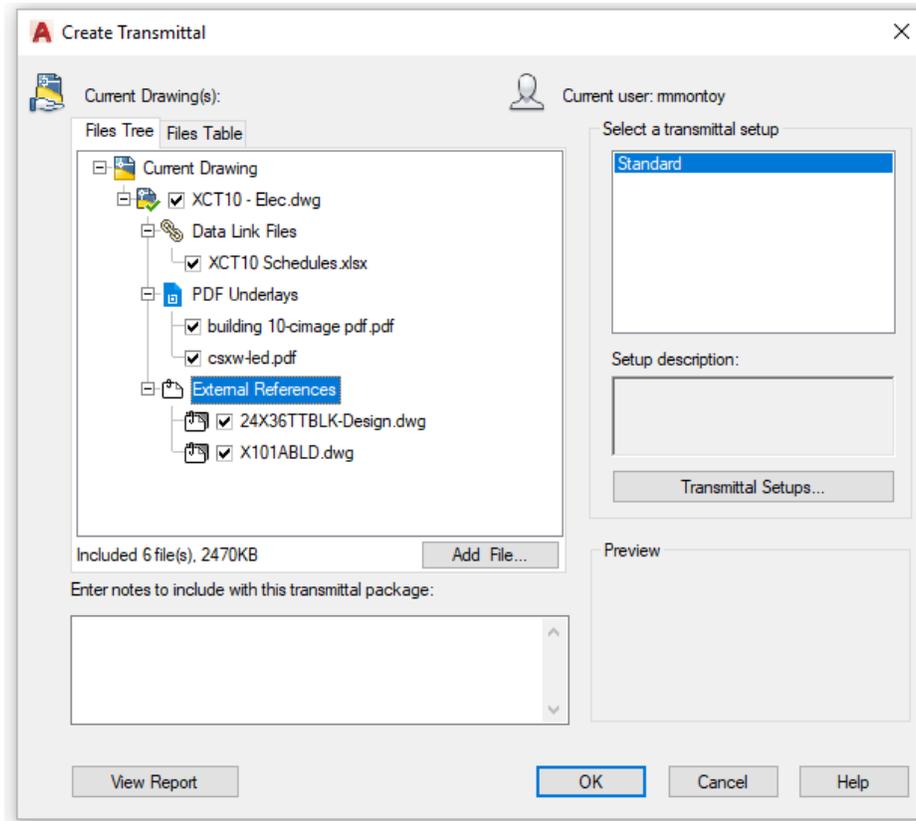
You must save your current settings before running check. Click OK – Then SAVE



To check files one at a time, instead of in “Batch” mode, you can also access the CAD Standards checker by going to the Manage tab of the AutoCAD Ribbon and selecting the “Check” button.

7.3 AutoCAD Requirements

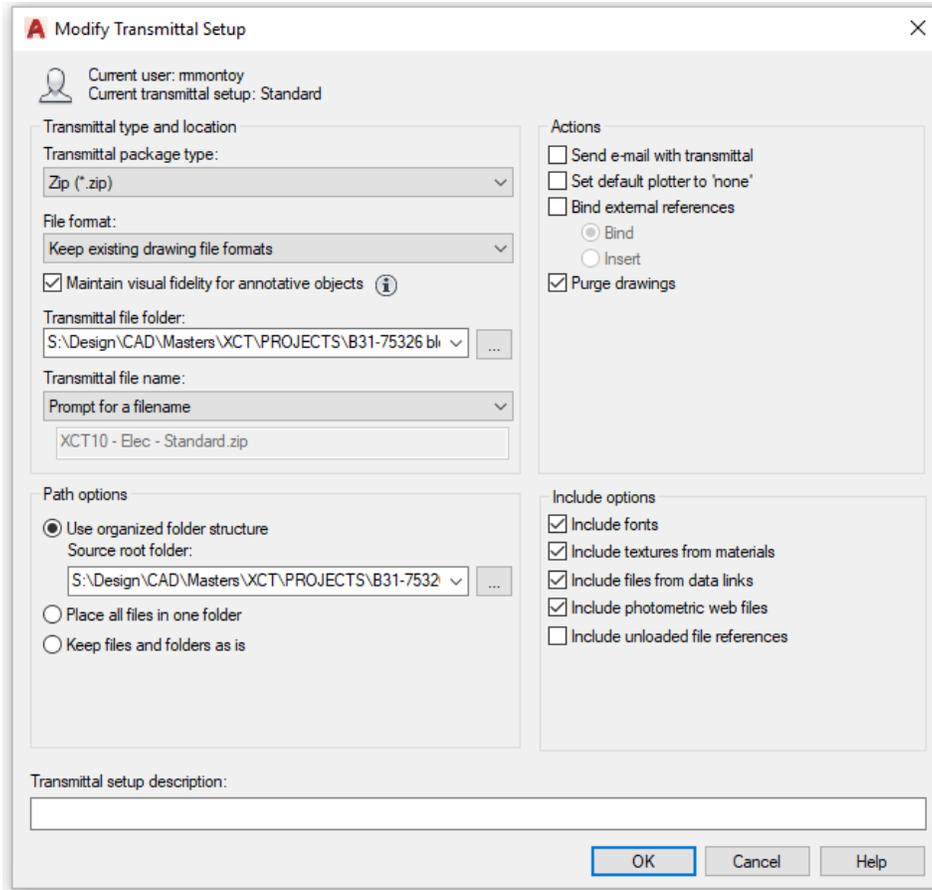
Using the “eTransmit” command in AutoCAD is the preferred method to packaging drawing files together into one .zip file for easier email attachment.



Standard eTransmit Setup

Figure 6-1

All files associated with the drawings shall be included (Data Links, PDF Underlays, External References)



Standard eTransmit Setup

Figure 6-2

DO NOT BIND EXTERNAL REFERENCES

Include Fonts and Purge all drawings

PDF files for submittal should be generated using one a .ctb plot file. The plot style is located on the website and should be saved into the proper folder on the user's computer. It is named: SRP – 24x36.

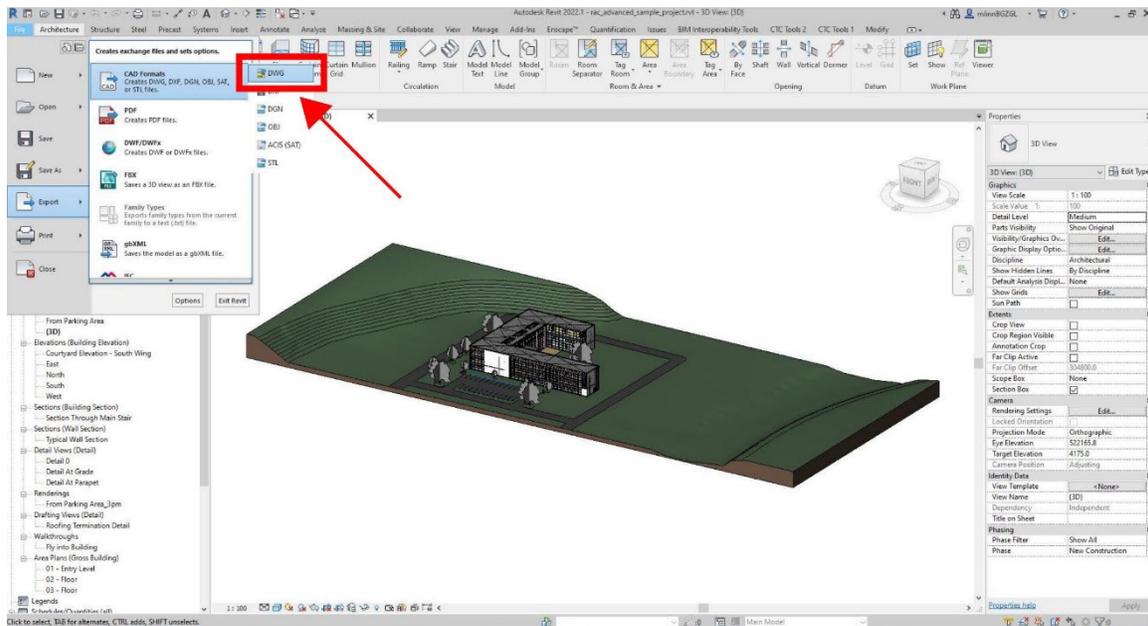
7.4 Revit File Requirements

All Revit Sheets shall be exported to AutoCAD dwg format and shall comply with SRP CAD Standards. Refer to instructions and figures below for the process of exporting Revit files to AutoCAD.

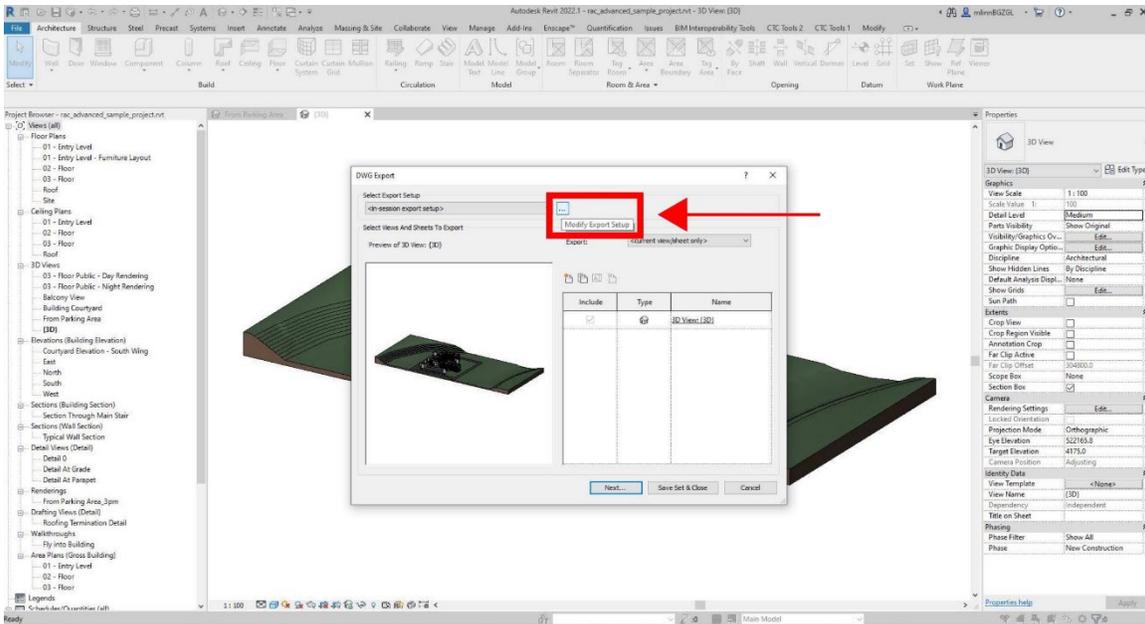
This document outlines the process of exporting Revit files to AutoCAD, while incorporating SRP CAD standards. This process will convert all STANDARD Revit categories to the appropriate AutoCAD layer and color. Generic Model Revit category is not acceptable. All Generic Model families must be converted to the most appropriate non-Generic category in the Revit model prior to export. If a company incorporates custom Revit sub-categories, they must be configured manually. Reference Step 4 below for this process.

Process:

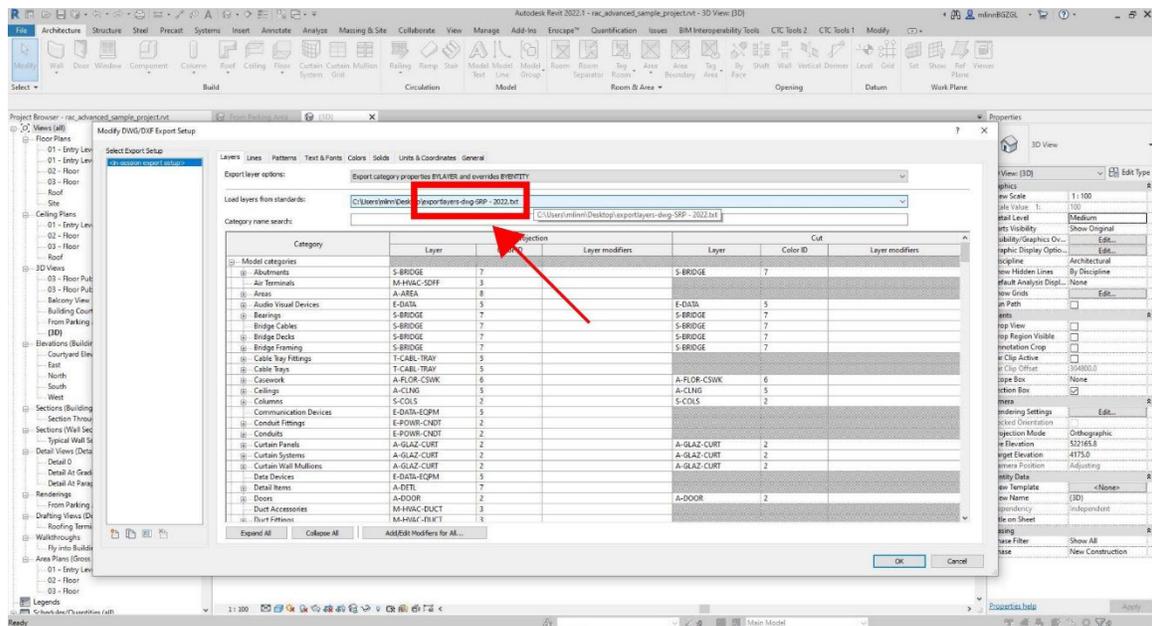
1. Open the Revit file that requires an export to AutoCAD with SRP standards.
File > Export > CAD Formats > DWG.



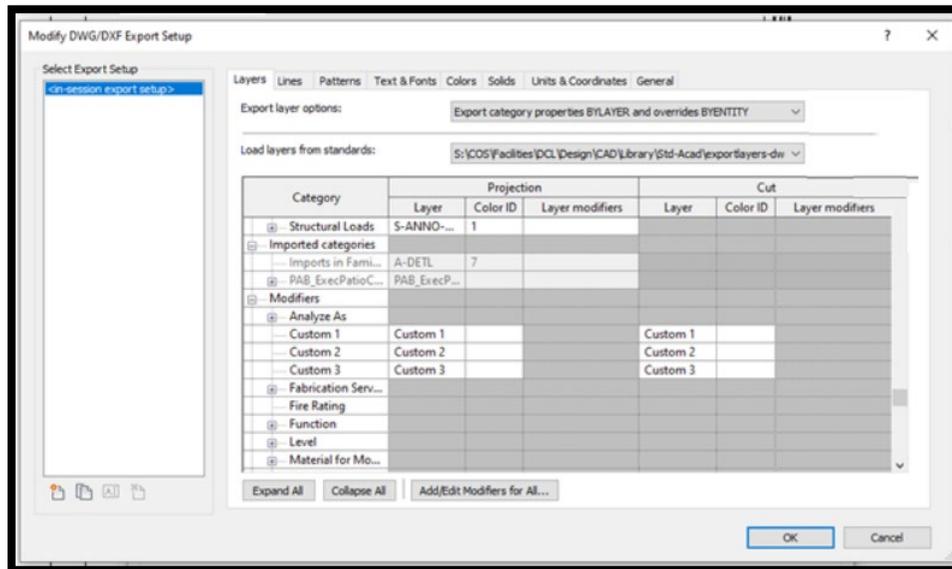
2. Select the ellipsis (dot dot dot) next to “Select Export Setup”, which will direct the user to “Modify Export Setup”



3. Select the drop-down menu of “Load layers from standards” and load the file: “exportlayers-dwg-SRP – 2022.txt”. This is the text file submitted along with this document.

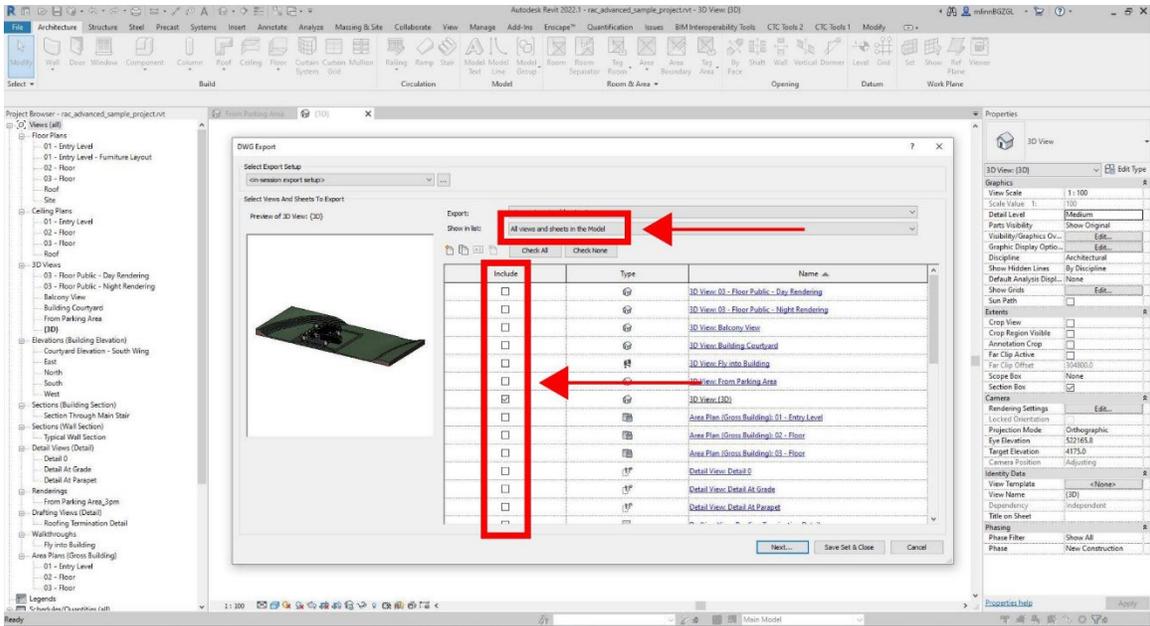


- If custom Revit categories have been incorporated into the model, manual configuration will be required. Review the layer and color assignment from Step 3. If any categories are missing Color ID, then custom categories have been included in the Revit model. Review the SRP CAD Standard layers of this document for the most appropriate layer. Then assign to each custom category in the Export Setup for both the “Projection” and “Cut” columns. When complete, all categories will have an assigned layer and color that match SRP CAD Standards.



Select “All views and sheets in the model” from the “Show in list” drop-down menu. Select all the views and sheets that need to be exported to AutoCAD. Click “Next...” and choose a location to save the DWG files. Please Note: that each file name shall match the sheet number and please uncheck the box export view on sheets and link as external references.

-



Section 8.0 – Layers Management Structure

SRP's Current Layer Management Structure

Layers are shown in the SRP Title Block CD – 24x36:

Name	Color	Linetype	Description
0	white	Continuous	
A-ANNO-DIMS	red	Continuous	Architectural Extension lines, dimension arrowheads/dots/slashes, dimension text
A-ANNO-DIMS-ROOF	red	Continuous	Architectural Extension lines, dimension arrowheads/dots/slashes, dimension text-Roof
A-ANNO-HTCH-BRDR	blue	Continuous	Architectural Hatch Pattern Border
A-ANNO-HTCH-PATT	9	Continuous	Architectural Hatch Pattern
A-ANNO-IDEN	yellow	Continuous	Architectural Identification Tags
A-ANNO-KEYN	30	Continuous	Architectural Keynotes with associated leader lines and arrowheads
A-ANNO-LOGO	red	Continuous	Architectural Consultant Logo
A-ANNO-MARK	red	CENTER2	Architectural Markers, Break Lines, Match-lines
A-ANNO-NOTE	30	Continuous	Architectural General notes and general remarks
A-ANNO-NOTE-ROOF	30	Continuous	Architectural General notes and general remarks-Roof
A-ANNO-NPLT	red	Continuous	Architectural Area Calculations, Viewport Windows
A-ANNO-PATT	9	Continuous	Architectural Miscellaneous patterning and cross-hatching
A-ANNO-REVC	blue	Continuous	Architectural Revision Cloud and Delta
A-ANNO-SCHD	yellow	Continuous	Architectural Schedules
A-ANNO-STMP	yellow	Continuous	Architectural Stamp
A-ANNO-SYMB	yellow	Continuous	Architectural Miscellaneous symbols
A-ANNO-TEXT	30	Continuous	Architectural Miscellaneous text and callouts with associated leader lines and arrowheads
A-ANNO-TITL	yellow	Continuous	Architectural Drawing and Detail Titles
A-ANNO-TTBL	red	Continuous	Architectural Border and title block
A-ANNO-XREF	8	Continuous	Architectural Reference files
A-AREA	8	Continuous	Architectural - Area
A-AREA-CUST	yellow	Continuous	Architectural - Area Custodial Maintenance
A-AREA-DEPT	red	Continuous	Architectural - Area Department Square Footage

A-AREA-E	9	Continuous	Architectural - Area-Existing
A-AREA-IDEN	yellow	Continuous	Architectural Room and grid locations Identification Tags
A-AREA-OCCP	red	Continuous	Architectural - Area or Occupant Names
A-AREA-OCCP-E	12	Continuous	Architectural - Area or Occupant Names - Existing
A-CLNG	blue	Continuous	Architectural - Ceiling
A-CLNG-ACCS	blue	Continuous	Architectural - Ceiling Access
A-CLNG-ACCS-E	152	Continuous	Architectural - Ceiling Access-Existing
A-CLNG-E	152	Continuous	Architectural - Ceiling-Existing
A-CLNG-GRID	blue	Continuous	Architectural - Ceiling Grid
A-CLNG-GRID-E	152	Continuous	Architectural - Ceiling Grid-Existing
A-CLNG-IDEN	30	Continuous	Architectural - Ceiling Height
A-CLNG-OPNG	blue	Continuous	Architectural - Ceiling Opening
A-CLNG-OPNG-E	152	Continuous	Architectural - Ceiling Opening-Existing
A-CLNG-PATT	blue	Continuous	Architectural - Ceiling Pattering
A-COLS	green	Continuous	Architectural - Columns
A-COLS-E	82	Continuous	Architectural - Columns-Existing
A-DETL	white	Continuous	Architectural - Details
A-DETL-E	8	Continuous	Architectural - Details-Existing
A-DETL-GENF	92	Continuous	Architectural - Details
A-DETL-MEDM	33	Continuous	Architectural - Details
A-DETL-THIN	151	Continuous	Architectural - Details
A-DOOR	yellow	Continuous	Architectural - Doors
A-DOOR-E	52	Continuous	Architectural - Doors-Existing
A-DOOR-FRAM	yellow	Continuous	Architectural - Doors Framing
A-DOOR-FULL	yellow	Continuous	Architectural - Doors Full Height
A-DOOR-FULL-E	52	Continuous	Architectural - Doors Full Height-Existing
A-DOOR-PRHT	yellow	Continuous	Architectural - Doors Partial Height
A-DOOR-PRHT-E	52	Continuous	Architectural - Doors Partial Height- Existing
A-EQPM	red	Continuous	Architectural - Equipment
A-EQPM-ACCS	red	Continuous	Architectural - Equipment Access
A-EQPM-ACCS-E	12	Continuous	Architectural - Equipment Access-Existing
A-EQPM-E	12	Continuous	Architectural - Equipment-Existing
A-EQPM-FIXD	red	Continuous	Architectural - Equipment Fixed
A-EQPM-FIXD-E	12	Continuous	Architectural - Equipment Fixed-Existing
A-EQPM-OVHD	red	Continuous	Architectural - Equipment Overhead
A-EQPM-OVHD-E	12	Continuous	Architectural - Equipment Overhead- Existing

A-EQPM-PAD	8	Continuous	Architectural - Doors-Existing
A-FLOR	magenta	Continuous	Architectural - Floor
A-FLOR-CSWK	magenta	Continuous	Architectural - Floor Casework
A-FLOR-CSWK-E	222	Continuous	Architectural - Floor Casework-Existing
A-FLOR-E	222	Continuous	Architectural - Floor-Existing
A-FLOR-EVTR	green	Continuous	Architectural - Floor Elevator
A-FLOR-EVTR-E	82	Continuous	Architectural - Floor Elevator-Existing
A-FLOR-HRAL	30	Continuous	Architectural - Floor Handrail
A-FLOR-HRAL-E	32	Continuous	Architectural - Floor Handrail-Existing
A-FLOR-LEVL	magenta	Continuous	Architectural - Floor Level Changes
A-FLOR-LEVL-E	222	Continuous	Architectural - Floor Level Changes-Existing
A-FLOR-OTLN	8	Continuous	Architectural - Floor Outline
A-FLOR-OTLN-E	9	Continuous	Architectural - Floor Outline-Existing
A-FLOR-OVHD	8	Continuous	Architectural - Floor Overhead
A-FLOR-OVHD-E	9	Continuous	Architectural - Floor Overhead-Existing
A-FLOR-PATT	9	Continuous	Architectural - Floor Pattern
A-FLOR-RAIS	magenta	Continuous	Architectural - Floor Raised
A-FLOR-RAIS-E	222	Continuous	Architectural - Floor Raised-Existing
A-FLOR-RISR	magenta	Continuous	Architectural - Floor Risers
A-FLOR-RISR-E	222	Continuous	Architectural - Floor Risers-Existing
A-FLOR-SIGN	red	Continuous	Architectural - Floor Signage
A-FLOR-SIGN-E	12	Continuous	Architectural - Floor Signage-Existing
A-FLOR-SPCL	blue	Continuous	Architectural - Floor Specialties
A-FLOR-SPCL-E	152	Continuous	Architectural - Floor Specialties-Existing
A-FLOR-STRS	magenta	Continuous	Architectural - Floor Stair Risers
A-FLOR-STRS-E	222	Continuous	Architectural - Floor Stair Risers-Existing
A-FLOR-TPTN	blue	Continuous	Architectural - Toilet Partions
A-FLOR-TPTN-E	152	Continuous	Architectural - Toilet Partions-Existing
A-FLOR-WDWK	magenta	Continuous	Architectural - Woodwork
A-FLOR-WDWK-E	222	Continuous	Architectural - Woodwork-Existing
A-FURN	8	Continuous	Architectural - Furniture
A-FURN-E	9	Continuous	Architectural - Furniture-Existing
A-GLAZ	yellow	Continuous	Architectural - Glazing
A-GLAZ-CURT	yellow	Continuous	Architectural - Glazing Curtain
A-GLAZ-E	52	Continuous	Architectural - Glazing-Existing
A-GLAZ-FULL	yellow	Continuous	Architectural - Glazing Full Height
A-GLAZ-FULL-E	52	Continuous	Architectural - Glazing Full Height-Existing
A-GLAZ-PRHT	yellow	Continuous	Architectural - Glazing Partial Height
A-GLAZ-PRHT-E	52	Continuous	Architectural - Glazing Partial Height-Existing

A-GLAZ-SILL	yellow	Continuous	Architectural - Window Sills
A-GLAZ-SILL-E	52	Continuous	Architectural - Window Sills-Existing
A-ROOF	cyan	Continuous	Architectural - Roof
A-ROOF-CRKT	red	Continuous	Architectural - Roof Level Changes
A-ROOF-DRAIN	red	Continuous	Architectural - Roof Drain
A-ROOF-E	132	Continuous	Architectural - Roof-Existing
A-ROOF-HRAL	30	Continuous	Architectural - Roof Handrail
A-ROOF-HRAL-E	32	Continuous	Architectural - Roof Handrail-Existing
A-ROOF-LEVL	cyan	Continuous	Architectural - Roof Level Changes
A-ROOF-LEVL-E	132	Continuous	Architectural - Roof Level Changes-Existing
A-ROOF-MECH	cyan	Continuous	Architectural - Roof Mechanical Unit
A-ROOF-MISC	red	Continuous	Architectural - Misc. Roof Equipment
A-ROOF-OTLN	8	DASHED2	Architectural - Roof Outline
A-ROOF-OTLN-E	9	Continuous	Architectural - Roof Outline-Existing
A-ROOF-RIDG	red	Continuous	
A-ROOF-RISR	30	Continuous	Architectural - Roof Risers
A-ROOF-RISR-E	32	Continuous	Architectural - Roof Risers-Existing
A-ROOF-STRS-E	32	Continuous	Architectural - Roof Stairs-Existing
A-ROOF-STRS-LADD	30	Continuous	Architectural - Roof Stairs
A-WALL	green	Continuous	Architectural - External Wall
A-WALL-CAVI	green	Continuous	Architectural - Wall Cavity
A-WALL-CAVI-E	82	Continuous	Architectural - Wall Cavity-Existing
A-WALL-CNTR	green	Continuous	Architectural - Wall Center
A-WALL-CNTR-E	82	Continuous	Architectural - Wall Center-Existing
A-WALL-CURT	green	Continuous	Architectural - Wall Curtain
A-WALL-CURT-E	82	Continuous	Architectural - Wall Curtain-Existing
A-WALL-E	82	Continuous	Architectural - Wall-Existing
A-WALL-EXTR	green	Continuous	Architectural - External Wall
A-WALL-HEAD	yellow	Continuous	Architectural - Door and Window Headers
A-WALL-HEAD-E	52	Continuous	Architectural - Door and Window Headers-Existing
A-WALL-INTR	green	Continuous	Architectural - Internal Wall
A-WALL-JAMB	yellow	Continuous	Architectural - Door and Window Jambs
A-WALL-JAMB-E	52	Continuous	Architectural - Door and Window Jambs-Existing
A-WALL-MOVE	magenta	DASHED2	Architectural - Walls Moveable
A-WALL-MOVE-E	222	DASHED2	Architectural - Walls Moveable-Existing
A-WALL-PATT	blue	Continuous	Architectural - Wall Texture and Hatch Patterns

A-WALL-PATT-E	152	Continuous	Architectural - Wall Texture and Hatch Patterns-Existing
A-WALL-PRHT	blue	Continuous	Architectural - Wall Partial Height
A-WALL-PRHT-E	152	Continuous	Architectural - Wall Partial Height-Existing
C-ANNO-DIMS	red	Continuous	Civil Extension lines, dimension arrowheads/dots/slashes, dimension text
C-ANNO-HTCH-BRDR	blue	Continuous	Civil Hatch Pattern Border
C-ANNO-HTCH-PATT	9	Continuous	Civil Hatch Pattern
C-ANNO-IDEN	yellow	Continuous	Civil Identification Tags
C-ANNO-KEYN	30	Continuous	Civil Keynotes with associated leader lines and arrowheads
C-ANNO-LOGO	red	Continuous	Civil Consultant Logo
C-ANNO-MARK	red	Continuous	Civil Markers, Break Lines, Match-lines
C-ANNO-NOTE	30	Continuous	Civil General notes and general remarks
C-ANNO-NPLT	red	Continuous	Civil Construction lines, reference targets, area calculations, viewport windows
C-ANNO-PATT	9	Continuous	Civil Miscellaneous patterning and cross-hatching
C-ANNO-REVC	blue	Continuous	Civil Revision Cloud and Delta
C-ANNO-SCHD	yellow	Continuous	Civil Schedules
C-ANNO-STMP	yellow	Continuous	Civil Stamp
C-ANNO-SYMB	yellow	Continuous	Civil Miscellaneous symbols
C-ANNO-TEXT	30	Continuous	Civil Miscellaneous text and callouts with associated leader lines and arrowheads
C-ANNO-TITL	yellow	Continuous	Civil Drawing and Detail Titles
C-ANNO-TTBL	red	Continuous	Civil Border and title block
C-ANNO-XREF	8	Continuous	Civil Reference files
C-BLDG	cyan	Continuous	Civil - Building
C-BLDG-E	132	Continuous	Civil - Building-Existing
C-BLDG-OTLN	8	Continuous	Civil - Building Outline
C-BLDG-OTLN-E	9	Continuous	Civil - Building Outline-Existing
C-BOLLARD	8	Continuous	Civil - Building Outline
C-BORE	8	Continuous	Civil - Borings
C-BORE-E	9	Continuous	Civil - Borings-Existing
C-ESMT	red	Continuous	Civil Easements
C-ESMT-ACCS	red	Continuous	Civil Easements - Access
C-ESMT-ACCS-E	12	Continuous	Civil Easements - Access-Existing
C-ESMT-CATV	red	Continuous	Civil Easements - Cable
C-ESMT-CATV-E	12	Continuous	Civil Easements - Cable-Existing
C-ESMT-E	12	Continuous	Civil Easements-Existing

C-ESMT-ELEC	red	Continuous	Civil Easements - Electric
C-ESMT-ELEC-E	12	Continuous	Civil Easements - Electric-Existing
C-ESMT-NGAS	red	Continuous	Civil Easements - Natural Gas
C-ESMT-NGAS-E	12	Continuous	Civil Easements - Natural Gas-Existing
C-ESMT-PHON	red	Continuous	Civil Easements - Telephone
C-ESMT-PHON-E	12	Continuous	Civil Easements - Telephone-Existing
C-ESMT-RWAY	red	Continuous	Civil Easements - Right of Way
C-ESMT-RWAY-E	12	Continuous	Civil Easements - Right of Way-Existing
C-ESMT-SSWR	red	Continuous	Civil Easements - Sanitary Sewer
C-ESMT-SSWR-E	12	Continuous	Civil Easements - Sanitary Sewer-Existing
C-ESMT-STRM	red	Continuous	Civil Easements - Storm Sewer
C-ESMT-STRM-E	12	Continuous	Civil Easements - Storm Sewer-Existing
C-ESMT-SWMT	red	Continuous	Civil Easements - Storm Water Management
C-ESMT-SWMT-E	12	Continuous	Civil Easements - Storm Water Management-Existing
C-ESMT-UTIL	red	Continuous	Civil Easements - Utility Lines
C-ESMT-UTIL-E	12	Continuous	Civil Easements - Utility Lines-Existing
C-ESMT-WATR	red	Continuous	Civil Easements - Water
C-ESMT-WATR-E	12	Continuous	Civil Easements - Water-Existing
C-FENC	yellow	FENCELINE1	Civil - Fence
C-FENC-E	52	FENCELINE1	Civil - Fence-Existing
C-FENC-POST	yellow	Continuous	Civil - Fence Post
C-FENC-POST-E	52	Continuous	Civil - Fence Post-Existing
C-FENC-STEL	yellow	FENCELINE2	Civil - Fence Steel
C-FENC-STEL-E	52	FENCELINE2	Civil - Fence Steel-Existing
C-FIRE	blue	Continuous	Civil - Fire
C-FIRE-E	152	Continuous	Civil - Fire-Existing
C-FIRE-HYDT	blue	Continuous	Civil - Fire Hydrant
C-FIRE-HYDT-E	152	Continuous	Civil - Fire Hydrant-Existing
C-FIRE-PIPE	blue	Continuous	Civil - Fire Protection Pipes
C-FIRE-PIPE-E	152	Continuous	Civil - Fire Protection Pipes-Existing
C-FIRE-UGND	blue	Continuous	Civil - Fire Protection Underground
C-FIRE-UGND-E	152	Continuous	Civil - Fire Protection Underground-Existing
C-FUEL	blue	Continuous	Civil - Fuel Systems
C-FUEL-E	152	Continuous	Civil - Fuel Systems-Existing
C-FUEL-EQPM	blue	Continuous	Civil - Fuel System Equipment
C-FUEL-EQPM-E	152	Continuous	Civil - Fuel System Equipment-Existing
C-FUEL-PIPE	blue	Continuous	Civil - Fuel System Piping

C-FUEL-PIPE-E	152	Continuous	Civil - Fuel System Piping-Existing
C-FUEL-TANK	blue	Continuous	Civil - Fuel System Tank
C-FUEL-TANK-E	152	Continuous	Civil - Fuel System Tank-Existing
C-FUEL-UGND	blue	Continuous	Civil - Fuel System Underground
C-FUEL-UGND-E	152	Continuous	Civil - Fuel System Underground-Existing
C-PAVE-STRP-W	white	Continuous	Civil - Pavement Striping White
C-PAVE-STRP-Y	yellow	Continuous	Civil - Pavement Striping Yellow
C-POWR	green	Continuous	Civil - Power
C-POWR-E	82	Continuous	Civil - Power-Existing
C-POWR-MHOL	green	Continuous	Civil - Power Manhole
C-POWR-MHOL-E	82	Continuous	Civil - Power Manhole-Existing
C-POWR-OVHD	green	Continuous	Civil - Power Overhead
C-POWR-OVHD-E	82	Continuous	Civil - Power Overhead-Existing
C-POWR-POLE	green	Continuous	Civil - Power Pole
C-POWR-POLE-E	82	Continuous	Civil - Power Pole-Existing
C-POWR-STRC	green	Continuous	Civil - Power Structure
C-POWR-STRC-E	82	Continuous	Civil - Power Structure-Existing
C-POWR-UGND	green	Continuous	Civil - Power Underground
C-POWR-UGND-E	82	Continuous	Civil - Power Underground-Existing
C-PRKG	white	Continuous	Civil - Parking
C-PRKG-CARS	white	Continuous	Civil - Parking Cars
C-PRKG-CARS-E	8	Continuous	Civil - Parking Cars-Existing
C-PRKG-CONC	white	Continuous	Civil - Parking Concrete
C-PRKG-CONC-E	8	Continuous	Civil - Parking Concrete-Existing
C-PRKG-CURB	white	Continuous	Civil - Parking Curb
C-PRKG-CURB-E	8	Continuous	Civil - Parking Curb-Existing
C-PRKG-DRAN	white	Continuous	Civil - Parking Drainage Slope Arrows
C-PRKG-DRAN-E	8	Continuous	Civil - Parking Drainage Slope Arrows-Existing
C-PRKG-E	8	Continuous	Civil - Parking-Existing
C-PRKG-FIXT	green	Continuous	Civil - Parking Fixtures
C-PRKG-FIXT-E	82	Continuous	Civil - Parking Fixtures-Existing
C-PRKG-SIGN	white	Continuous	Civil - Parking Signs
C-PRKG-SIGN-E	8	Continuous	Civil - Parking Signs-Existing
C-PRKG-STRP	white	Continuous	Civil - Parking Stripes
C-PRKG-STRP-E	8	Continuous	Civil - Parking Stripes-Existing
C-PROP-LINE	8	Continuous	Civil - Property Line
C-PROP-LINE-E	9	Continuous	Civil - Property Line-Existing
C-ROAD	white	Continuous	Civil - Roadways
C-ROAD-ASPH	white	Continuous	Civil - Roadway Asphalt

C-ROAD-ASPH-E	8	Continuous	Civil - Roadway Asphalt-Existing
C-ROAD-CURB	white	Continuous	Civil - Roadway Curb
C-ROAD-CURB-E	8	Continuous	Civil - Roadway Curb-Existing
C-ROAD-E	8	Continuous	Civil - Roadways-Existing
C-ROAD-MRKG	white	Continuous	Civil - Roadway Markings
C-ROAD-MRKG-E	8	Continuous	Civil - Roadway Markings-Existing
C-ROAD-SIGN	white	Continuous	Civil - Roadway Signs
C-ROAD-SIGN-E	8	Continuous	Civil - Roadway Signs-Existing
C-ROAD-UPVD	white	Continuous	Civil - Road Unpaved
C-ROAD-UPVD-E	8	Continuous	Civil - Road Unpaved-Existing
C-RRAP	8	Continuous	Civil - Riprap
C-RRAP-E	9	Continuous	Civil - Riprap-Existing
C-SSWR	30	Continuous	Civil - Sanitary Sewer
C-SSWR-E	32	Continuous	Civil - Sanitary Sewer-Existing
C-SSWR-MHOL	30	Continuous	Civil - Sanitary Sewer Manhole
C-SSWR-MHOL-E	32	Continuous	Civil - Sanitary Sewer Manhole-Existing
C-SSWR-PIPE	30	Continuous	Civil - Sanitary Sewer Pipe
C-SSWR-PIPE-E	32	Continuous	Civil - Sanitary Sewer Pipe-Existing
C-SSWR-STAN	30	Continuous	Civil - Sanitary Sewer Stationing
C-SSWR-STAN-E	32	Continuous	Civil - Sanitary Sewer Stationing-Existing
C-SSWR-STRC	30	Continuous	Civil - Sanitary Sewer Structure
C-SSWR-STRC-E	32	Continuous	Civil - Sanitary Sewer Structure-Existing
C-SSWR-UGND	30	Continuous	Civil - Sanitary Sewer Underground
C-SSWR-UGND-E	32	Continuous	Civil - Sanitary Sewer Underground-Existing
C-STRM	30	Continuous	Civil - Storm Sewer
C-STRM-E	32	Continuous	Civil - Storm Sewer-Existing
C-STRM-MHOL	30	Continuous	Civil - Storm Sewer Manhole
C-STRM-MHOL-E	32	Continuous	Civil - Storm Sewer Manhole-Existing
C-STRM-PIPE	30	Continuous	Civil - Storm Sewer Pipe
C-STRM-PIPE-E	32	Continuous	Civil - Storm Sewer Pipe-Existing
C-STRM-STAN	30	Continuous	Civil - Storm Sewer Stationing
C-STRM-STAN-E	32	Continuous	Civil - Storm Sewer Stationing-Existing
C-STRM-STRC	30	Continuous	Civil - Storm Sewer Structure
C-STRM-STRC-E	32	Continuous	Civil - Storm Sewer Structure-Existing
C-STRM-UGND	30	Continuous	Civil - Storm Sewer Underground
C-STRM-UGND-E	32	Continuous	Civil - Storm Sewer Underground-Existing
C-SWLK	white	Continuous	Civil - Sidewalk
C-SWLK-E	8	Continuous	Civil - Sidewalk-Existing
C-TOPO	11	Continuous	Civil - Topographic Feature

C-TOPO-E	11	Continuous	Civil - Topographic Feature-Existing
C-TOPO-MAJR	11	Continuous	Civil - Contour Major
C-TOPO-MAJR-E	11	Continuous	Civil - Contour Major-Existing
C-TOPO-MINR	11	Continuous	Civil - Contour Minor
C-TOPO-MINR-E	11	Continuous	Civil - Contour Minor-Existing
C-TOPO-SPOT	11	Continuous	Civil - Topo Spot Elevation
C-TOPO-SPOT-E	11	Continuous	Civil - Topo Spot Elevation-Existing
C-WALL	magenta	Continuous	Civil - Wall
C-WALL-E	222	Continuous	Civil - Wall-Existing
C-WALL-RTWL	magenta	Continuous	Civil - Retaining Wall
C-WALL-RTWL-E	222	Continuous	Civil - Retaining Wall-Existing
C-WATR	blue	Continuous	Civil - Water
C-WATR-E	152	Continuous	Civil - Water-Existing
C-WATR-PIPE	blue	Continuous	Civil - Water Pipe
C-WATR-PIPE-E	152	Continuous	Civil - Water Pipe-Existing
C-WATR-STRC	blue	Continuous	Civil - Water Structure
C-WATR-STRC-E	152	Continuous	Civil - Water Structure-Existing
C-WATR-UGND	blue	Continuous	Civil - Water Underground
C-WATR-UGND-E	152	Continuous	Civil - Water Underground-Existing
Defpoints	white	Continuous	
E-ALRM	green	Continuous	Electrical - Alarm System
E-ALRM-E	82	Continuous	Electrical - Alarm System-Existing
E-ANNO-DIMS	red	Continuous	Electrical Extension lines, dimension arrowheads/dots/slashes, dimension text
E-ANNO-HTCH-BRDR	blue	Continuous	Electrical Hatch Pattern Border
E-ANNO-HTCH-PATT	9	Continuous	Electrical Hatch Pattern
E-ANNO-IDEN	yellow	Continuous	Electrical Identification Tags
E-ANNO-KEYN	30	Continuous	Electrical Keynotes with associated leader lines and arrowheads
E-ANNO-LOGO	red	Continuous	Electrical Consultant Logo
E-ANNO-MARK	red	Continuous	Electrical Markers, Break Lines, Match-lines
E-ANNO-NOTE	30	Continuous	Electrical General notes and general remarks
E-ANNO-NPLT	red	Continuous	Electrical Construction lines, reference targets, area calculations, viewport windows
E-ANNO-PATT	9	Continuous	Electrical Miscellaneous patterning and cross-hatching
E-ANNO-REVC	blue	Continuous	Electrical Revision Cloud and Delta

E-ANNO-SCHD	yellow	Continuous	Electrical Schedules
E-ANNO-STMP	yellow	Continuous	Electrical Stamp
E-ANNO-SYMB	yellow	Continuous	Electrical Miscellaneous symbols
E-ANNO-TEXT	30	Continuous	Electrical Miscellaneous text and callouts with associated leader lines and arrowheads
E-ANNO-TITL	yellow	Continuous	Electrical Drawing and Detail Titles
E-ANNO-TTBL	red	Continuous	Electrical Border and title block
E-ANNO-XREF	8	Continuous	Electrical Reference files
E-AUXL	yellow	Continuous	Electrical - Auxiliary Systems
E-AUXL-E	52	Continuous	Electrical - Auxiliary Systems-Existing
E-BELL	green	Continuous	Electrical - Bell System
E-BELL-E	82	Continuous	Electrical - Bell System-Existing
E-CCTV	blue	Continuous	Electrical - Closed Circuit Television System
E-CCTV-E	152	Continuous	Electrical - Closed Circuit Television System-Existing
E-CONT	red	Continuous	Electrical - Controls and Instrumentation
E-CONT-DEVC	red	Continuous	Electrical Controls and Instrumentation - Devices
E-CONT-DEVC-E	12	Continuous	Electrical Controls and Instrumentation - Devices-Existing
E-CONT-E	12	Continuous	Electrical - Controls and Instrumentation-Existing
E-CONT-WIRE	red	Continuous	Electrical Controls and Instrumentation - Wiring
E-CONT-WIRE-E	12	Continuous	Electrical Controls and Instrumentation - Wiring-Existing
E-DATA	blue	Continuous	Electrical - Data/Lan System
E-DATA-CABL	blue	Continuous	Electrical - Data/Lan System-Cable/Power Pole
E-DATA-CIRC	blue	Continuous	Electrical - Data/Lan System Circuits
E-DATA-CIRC-E	152	Continuous	Electrical - Data/Lan System Circuits-Existing
E-DATA-CNMB	30	Continuous	Electrical - Data/Lan System Circuit Number
E-DATA-CNMB-E	32	Continuous	Electrical - Data/Lan System Circuit Number-Existing
E-DATA-E	152	Continuous	Electrical - Data/Lan System-Existing
E-DATA-EQPM	blue	Continuous	Electrical - Data/Lan System Equipment
E-DATA-EQPM-E	152	Continuous	Electrical - Data/Lan System Equipment-Existing
E-DATA-FLOR	blue	Continuous	Electrical - Data/Lan System Floor

E-DATA-FLOR-E	152	Continuous	Electrical - Data/Lan System Floor-Existing
E-DATA-TWAP	cyan	Continuous	Electrical - Data/Lan System: Wireless Access Point
E-DATA-WALL	blue	Continuous	Electrical - Data/Lan System Wall
E-DATA-WALL-E	152	Continuous	Electrical - Data/Lan System Wall-Existing
E-DIAG	yellow	Continuous	Electrical - Diagrams
E-DIAG-BUSS	blue	Continuous	Electrical - Diagrams - Bus Duct
E-DIAG-BUSS-E	152	Continuous	Electrical - Diagrams - Bus Duct-Existing
E-DIAG-CONT	red	Continuous	Electrical - Diagrams - Control
E-DIAG-CONT-E	12	Continuous	Electrical - Diagrams - Control-Existing
E-DIAG-E	52	Continuous	Electrical - Diagrams-Existing
E-DIAG-ENCL	magenta	Continuous	Electrical - Diagrams - Equipment Enclosures
E-DIAG-ENCL-E	222	Continuous	Electrical - Diagrams - Equipment Enclosures-Existing
E-DIAG-EQPM	magenta	Continuous	Electrical - Diagrams - Equipment
E-DIAG-EQPM-E	222	Continuous	Electrical - Diagrams - Equipment-Existing
E-DIAG-FEED	yellow	Continuous	Electrical - Diagrams - Feeders
E-DIAG-FEED-E	52	Continuous	Electrical - Diagrams - Feeders-Existing
E-DIAG-FLOR	8	Continuous	Electrical - Diagrams - Floor
E-DIAG-FLOR-E	9	Continuous	Electrical - Diagrams - Floor-Existing
E-DIAG-GRND	green	Continuous	Electrical - Diagrams - Ground
E-DIAG-GRND-E	82	Continuous	Electrical - Diagrams - Ground-Existing
E-DIAG-PANL	magenta	Continuous	Electrical - Diagrams - Panel/Switchboards
E-DIAG-PANL-E	222	Continuous	Electrical - Diagrams - Panel/Switchboards-Existing
E-DIAG-SWCH	magenta	Continuous	Electrical - Diagrams - Switches
E-DIAG-SWCH-E	222	Continuous	Electrical - Diagrams - Switches-Existing
E-DIAG-XFMR	magenta	Continuous	Electrical - Diagrams - Transformers
E-DIAG-XFMR-E	222	Continuous	Electrical - Diagrams - Transformers-Existing
E-FIRE	green	Continuous	Electrical - Fire Protection
E-FIRE-CIRC	yellow	Continuous	Electrical - Fire Protection Circuits
E-FIRE-CIRC-E	52	Continuous	Electrical - Fire Protection Circuits-Existing
E-FIRE-CLNG	green	Continuous	Electrical - Fire Protection Ceiling
E-FIRE-CLNG-E	82	Continuous	Electrical - Fire Protection Ceiling-Existing
E-FIRE-CNMB	yellow	Continuous	Electrical - Fire Protection Circuit Number
E-FIRE-CNMB-E	52	Continuous	Electrical - Fire Protection Circuit Number-Existing
E-FIRE-E	82	Continuous	Electrical - Fire Protection-Existing
E-FIRE-EQPM	green	Continuous	Electrical - Fire Protection Equipment

E-FIRE-EQPM-E	82	Continuous	Electrical - Fire Protection Equipment-Existing
E-FIRE-EQPM-R	yellow	Continuous	Fire Alarm Equipment: Roof
E-FIRE-NOTE	30	Continuous	Electrical - Fire Protection
E-FIRE-PANL	green	Continuous	Fre Alarm Panel
E-FIRE-WALL	green	Continuous	Electrical - Fire Protection Wall
E-FIRE-WALL-E	82	Continuous	Electrical - Fire Protection Wall-Existing
E-GRND	magenta	Continuous	Electrical - Ground System
E-GRND-CIRC	magenta	Continuous	Electrical - Ground System Circuits
E-GRND-CIRC-E	222	Continuous	Electrical - Ground System Circuits-Existing
E-GRND-CNMB	30	Continuous	Electrical - Ground System Circuit Number
E-GRND-CNMB-E	32	Continuous	Electrical - Ground System Circuit Number-Existing
E-GRND-DIAG	30	Continuous	Electrical - Ground System Diagram
E-GRND-DIAG-E	32	Continuous	Electrical - Ground System Diagram-Existing
E-GRND-E	222	Continuous	Electrical - Ground System-Existing
E-GRND-EQPM	magenta	Continuous	Electrical - Ground System Equipment
E-GRND-EQPM-E	222	Continuous	Electrical - Ground System Equipment-Existing
E-GRND-WALL	magenta	Continuous	Electrical - Ground System Wall
E-GRND-WALL-E	222	Continuous	Electrical - Ground System Wall-Existing
E-LITE	cyan	Continuous	Electrical - Lighting
E-LITE-CIRC	yellow	Continuous	Electrical - Lighting Circuits
E-LITE-CIRC-E	52	Continuous	Electrical - Lighting Circuits-Existing
E-LITE-CIRC-EMER	yellow	Continuous	Electrical - Lighting Circuits Emergency
E-LITE-CIRC-EMER-E	52	Continuous	Electrical - Lighting Circuits Emergency-Existing
E-LITE-CNMB	30	Continuous	Electrical - Lighting Circuit Number
E-LITE-CNMB-E	32	Continuous	Electrical - Lighting Circuit Number-Existing
E-LITE-CNMB-EMER	30	Continuous	Electrical - Lighting Circuit Number Emergency
E-LITE-CNMB-EMER-E	32	Continuous	Electrical - Lighting Circuit Number Emergency-Existing
E-LITE-E	152	Continuous	Electrical - Lighting-Existing
E-LITE-EMER	cyan	Continuous	Electrical - Lighting Emergency
E-LITE-EMER-E	132	Continuous	Electrical - Lighting Emergency-Existing
E-LITE-EQPM	green	Continuous	Electrical - Lighting Equipment
E-LITE-EQPM-E	82	Continuous	Electrical - Lighting Equipment-Existing
E-LITE-EQPM-EMER	green	Continuous	Electrical - Lighting Equipment Emergency

E-LITE-EQPM-EMER-E	82	Continuous	Electrical - Lighting Equipment Emergency-Existing
E-LITE-EXIT	cyan	Continuous	Electrical - Lighting - Exit
E-LITE-EXIT-E	132	Continuous	Electrical - Lighting - Exit-Existing
E-LITE-EXTR	cyan	Continuous	Electrical - Lighting -Exterior
E-LITE-EXTR-E	132	Continuous	Electrical - Lighting -Exterior-Existing
E-LITE-SWCH	yellow	Continuous	Electrical - Lighting - Switches
E-LITE-SWCH-CRIT	yellow	Continuous	ELECTRICAL LIGHTING SWITCHING CRITICAL NEW
E-LITE-SWCH-E	52	Continuous	Electrical - Lighting - Switches-Existing
E-LTNG	white	Continuous	Electrical - Lightning Protection System
E-LTNG-CIRC	30	Continuous	Electrical - Lightning Protection System Circuit
E-LTNG-CIRC-E	32	Continuous	Electrical - Lightning Protection System Circuit-Existing
E-LTNG-CLNG	white	Continuous	Electrical - Lightning Protection System Ceiling
E-LTNG-CLNG-E	8	Continuous	Electrical - Lightning Protection System Ceiling-Existing
E-LTNG-CNMB	30	Continuous	Electrical - Lightning Protection System Circuit Number
E-LTNG-CNMB-E	32	Continuous	Electrical - Lightning Protection System Circuit Number-Existing
E-LTNG-E	8	Continuous	Electrical - Lightning Protection System- Existing
E-LTNG-EQPM	white	Continuous	Electrical - Lightning Protection System Equipment
E-LTNG-EQPM-E	8	Continuous	Electrical - Lightning Protection System Equipment-Existing
E-LTNG-WALL	white	Continuous	Electrical - Lightning Protection System Wall
E-LTNG-WALL-E	8	Continuous	Electrical - Lightning Protection System Wall-Existing
E-POWR	yellow	Continuous	Electrical - Power
E-POWR-BUSW	blue	Continuous	Electrical - Power Busways
E-POWR-BUSW-E	152	Continuous	Electrical - Power Busways-Existing
E-POWR-CABL	blue	Continuous	Electrical - Power Cable Systems
E-POWR-CABL-E	152	Continuous	Electrical - Power Cable Systems-Existing
E-POWR-CIRC	yellow	Continuous	Electrical - Power Circuits
E-POWR-CIRC-CRIT	blue	Continuous	Electrical - Power Circuits Critical
E-POWR-CIRC-CRIT-E	152	Continuous	Electrical - Power Circuits Critical-Existing
E-POWR-CIRC-E	52	Continuous	Electrical - Power Circuits-Existing

E-POWR-CLNG	yellow	Continuous	Electrical - Power - Ceiling
E-POWR-CLNG-CRIT	blue	Continuous	Electrical - Power - Ceiling Critical
E-POWR-CLNG-CRIT-E	152	Continuous	Electrical - Power - Ceiling Critical-Existing
E-POWR-CLNG-E	52	Continuous	Electrical - Power - Ceiling-Existing
E-POWR-CNDT	yellow	Continuous	Electrical - Power - Conduit
E-POWR-CNDT-E	52	Continuous	Electrical - Power - Conduit-Existing
E-POWR-CNMB	30	Continuous	Electrical - Power Circuit Number
E-POWR-CNMB-CRIT	blue	Continuous	Electrical - Power Circuit Number - Critical
E-POWR-CNMB-CRIT-E	152	Continuous	Electrical - Power Circuit Number - Critical-Existing
E-POWR-CNMB-E	32	Continuous	Electrical - Power Circuit Number-Existing
E-POWR-DEVC	yellow	Continuous	Electrical - Power Devices
E-POWR-DEVC-E	52	Continuous	Electrical - Power Devices-Existing
E-POWR-E	52	Continuous	Electrical - Power-Existing
E-POWR-EQPM	yellow	Continuous	Electrical - Power Equipment
E-POWR-EQPM-CRIT	blue	Continuous	Electrical - Power Equipment - Critical
E-POWR-EQPM-CRIT-E	152	Continuous	Electrical - Power Equipment - Critical-Existing
E-POWR-EQPM-E	52	Continuous	Electrical - Power Equipment-Existing
E-POWR-EXTR	yellow	Continuous	Electrical - Power Exterior
E-POWR-EXTR-E	52	Continuous	Electrical - Power Exterior-Existing
E-POWR-FEED	yellow	Continuous	Electrical - Power Feeders
E-POWR-FEED-E	52	Continuous	Electrical - Power Feeders-Existing
E-POWR-FLOR	yellow	Continuous	Electrical - Power Floor
E-POWR-FLOR-CRIT	blue	Continuous	Electrical - Power Floor - Critical
E-POWR-FLOR-CRIT-E	152	Continuous	Electrical - Power Floor - Critical-Existing
E-POWR-FLOR-E	52	Continuous	Electrical - Power Floor-Existing
E-POWR-JBOX	yellow	Continuous	Electrical - Power Junction Box
E-POWR-JBOX-E	52	Continuous	Electrical - Power Junction Box-Existing
E-POWR-PANL	green	Continuous	Electrical - Power Panels
E-POWR-PANL-E	82	Continuous	Electrical - Power Panels-Existing
E-POWR-PANL-HTCH	9	Continuous	Electrical - Power Panel Hatch
E-POWR-PANL-HTCH-E	9	Continuous	Electrical - Power Panel Hatch-Existing
E-POWR-PANL-IDEN	yellow	Continuous	Electrical - Power Panels Identifications
E-POWR-SWBD	green	Continuous	Electrical - Power Switchboards
E-POWR-SWBD-E	82	Continuous	Electrical - Power Switchboards-Existing
E-POWR-URAC	yellow	Continuous	Electrical - Power Underfloor Raceways
E-POWR-URAC-E	52	Continuous	Electrical - Power Underfloor Raceways-Existing
E-POWR-XFMR-PADM	green	Continuous	Electrical - Transformers - Pad Mounted

E-POWR-XFMR-PADM-E	82	Continuous	Electrical - Transformers - Pad Mounted-Existing
E-POWR-XFMR-POLM	green	Continuous	Electrical - Transformers - Pole Mounted
E-POWR-XFMR-POLM-E	82	Continuous	Electrical - Transformers - Pole Mounted-Existing
E-PVMD	red	Continuous	Electrical - Photovoltaic Modules
E-PVMD-E	12	Continuous	Electrical - Photovoltaic Modules-Existing
E-SITE	yellow	Continuous	Electrical - Site Features
E-SITE-E	52	Continuous	Electrical - Site Features-Existing
E-SITE-OVHD	yellow	Continuous	Electrical - Site Features Overhead
E-SITE-OVHD-E	52	Continuous	Electrical - Site Features Overhead-Existing
E-SITE-POLE	yellow	Continuous	Electrical - Site Features Pole
E-SITE-POLE-E	52	Continuous	Electrical - Site Features Pole-Existing
E-SITE-UGND	yellow	Continuous	Electrical - Site Features Underground
E-SITE-UGND-E	52	Continuous	Electrical - Site Features Underground-Existing
F-ANNO-DIMS	red	Continuous	Fire Sprinkler Dimensions
F-ANNO-IDEN	yellow	Continuous	Domestic Water Systems - Cold Water Piping
F-ANNO-NOTE	30	Continuous	Fire Sprinkler General notes and general remarks
F-ANNO-NPLT	red	Continuous	Fire Sprinkler Construction lines, reference targets, area calculations, viewport windows
F-ANNO-TEXT	30	Continuous	Architectural Miscellaneous text and callouts with associated leader lines and arrowheads
F-ANNO-TITL	yellow	Continuous	Fire Sprinkler Drawing and Detail Titles
F-ANNO-TTBL	red	Continuous	Fire Sprinkler Border and title block
F-PROT-ALRM	green	Continuous	Fire Protection System: Alarm, Strobes
F-PROT-DEVC	yellow	Continuous	Domestic Water Systems - Cold Water Piping
F-PROT-EQPM	green	Continuous	Fire Protection System: Equipment
F-PROT-EXTI	yellow	Continuous	Domestic Water Systems - Cold Water Piping
F-PROT-EXTI-IDEN	yellow	Continuous	Domestic Water Systems - Cold Water Piping
F-PROT-FDC	yellow	Continuous	Domestic Water Systems - Cold Water Piping
F-PROT-SMOK	green	Continuous	Fire Protection System: Smoke Detector, Heat Sensors

F-PROT-SMOK-R	green	Continuous	Fire Protection System: Roof Smoke Detector, Heat Sensors
F-SPKL	blue	Continuous	Fire Sprinkler
F-SPKL-CLHD	blue	Continuous	Fire Sprinkler Ceiling Head
F-SPKL-EQPM	cyan	Continuous	Fire Sprinkler Equipment
F-SPKL-PIPE	green	Continuous	Fire Sprinkler Piping
F-SPKL-PIPE-SUPT	magenta	Continuous	Fire Sprinkler Piping Supports
L-SITE-WALL	white	Continuous	Site Features - Wall
L-SITE-WALL-E	8	Continuous	Site Features - Wall-Existing
M-ANNO-DIMS	red	Continuous	Mechanical Extension lines, dimension arrowheads/dots/slashes, dimension text
M-ANNO-HTCH-BRDR	blue	Continuous	Mechanical Hatch Pattern Border
M-ANNO-HTCH-PATT	9	Continuous	Mechanical Hatch Pattern
M-ANNO-IDEN	yellow	Continuous	Mechanical Identification Tags
M-ANNO-KEYN	30	Continuous	Mechanical Keynotes with associated leader lines and arrowheads
M-ANNO-LOGO	red	Continuous	Mechanical Consultant Logo
M-ANNO-MARK	red	Continuous	Mechanical Markers, Break Lines, Match-lines
M-ANNO-NOTE	30	Continuous	Mechanical General notes and general remarks
M-ANNO-NPLT	red	Continuous	Mechanical Construction lines, reference targets, area calculations, viewport windows
M-ANNO-PATT	9	Continuous	Mechanical Miscellaneous patterning and cross-hatching
M-ANNO-REVC	blue	Continuous	Mechanical Revision Cloud and Delta
M-ANNO-SCHD	yellow	Continuous	Mechanical Schedules
M-ANNO-STMP	yellow	Continuous	Mechanical Stamp
M-ANNO-SYMB	yellow	Continuous	Mechanical Miscellaneous symbols
M-ANNO-TEXT	30	Continuous	Mechanical Miscellaneous text and callouts with associated leader lines and arrowheads
M-ANNO-TITL	yellow	Continuous	Mechanical Drawing and Detail Titles
M-ANNO-TTBL	red	Continuous	Mechanical Border and title block
M-ANNO-XREF	8	Continuous	Mechanical Reference files
M-CMPA-EQPM	cyan	Continuous	Compressed/Processed Air Systems - Process Equipment
M-CMPA-EQPM-E	132	Continuous	Compressed/Processed Air Systems - Process Equipment-Existing

M-CMPA-PIPE	blue	Continuous	Compressed/Processed Air Systems - Piping
M-CMPA-PIPE-E	152	Continuous	Compressed/Processed Air Systems - Piping-Existing
M-CNDW	cyan	Continuous	Condenser Water Systems
M-CNDW-E	132	Continuous	Condenser Water Systems-Existing
M-CNDW-EQPM	cyan	Continuous	Condenser Water Systems - Equipment
M-CNDW-EQPM-E	132	Continuous	Condenser Water Systems - Equipment-Existing
M-CNDW-RETN-PIPE	white	Continuous	Condenser Water Systems - Return Piping
M-CNDW-RETN-PIPE-E	8	Continuous	Condenser Water Systems - Return Piping-Existing
M-CNDW-SPLY-PIPE	yellow	Continuous	Condenser Water Systems - Supply Piping
M-CNDW-SPLY-PIPE-E	52	Continuous	Condenser Water Systems - Supply Piping-Existing
M-CONT-THER	green	Continuous	Controls and Instrumentation - Thermostats
M-CONT-THER-E	82	Continuous	Controls and Instrumentation - Thermostats-Existing
M-CONT-WIRE	red	Continuous	Controls and Instrumentation - Low Voltage Wiring
M-CONT-WIRE-E	12	Continuous	Controls and Instrumentation - Low Voltage Wiring-Existing
M-CWTR-CNDS	yellow	Continuous	Chilled Water Systems - Condensate Piping
M-CWTR-CNDS-E	52	Continuous	Chilled Water Systems - Condensate Piping-Existing
M-CWTR-EQPM	cyan	Continuous	Chilled Water Systems - Equipment
M-CWTR-EQPM-E	132	Continuous	Chilled Water Systems - Equipment-Existing
M-CWTR-PIPE-SUPT	magenta	Continuous	Chilled Water Piping Supports
M-CWTR-RETN-PIPE	yellow	Continuous	Chilled Water Systems - Return Piping
M-CWTR-RETN-PIPE-E	52	Continuous	Chilled Water Systems - Return Piping-Existing
M-CWTR-SPLY-PIPE	yellow	Continuous	Chilled Water Systems - Supply Piping
M-CWTR-SPLY-PIPE-E	52	Continuous	Chilled Water Systems - Supply Piping-Existing
M-ENER-EQPM	cyan	Continuous	Energy Management Systems - Equipment
M-ENER-EQPM-E	132	Continuous	Energy Management Systems - Equipment-Existing
M-ENER-WIRE	red	Continuous	Energy Management Systems - Wiring
M-ENER-WIRE-E	12	Continuous	Energy Management Systems - Wiring-Existing

M-EXHS-CDFF	green	Continuous	Exhaust System - Ceiling Diffusers
M-EXHS-CDFF-E	82	Continuous	Exhaust System - Ceiling Diffusers-Existing
M-EXHS-DUCT	green	Continuous	Exhaust System - Ductwork
M-EXHS-DUCT-E	82	Continuous	Exhaust System - Ductwork-Existing
M-EXHS-EQPM	cyan	Continuous	Exhaust System - Equipment
M-EXHS-EQPM-E	132	Continuous	Exhaust System - Equipment-Existing
M-EXHS-EQPM-HTCH	9	Continuous	Exhaust System - Equipment Hatch
M-FUEL-EQPM	cyan	Continuous	Fuel Systems - Equipment
M-FUEL-EQPM-E	132	Continuous	Fuel Systems - Equipment-Existing
M-FUEL-GGEP	yellow	Continuous	Fuel Systems - Gas General Piping
M-FUEL-GGEP-E	52	Continuous	Fuel Systems - Gas General Piping-Existing
M-HVAC-DMPR	30	Continuous	HVAC Systems - Smoke or Volume Damper
M-HVAC-DMPR-E	52	Continuous	HVAC Systems - Smoke or Volume Damper-Existing
M-HVAC-DOOR	red	DASHED2	HVAC Systems - Equipment Doors
M-HVAC-DOOR-E	12	DASHED2	HVAC Systems - Equipment Doors-Existing
M-HVAC-EQPM	cyan	Continuous	HVAC Systems - Equipment
M-HVAC-EQPM-E	132	Continuous	HVAC Systems - Equipment-Existing
M-HVAC-EQPM-HTCH	9	Continuous	HVAC Systems - Equipment Hatch
M-HVAC-EQPM-HTCH-E	9	Continuous	HVAC Systems - Equipment Hatch-Existing
M-HVAC-EQPM-ROOF	cyan	Continuous	HVAC Systems - Equipment-Roof
M-HVAC-EXHS-DUCT	green	Continuous	HVAC Systems - Exhaust Ductwork
M-HVAC-EXHS-DUCT-E	82	Continuous	HVAC Systems - Exhaust Ductwork-Existing
M-HVAC-EXHS-EQPM	cyan	Continuous	HVAC Systems - Exhaust Equipment
M-HVAC-EXHS-EQPM-E	132	Continuous	HVAC Systems - Exhaust Equipment-Existing
M-HVAC-EXHS-GRIL	green	Continuous	HVAC Systems - Exhaust Grilles
M-HVAC-EXHS-GRIL-E	82	Continuous	HVAC Systems - Exhaust Grilles-Existing
M-HVAC-EXHS-SIZE	30	Continuous	HVAC Systems - Exhaust Ductwork Size
M-HVAC-EXHS-SIZE-E	32	Continuous	HVAC Systems - Exhaust Ductwork Size-Existing
M-HVAC-RDFF	green	Continuous	HVAC Systems - Return Air Diffusers
M-HVAC-RDFF-E	82	Continuous	HVAC Systems - Return Air Diffusers-Existing
M-HVAC-RETN-DUCT	green	Continuous	HVAC Systems - Return Ductwork
M-HVAC-RETN-DUCT-E	82	Continuous	HVAC Systems - Return Ductwork-Existing
M-HVAC-RETN-SIZE	30	Continuous	HVAC Systems - Return Ductwork Size
M-HVAC-RETN-SIZE-E	32	Continuous	HVAC Systems - Return Ductwork Size-Existing
M-HVAC-RFEQ	cyan	Continuous	HVAC System - Rooftop Equipment

M-HVAC-RFEQ-E	132	Continuous	HVAC System - Rooftop Equipment-Existing
M-HVAC-SDFF	green	Continuous	HVAC Systems - Supply Diffusers
M-HVAC-SDFF-E	82	Continuous	HVAC Systems - Supply Diffusers-Existing
M-HVAC-SMOKE	yellow	Continuous	HVAC Systems - Smoke or Heat Sensor
M-HVAC-SMOKE-E	52	Continuous	HVAC Systems - Smoke or Heat Sensor-Existing
M-HVAC-SPLY-DUCT	green	Continuous	HVAC Systems - Supply Ductwork
M-HVAC-SPLY-DUCT-E	82	Continuous	HVAC Systems - Supply Ductwork-Existing
M-HVAC-SPLY-SIZE	30	Continuous	HVAC Systems - Supply Ductwork Size
M-HVAC-SPLY-SIZE-E	32	Continuous	HVAC Systems - Supply Ductwork Size-Existing
M-REFG-PIPE	magenta	Continuous	Mechanical Refrigeration System Piping
P-ANNO-DIMS	red	Continuous	Plumbing Extension lines, dimension arrowheads/dots/slashes, dimension text
P-ANNO-HTCH-BRDR	blue	Continuous	Plumbing Hatch Pattern Border
P-ANNO-HTCH-PATT	9	Continuous	Plumbing Hatch Pattern
P-ANNO-IDEN	yellow	Continuous	Plumbing Identification Tags
P-ANNO-KEYN	30	Continuous	Plumbing Keynotes with associated leader lines and arrowheads
P-ANNO-LOGO	red	Continuous	Plumbing Consultant Logo
P-ANNO-MARK	red	Continuous	Plumbing Markers, Break Lines, Match-lines
P-ANNO-NOTE	30	Continuous	Plumbing General notes and general remarks
P-ANNO-NPLT	red	Continuous	Plumbing Construction lines, reference targets, area calculations, viewport windows
P-ANNO-PATT	9	Continuous	Plumbing Miscellaneous patterning and cross-hatching
P-ANNO-REVC	blue	Continuous	Plumbing Revision Cloud and Delta
P-ANNO-SCHD	yellow	Continuous	Plumbing Schedules
P-ANNO-STMP	yellow	Continuous	Plumbing Stamp
P-ANNO-SYMB	yellow	Continuous	Plumbing Miscellaneous symbols
P-ANNO-TEXT	30	Continuous	Plumbing Miscellaneous text and callouts with associated leader lines and arrowheads
P-ANNO-TITL	yellow	Continuous	Plumbing Drawing and Detail Titles
P-ANNO-TTBL	red	Continuous	Plumbing Border and title block
P-ANNO-XREF	8	Continuous	Plumbing Reference files

P-DOMW-CPIP	yellow	Continuous	Domestic Water Systems - Cold Water Piping
P-DOMW-CPIP-E	52	Continuous	Domestic Water Systems - Cold Water Piping-Existing
P-DOMW-EQPM	green	Continuous	Domestic Water Systems - Equipment
P-DOMW-EQPM-E	82	Continuous	Domestic Water Systems - Equipment-Existing
P-DOMW-HPIP	magenta	HOT_WATER_SUPPLY	Domestic Water Systems - Hot Water Piping
P-DOMW-HPIP-E	222	Continuous	Domestic Water Systems - Hot Water Piping-Existing
P-DOMW-RPIP	yellow	Continuous	Domestic Water Systems - Recirculation Piping
P-DOMW-RPIP-E	52	Continuous	Domestic Water Systems - Recirculation Piping-Existing
P-GAS-EQPM	green	Continuous	Process Gas Equipment
P-GAS-PIPE	yellow	Continuous	Process Gas Piping
P-GAS-PIPE-E	52	Continuous	Process Gas Piping-Existing
P-SSWR-EQPM	green	Continuous	Sanitary Sewer - Equipment
P-SSWR-EQPM-E	82	Continuous	Sanitary Sewer - Equipment-Existing
P-SSWR-FIXT	green	Continuous	Sanitary Sewer - Fixtures
P-SSWR-FIXT-E	82	Continuous	Sanitary Sewer - Fixtures-Existing
P-SSWR-FLDR	green	Continuous	Sanitary Sewer - Floor Drains
P-SSWR-FLDR-E	82	Continuous	Sanitary Sewer - Floor Drains-Existing
P-SSWR-PIPE	cyan	DASHED2	Sanitary Sewer - Piping
P-SSWR-PIPE-E	132	Continuous	Sanitary Sewer - Piping-Existing
P-SSWR-VENT	green	Continuous	Sanitary Sewer - Vents
P-SSWR-VENT-E	82	Continuous	Sanitary Sewer - Vents-Existing
P-STRM-PIPE	cyan	Continuous	Sanitary Sewer - Piping
P-STRM-PIPE-E	132	Continuous	Sanitary Sewer - Piping-Existing
P-STRM-RFDR	green	Continuous	Sanitary Sewer - Roof Drains
P-STRM-RFDR-E	82	Continuous	Sanitary Sewer - Roof Drains-Existing
S-ANNO-DIMS	red	Continuous	Structural Extension lines, dimension arrowheads/dots/slashes, dimension text
S-ANNO-HTCH-BRDR	blue	Continuous	Structural Hatch Pattern Border
S-ANNO-HTCH-PATT	9	Continuous	Structural Hatch Pattern
S-ANNO-IDEN	yellow	Continuous	Structural Identification Tags
S-ANNO-KEYN	30	Continuous	Structural Keynotes with associated leader lines and arrowheads
S-ANNO-LOGO	red	Continuous	Structural Consultant Logo

S-ANNO-MARK	red	Continuous	Structural Markers, Break Lines, Match-lines
S-ANNO-NOTE	30	Continuous	Structural General notes and general remarks
S-ANNO-NPLT	red	Continuous	Structural Construction lines, reference targets, area calculations, viewport windows
S-ANNO-PATT	9	Continuous	Structural Miscellaneous patterning and cross-hatching
S-ANNO-REVC	blue	Continuous	Structural Revision Cloud and Delta
S-ANNO-SCHD	yellow	Continuous	Structural Schedules
S-ANNO-STMP	yellow	Continuous	Structural Stamp
S-ANNO-SYMB	yellow	Continuous	Structural Miscellaneous symbols
S-ANNO-TEXT	30	Continuous	Structural Miscellaneous text and callouts with associated leader lines and arrowheads
S-ANNO-TITL	yellow	Continuous	Structural Drawing and Detail Titles
S-ANNO-TTBL	red	Continuous	Structural Border and title block
S-ANNO-XREF	8	Continuous	Structural Reference files
S-BEAM	100	Continuous	Structural - Beams
S-BEAM-ALUM	100	Continuous	Structural - Beams Aluminum
S-BEAM-ALUM-E	102	Continuous	Structural - Beams Aluminum-Existing
S-BEAM-CONC	100	Continuous	Structural - Beams Concrete
S-BEAM-CONC-E	102	Continuous	Structural - Beams Concrete-Existing
S-BEAM-E	102	Continuous	Structural - Beams-Existing
S-BEAM-STEL	100	Continuous	Structural - Beams Steel
S-BEAM-STEL-E	102	Continuous	Structural - Beams Steel-Existing
S-BEAM-WOOD	100	Continuous	Structural - Beams Wood
S-BEAM-WOOD-E	102	Continuous	Structural - Beams Wood-Existing
S-BRCG	100	Continuous	Structural - Bracing
S-BRCG-ALUM	100	Continuous	Structural - Bracing Aluminum
S-BRCG-ALUM-E	102	Continuous	Structural - Bracing Aluminum-Existing
S-BRCG-ALUM-HORZ	100	Continuous	Structural - Bracing Aluminum Horizontal
S-BRCG-ALUM-HORZ-E	102	Continuous	Structural - Bracing Aluminum Horizontal-Existing
S-BRCG-ALUM-VERT	100	Continuous	Structural - Bracing Aluminum Vertical
S-BRCG-ALUM-VERT-E	102	Continuous	Structural - Bracing Aluminum Vertical-Existing
S-BRCG-E	102	Continuous	Structural - Bracing-Existing
S-BRCG-STEL	100	Continuous	Structural - Bracing Steel
S-BRCG-STEL-E	102	Continuous	Structural - Bracing Steel-Existing

S-BRCG-STEL-HORZ	100	Continuous	Structural - Bracing Steel Horizontal
S-BRCG-STEL-HORZ-E	102	Continuous	Structural - Bracing Steel Horizontal-Existing
S-BRCG-STEL-VERT	100	Continuous	Structural - Bracing Steel Vertical
S-BRCG-STEL-VERT-E	102	Continuous	Structural - Bracing Steel Vertical-Existing
S-BRCG-WOOD	100	Continuous	Structural - Bracing Wood
S-BRCG-WOOD-E	102	Continuous	Structural - Bracing Wood-Existing
S-BRCG-WOOD-HORZ	100	Continuous	Structural - Bracing Wood Horizontal
S-BRCG-WOOD-HORZ-E	102	Continuous	Structural - Bracing Wood Horizontal-Existing
S-BRCG-WOOD-VERT	100	Continuous	Structural - Bracing Wood Vertical
S-BRCG-WOOD-VERT-E	102	Continuous	Structural - Bracing Wood Vertical-Existing
S-COLS-ALUM	yellow	Continuous	Structural - Columns Aluminum
S-COLS-ALUM-E	52	Continuous	Structural - Columns Aluminum-Existing
S-COLS-CONC	yellow	Continuous	Structural - Columns Concrete
S-COLS-CONC-E	52	Continuous	Structural - Columns Concrete-Existing
S-COLS-STEL	yellow	Continuous	Structural - Columns Steel
S-COLS-STEL-E	52	Continuous	Structural - Columns Steel-Existing
S-COLS-WOOD	yellow	Continuous	Structural - Columns Wood
S-COLS-WOOD-E	52	Continuous	Structural - Columns Wood-Existing
S-DECK-FLOR	yellow	Continuous	Structural - Deck Floor
S-DECK-FLOR-E	52	Continuous	Structural - Deck Floor-Existing
S-DECK-FLOR-OPNG	yellow	Continuous	Structural - Deck Floor Opening
S-DECK-FLOR-OPNG-E	52	Continuous	Structural - Deck Floor Opening-Existing
S-DECK-ROOF	yellow	Continuous	Structural - Deck Roof
S-DECK-ROOF-E	52	Continuous	Structural - Deck Roof-Existing
S-DECK-ROOF-OPNG	yellow	Continuous	Structural - Deck Roof Opening
S-DECK-ROOF-OPNG-E	52	Continuous	Structural - Deck Roof Opening-Existing
S-FNDN-FTNG	blue	Continuous	Structural - Foundation Footing
S-FNDN-FTNG-E	152	Continuous	Structural - Foundation Footing-Existing
S-FNDN-GRBM	blue	Continuous	Structural - Foundation Grade Beams
S-FNDN-GRBM-E	152	Continuous	Structural - Foundation Grade Beams-Existing
S-FNDN-PCAP	blue	Continuous	Structural - Foundation Pile Caps
S-FNDN-PCAP-E	152	Continuous	Structural - Foundation Pile Caps-Existing
S-FNDN-PIER	blue	Continuous	Structural - Foundation Drilled Piers
S-FNDN-PIER-E	152	Continuous	Structural - Foundation Drilled Piers-Existing
S-FNDN-PILE	blue	Continuous	Structural - Foundation Piles
S-FNDN-PILE-E	152	Continuous	Structural - Foundation Piles-Existing

S-FNDN-RBAR	blue	Continuous	Structural - Foundation Rebar
S-FNDN-RBAR-E	152	Continuous	Structural - Foundation Rebar-Existing
S-GRID-EXTR	8	CENTER	Structural - Grids Exterior
S-GRID-EXTR-E	9	Continuous	Structural - Grids Exterior-Existing
S-GRID-INTR	8	Continuous	Structural - Grids Interior
S-GRID-INTR-E	9	Continuous	Structural - Grids Interior-Existing
S-JNTS-CNTJ	red	Continuous	Structural - Construction Joints
S-JNTS-CNTJ-E	12	Continuous	Structural - Construction Joints-Existing
S-JNTS-CTLJ	red	Continuous	Structural - Control Joints
S-JNTS-CTLJ-E	12	Continuous	Structural - Control Joints-Existing
S-JNTS-EXPJ	red	Continuous	Structural - Expansion Joints
S-JNTS-EXPJ-E	12	Continuous	Structural - Expansion Joints-Existing
S-JOIS-BRGX	red	Continuous	Structural - Joist Bridging
S-JOIS-BRGX-E	12	Continuous	Structural - Joist Bridging-Existing
S-SLAB-CONC	red	Continuous	Structural - Slab Concrete
S-SLAB-CONC-E	12	Continuous	Structural - Slab Concrete-Existing
S-SLAB-EDGE	red	Continuous	Structural - Slab Edgerete
S-SLAB-EDGE-E	12	Continuous	Structural - Slab Edgerete-Existing
S-SLAB-OPNG	red	Continuous	Structural - Slab Opening
S-SLAB-OPNG-E	12	Continuous	Structural - Slab Opening-Existing
S-SLAB-OPNX	red	Continuous	Structural - Slab Opening Indictation X
S-SLAB-OPNX-E	12	Continuous	Structural - Slab Opening Indictation X-Existing
S-SLAB-STEL	red	Continuous	Structural - Slab Steel
S-SLAB-STEL-E	12	Continuous	Structural - Slab Steel-Existing
S-SLAB-WOOD	red	Continuous	Structural - Slab Wood
S-SLAB-WOOD-E	12	Continuous	Structural - Slab Wood-Existing
S-STRS-LADD	white	Continuous	Structural - Stairs and Ladders
S-STRS-LADD-E	8	Continuous	Structural - Stairs and Ladders-Existing
S-TRUS	white	Continuous	Structural - Trusses
S-TRUS-E	8	Continuous	Structural - Trusses-Existing
S-WALL-CMUW	yellow	Continuous	Structural - Walls CMU
S-WALL-CMUW-E	52	Continuous	Structural - Walls CMU-Existing
S-WALL-CONC	yellow	Continuous	Structural - Walls Concrete
S-WALL-CONC-E	52	Continuous	Structural - Walls Concrete-Existing
S-WALL-MSNW	yellow	Continuous	Structural - Walls Masonry
S-WALL-MSNW-E	52	Continuous	Structural - Walls Masonry-Existing
S-WALL-PCST	yellow	Continuous	Structural - Walls Precast Concrete
S-WALL-PCST-E	52	Continuous	Structural - Walls Precast Concrete-Existing
S-WALL-SHEA	yellow	Continuous	Structural - Walls Shear or Bearing

S-WALL-SHEA-E	52	Continuous	Structural - Walls Shear or Bearing-Existing
S-WALL-STEL	yellow	Continuous	Structural - Walls Steel Stud
S-WALL-STEL-E	52	Continuous	Structural - Walls Steel Stud-Existing
S-WALL-WOOD	yellow	Continuous	Structural - Walls Wood
S-WALL-WOOD-E	52	Continuous	Structural - Walls Wood-Existing
T-CABL	blue	Continuous	Electrical - Telecom Cable Systems
T-CABL-TRAY	blue	Continuous	Telecom - Power Cable Systems: Cable Tray and Wireways
X-DETL-8	8	Continuous	Detail - Color 8
X-DETL-9-E	9	Continuous	Detail - Color 9-Existing
X-DETL-12-E	12	Continuous	Detail - 12-Existing
X-DETL-52-E	52	Continuous	Detail - 52-Existing
X-DETL-82-E	82	Continuous	Detail - 82-Existing
X-DETL-132-E	132	Continuous	Detail - 132-Existing
X-DETL-152-E	152	Continuous	Detail - 152-Existing
X-DETL-222-E	222	Continuous	Detail - 222-Existing
X-DETL-BLUE	blue	Continuous	Detail - Blue
X-DETL-CYAN	cyan	Continuous	Detail - Cyan
X-DETL-GREEN	green	Continuous	Detail - Green
X-DETL-MAGENTA	magenta	Continuous	Detail - Magenta
X-DETL-RED	red	Continuous	Detail - Red
X-DETL-YELLOW	yellow	Continuous	Detail - Yellow
XREF	white	Continuous	External References should be inserted on this layer