UofO CAD Standards
And Design Guidelines

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University of Ottawa

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1 Introduction

AutoCAD standards & Design guidelines is a document contains all the standards which are required to create digitized file from AutoCAD software. AutoCAD files are very important asset in our services. They are the main source of information for the facilities management and very important for the future projects. This is the reason AutoCAD files must be standardized for the institution. In that way it's easier for users to understand.

As everybody in the industry changing their standard to keep up with technology, UofO is revealing their CAD standards and Design guidelines. UofO is taking a step forward to keep up with technology related to building information modelling (BIM), Revit and new standards creation will be taking in place to being up to date with the emerging technology of architecture, engineering and construction industry.

1.1 Scope

This AutoCAD and Design standards must be applied for files which are generated by AutoCAD, mainly destined for the internal use of the UofO and for external Consultants for final delivery or on demand.

AutoCAD files including As-Builts must meet this standard. Consultants shall update their drawing based on contractor mark-ups, all construction changes and final site investigation as per UofO Standard.

2 Delivery of the Project

2.1 Supporting file format

UofO requires all the AutoCAD drawings need to be supported by Autodesk native format and it needs to be in DWG format (Minimum AutoCAD version 2015). They may not be submitted by in any other format such as PDF or DWF format unless specified in contract. University will not accept format that are no longer supported by Autodesk.

2.2 Starting and / or Submittal

All files must be submitted using UofO CAD and design standards. UofO undertake the quality assurance and drawings coordination to ensure that those files meet all the requirement. In terms of AutoCAD files provided by consultants or externally, UofO project manager or in charge of this facility will provide necessary requirements to meet the standards. All the necessary requirements are provided for the relevant AutoCAD files startups, templates, block library and supporting design standards on the UofO website. Final submission of new files must meet this requirement in terms CAD and design guidelines.

2.2.1 Symbol and block library

UofO has developed the main symbols and block library for the AutoCAD files and other construction standards which suits its needs.

2.2.2 AutoCAD base plan

UofO Base plan is basically a drawing which shows area of work on the property. It is used to get information about the size of the project and area of project.

2.2.3 Template drawing

Drawing templates are in metric units and basically in millimeters. The templates are provided with all the Built-up Layers, Symbols, blocs, Templates Title sheets and other. This template could be used to start new project or drawing.

The electronic format of the Template drawings can be obtained by contacting:

Alvaro Pérez Martinez

aperezma@uottawa.ca

3 Drawing Quality Assurance

UofO will be monitoring this standard through different criteria.

3.1 File review

All relevant Layers, Colors, Line types and similar must be following UofO standard highlighted below.
All the entities must be on their correct layers.

External referencing shall only be used when its required. And it must be in appropriate layer.

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4 Layers Standards

Layers are the tool to differentiate data with the help of lines and colors. It depicts data by their work group. Layering is the way to identify the entities with help of graphical screen represent without using annotation.

AIA Layering Key style: The key style is set to AIA Key style without modification or adjustment. New layers may be added to a drawing with respect to the listed parameters, and only as required by project constraints and always in conformance to the AIA Standards. For example, new layers may be created using Status to separate existing, demolition and new construction geometry.

A complete list of layers is provided in **Appendix A.**

A detailed explanation of layers naming convention and creation of new layers is provided in **Appendix B.**

To simplify the layering, drawing data can be broken into two major groupings: Major Files and Supporting Files. The level of complexity and number of layers required for the two groups are significantly different.

4.1 Major Files

Major Files contain basic plan views of the project (i.e. base plan, floor plans, site plan, etc.), and include generally walls, doors, windows, floor fixtures, curtain wall, structural elements, stairs must be in their appropriate layers.

4.2 Supporting Files

Supporting files may contains sections, details, elevations, title page, legend, etc. This data requires minimum layering requirements. Details does not need to be in separate layers. For example, in building details can be drawn in minimum use of layers, although the annotation and dimensions should be in their appropriate layers.

4.3 Layers naming convention

The layer is the basic tool for organizing and managing graphic information. Layers are used to sort graphic objects into groupings of related data. AIA has developed a modular, alphanumeric layer nomenclature format designed to sort graphic data in a specific manner.

The layer name format consists of five fields separated by hyphens.

- The first two fields — Discipline, Four letter major
- The last two fields — optional four-letter majors and optional one letter status

X-XXXX-XXXX-X

X - Discipline

XXXX – Four letter Majors

XXXX – optional four-letter majors

X – optional one letter status

Two-Field payers name cannot be accepted.

Discipline Field - **X**-XXXX-XXXX-X

The Discipline Field describes Major layer content. It may represent whole drawing or parts of different disciplines. For example, “A” used for “Architectural” floor plans. Which includes whole drawing.

Disciplines List:

A-Architectural,
B-Geotechnical,
C-Civil,
E-Electrical,
F-Fire Protection,
G-General,
I-Interiors,
L-Landscaping,
M-Mechanical,
P-Plumbing,
Q-Equipment,
S-Structural,
T-Telecom,
V-Survey/Mapping,
Z-Contractors.

Four letter major - X-**XXXX**-XXXX-X

The four-letter major identifies the most common types of information. This four letter major disciplines are provided in Annex A – CAD layers. This field has most common group abbreviations. It can also be used for supporting data such as sections, details.

Examples of Four-Letter Major Field:

WALL – Wall

ANNO – Annotation

CLNG – Ceiling

DOOR – Door

DETL – Detail

Optional Four-Letter Majors - X-XXXX-**XXXX**-X

The optional Four-letter majors field describes the identity of each layer more in depth. It contains information like physical properties, materials, graphics, text, etc. the full list of optional Four letter majors Field is provided in **Appendix A** – CAD layers.

Optional one letter status - X-XXXX-XXXX-**X**

The Optional One letter name extension allows user to add information about Construction, status, geometry, etc. it may be used with any valid layer from standard layers.

Appendix B contains a complete list of Optional one letter status abbreviations and their descriptions.

Required Layer name Formats:

Discipline Field - Architecture

Four letter Major Field - Wall

Optional Four-Letter Major - Interior

A-WALL-INTR

Optional:

First layer name Extension	A-WALL-INTR-**BRCK**	Brick
Second layer name extension	A-WALL-INTR-**E**	Existing

Architectural Floor Plan Examples:

Where plans are specifically titled “New” (or “Existing), the “N” (or “E”) Second Layer Name Extension modifier indicating the construction status may be omitted, but all disparate construction status extensions must be included.

A-WALL-INTR-N	Architecture - Wall - Interior - New
A-WALL-INTR-X	Architecture - Wall - Interior - Remove
A-DOOR-INTR	Architecture - Door - Interior (“Existing” implied)
A-DOOR-INTR-N	Architecture - Door - Interior - New
A-WIND-EXTR	Architecture - Window - Exterior (“Existing” implied)

Symbols Examples:

When a symbol is placed to represent an object, it must be placed in a symbols layer.

E-SITE-SYMB Electrical - Site Distribution - Symbols (Power poles, luminary, etc.)

Details Examples:

Supporting data such as dimensions, annotation, and hatching should be separated as indicated in the examples below. Color should be set "By layer" for most of the entities in a layer and specifically where necessary to obtain varying line weights in that layer.

A-DETL-LINE	Architectural - Detail - Line work (Wall, floor and roof line work)
A- DETL -TEXT	Architectural - Detail - Text (Annotations, title, graphic scale, etc.)
A- DETL -DIMS	Architectural - Detail - Dimensions
A- DETL -HCTH	Architectural - Detail - Hatching (Insulation, wood grain, etc.)

Plan Views Examples:

M-ANNO-TEXT	Mechanical - Annotation - Text (Titles, graphic scale, annotation bubbles)
S-WALL-CONC	Structural - Wall -Concrete

4.4 Creating New Layers

Provided standard Layers List (Appendix A – CAD Layers) might not contain all the layers, in that case this section provides instruction to create new layers.

These new layers must follow layer naming standard. It must include discipline field, Four Letter Major field. However, these layers might use other naming conventions as Optional Four-letter majors for detailed explanation.

5 Color standards And line weights (STB)

These CAD Standards are based on Style Tables (STB) rather than traditional Color Table (CTB) files. The standard AIA and AEC style tables should be used with all new projects. In any instance where legacy files are used as a starting point for new projects, the legacy drawings should be converted (preferably using the Layer Translator) to match AIA/AEC layering conventions.

Style Tables (STB) are based on layer and object lineweights, where Color Tables (CTB) are based on the objects' color determining their lineweights. Adjusting the layers' colors and lineweights through Layer Manager should in most cases correct any legacy drawings.

Revision Tables: The revision tables included in the templates are a separate element from the title block geometry to allow for easier manipulation of the revision table data. Revision Tables are to include documented version and revision changes as guided by UofO revisioning standards which are a separate document from this CAD Standard.

Layers must be assigned to appropriate color and should be created with color "by Layer" where possible. STB file will be provided by contacting the person listed at the beginning of this document.

6 Block and symbol Standard

The UofO standard block and symbol libraries are posted on the website with CAD Standard.

Libraries are available in with this version of Standard. However, any blocks created or used in UofO compliant drawings must adhere to the following:

- Block Units: Symbols and blocks are to be drawn in native units. Units defined in block.
- Layering: Block layers must confirm to the AIA layering standard. Block should be created on layer 0 in addition to being set at “ByLayer” for colour and linetype should be “Byblock”, then when it is inserted on the appropriate layer, it will take on all the appropriate properties
- Annotative: Where possible, symbols (i.e. non-real-world blocks) should be set annotative.
- Dynamic and Multi-view: Intelligent blocks should be used/created where applicable.
- Attributes: Applicable attributes should be used where practical.
- Non-block Representations: In no instance should geometry (plines, &c) be used to represent block items. That is, for example, simple rectangles or circles may not be used to draw desks.
- Palettes/DesignCenter: AutoCAD Palettes and DesignCentre should be used as the primary
- methods for inserting blocks. In the case of RCP blocks, use only DesignCenter.
- Existing Blocks: Do not create blocks where existing UofO standard blocks already exist.

6.1 Symbol (Annotative)

Symbols are AutoCAD® blocks that are pictorial representations of objects not drawn to scale, such as an electrical outlet symbol. Drawing scale affects symbols in the same manner as annotation and therefore must be inserted into a working drawing at a scale factor corresponding to the drawing or plot scale as required.

Note: It is now possible to create annotative blocks that can scale themselves automatically to any given scale. To avoid confusion, it is strongly recommended to use only one method throughout each project drawing set: the traditional method that lets the user choose the insertion scale, or the Annotative option that automatically manages the insertion scale.

Basic rules for the creation of symbols must be followed:

- Symbols should be drawn at actual plotted size and not smaller than 2.5 mm. The Annotative option can also be selected when creating the block.
- Symbols should be inserted using the plotted scale if they are inserted in model space, and 1 if they are inserted in paper space (layout), i.e., 50x on a 1:50 floor plan in model space, or 1x on a 1:1 drawing sheet in paper space. If the block was created with the annotative option selected, it will scale itself automatically during the insertion.

7 Text style

In accordance with the practices in place across the entire UofO, the following Fonts

(Myriad, Minion, Arial and Times New Roman) are permitted in UofO documentation. These may be used in regular, italic, bold or bold italic variants, but no other fonts are to be used in any instance.

The one exception to this above stated rule is RomanS.SHX. This is a Roman Simplex Shape font. It should only be used in rare instances where the text is intended to change line weight in accordance with the layer on which it is placed.

The text styles defined in the UofO.DWT (Template) are Arial and TimesNewRoman. Other text styles (Standard, ArchDim, Annotative) all call on the Arial.TT font. It is unacceptable to either create new styles or to use the font selection features in the Mtext command. An Arial-Bold font has been added to the standard for convenience.

Text height must be set to 0 so that it can be changed to suit different scaling requirements. Company Logo can be created with custom fonts. Paragraphs must be created with MTEXT objects.

7.1 Text Style Naming & Height

It must reflect the information Below:

- Usage.
- Font name.
- Any other special requirements.

Text styles examples:

TITLE_ARIAL_WF-1.2	ARIAL and width factor 1.2 used for titles.
NOTES_ARIAL_ANNO	ARIAL and annotative property enabled for notes.

Standard Text Heights:

2.5mm	notes, dimensions, annotations
4.5mm, 5.0mm	Major Headings/Titles
3.5mm	Subheadings

8 Dimension style and Multileader style

UofO Dim style is based on Arial text style. Where AEC content (e.g. walls, doors, windows, &c) exist, appropriate AEC dimensioning tools should be used. The AEC dim styles call on the UofO dim style in order that they may be indistinguishable from one another in completed AutoCAD drawings. Dimension style usage should be uniform throughout each project drawing set.

Two formats are used to cover most applications for UofO projects:

- Engineering with arrowheads for dimension and leader terminators
- Architectural with ticks for dimension terminators and arrowheads for leader terminators

Dimension styles format:

E = Engineering

A = Architecture

Any Letter = User-Defined

Drawing Scale: 100 = 1:100

50 = 1:50

0 = Annotative

Units: mm = Millimeters, m= Metres

Modifiers: None = Normal

0 = Both extension lines suppressed

1 = First extension line suppressed

2 = Second extension line suppressed

CL = Centerline extension lines

Anno = Annotative (always as last modifier)

Dimension styles examples:

A_50mm	architectural dimension for floor plans
E_1000m	engineering dimension for site plans

8.1 Multileader style

Multileader style should be uniform throughout the project. It should be annotative and in appropriate scale. It follows same naming convention as dimension styles.

8.2 Line types

The complete UofO line type definitions is provided with in template file of CAD Standard. It is posted on a UofO website.

Line types must be defined in metric units (mm).

- The global line type scale (LTscale) must always be set to 1.0.
- object LTscales should also be set to 1.0 unless specifically required to be otherwise by project constraints.

Final Drawings:

Title sheet must be in paper space with multiple, variously scaled VIEWPORTS.

- MEASUREMENT = 1
- LTSCALE between 0.5 and 1.0 (See Note 3 below.)
- PSLTSCALE = 1 (On)

The LTSCALE value should be set between 0.5 and 1.0 while printing in paper space depending on the size of the line types used in the drawing.

9 Sheets and title blocks

9.1 Sheet Sizes

Standard page sizes are to be set to ANSI X3.151-1987 sized papers in sizes A and B and architectural sized papers in ARCH C, D, and E. For further clarity, their sizes and ratios are:

- ANSI A expand (aka Letter format), aspect ratio of 1.2941
- Horizontal: 11"x8½" (279x216mm) Ratio 22:17 (two titleblock options provided)
- Vertical: 8½" x11" (216x279mm) Ratio 17:22
- ANSI B expand (aka Ledger or Tabloid format), aspect ratio of 1.5455
- Horizontal: 17"x11" (432x279mm) Ratio 17:11 (two titleblock options provided)
- Vertical: 11"x17" (279x432mm) Ratio 11:17
- Arch C 24"x18" (610x457mm) Ratio 4:3
- Arch D 36"x24" (610x914mm) Ratio 3:2
- Arch E 48"x36" (1219x914mm) Ratio 4:3

9.2 Title Blocks

UofO title blocks have been modernized to include Fields. Sizes have been adjusted for the above page sizes and to allow for Océ, PDF, DWF and JPEG printers.

All project drawings must be compiled on standard sheets and must be in accordance with the PSPC corporate identity. The lead technologist for each project will coordinate the size of the sheet to be used and provide a standard title block and the content of the title block fields.

Title block must contain necessary information. Mentioned below:

- Project name
- Building Name & Address
- Drawing Title, e.g. floor plan, building
- designed by and date
- Drawn by and date
- Approved by and date
- Project manager
- UofO project number
- Drawing number
- Revision Table
- Consultant logo or Company name (Address and Contact information)
- North arrow
- Seal (Professional Stamp)
- Sheet Number
- Other as necessary

UofO Logo:

The UofO 2019 logo has been converted to DWG and has been blocked. The logo should never be used at a scale less than 25 in a metric drawing or less than 1 in an imperial drawing. An appropriate scale for the page size has been set on each title block.

10 Unit and Scales

All UofO projects to be completed in metric units. For further clarity, all units to be in millimeters (mm), except civil drawings which may be drawn in metres (m). Metre based drawings must be dimensioned to three decimal places.

This rule is to be applied at the base drawing level. Blocks should be drawn in their own native units, and such units should be specified at the time of block creation. That is, furniture or other items dimensioned in inches by their manufacturers should be drawn in inches and the items' block definition should then be set to inches.

Drawing scales must be in metric format for all and be in appropriate scales.

Preferred Viewport Scale:

1:1	1:25	1:500
1:2	1:50	1:1000
1:5	1:100	1:2000
1:10	1:200	1:5000
1:20	1:250	1:10000

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11 Drawing file naming and Tab naming

All AutoCAD file must be named and arranged in appropriate manner. Naming of the AutoCAD files must be easily understandable and logical. It can be named with project name and type of drawings. (Architectural, Electrical, Mechanical. Fire, etc...)

Tabs in AutoCAD files must be named appropriate letters and numbers.

File naming examples:

Architectural

A000, A001, A002, A003 etc...

Electrical

E000, E001, E002, E003, etc.…

Mechanical

Front End: M000

Fire Protection: M100

Plumbing: M200

HVAC: M300

Utilities: M400

Controls: M500

12 Furniture and interior design

Furniture and interior standards will be provided with future version of CAD standards.

While furniture blocks, and layers must follow standards as mentioned in document. New furniture blocks are incorporated in the Template drawings listed at the beginning of this document.

13 Final Delivery & Quality Assurance

The UofO reserves the right to use this document as the basis of a quality assurance document for all submitted drawings. Files not conforming to this standard may be deemed to be incomplete. Please ensure that all applicable standards have been applied before submitting work for acceptance to UofO.

Architectural:

UofO is expecting to receive only **FLOOR PLANS (include furniture and equipment)** and **RCP (reflected ceiling plans)** dwgs according to the current standards. This AutoCAD files must follow layering standard and the primary blocks which mainly include – but not limited to:

- Door & Room numbers attributes, Door and Window blocks, and similar.
- M&E: All blocks, symbols, and attributes.

Mechanical, Electrical & Plumbing:

UofO is expecting to receive **HVAC, Fire protection, Utilities, Plumbing, Controls** and **electrical** details all in their own separate files. This AutoCAD file must contain Xref of their floor plans. Final delivery of this AutoCAD files must be in one folder which contains their Xref files. AutoCAD files must be generated with UofO blocks which mainly include – but not limited to:

- M&E: All blocks, symbols, and attributes.

Appendix A – CAD Layers

The list provided below is the most used layers for UofO following AIA standards. New layers can be created using this AIA format. A layer name may include additional information for grouping that described building system or related data.

Full List of layers with line types, colors and plotting styles provided below:

Name	LAYERS	Color	Linetype	Lineweight	PlotStyleName	Plottable	Description
-ERASE		7	Continuous	70	Full Saturation	/vlax-false	-ERASE
	0	7	Continuous	70	Full Saturation	/vlax-true	0
	ARCHITECTURE						
A-Accr	A-WR-ACR	138	Continuous	15	Full Saturation	/vlax-true	Architectural - Washroom Accessories
A-Accr-N	A-WR-ACR-N	121	Continuous	15	Full Saturation	/vlax-true	Architectural - Washroom Accessories - New work
A-Anno-Dims	A-AN-DIM	3	Continuous	9	Full Saturation	/vlax-true	Architectural - Annotation, Dimensions
A-Anno-Extr-Iden	A-AN-ELV-IDN	3	Continuous	9	Full Saturation	/vlax-true	Architectural - Annotation, Elevator cars and equipment identification
A-Anno-Levl	A-AN-ELV-SYB	230	Continuous	9	Full Saturation	/vlax-true	Architectural - Annotation, Elevation line and symbols
A-Anno-Levl-N	A-AN-ELV-SYB-N	11	Continuous	9	Full Saturation	/vlax-true	Architectural - Annotation, Elevation line and symbols - New work
A-Anno-Scrn	A-AN-SCR	253	Continuous	15	30 Percent	/vlax-true	Annotation Screened 30%
A-Anno-Spce	A-AN-SPC	1	Continuous	20	Full Saturation	/vlax-true	Architectural - Annotation, Space
A-Anno-Spce-Aloc	A-AN-SPC-ALC	3	Continuous	25	Full Saturation	/vlax-true	Architectural - Annotation, Space Allocation
A-Anno-Spce-Iden	A-AN-SPC-IDN	3	Continuous	25	Full Saturation	/vlax-true	Architectural - Annotation, Space Identifier
A-Anno-Spce-Labl	A-AN-SPC-LBL	1	Continuous	20	Full Saturation	/vlax-true	Architectural - Annotation, Space Labels
A-Anno-Spce-Nplt	A-AN-SPC-NPL	3	Continuous	25	Full Saturation	/vlax-true	Architectural - Annotation, Space Non-plotting elements
A-Anno-Spce-Surf	A-AN-SPC-SRA	3	Continuous	25	Full Saturation	/vlax-true	Architectural - Annotation, Space Surface areas
A-Anno-Stru-Iden	A-AN-STR-IDN	250	Continuous	25	Normal	/vlax-true	Architectural - Annotation, Stair treads, escalators, ladders identifier
A-Anno-Stru-Labl	A-AN-STR-LBL	1	Continuous	20	Full Saturation	/vlax-true	Architectural - Annotation, Stair treads, escalators, ladders Labels
A-Anno-Symb	A-AN-SYM	3	Continuous	25	Full Saturation	/vlax-true	Architectural - Annotation, Symbols
A-Anno-Text	A-AN-TXT	2	Continuous	25	Full Saturation	/vlax-true	Architectural - Annotation, Text
A-Clng-Accs-Door	A-CL-ACC-DOR	3	Continuous	20	Full Saturation	/vlax-true	Architectural - Ceiling, Access Doors
A-Clng-Blkh	A-CL-BLK	3	Continuous	25	Full Saturation	/vlax-true	Architectural - Ceiling, Bulkheads
A-Clng-Bndy	A-CL-BND	3	Continuous	40	Full Saturation	/vlax-true	Architectural - Ceiling, Boundary
A-Clng-Bndy-N	A-CL-BND-N	4	Continuous	40	Full Saturation	/vlax-true	Architectural - Ceiling, Boundary - New work
A-Clng-Eqpm	A-CL-EQP	3	HIDDEN2	25	Full Saturation	/vlax-true	Architectural - Ceiling, Equipment
A-Clng-Eqpm-N	A-CL-EQP-N	4	HIDDEN2	25	Full Saturation	/vlax-true	Architectural - Ceiling, Equipment - New work
A-Clng-Grid	A-CL-GRD	1	Continuous	15	Full Saturation	/vlax-true	Architectural - Ceiling, Grid
A-Clng-Grid-D	A-CL-GRD -E	2	HIDDEN2	15	Full Saturation	/vlax-true	Architectural - Ceiling, Grid - Existing to demolish
A-Clng-Grid-N	A-CL-GRD -N	4	Continuous	15	Full Saturation	/vlax-true	Architectural - Ceiling, Grid - New work
A-Detl-Acst	A-DE-ACU-SIM	44	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Acoustic tiles or similar
A-Detl-Acst-N	A-DE-ACU-SIM-N	3	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Acoustic tiles or similar - New work
A-Detl-Bloc	A-DE-CLB	24	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Concrete Blocks
A-Detl-Bloc-N	A-DE-CLB-N	30	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Concrete Blocks - New work
A-Detl-Brck	A-DE-BRK	24	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Brick, Terra-cota
A-Detl-Brck-N	A-DE-BRK-N	30	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Brick, Terra-cota - New work
A-Detl-Bufr	A-DE-BIR	98	HIDDEN2	40	Full Saturation	/vlax-true	Architectural - Detail, Vapour Barrier, Air barrier, Protection barrier, etc.
A-Detl-Bufr-N	A-DE-BIR-N	3	HIDDEN2	40	Full Saturation	/vlax-true	Architectural - Detail, Vapour Barrier, Air barrier, Protection barrier, etc. - New work
A-Detl-Clkg	A-DE-CLK	252	Continuous	9	Full Saturation	/vlax-true	Architectural - Detail, Caulking, Sealants, etc.
A-Detl-Clkg-N	A-DE-CLG-N	9	Continuous	9	Full Saturation	/vlax-true	Architectural - Detail, Caulking, Sealants, etc. - New work
A-Detl-Conc	A-DE-CLD-CON	24	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Concrete, Prefab Concrete, slabs, etc.
A-Detl-Conc-N	A-AN-CCO- -N	30	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Concrete, Prefab Concrete, slabs, etc. - New work
A-Detl-Elec	A-DE-ELE-EQP	98	Continuous	25	Full Saturation	/vlax-true	Architectural - Detail, Electrical elements or equipments
A-Detl-Elec-N	A-DE-ELE-EQP	3	Continuous	25	Full Saturation	/vlax-true	Architectural - Detail, Electrical elements or equipments - New work
A-Detl-Fast	A-DE-FTR	252	HIDDEN2	9	Full Saturation	/vlax-true	Architectural - Detail, Fastners, anchors, screws, etc.
A-Detl-Fast-N	A-DE-FTR-N	9	HIDDEN2	9	Full Saturation	/vlax-true	Architectural - Detail, Fastners, anchors, screws, etc. - New work
A-Detl-Finl	A-DE-FIN	230	Continuous	20	Full Saturation	/vlax-true	Architectural - Detail, Miscellaneous Finishes (floor and walls)
A-Detl-Finl-N	A-DE-FIN-N	11	Continuous	20	Full Saturation	/vlax-true	Architectural - Detail, Miscellaneous Finishes (floor and walls) - New work
A-Detl-Fish	A-DE-FLS	16	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Flashings
A-Detl-Fish-N	A-DE-FLS-N	1	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Flashings - New work
A-Detl-Glaz	A-DE-GLZ	161	Continuous	25	Full Saturation	/vlax-true	Architectural - Detail, Glazing, mirrors, etc.
A-Detl-Glaz-N	A-DE-GLZ-N	5	Continuous	25	Full Saturation	/vlax-true	Architectural - Detail, Glazing, mirrors, etc. - New work
A-Detl-Grav	A-DE-MTR-SGS	44	Continuous	9	Full Saturation	/vlax-true	Architectural - Detail, Soil, Gravel, Stone dust, etc.
A-Detl-Grav-N	A-DE-MTR-SGS-N	3	Continuous	9	Full Saturation	/vlax-true	Architectural - Detail, Soil, Gravel, Stone dust, etc. - New work
A-Detl-Gyps	A-DE-MTR-GCL	59	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Gypsum Board, Cement Board, Light concrete, plaster, etc.
A-Detl-Gyps-N	A-DE-MTR-GCL-N	71	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Gypsum Board, Cement Board, Light concrete, plaster, etc. - New work
A-Detl-Insu	A-DE-INS	252	Continuous	25	Full Saturation	/vlax-true	Architectural - Detail, Insulation outlines (rigid, etc.)
A-Detl-Insu-N	A-DE-INS-N	9	Continuous	25	Full Saturation	/vlax-true	Architectural - Detail, Insulation outlines (rigid, etc.) - New work
A-Detl-Mech	A-DE-MEC-EQP	44	Continuous	25	Full Saturation	/vlax-true	Architectural - Detail, Mechanical elements or Equipment
A-Detl-Mech-N	A-DE-MEC-EQP-N	3	Continuous	25	Full Saturation	/vlax-true	Architectural - Detail, Mechanical elements or Equipment - New work
A-Detl-Memb	A-DE-MBN	206	HIDDEN	40	Full Saturation	/vlax-true	Architectural - Detail, Miscellaneous membranes
A-Detl-Memb-N	A-DE-MBN-N	6	HIDDEN	40	Full Saturation	/vlax-true	Architectural - Detail, Miscellaneous membranes - New work
A-Detl-Metl	A-DE-ELE-MTL	230	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Metallic Elements (siding, doors, windows, frames, etc.
A-Detl-Metl-N	A-DE-ELE-MTL-N	11	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Metallic Elements (siding, doors, windows, frames, etc. - New work
A-Detl-Mort	A-DE-INT	206	Continuous	9	Full Saturation	/vlax-true	Architectural - Detail, Mortar joints, grout joints (outlines)
A-Detl-Mort-N	A-DE-INT-N	6	Continuous	9	Full Saturation	/vlax-true	Architectural - Detail, Mortar joints, grout joints (outlines) - New work
A-Detl-Mtl	A-DE-MTL-MIS	136	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Miscellaneous metals (angles, channels, pipes, etc.)
A-Detl-Mtl-N	A-DE-MTL-MIS-N	121	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Miscellaneous metals (angles, channels, pipes, etc.) - New work
A-Detl-Plst	A-DE-PVC	161	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Plastic, PVC, etc.
A-Detl-Plst-N	A-DE-PVC-N	9	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Plastic, PVC, etc. - New work
A-Detl-Ston	A-DE-STN	161	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Stone, Granite, Marble, etc.
A-Detl-Ston-N	A-DE-STN-N	5	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Stone, Granite, Marble, etc. - New work
A-Detl-Stud	A-DE-MTL-CHN	16	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Metal Studs, Girt, Furring, Channels, etc.
A-Detl-Stud-Afar	A-DE-MTL-CHN-B	11	Continuous	15	Full Saturation	/vlax-true	Architectural - Detail, Metal Studs, Girt, Furring, Channels, etc. - SEEN FROM FAR(BEYOND)
A-Detl-Stud-Afar-N	A-DE-MTL-CHN-N	11	Continuous	15	Full Saturation	/vlax-true	Architectural - Detail, Metal Studs, Girt, Furring, Channels, etc. - SEEN FROM FAR - New work
A-Detl-Stud-N	A-DE-CHN-N	1	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Metal Studs, Girt, Furring, Channels, etc. - New work
A-Detl-Susp	A-DE-ELE-SUS	230	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Suspension elements (anchors, cables, etc.)
A-Detl-Susp-Afar	A-DE-SUS-FAR	16	Continuous	15	Full Saturation	/vlax-true	Architectural - Detail, Suspension elements - SEEN FROM FAR - (anchors, cables, etc.)
A-Detl-Susp-Afar-N	A-DE-SUS-FAR-N	6	Continuous	15	Full Saturation	/vlax-true	Architectural - Detail, Suspension elements - SEEN FROM FAR (anchors, cables, etc.) - New work
A-Detl-Susp-N	A-DE-ELE-SUS-N	11	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Suspension elements (anchors, cables, etc.) - New work
A-Detl-Wood	A-DE-TIM	98	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Wood frames, studs, plywood, particule board, MDF, etc.
A-Detl-Wood-N	A-DE-TIM-N	3	Continuous	40	Full Saturation	/vlax-true	Architectural - Detail, Wood frames, studs, plywood, particule board, MDF, etc. - New work
A-Door	A-DR-MTR	2	Continuous	40	Full Saturation	/vlax-true	Architectural - Doors, MATERIAL
A-Door-Extr	A-DR-EXT	2	Continuous	40	Full Saturation	/vlax-true	Architectural - Doors, Exterior
A-Door-Fram	A-DR-FRM	2	Continuous	25	Full Saturation	/vlax-true	Architectural - Doors, Frame
A-Door-Head	A-DR-HED	1	Continuous	40	Full Saturation	/vlax-true	Architectural - Doors, headers
A-Door-Iden	A-DR-IDN-TAG	3	Continuous	25	Full Saturation	/vlax-true	Architectural - Doors, Identification Tags
A-Door-Intr	A-DR-INT	2	Continuous	40	Full Saturation	/vlax-true	Architectural - Doors, Interior
A-Door-Nplt-Sill	A-DR-NPL-SIL	250	HIDDEN2	15	Full Saturation	/vlax-false	Architectural - Doors, Non-plotting graphic information Sills
A-Door-Over	A-DR-OHL	16	HIDDEN	20	Full Saturation	/vlax-true	Architectural - Doors, Overhead outlines (i.e. garage doors)
A-Door-Sill	A-DR-EXT-SIL	1	Continuous	15	Full Saturation	/vlax-true	Architectural - Doors, Exterior Sills
A-Elev-C001	A-EV-C01	1	Continuous	15	Full Saturation	/vlax-true	Architectural - Elevation, Color 1 (red)
A-Elev-C002	A-EV-C02	2	Continuous	20	Full Saturation	/vlax-true	Architectural - Elevation, Color 2 (yellow)
A-Elev-C003	A-EV-C03	3	Continuous	25	Full Saturation	/vlax-true	Architectural - Elevation, Color 3 (green)
A-Elev-C004	A-EV-C04	4	Continuous	40	Full Saturation	/vlax-true	Architectural - Elevation, Color 4 (cyan)
A-Elev-C005	A-EV-C05	5	Continuous	50	Full Saturation	/vlax-true	Architectural - Elevation, Color 5 (blue)
A-Elev-C006	A-EV-C06	6	Continuous	50	Full Saturation	/vlax-true	Architectural - Elevation, Color 6 (magenta)
A-Elev-C007	A-EV-C07	7	Continuous	70	Full Saturation	/vlax-true	Architectural - Elevation, Color 7 (white)
A-Eqpm	A-PL-EQP	5	PHANTOM2	15	Full Saturation	/vlax-true	Architectural - PLAN, Equipment (NIC)
A-Expj	A-PL-EXJ	1	Continuous	15	Full Saturation	/vlax-true	Architectural - PLAN, Expansion joint
A-Fire-S000	A-FR-FRS-0MN	16	DIVIDE2	70	Full Saturation	/vlax-true	Architectural - Fire separation 0min.
A-Fire-S000-N	A-FR-FRS-0MN-N	1	DIVIDE2	70	Full Saturation	/vlax-true	Architectural - Fire separation 0min. - New work
A-Fire-S045	A-FR-FRS-45M	16	BORDER2	70	Full Saturation	/vlax-true	Architectural - Fire separation 45min.
A-Fire-S045-N	A-FR-FRS-45M-N	1	BORDER2	70	Full Saturation	/vlax-true	Architectural - Fire separation 45min. - New work
A-Fire-S060	A-FR-FRS-60M-N	16	PHANTOM2	70	Full Saturation	/vlax-true	Architectural - Fire separation 60min.
A-Fire-S060-N	A-FR-FRS-60M-N	1	PHANTOM2	70	Full Saturation	/vlax-true	Architectural - Fire separation 60min. - New work
A-Fire-S090	A-FR-FRS-90M-N	16	DASHED	70	Full Saturation	/vlax-true	Architectural - Fire separation 90min.
A-Fire-S090-N	A-FR-FRS-90M-N	1	DASHED	70	Full Saturation	/vlax-true	Architectural - Fire separation 90min. - New work
A-Fire-S120	A-FR-FRS-120	16	DASHDOT2	70	Full Saturation	/vlax-true	Architectural - Fire separation 120min.
A-Fire-S120-N	A-FR-FRS-120-N	1	DASHDOT2	70	Full Saturation	/vlax-true	Architectural - Fire separation 120min. - New work
A-Flor-Accs	A-FL-ACC	1	Continuous	25	Full Saturation	/vlax-true	Architectural - Floor, Access
A-Flor-Accs-Door	A-FL-ACC-DOR	1	Continuous	20	Full Saturation	/vlax-true	Architectural - Floor, Access Doors
A-Flor-Drai	A-FL-DRN-IDN	1	Continuous	15	Full Saturation	/vlax-true	Architectural - Floor, Drainage slope indications

A-Flor-Edge	A-FL-EDG	1	Continuous	20	Full Saturation	sylas-true	Architectural - Floor, Edge
A-Flor-Extr	A-FL-ELV-EQP	5	Continuous	40	Full Saturation	sylas-true	Architectural - Floor, Elevator cars and equipment
A-Flor-Fixd	A-FL-MWK	154	Continuous	25	Full Saturation	sylas-true	Architectural - Floor, Millwork
A-Flor-Fixd-Lower	A-FL-MWK-STG	161	HIDDEN2	15	Full Saturation	sylas-true	Architectural - Floor, Millwork, Lower cabinets, storage under counter
A-Flor-Fixd-Lower-N	A-FL-MWK-STG-N	5	HIDDEN2	15	Full Saturation	sylas-true	Architectural - Floor, Millwork, Lower cabinets, storage under counter - New work
A-Flor-Fixd-N	A-FL-MWK-N	4	Continuous	25	Full Saturation	sylas-true	Architectural - Floor, Millwork - New work
A-Flor-Fixd-Uppr	A-FL-MWK-UPR	230	HIDDEN	15	Full Saturation	sylas-true	Architectural - Floor, Millwork, Upper cabinets
A-Flor-Fixd-Uppr-N	A-FL-MWK-UPR-N	11	HIDDEN	15	Full Saturation	sylas-true	Architectural - Floor, Millwork, Upper cabinets - New work
A-Flor-Fixt	A-FL-FIX-PLB	2	Continuous	25	Full Saturation	sylas-true	Architectural - Floor, Plumbing fixtures
A-Flor-Fnce	A-FL-FNC	230	FENCELINE2	25	Full Saturation	sylas-true	Architectural - Floor, Fence
A-Flor-Fnce-N	A-FL-FNC-N	11	FENCELINE2	25	Full Saturation	sylas-true	Architectural - Floor, Fence - New work
A-Flor-Fnsh	A-FL-FNC-STR	1	Continuous	15	Full Saturation	sylas-true	Architectural - Floor, Finish transition strips
A-Flor-Grll	A-FL-GRL	2	Continuous	15	Full Saturation	sylas-true	Architectural - Floor, Grilles
A-Flor-Levl	A-FL-LVL	1	Continuous	20	Full Saturation	sylas-true	Architectural - Floor, Level changes, ramps, pits, depressions
A-Flor-Levl-Symb	A-FL-LVL-SYB	1	Continuous	9	Full Saturation	sylas-true	Architectural - Floor, Level changes, ramps, pits, depressions Reference symbols
A-Flor-Opng	A-FL-OPG	2	Continuous	9	Full Saturation	sylas-true	Architectural - Floor, Openings (cross inside openings)
A-Flor-Otln	A-FL-OPG-OLN	2	Continuous	25	Full Saturation	sylas-true	Architectural - Floor, Outline (around openings)
A-Flor-Radl-Edge	A-FL-EQP-EDG	1	Continuous	15	Full Saturation	sylas-true	Architectural - Floor, Radiator Edge
A-Flor-Strs	A-FL-STR	1	Continuous	20	Full Saturation	sylas-true	Architectural - Floor, Stair treads, escalators, ladders
A-Flor-Strs-Edge	A-FL-STR-EDG	1	Continuous	9	Full Saturation	sylas-true	Architectural - Floor, Stair treads, escalators, ladders Edge
A-Flor-Strs-Hral	A-FL-STR-HRL	1	Continuous	20	Full Saturation	sylas-true	Architectural - Floor, Stair treads, escalators, ladders Handrails / guard rails
A-Flor-Strs-Symb	A-FL-STR-SYB	2	Continuous	9	Full Saturation	sylas-true	Architectural - Floor, Stair treads, escalators, ladders Reference symbols
A-Flor-Tplts	A-FL-TOL-PRT	1	Continuous	25	Full Saturation	sylas-true	Architectural - Floor, Toilet partitions
A-Flor-Tplts-Door	A-FL-TOL-PDR	1	Continuous	25	Full Saturation	sylas-true	Architectural - Floor, Toilet partitions Doors
A-Furn	A-FN-FUN	1	Continuous	20	Full Saturation	sylas-true	Architectural - Furnishings, Furniture in Contract
A-Furn-Fixd-Seat	A-FN-FIX	1	Continuous	20	Full Saturation	sylas-true	Architectural - Furnishings, Fixed seating
A-Furn-Fixd-Wksf	A-FN-FIX-WSF	2	Continuous	20	Full Saturation	sylas-true	Architectural - Furnishings, Fixed worksurface
A-Furn-Labt	A-FN-LAB-FRN	90	Continuous	25	Full Saturation	sylas-true	Architectural - Furnishings, Fixed laboratory furniture
A-Furn-Labe-Fmhd	A-FN-FHD	1	Continuous	25	Full Saturation	sylas-true	Architectural - Furnishings, Fume hoods
A-Furn-Labe-Fmhd-N	A-FN-FHD-N	4	Continuous	25	Full Saturation	sylas-true	Architectural - Furnishings, Fume hoods - New work
A-Furn-Labe-Lowr	A-FN-FIX-LAB	44	HIDDEN2	15	Full Saturation	sylas-true	Architectural - Furnishings, Fixed laboratory base cabinets and hidden elements
A-Furn-Labe-Lowr-N	A-FN-FIX-LAB-N	2	HIDDEN2	15	Full Saturation	sylas-true	Architectural - Furnishings, Fixed laboratory base cabinets and hidden elements - New work
A-Furn-Labe-N	A-FN-FIX-N	3	Continuous	25	Full Saturation	sylas-true	Architectural - Furnishings, Fixed laboratory furniture - New work
A-Furn-Labe-Uppr	A-FN-FIX-USG	16	HIDDEN	25	Full Saturation	sylas-true	Architectural - Furnishings, Fixed laboratory upper cabinets/elements
A-Furn-Labe-Uppr-N	A-FN-FIX-USG-N	1	HIDDEN	25	Full Saturation	sylas-true	Architectural - Furnishings, Fixed laboratory upper cabinets/elements - New work
A-Furn-Lock	A-FN-LOC	2	Continuous	25	Full Saturation	sylas-true	Architectural - Furnishings, Lockers
A-Furn-Lowr	A-FN-LSG-WSF	2	HIDDEN2	15	Full Saturation	sylas-true	Architectural - Furnishings, Furniture in Contract, Lower cabinets, storage under worksurface
A-Furn-Uppr	A-FN-LSG	1	HIDDEN	20	Full Saturation	sylas-true	Architectural - Furnishings, Furniture in Contract, Upper cabinets/storage
A-Glaz	A-GZ-EXT	1	Continuous	25	Full Saturation	sylas-true	Architectural - Glazing, Exterior
A-Glaz-Fram	A-GZ-EXT-FRM	3	Continuous	40	Full Saturation	sylas-true	Architectural - Glazing, Exterior Frame
A-Glaz-Sill	A-GZ-EXT-SIL	1	Continuous	25	Full Saturation	sylas-true	Architectural - Glazing, Exterior Sills
A-Patt	A-AN-HTC	8	Continuous	9	75 Percent	sylas-true	Architectural - Annotation, Texture or hatch patterns
A-Patt-Edge	A-AN-HTC-SPR	1	Continuous	15	Full Saturation	sylas-true	Architectural - Annotation, Texture or hatch patterns separations
A-Patt-Edge-N	A-AN-HTC-SPR-N	4	Continuous	15	Full Saturation	sylas-true	Architectural - Annotation, Texture or hatch patterns separations - New work
A-Patt-N	A-AN-HTC-N	8	Continuous	9	75 Percent	sylas-true	Architectural - Annotation, Texture or hatch patterns - New work
A-Roof-Edge	A-RF-EDG	1	Continuous	20	Full Saturation	sylas-true	Architectural - Roof, Edge
A-Roof-Eqpm	A-RF-EQP	2	Continuous	15	Full Saturation	sylas-true	Architectural - Roof, Equipment
A-Roof-Otln	A-RF-OTL	1	Continuous	20	Full Saturation	sylas-true	Architectural - Roof, Outline
A-Unid-Extr	A-UN-EXT	1	Continuous	20	Full Saturation	sylas-true	Architectural - Unidentified site objects, Exterior
A-Unid-Grll	A-UN-GRL	1	Continuous	15	Full Saturation	sylas-true	Architectural - Unidentified site objects, Grilles
A-Unid-Intr-T001	A-UN-IN1	1	Continuous	15	Full Saturation	sylas-true	Architectural - Unidentified site objects, Interior Type 1
A-Unid-Intr-T002	A-UN-IN2	2	Continuous	25	Full Saturation	sylas-true	Architectural - Unidentified site objects, Interior Type 2
A-Unid-Sill	A-UN-WIN-S	1	Continuous	15	Full Saturation	sylas-true	Architectural - Unidentified site objects, Window sills
A-Unid-Uppr	A-UN-UPP	1	HIDDEN2	25	Full Saturation	sylas-true	Architectural - Unidentified site objects, Upper
A-Wall-Cavl	A-WL-CAV	1	Continuous	15	Full Saturation	sylas-true	Architectural - Walls, Cavity
A-Wall-Edge	A-WL-EDG	2	Continuous	40	Full Saturation	sylas-true	Architectural - Walls, Edge
A-Wall-Extr	A-WL-EXT	7	Continuous	50	Full Saturation	sylas-true	Architectural - Walls, Exterior
A-Wall-Extr-Misc	A-WL-EXT-MIC	7	Continuous	15	Full Saturation	sylas-true	Architectural - Walls, Exterior Miscellaneous
A-Wall-Extr-T001	A-WL-EX1	7	Continuous	70	Full Saturation	sylas-true	Architectural - Walls, Exterior Type 1
A-Wall-Extr-T002	A-WL-EX2	5	Continuous	50	Full Saturation	sylas-true	Architectural - Walls, Exterior Type 2
A-Wall-Extr-T003	A-WL-EX3	1	Continuous	18	Full Saturation	sylas-true	Architectural - Walls, Exterior Type 3
A-Wall-Extr-T004	A-WL-EX4	7	Continuous	70	Full Saturation	sylas-true	Architectural - Walls, Exterior Type 4
A-Wall-Fixt	A-WL-FIX	1	Continuous	20	Full Saturation	sylas-true	Architectural - Walls, Fixtures
A-Wall-Grll	A-WL-GRL	1	Continuous	15	Full Saturation	sylas-true	Architectural - Walls, Grilles
A-Wall-Intr	A-WL-INT	4	Continuous	40	Full Saturation	sylas-true	Architectural - Walls, Interior
A-Wall-Intr-Gyps	A-WL-INT-GYS	59	Continuous	40	Full Saturation	sylas-true	Architectural - Walls, Interior gypsa
A-Wall-Intr-Gyps-N	A-WL-INT-GYS-N	71	Continuous	40	Full Saturation	sylas-true	Architectural - Walls, Interior gypsa - New Work
A-Wall-Intr-Masn	A-WL-INT-MSN	24	Continuous	40	Full Saturation	sylas-true	Architectural - Walls, Interior masonry
A-Wall-Intr-Masn-N	A-WL-INT-MSN-N	30	Continuous	40	Full Saturation	sylas-true	Architectural - Walls, Interior masonry - New Work
A-Wall-Intr-Metl	A-WL-INT-MTL	230	Continuous	40	Full Saturation	sylas-true	Architectural - Walls, Interior metal
A-Wall-Intr-Metl-N	A-WL-INT-MTL-N	11	Continuous	40	Full Saturation	sylas-true	Architectural - Walls, Interior metal - New Work
A-Wall-Intr-Misc	A-WL-INT-MIC	3	Continuous	15	Full Saturation	sylas-true	Architectural - Walls, Interior Miscellaneous
A-Wall-Intr-Patt	A-WL-INT-HTC	8	Continuous	25	30 Percent	sylas-true	Architectural - Walls, Interior Hatch patterns
A-Wall-Intr-Prht	A-WL-INT-PRT	2	Continuous	25	Full Saturation	sylas-true	Architectural - Walls, Interior Partial-height
A-Wall-Intr-Stoe	A-WL-INT-STN	161	Continuous	40	Full Saturation	sylas-true	Architectural - Walls, Interior stone
A-Wall-Intr-Stoe-N	A-WL-INT-STN - N	5	Continuous	40	Full Saturation	sylas-true	Architectural - Walls, Interior stone - New Work
A-Wall-Intr-Wood	A-WL-INT-TIM	90	Continuous	40	Full Saturation	sylas-true	Architectural - Walls, Interior wood
A-Wall-Intr-Wood-N	A-WL-INT-TIM-N	2	Continuous	40	Full Saturation	sylas-true	Architectural - Walls, Interior wood - New Work
A-Wall-Move	A-WL-MOV	2	Continuous	25	Full Saturation	sylas-true	Architectural - Walls, Movable
A-Wall-Opng	A-WL-OPG	1	Continuous	20	Full Saturation	sylas-true	Architectural - Walls, Openings
	CIVIL						
C-Crtb-Curb	C-DW-CUR	2	Continuous	25	Full Saturation	sylas-true	Civil - Driveways, Curb
C-Prkg-Mrkg	C-PR-PMK	1	Continuous	15	Full Saturation	sylas-true	Civil - Parking lots, Pavement markings
C-Road	C-RD-ROD	3	Continuous	25	Full Saturation	sylas-true	Civil - Roadways
Defpoints	DEFPOINT	7	Continuous	-3	Normal	sylas-false	Dimension Definition Points
	ELECTRICAL						
E-Anno-Text	E-AN-TXT	2	Continuous	25	Full Saturation	sylas-true	Electrical - Annotation, Text
E-Clng-Mtns	E-CL-MSE	1	Continuous	18	Full Saturation	sylas-true	Electrical - Ceiling, Motion sensor
E-Clng-Text	E-CL-TEX	2	Continuous	25	Full Saturation	sylas-true	Electrical - Ceiling, Text
E-Clok	E-CK-CLK	1	Continuous	18	Full Saturation	sylas-true	Electrical - Clock system
E-Cont-Door	E-DR-CON-EQP	1	Continuous	18	Full Saturation	sylas-true	Electrical - Controls and instrumentation, Equipment doors
E-Cont-Door-N	E-DR-CON-EQP-N	4	Continuous	40	Full Saturation	sylas-true	Electrical - Controls and instrumentation, Equipment doors - New work
E-Detl	E-AN-DET	11	Continuous	25	Full Saturation	sylas-true	Electrical - Detail
E-Elec-Cndt	E-EL-CND	2	E_C_ELECTRICAL_CONDUIT	25	Full Saturation	sylas-true	Electrical - Electrical, Divenicaney / bypass conduit / culvert
E-Elec-Cndt-Clng	E-EL-CND-CLG	2	E_C_ELECTRICAL_CONDUIT	25	Full Saturation	sylas-true	Electrical - Electrical, Divenicaney / bypass conduit / culvert Ceiling
E-Elec-Cndt-N	E-EL-CND-N	4	E_C_ELECTRICAL_CONDUIT	40	Full Saturation	sylas-true	Electrical - Electrical, Divenicaney / bypass conduit / culvert - New work
E-Elec-Cndt-Text	E-EL-CND-TXT	2	Continuous	25	Full Saturation	sylas-true	Electrical - Electrical, Divenicaney / bypass conduit / culvert Text
E-Elev	E-EV-ELV	52	Continuous	25	Full Saturation	sylas-true	Electrical - Elevator
E-Elht-Radl	E-EL-RAD	1	Continuous	18	Full Saturation	sylas-true	Electrical - Electric heat, Radiator
E-Fire-Eqpm	E-FP-EQP	1	Continuous	18	Full Saturation	sylas-true	Electrical - Fire protection, Equipment
E-Lite	E-PL-LIG	2	Continuous	25	Full Saturation	sylas-true	Electrical - Lighting
E-Lite-Circ	E-LI-CIR	3	Continuous	35	Full Saturation	sylas-true	Electrical - Lighting, Circuits
E-Lite-Circ-N	E-LI-CIR-N	4	Continuous	40	Full Saturation	sylas-true	Electrical - Lighting, Circuits - New work
E-Lite-Clng	E-LI-FIX-CLG	3	Continuous	25	Full Saturation	sylas-true	Electrical - Lighting fixtures, Ceiling
E-Lite-Clng-D	E-LI-FIX-CLG-X	2	A_HIDDEN2	40	Full Saturation	sylas-true	Electrical - Lighting, Ceiling - Existing to demolish
E-Lite-Clng-Mtns	E-LI-CLG-MSN	2	Continuous	25	Full Saturation	sylas-true	Electrical - Lighting, Ceiling Motion sensor
E-Lite-Clng-N	E-LI-CLG-N	4	Continuous	40	Full Saturation	sylas-true	Electrical - Lighting, Ceiling - New work
E-Lite-Clng-Patt	E-LI-CLG-PTN	8	Continuous	25	30 Percent	sylas-true	Electrical - Lighting, Ceiling Hatch patterns
E-Lite-Clng-Text	E-LI-CLG-TXT	2	Continuous	25	Full Saturation	sylas-true	Electrical - Lighting, Ceiling Text
E-Lite-Emer	E-LI-EME	1	Continuous	18	Full Saturation	sylas-true	Electrical - Lighting, Emergency
E-Lite-Exit	E-LI-EXI	1	Continuous	18	Full Saturation	sylas-true	Electrical - Lighting, Exit
E-Lite-Exit-N	E-LI-EXI-N	4	Continuous	40	Full Saturation	sylas-true	Electrical - Lighting, Exit - New work
E-Lite-Swch	E-LI-STC	1	Continuous	18	Full Saturation	sylas-true	Electrical - Lighting, Switches

E-Lite-Swch-D	E-LI-STC-X	2	A_HIDDEN2	40	Full Saturation	sylw-true	Electrical - Lighting, Switches - Existing to demolish
E-Lite-Swch-N	E-LI-STC-N	4	Continuous	40	Full Saturation	sylw-true	Electrical - Lighting, Switches - New work
E-Lite-Swch-Text	E-LI-STC-TXT	2	Continuous	25	Full Saturation	sylw-true	Electrical - Lighting, Switches Text
E-Lite-Swch-Text-N	E-LI-STC-TXT-N	2	Continuous	25	Full Saturation	sylw-true	Electrical - Lighting, Switches Text - New work
E-Lite-Text	E-LI-TXT	2	Continuous	25	Full Saturation	sylw-true	Electrical - Lighting, Text
E-Plan-Refr	E-PL-REF	7	Continuous	25	Full Saturation	sylw-true	Electrical - Key plan (floor plan), Reference, external files
E-Powr	E-PO-POR	1	Continuous	18	Full Saturation	sylw-true	Electrical - Power
E-Powr-Cnmb	E-PO-CIR	2	Continuous	25	Full Saturation	sylw-true	Electrical - Power, Circuit numbers
E-Powr-Emer	E-PO-EME	2	Continuous	25	Full Saturation	sylw-true	Electrical - Power, Emergency
E-Powr-Eqpm	E-PO-EQP	2	Continuous	25	Full Saturation	sylw-true	Electrical - Power, Equipment
E-Powr-Eqpm-Swch	E-PO-EQP-STC	1	Continuous	18	Full Saturation	sylw-true	Electrical - Power, Equipment Switches
E-Powr-Jbox	E-PO-JBX	1	Continuous	18	Full Saturation	sylw-true	Electrical - Power, Junction box
E-Powr-Panl	E-PO-PNL	2	Continuous	25	Full Saturation	sylw-true	Electrical - Power, Panels
E-Powr-Panl-Text	E-PO-PNL-TXT	2	Continuous	25	Full Saturation	sylw-true	Electrical - Power, Panels Text
E-Powr-Recp	E-PO-REC	1	Continuous	18	Full Saturation	sylw-true	Electrical - Power, Receptacles
E-Powr-Recp-Clng	E-PO-REC -CLG	1	Continuous	18	Full Saturation	sylw-true	Electrical - Power, Receptacles Ceiling
E-Powr-Recp-D	E-PO-REC -CLG-X	2	A_HIDDEN2	40	Full Saturation	sylw-true	Electrical - Power, Receptacles - Existing to demolish
E-Powr-Recp-N	E-PO-REC-CLG-N	4	Continuous	40	Full Saturation	sylw-true	Electrical - Power, Receptacles - New work
E-Powr-Swch	E-PO-STC	1	Continuous	18	Full Saturation	sylw-true	Electrical - Power, Switches
E-Powr-Text	E-PO-TEX	2	Continuous	25	Full Saturation	sylw-true	Electrical - Power, Text
E-Powr-Text-D	E-PO-TXT-X	2	Continuous	25	Full Saturation	sylw-true	Electrical - Power, Text - Existing to demolish
E-Powr-Text-N	E-PO-TXT-N	2	Continuous	25	Full Saturation	sylw-true	Electrical - Power, Text - New work
E-Powr-Unac	E-PO-UFR	1	Continuous	18	Full Saturation	sylw-true	Electrical - Power, Under-floor raceways
E-Powr-Unac-D	E-PO-UFR-X	2	A_HIDDEN2	40	Full Saturation	sylw-true	Electrical - Power, Under-floor raceways - Existing to demolish
E-Powr-Unac-N	E-PO-UFR-N	4	Continuous	40	Full Saturation	sylw-true	Electrical - Power, Under-floor raceways - New work
E-Powr-Wall	E-PO-WLF	1	Continuous	18	Full Saturation	sylw-true	Electrical - Power, Wall fixture
E-Powr-Xfmr	E-PO-TRF	1	Continuous	18	Full Saturation	sylw-true	Electrical - Power, Transformers
E-Sect	E-PL-SEC	77	Continuous	25	Full Saturation	sylw-true	Electrical - Section
E-Sert	E-PL-SRT-SYS	1	Continuous	18	Full Saturation	sylw-true	Electrical - Security system
E-Soun-Eqpm	E-SD-EQP	1	Continuous	18	Full Saturation	sylw-true	Electrical - Sound / PA system, Equipment
E-Soun-Spkr	E-SD-SPK	1	Continuous	18	Full Saturation	sylw-true	Electrical - Sound / PA system, Speakers
E-Soun-Spkr-Clng	E-SD-SPK-CLG	1	Continuous	18	Full Saturation	sylw-true	Electrical - Sound / PA system, Speakers Ceiling
E-Unid-Eqpm	E-UN-EQP	1	Continuous	18	Full Saturation	sylw-true	Electrical - Unidentified site objects, Equipment
E-Wall-Eqpm	E-WL-EQP	1	Continuous	18	Full Saturation	sylw-true	Electrical - Walls, Equipment
E-Wall-Swch	E-WL-STC	1	Continuous	18	Full Saturation	sylw-true	Electrical - Walls, Switches
	FIRE						
F-Prot-Eqpm	F-FB-EQP	2	Continuous	25	Full Saturation	sylw-true	Fire Protection - Fire protection system, Equipment
F-Prot-Eqpm-D	F-FB-EQP-X	2	A_HIDDEN2	40	Full Saturation	sylw-true	Fire Protection - Fire protection system, Equipment - Existing to demolish
F-Prot-Eqpm-Text	F-FB-EQP-TXT	2	Continuous	25	Full Saturation	sylw-true	Fire Protection - Fire protection system, Equipment Text
F-Prot-Hose	F-FB-HOS	1	Continuous	18	Full Saturation	sylw-true	Fire Protection - Fire protection system, Hoses
F-Prot-Panl	F-FB-PNL	1	Continuous	18	Full Saturation	sylw-true	Fire Protection - Fire protection system, Panels
F-Prot-Panl-Text	F-FB-PNL-TXT	2	Continuous	25	Full Saturation	sylw-true	Fire Protection - Fire protection system, Panels Text
F-Prot-Pipe	F-FB-PIP	2	Continuous	25	Full Saturation	sylw-true	Fire Protection - Fire protection system, Piping
F-Prot-Pipe-D	F-FB-PIP-X	2	A_HIDDEN2	40	Full Saturation	sylw-true	Fire Protection - Fire protection system, Piping - Existing to demolish
F-Prot-Pipe-N	F-FB-PIP-N	4	Continuous	40	Full Saturation	sylw-true	Fire Protection - Fire protection system, Piping - New work
F-Prot-Smok	F-FB-SMK	1	Continuous	18	Full Saturation	sylw-true	Fire Protection - Fire protection system, Smoke detector / heat sensors
F-Prot-Smok-Cndt	F-FB-SMK-CDN	2	Continuous	25	Full Saturation	sylw-true	Fire Protection - Fire protection system, Smoke detector/heat sensors Divertionary/bypass conduit/
F-Prot-Smok-D	F-FB-SMK-X	2	A_HIDDEN2	40	Full Saturation	sylw-true	Fire Protection - Fire protection system, Smoke detector / heat sensors - Existing to demolish
F-Spkl-Clhd	F-FB-SPK	1	Continuous	18	Full Saturation	sylw-true	Fire Protection - Sprinkler, Ceiling heads
F-Spkl-Eqpm	F-FB-SPK-EQP	1	Continuous	18	Full Saturation	sylw-true	Fire Protection - Sprinkler, Equipment
F-Spkl-Pipe	F-FB-SPK-PIP	2	M_Sprinkler_Line	25	Full Saturation	sylw-true	Fire Protection - Sprinkler, Piping
	GENERAL						
G-Anno-Labl-Text	G-AN-TXT	2	Continuous	25	Full Saturation	sylw-true	General - Annotation, Labels Text
G-Anno-Nplt	G-AN-NPL	250	Continuous	25	Full Saturation	sylw-false	Annotation, Non-Plotting
G-Anno-Prst	G-AN-SMP	7	Continuous	25	Full Saturation	sylw-true	General - Annotation, Date/time/file name stamp
G-Anno-Rdme-Nplt	G-AN-ELE-NPL	7	Continuous	25	Full Saturation	sylw-true	General - Annotation, Read-me layer Non-plotting elements
G-Anno-Revt	G-AN-REV	7	Continuous	25	Full Saturation	sylw-true	General - Annotation, Revisions
G-Anno-Stmp-Nplt	G-AN-SMP-NPL	250	Continuous	25	Full Saturation	sylw-false	General - Annotation, Professional stamp Non-plotting elements
G-Anno-Symb-Text	G-AN-SYM-TXT	2	Continuous	25	Full Saturation	sylw-true	General - Annotation, Symbols Text
G-Anno-Text	G-AN-TXT	2	Continuous	25	Full Saturation	sylw-true	General - Annotation, Text
G-Anno-Titl	G-AN-DWG-TIT	2	Continuous	25	Full Saturation	sylw-true	General - Annotation, Drawing or detail titles
G-Anno-Ttlb	G-AN-TIT-BRD	7	Continuous	50	Full Saturation	sylw-true	General - Annotation, Border and title block
G-Anno-Ttlb-Logo	G-AN-TIT-CML	7	Continuous	50	Full Saturation	sylw-true	General - Annotation, Border and title block Company logo
G-Anno-Ttlb-Nplt	G-AN-TIT-NPL	250	Continuous	25	Full Saturation	sylw-false	General - Annotation, Border and title block Non-plotting elements
G-Anno-Ttlb-Otln	G-AN-TIT-OTL	7	Continuous	140	Full Saturation	sylw-true	General - Annotation, Border and title block Outline
G-Anno-Ttlb-Thin	G-AN-TIT-MLN	7	Continuous	25	Full Saturation	sylw-true	General - Annotation, Border and title block Minor linework
G-Anno-Ttlb-Ttl	G-AN-TIT-BLK	7	Continuous	25	Full Saturation	sylw-true	General - Annotation, Border and title block Titles
G-Anno-View-Nplt	G-AN-VPT-NPL	1	Continuous	15	Full Saturation	sylw-false	General - Annotation, Viewport Definition Non-plotting elements
	FURNITURE						
I-Furn	I-FU-FUN	5	HIDDEN2	15	Full Saturation	sylw-true	Interiors - Furnishings - NIC
I-Furn-E	I-FN-FUN-E	1	Continuous	15	Full Saturation	sylw-true	Interiors - Furnishings - Existing to remain
I-Furn-N	I-FN-FUN-N	4	Continuous	25	Full Saturation	sylw-true	Interiors - Furnishings - NIC - New work
I-Furn-Nplt	I-FU-FUN-NPL	8	HIDDEN2	15	Full Saturation	sylw-false	Interiors - Furnishings, Non-plotting graphic information
I-Furn-Text	I-FU-FUN-TXT	161	Continuous	15	Full Saturation	sylw-true	Interiors - Furnishings, Fixed Text
L-Plnt-Tree	L-PL-PLT	3	Continuous	40	Full Saturation	sylw-true	Landscape - Plant and landscape material, Trees
	MECHANICAL						
M-Anno-Text	M-AN-TXT	2	Continuous	25	Full Saturation	sylw-true	Mechanical - Annotation, Text
M-Anno-Text-D	M-AN-TXT-X	2	Continuous	25	Full Saturation	sylw-true	Mechanical - Annotation, Text - Existing to demolish
M-Anno-Text-N	M-AN-TXT-N	2	Continuous	25	Full Saturation	sylw-true	Mechanical - Annotation, Text - New work
M-Cmpa	M-CM-PAS	4	Continuous	40	Full Saturation	sylw-true	Mechanical - Compressed / processed air systems
M-Cmpa-Eqpm	M-CM-PAS-EQP	4	Continuous	40	Full Saturation	sylw-true	Mechanical - Compressed / processed air systems, Equipment
M-Cmpa-N	M-CM-PAS-N	4	Continuous	40	Full Saturation	sylw-true	Mechanical - Compressed / processed air systems - New work
M-Cmpa-Text	M-CM-PAS-TXT	2	Continuous	25	Full Saturation	sylw-true	Mechanical - Compressed / processed air systems, Text
M-Cmpa-Ther	M-CM-PAS-TST	2	Continuous	25	Full Saturation	sylw-true	Mechanical - Compressed / processed air systems, Thermostats
M-Cndw-Retn	M-CW-SYS-RET	4	Continuous	40	Full Saturation	sylw-true	Mechanical - Condenser water systems, Return
M-Cndw-Sply	M-CW-SYS-SUP	4	Continuous	40	Full Saturation	sylw-true	Mechanical - Condenser water systems, Supply
M-Cont	M-CT-INU	1	Continuous	18	Full Saturation	sylw-true	Mechanical - Controls and Instrumentation
M-Cont-Ther	M-CT-INU-TST	1	Continuous	18	Full Saturation	sylw-true	Mechanical - Controls and Instrumentation, Thermostats
M-Cont-Ther-D	M-CT-INU-TST-X	2	A_HIDDEN2	40	Full Saturation	sylw-true	Mechanical - Controls and Instrumentation, Thermostats - Existing to demolish
M-Cont-Ther-N	M-CT-INU-TST-N	4	Continuous	40	Full Saturation	sylw-true	Mechanical - Controls and Instrumentation, Thermostats - New work
M-Cont-Ther-Wire	M-CT-INU-TWR	3	Continuous	35	Full Saturation	sylw-true	Mechanical - Controls and Instrumentation, Thermostats Wiring
M-Cwtr	M-PL-CWR	4	Continuous	40	Full Saturation	sylw-true	Mechanical - Chilled water systems
M-Cwtr-Cndt	M-CR-CND	4	Continuous	40	Full Saturation	sylw-true	Mechanical - Chilled water systems, Condensate piping
M-Cwtr-Cndt-D	M-CR-CND-X	2	A_HIDDEN2	40	Full Saturation	sylw-true	Mechanical - Chilled water systems, Condensate piping - Existing to demolish
M-Cwtr-Cndt-N	M-CR-CND-N	4	Continuous	40	Full Saturation	sylw-true	Mechanical - Chilled water systems, Condensate piping - New work
M-Cwtr-Cndt-Text	M-CR-CND-TXT	2	Continuous	25	Full Saturation	sylw-true	Mechanical - Chilled water systems, Condensate piping Text
M-Cwtr-N	M-CR-SYS-N	4	Continuous	40	Full Saturation	sylw-true	Mechanical - Chilled water systems - New work
M-Cwtr-Pipe	M-CR-PIP	4	Continuous	40	Full Saturation	sylw-true	Mechanical - Chilled water systems, Piping
M-Cwtr-Pipe-Cntr	M-CR-PIP-CEN	4	CENTER2	40	Full Saturation	sylw-true	Mechanical - Chilled water systems, Piping Center
M-Cwtr-Pipe-Text	M-CR-PIP-TXT	2	Continuous	25	Full Saturation	sylw-true	Mechanical - Chilled water systems, Piping Text
M-Cwtr-Retn	M-CR-RET	4	M_Chill_Water_Return_Line	40	Full Saturation	sylw-true	Mechanical - Chilled water systems, Return
M-Cwtr-Retn-N	M-CR-RET-N	4	M_Chill_Water_Return_Line	40	Full Saturation	sylw-true	Mechanical - Chilled water systems, Return - New work
M-Cwtr-Retn-Text	M-CR-RET-TXT	2	Continuous	25	Full Saturation	sylw-true	Mechanical - Chilled water systems, Return Text
M-Cwtr-Sply	M-CR-SUP	4	M_Chill_Water_Supply_Line	40	Full Saturation	sylw-true	Mechanical - Chilled water systems, Supply
M-Cwtr-Sply-N	M-CR-SUP-N	4	M_Chill_Water_Supply_Line	40	Full Saturation	sylw-true	Mechanical - Chilled water systems, Supply - New work
M-Cwtr-Sply-Text	M-CR-SUP-TXT	2	Continuous	25	Full Saturation	sylw-true	Mechanical - Chilled water systems, Supply Text
M-Cwtr-Text	M-CR-TXT	2	Continuous	25	Full Saturation	sylw-true	Mechanical - Chilled water systems, Text
M-Detl	M-PL-DET	11	Continuous	25	Full Saturation	sylw-true	Mechanical - Detail
M-Dome	M-PL-DWR-SYS	4	Continuous	40	Full Saturation	sylw-true	Mechanical - Domestic water systems
M-Elev	M-PL-ELV	52	Continuous	25	Full Saturation	sylw-true	Mechanical - Elevation
M-Elht-Clng	M-EL-CLG-HET	1	Continuous	18	Full Saturation	sylw-true	Mechanical - Electric heat, Ceiling
M-Eqpm	M-PL-EQP	6	Continuous	50	Full Saturation	sylw-true	Mechanical - Equipment
M-Eqpm-Cntr	M-PL-EQP-CEN	1	CENTER2	18	Full Saturation	sylw-true	Mechanical - Equipment, Centerline

M-HVAC	M-PL-HVC	4	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC
M-HVAC-Boxd	M-HV-MBX-DDT	4	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC, Mixing box, Dual duct
M-HVAC-Boxs	M-HV-MBX-SDT	4	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC, Mixing box, Single duct
M-HVAC-Ceff	M-HV-CLG-DIF	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Ceiling diffusers
M-HVAC-Ceff-N	M-HV-CLG-DIF-N	4	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC, Ceiling diffusers - New work
M-HVAC-Ceff-Retn	M-HV-DIF-RET	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Ceiling diffusers Return
M-HVAC-Ceff-Text	M-HV-DIF-TXT	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Ceiling diffusers Text
M-HVAC-Clda	M-HV-CAR	4	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC, Cold air
M-HVAC-Clng	M-HV-CLG	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Ceiling
M-HVAC-Clng-Grll	M-HV-CLG-GRL	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Ceiling Grilles
M-HVAC-Dmpr	M-HV-DMP	4	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC, Fire, smoke, volume damper
M-HVAC-Dmpr-Retn	M-HV-DMP-RET	3	Continuous	35	Full Saturation	sytax-true	Mechanical - HVAC, Fire, smoke, volume damper Return
M-HVAC-Dmpr-Sply	M-HV-DMP-SUP	3	Continuous	35	Full Saturation	sytax-true	Mechanical - HVAC, Fire, smoke, volume damper Supply
M-HVAC-Duct	M-HV-DUC	4	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC, Ductwork
M-HVAC-Duct-Mbnd	M-HV-DUC-BYD	1	Continuous	18	Full Saturation	sytax-true	Mechanical - HVAC, Ductwork Material beyond cut
M-HVAC-Duct-Mcut	M-HV-DUC-CUT	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Ductwork Material cut by the view
M-HVAC-Duct-N	M-HV-DUC-N	4	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC, Ductwork - New work
M-HVAC-Duct-Patt	M-HV-DUC-PTN	9	Continuous	25	10 Percent	sytax-true	Mechanical - HVAC, Ductwork Hatch patterns
M-HVAC-Duct-Patt-N	M-HV-DUC-PTN-N	4	Continuous	18	Full Saturation	sytax-true	Mechanical - HVAC, Ductwork Hatch patterns - New work
M-HVAC-Eqpm	M-HV-EQP	1	Continuous	18	Full Saturation	sytax-true	Mechanical - HVAC, Equipment
M-HVAC-Eqpm-Text	M-HV-EQP-TXT	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Equipment Text
M-HVAC-Exhs	M-HV-EHX	3	Continuous	35	Full Saturation	sytax-true	Mechanical - HVAC, Exhaust air
M-HVAC-Exhs-D	M-HV-EHX-X	2	A_HIDDEN2	40	Full Saturation	sytax-true	Mechanical - HVAC, Exhaust air - Existing to demolish
M-HVAC-Exhs-Text	M-HV-EHX-TXT	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Exhaust air Text
M-HVAC-Flex	M-HV-FLX	3	TRACKS	35	Full Saturation	sytax-true	Mechanical - HVAC, Flex
M-HVAC-Flex-Retn	M-HV-FLX-RET	3	TRACKS	35	Full Saturation	sytax-true	Mechanical - HVAC, Flex Return
M-HVAC-Flor-Grll	M-HV-FLR-GRL	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Floor Grilles
M-HVAC-Grll	M-HV-GRL	1	Continuous	18	Full Saturation	sytax-true	Mechanical - HVAC, Grilles
M-HVAC-Hota	M-HV-HAR	1	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC, Hot air
M-HVAC-Insu	M-HV-INS	1	HIDDEN2	18	Full Saturation	sytax-true	Mechanical - HVAC, Insulation
M-HVAC-Opng	M-HV-OPG	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Openings
M-HVAC-Ovhd	M-HV-OHD	1	Continuous	18	Full Saturation	sytax-true	Mechanical - HVAC, Overhead
M-HVAC-Patt	M-HV-PTN	9	Continuous	25	10 Percent	sytax-true	Mechanical - HVAC, Texture or hatch patterns
M-HVAC-Retn	M-HV-RET	1	Continuous	18	Full Saturation	sytax-true	Mechanical - HVAC, Return
M-HVAC-Retn-D	M-HV-RET-X	2	A_HIDDEN2	40	Full Saturation	sytax-true	Mechanical - HVAC, Return - Existing to demolish
M-HVAC-Retn-Grll	M-HV-RET-GRL	1	Continuous	18	Full Saturation	sytax-true	Mechanical - HVAC, Return Grilles
M-HVAC-Retn-Grll-D	M-HV-RET-GRL-X	2	A_HIDDEN2	40	Full Saturation	sytax-true	Mechanical - HVAC, Return Grilles - Existing to demolish
M-HVAC-Retn-Grll-N	M-HV-RET-GRL-N	4	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC, Return Grilles - New work
M-HVAC-Retn-N	M-HV-RET-N	4	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC, Return - New work
M-HVAC-Retn-Patt	M-HV-RET-PTN	9	Continuous	25	10 Percent	sytax-true	Mechanical - HVAC, Return Hatch patterns
M-HVAC-Retn-Text	M-HV-RET-TXT	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Return Text
M-HVAC-Retn-Text-N	M-HV-RET-TXT-N	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Return Text - New work
M-HVAC-Shad	M-HV-SHD	42	Continuous	25	25 Percent	sytax-true	Mechanical - HVAC, Shadow area
M-HVAC-Sply	M-HV-SUP	4	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC, Supply
M-HVAC-Sply-D	M-HV-SUP-X	2	A_HIDDEN2	40	Full Saturation	sytax-true	Mechanical - HVAC, Supply - Existing to demolish
M-HVAC-Sply-Grll	M-HV-SUP-GRL	1	Continuous	18	Full Saturation	sytax-true	Mechanical - HVAC, Supply Grilles
M-HVAC-Sply-Grll-D	M-HV-SUP-GRL-X	2	A_HIDDEN2	40	Full Saturation	sytax-true	Mechanical - HVAC, Supply Grilles - Existing to demolish
M-HVAC-Sply-Grll-N	M-HV-SUP-GRL-N	4	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC, Supply Grilles - New work
M-HVAC-Sply-N	M-HV-SUP-N	4	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC, Supply - New work
M-HVAC-Sply-Patt	M-HV-SUP-PTN	9	Continuous	25	10 Percent	sytax-true	Mechanical - HVAC, Supply Hatch patterns
M-HVAC-Sply-Skch	M-HV-SUP-SKH	4	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC, Supply Sketch
M-HVAC-Sply-Skch-N	M-HV-SUP-SKH-N	4	Continuous	40	Full Saturation	sytax-true	Mechanical - HVAC, Supply Sketch - New work
M-HVAC-Sply-Symb	M-HV-SUP-SYB	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Supply Reference symbols
M-HVAC-Sply-Text	M-HV-SUP-TXT	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Supply Text
M-HVAC-Sply-Text-D	M-HV-SUP-TXT-D	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Supply Text - Existing to demolish
M-HVAC-Sply-Text-N	M-HV-SUP-TXT-N	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Supply Text - New work
M-HVAC-Text	M-HV-TXT	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Text
M-HVAC-Text-N	M-HV-TXT-N	2	Continuous	25	Full Saturation	sytax-true	Mechanical - HVAC, Text - New work
M-Hwtr	M-PL-HWR	2	M_HOT_WATER_LINE	25	Full Saturation	sytax-true	Mechanical - Hot water heating system
M-Hwtr-D	M-PL-HWR-X	2	A_HIDDEN2	40	Full Saturation	sytax-true	Mechanical - Hot water heating system - Existing to demolish
M-Hwtr-N	M-PL-HWR-N	4	M_HOT_WATER_LINE	40	Full Saturation	sytax-true	Mechanical - Hot water heating system - New work
M-Hwtr-Pipe	M-HW-PIP	2	Continuous	25	Full Saturation	sytax-true	Mechanical - Hot water heating system, Piping
M-Hwtr-Retn	M-HW-RET	2	M_HOT_WATER_RETURN	25	Full Saturation	sytax-true	Mechanical - Hot water heating system, Return
M-Hwtr-Retn-N	M-HW-RET-N	4	M_HOT_WATER_RETURN	40	Full Saturation	sytax-true	Mechanical - Hot water heating system, Return - New work
M-Hwtr-Sply	M-HW-SUP	2	M_HOT_WATER_SUPPLY	25	Full Saturation	sytax-true	Mechanical - Hot water heating system, Supply
M-Hwtr-Sply-N	M-HW-SUP-N	4	M_HOT_WATER_SUPPLY	40	Full Saturation	sytax-true	Mechanical - Hot water heating system, Supply - New work
M-Hwtr-Text	M-HW-TXT	2	Continuous	25	Full Saturation	sytax-true	Mechanical - Hot water heating system, Text
M-Pipe	M-PL-PIP	5	Continuous	50	Full Saturation	sytax-true	Mechanical - Piping
M-Pipe-Cair	M-PP-CAR	4	M_COMPRESSED_AIR_LINE	40	Full Saturation	sytax-true	Mechanical - Piping, Compressed air
M-Pipe-Cndt	M-PP-CND	1	M_CONDENSATE_DRAIN_LINE	18	Full Saturation	sytax-true	Mechanical - Piping, Condensate piping
M-Pipe-Cntr	M-PP-CEN	1	CENTER2	18	Full Saturation	sytax-true	Mechanical - Piping, Centerline
M-Pipe-Drip	M-PP-DRT	3	Continuous	35	Full Saturation	sytax-true	Mechanical - Piping, Drip irrigation tubing
M-Pipe-Drip-N	M-PP-MNO-N	4	Continuous	40	Full Saturation	sytax-true	Mechanical - Piping, Minor 1 -Drip - New work
M-Pipe-Eqpm	M-PP-EQP	5	Continuous	50	Full Saturation	sytax-true	Mechanical - Piping, Equipment
M-Pipe-N	M-PL-PIP-N	4	Continuous	40	Full Saturation	sytax-true	Mechanical - Piping - New work
M-Pipe-Nitg	M-PP-NIT	4	M_NITROGEN_LINE	40	Full Saturation	sytax-true	Mechanical - Piping, Nitrogen
M-Pipe-Strm	M-PP-STR	1	Continuous	18	Full Saturation	sytax-true	Mechanical - Piping, Storm Sewer
M-Pipe-Text	M-PP-TXT	2	Continuous	25	Full Saturation	sytax-true	Mechanical - Piping, Text
M-Pipe-Valv	M-PP-VLV	3	Continuous	35	Full Saturation	sytax-true	Mechanical - Piping, Valves
M-Pipe-Vent	M-PP-VEN	8	M_VENT_LINE	25	30 Percent	sytax-true	Mechanical - Piping, Vents
M-Pipe-Vent-D	M-PP-VEN-X	2	A_HIDDEN2	40	Full Saturation	sytax-true	Mechanical - Piping, Vents - Existing to demolish
M-Pipe-Vent-Labv	M-PP-LEB-VEN	2	M_VENT_LINE	25	30 Percent	sytax-true	Mechanical - Piping, Vents Laboratory vent
M-Pipe-Watr	M-PP-WTR-SUP	4	M_Feed_Water	40	Full Saturation	sytax-true	Mechanical - Piping, Water supply
M-Plan-Refr	M-PL-REF	7	Continuous	25	Full Saturation	sytax-true	Mechanical - Key plan (floor plan), Reference, external files
M-Roof-Eqpm	M-RF-EQP	1	Continuous	18	Full Saturation	sytax-true	Mechanical - Roof, Equipment
M-Sect	M-PL-SEC	73	Continuous	25	Full Saturation	sytax-true	Mechanical - Section
M-Stem-Hpip	M-ST-HWP	2	Continuous	25	Full Saturation	sytax-true	Mechanical - Steam system, Hot water / high-pressure piping
M-Stem-Sply	M-ST-SUP	2	Continuous	25	Full Saturation	sytax-true	Mechanical - Steam system, Supply
M-Stem-Sply-N	M-ST-SUP-N	4	Continuous	40	Full Saturation	sytax-true	Mechanical - Steam system, Supply - New work
M-Stem-Sply-Text	M-ST-SUP-TXT	2	Continuous	25	Full Saturation	sytax-true	Mechanical - Steam system, Supply Text
M-Stem-Sply-Text-D	M-ST-SUP-TXT-X	2	Continuous	25	Full Saturation	sytax-true	Mechanical - Steam system, Supply Text - Existing to demolish
M-Unid-Duct-Mcut	M-UN-DCT-CUT	3	Continuous	35	Full Saturation	sytax-true	Mechanical - Unidentified site objects, Ductwork Material cut by the view
	PLUMBING						
P-Domw-Cplp	P-DO-CWP	4	M_Domestic_Cold_Water	40	Full Saturation	sytax-true	Plumbing - Domestic water systems, Cold water piping
P-Domw-Cplp-D	P-DO-CWP-X	2	A_HIDDEN2	40	Full Saturation	sytax-true	Plumbing - Domestic water systems, Cold water piping - Existing to demolish
P-Domw-Cplp-Text	P-DO-CWP-TXT	2	Continuous	25	Full Saturation	sytax-true	Plumbing - Domestic water systems, Cold water piping Text
P-Domw-Hplp	P-DO-HWP	4	M_Domestic_Hot_Water	40	Full Saturation	sytax-true	Plumbing - Domestic water systems, Hot water / high-pressure piping
P-Domw-Hplp-Rplp	P-DO-HWP-RCP	4	M_Domestic_Hot_Water_Recycle	40	Full Saturation	sytax-true	Plumbing - Domestic water systems, Hot water / high-pressure piping Recirculation piping
P-Domw-Hplp-Text	P-DO-HWP-TXT	2	Continuous	25	Full Saturation	sytax-true	Plumbing - Domestic water systems, Hot water / high-pressure piping Text
P-Dran	P-PL-DRN	4	M_DRAIN	40	Full Saturation	sytax-true	Plumbing - Drains
P-Dran-Blue	P-DN-BLU	4	M_Blue_Drain_Line	40	Full Saturation	sytax-true	Plumbing - Drains, Blue
P-Dran-Brwn	P-DN-BRW	4	M_Brown_Drain_Line	40	Full Saturation	sytax-true	Plumbing - Drains, Brown
P-Dran-D	P-PL-DRN-X	2	A_HIDDEN2	40	Full Saturation	sytax-true	Plumbing - Drains - Existing to demolish
P-Dran-Glas	P-DN-GLS	4	M_Glass_Drain_Line	40	Full Saturation	sytax-true	Plumbing - Drains, Glass
P-Dran-Labv	P-DR-LVT	4	Continuous	40	Full Saturation	sytax-true	Plumbing - Drains, Laboratory vent
P-Dran-Labw	P-DR-LWT	4	Continuous	40	Full Saturation	sytax-true	Plumbing - Drains, Laboratory waste
P-Dran-Labw-Text	P-DN-LWT-TXT	2	Continuous	25	Full Saturation	sytax-true	Plumbing - Drains, Laboratory waste Text
P-Dran-N	P-PL-DRN-N	4	M_DRAIN	40	Full Saturation	sytax-true	Plumbing - Drains - New work
P-Dran-Sanr	P-DN-SSU	1	Continuous	18	Full Saturation	sytax-true	Plumbing - Drains, Sanitary sewer
P-Dran-Strm	P-DN-STR	2	Continuous	25	Full Saturation	sytax-true	Plumbing - Drains, Storm Sewer
P-Dran-Text	P-DN-TXT	2	Continuous	25	Full Saturation	sytax-true	Plumbing - Drains, Text
P-Dran-Text-D	P-DN-TXT-X	2	Continuous	25	Full Saturation	sytax-true	Plumbing - Drains, Text - Existing to demolish
P-Dran-Ugnd	P-DN-UGD	4	M_DRAIN	40	Full Saturation	sytax-true	Plumbing - Drains, Underground

P-Drain-Wast	P-DR-WST	4	M_Waste_Drain_Line	40	Full Saturation	,Value=true	Plumbing - Drains, Waste
P-Floor-Drain	P-FL-DRN-IND	1	Continuous	18	Full Saturation	,Value=true	Plumbing - Floor, Drainage slope indications
P-Gas^	P-PL-GAS	4	M_GAS_LINE	40	Full Saturation	,Value=true	Plumbing - Gas
P-Gas^-N	P-PL-GAS-N	4	M_GAS_LINE	40	Full Saturation	,Value=true	Plumbing - Gas - New work
P-Mdgs	P-PL-MGS	4	M_GAS_LINE	40	Full Saturation	,Value=true	Plumbing - Medical gas
P-Mdgs-Cair	P-PL-MGS-CAR	4	M_COMPRESSED_AIR_LINE	40	Full Saturation	,Value=true	Plumbing - Medical gas, Compressed air
P-Mdgs-Nitg	P-PL-MGS-NIT	4	M_NITROGEN_LINE	40	Full Saturation	,Value=true	Plumbing - Medical gas, Nitrogen
P-Pipe	P-PL-PIP	5	Continuous	50	Full Saturation	,Value=true	Plumbing - Piping
P-Pipe-Patt	P-PL-PIP-PTN	1	Continuous	18	Full Saturation	,Value=true	Plumbing - Piping, Texture or hatch patterns
P-Pipe-Patt-N	P-PL-PIP-PTN-N	4	Continuous	18	Full Saturation	,Value=true	Plumbing - Piping, Texture or hatch patterns - New work
P-Pipe-Shad	P-PL-PIP-SHD	42	Continuous	25	25 Percent	,Value=true	Plumbing - Piping, Shadow area
P-Pipe-Text	P-PL-PIP-TXT	2	Continuous	25	Full Saturation	,Value=true	Plumbing - Piping, Text
P-Sswr	P-PL-SSU	1	Continuous	18	Full Saturation	,Value=true	Plumbing - Sanitary sewer
P-Sswr-Vent	P-PL-SSU-VEN	3	Continuous	35	Full Saturation	,Value=true	Plumbing - Sanitary sewer, Vents
P-Strm	P-PL-STM	2	M_STORM_LINE	25	Full Saturation	,Value=true	Plumbing - Storm sewer
P-Strm-Pipe	P-PL-PIP-STM	2	Continuous	25	Full Saturation	,Value=true	Plumbing - Storm sewer, Piping
P-Strm-Rfdr	P-RF-DRN	1	Continuous	18	Full Saturation	,Value=true	Plumbing - Drainage, Roof drains
P-Strm-Rfdr-Text	P-RF-DRN-TXT	2	Continuous	25	Full Saturation	,Value=true	Plumbing - Storm sewer, Roof drains Text
P-Vacu	P-PL-VCC	4	M_VACUUM_AIR_LINE	40	Full Saturation	,Value=true	Plumbing - Vacuum
P-Watr	P-WT-SUP	4	M_Feed_Water	40	Full Saturation	,Value=true	Plumbing - Water supply
P-Watr-Dei^	P-WT-SUP-DEI	4	M_DEIONIZED_WATER_LINE	40	Full Saturation	,Value=true	Plumbing - Water supply, De-Ionized water supply - system
P-Watr-Dei^-Text	P-WT-DEI-TXT	2	Continuous	25	Full Saturation	,Value=true	Plumbing - Water supply, De-Ionized water supply - system Text
P-Watr-Dws^	P-WT-DIS-SUP	4	M_DISTILLED_WATER_LINE	40	Full Saturation	,Value=true	Plumbing - Water supply, Distilled water supply - system
P-Watr-Dws^-Text	P-W-DIS-TXT	2	Continuous	25	Full Saturation	,Value=true	Plumbing - Water supply, Distilled water supply - system Text
	STRUCTURE						
S-Beam	S-PL-BEM	3	Continuous	50	Full Saturation	,Value=true	Structural - Beams
S-Beam-Clng	S-PL-BEM-CLG	3	HIDDEN2	20	Full Saturation	,Value=true	Structural - Beams, Ceiling
S-Brcg	S-PL-BCG	3	PHANTOM2	50	Full Saturation	,Value=true	Structural - Bracing
S-Cols	S-PL-COL	6	Continuous	50	Full Saturation	,Value=true	Structural - Columns
S-Cols-Stel	S-PL-COL-STL	5	Continuous	50	Full Saturation	,Value=true	Structural - Columns, Steel
S-Conc	S-PL-CON-ELE	6	Continuous	50	Full Saturation	,Value=true	Structural - Concrete elements
S-Grid	S-PL-GRD	1	CENTER2	20	Full Saturation	,Value=true	Structural - Grid lines
S-Grid-Iden	S-PL-GRD-TAG	1	Continuous	50	Full Saturation	,Value=true	Structural - Grid lines, Identification Tags
S-Slab	S-PL-SLB	6	Continuous	50	Full Saturation	,Value=true	Structural - Slabs
S-Slab-Curb	S-PL-SLB-CRB	122	Continuous	15	Full Saturation	,Value=true	Structural - Slabs, Curb
S-Stel	S-PL-ELE-STL	5	Continuous	50	Full Saturation	,Value=true	Structural - Steel elements
S-Wall	S-PL-WAL	6	Continuous	50	Full Saturation	,Value=true	Structural - Walls
	TELECOMMUNICATION						
T-Comm	T-TC-COM	1	Continuous	18	Full Saturation	,Value=true	Telecommunications - Telephone communications
T-Comm-Wall	T-WL-COM	1	Continuous	18	Full Saturation	,Value=true	Telecommunications - Telephone communications, Walls
T-Data	T-TC-DLS	1	Continuous	18	Full Saturation	,Value=true	Telecommunications - Data / LAN system
T-Data-Cndt	T-TC-DLS-CND	1	Continuous	18	Full Saturation	,Value=true	Telecommunications - Data / LAN system, Diversionary / bypass conduit / culvert
T-Data-D	T-TC-DLS-E	2	A_HIDDEN2	40	Full Saturation	,Value=true	Telecommunications - Data / LAN system - Existing to demolish
T-Data-N	T-TC-DLS-N	4	Continuous	40	Full Saturation	,Value=true	Telecommunications - Data / LAN system - New work
T-Data-Text	T-TC-DLS-TXT	2	Continuous	25	Full Saturation	,Value=true	Telecommunications - Data / LAN system, Text
T-Data-Wall	T-WL-DLS	1	Continuous	18	Full Saturation	,Value=true	Telecommunications - Data / LAN system, Walls
T-Sert-Eqpm	T-SE-EQP	1	Continuous	18	Full Saturation	,Value=true	Telecommunications - Security system, Equipment
T-Tvs	T-TC-TVS	1	Continuous	18	Full Saturation	,Value=true	Telecommunications - Television and video systems
	XREF						
X-Anno-Wipe	X-AN-WOT	250	Continuous	9	Full Saturation	,Value=true	Other Disciplines - Annotation, Wipeout
X-Plan-Refr	X-PL-REF	7	Continuous	25	Full Saturation	,Value=true	Other Disciplines - Key plan (floor plan), Reference, external files

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Appendix B – layer Field Description

Four Letter Major

In this list below, the following abbreviations used to create layers. These can be used to create new layers.

This field is only use for group field:

x-**XXXX**-xxxx-x

EXT.	DISCRIPTION	EXT.	DISCRIPTION
Anno	Annotation	Fire	Fire
Clng	Ceiling	Lite	Lighting
Detl	Detail	Powr	Power
Door	Door	Sert	Security system
Elev	Elevation	Prot	Fire Protection
Elht	Electric Heat	Spkl	Sprinkler
Flor	Floor	Furn	Furniture
Glaz	Glazing	Plnt	plant and Landscape
Hwtr	Hot water Heating system	Site	Site
Plan	Plan	Cmpa	compressed air system
Roof	Roof	Cndw	Condenser water system
Sect	Section	Cont	Controls
Unid	Unidentified	Cwtr	Chilled water system
Wall	Wall	Domw	Domestic water system
Driv	Driveway	Eqpm	Equipment
Prkg	Parking Lot	HVAC	HVAC
Road	Roadways	Hwtr	Hot water heating system
Cont	Controls	Pipe	Pipe
Elec	Electrical	Stem	Steam
Dran	Drain	Mdgs	Medical Gas
Sswr	Sanitary sewer	Strm	Storm
Vacu	Vacuum	Watr	Water supply
Beam	Beams	Brcg	Bracing
Cols	Columns	Grid	Grids
Slab	Slabs	Comm	Communication
Data	Data/LAN system	Tvvs	Television system

Optional Four-Letter Major

This field contains building components and materials. This also provide building systems and other supporting data.

x-xxxx-**XXXX**-x

EXT.	DISCRIPTION	EXT.	DISCRIPTION
C008	Color 8 hatch pattern	Dims	Dimensions
Evtr	Elevator cars	Note	Notes
Patt	Patterns	Scrn	Screened
Spce	Space	Strs	Stairs
Symb	Symbols	Text	Text
Accs	Access	Blkh	Bulkheads
Bndy	Boundary	Uppr	Upper
C001	Color 1 (red)	C002	Color 2(yellow)
C003	Color 3(Green)	C004	Color 4(cyan)
C005	Color 5(blue)	C006	Color 6(magenta)
C007	Color 7(white)	C008	Color 8 hatch pattern\
Extr	Exterior	Fram	Frame
Intr	Interior	Levl	Level
Nplt	Non-plotting	Radi	Radiator
Edge	Edge	Expj	Expansion Joint
Fnsh	Finish	Gril	Grills
Hrail	Handrails	Mrkg	Markings
Opng	Openings	Otln	Outlines
Tptn	Toilet Partition	Shea	Shear walls
Sill	Sills	Cavi	Cavity
Head	Door/Window headers	Move	Movable
Prht	Partial Height	Curb	Curb
Msns	Motion sensors	Emer	Emergency
Circ	Circuits	Exit	Exits
Swch	Switches	Refr	Reference
Cnmb	Circuit Number	Jbox	Junction Box
Panl	Panel	Recp	Receptacles
Urac	Under-floor raceways	Xfmr	Transformers
Clhd	Ceiling Head	Pros	date/time/file name
Revs	Revision	Rdme	Read-me layer non pltg

Titl	Title	Ttlb	title block
View	Views	Tree	Trees
Ther	Thermostats	Retn	Return
Sply	Supply	Cnds	Condensate
Cntr	Centerline	Boxd	Mixing Box,Dual duct
Boxes	Mixing Box, Single Duct	Cdff	Ceiling diffuser
Dmpr	Dampers	Duct	Ducts
Exhs	Exhaust Air	Flex	Flex
Hota	Hot Air	Insu	Insulation
Ovhd	Overhead	Shad	Shadow Area
Drip	Drip irrigation tubing	Nitg	Nitrogen
Valv	Valve	Vent	Vents
Hpip	High pressure Pipe	Glas	Glass
Labv	Laboratory Vent	Labw	Laboratory Waste
Ugnd	Underground	Cair	Compressed Air

Optional One Letter Status

This layer field names can also be used in single layer field and vice versa. This field contain building systems and other supporting data. In some condition this field can be four-letter status which requires supporting data for layers.

x-xxxx-xxxx-**X**

EXT.	DISCRIPTION
1 to 9	Options or Phases 1 to 9
D	Existing to demolish
E	Existing
M	To be Moved or Relocated
N	New work

Examples

Architectural Floor Plan

These are some of the key layers and blocks of Architectural floor plans. Architectural floor plans must have these three blocks (mentioned in yellow outline):

- *Room number.*
- *Door.*
- *Window.*

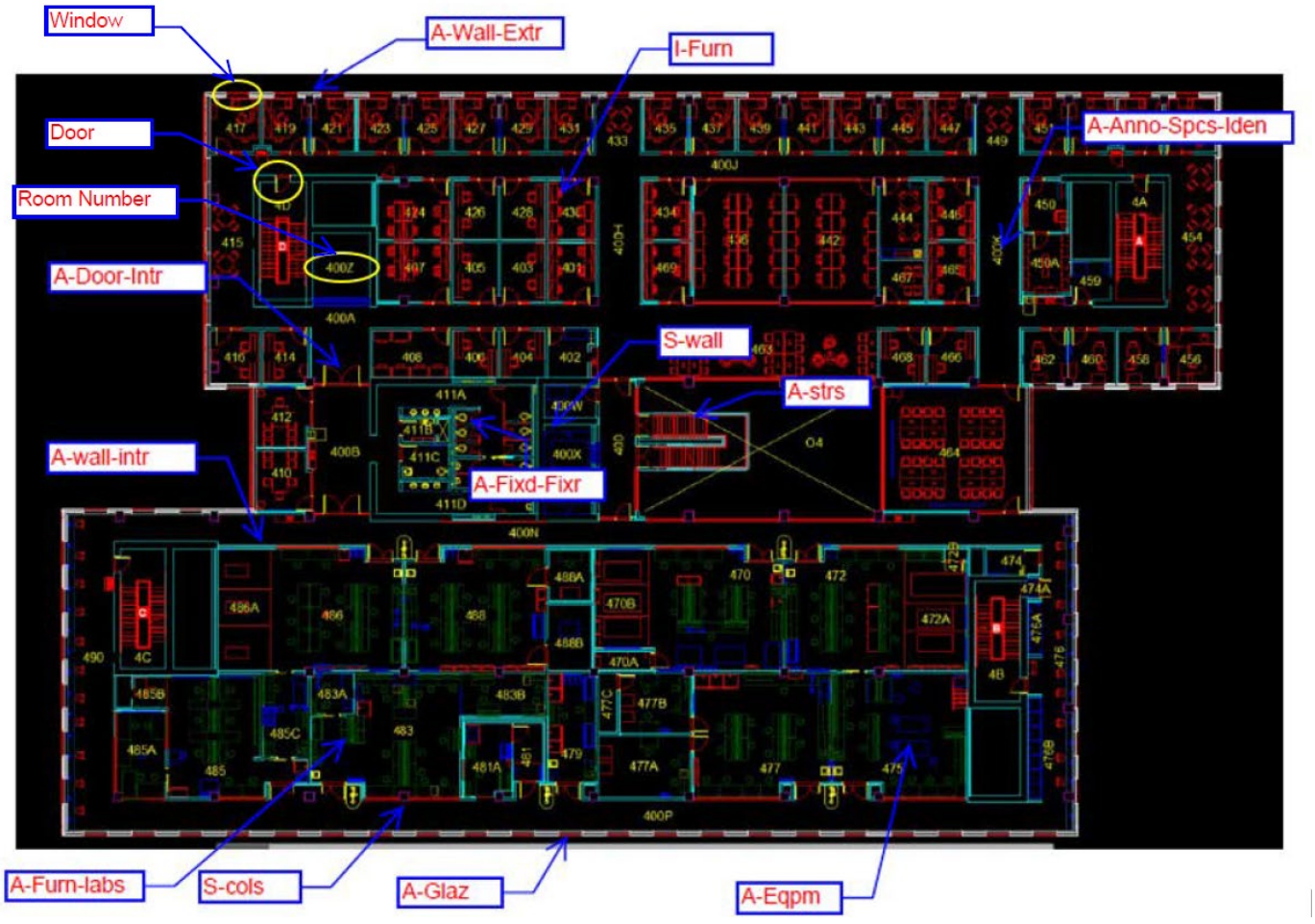

Figure 1 Layers and Blocks description

This will be the outcome of the illustrated Architectural floor plan.

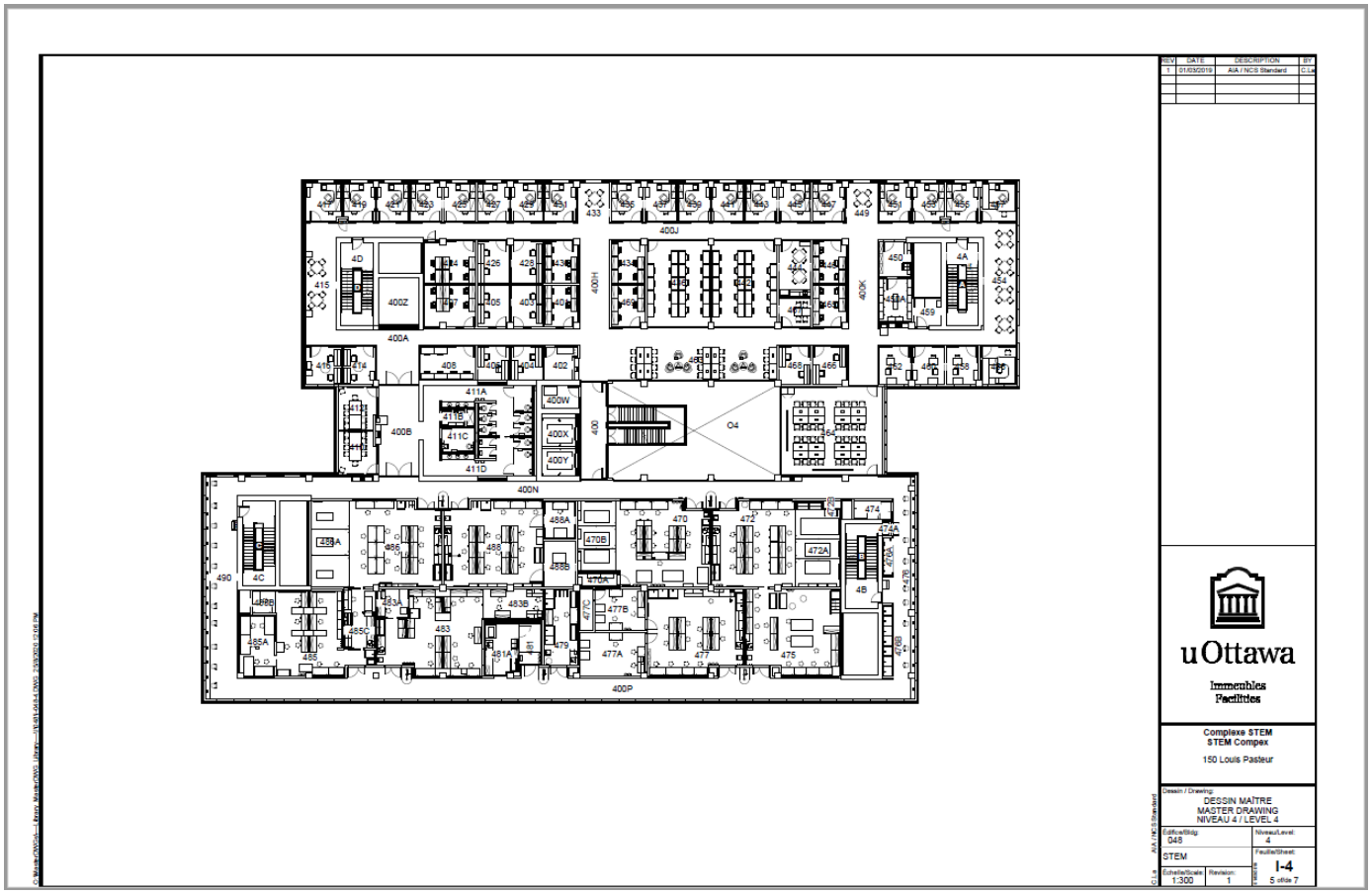

Figure 2 Final result of Architectural Floor plan

RCP (Reflected Ceiling Plan) Floor Plan

This is what the AutoCAD file should look like while working.

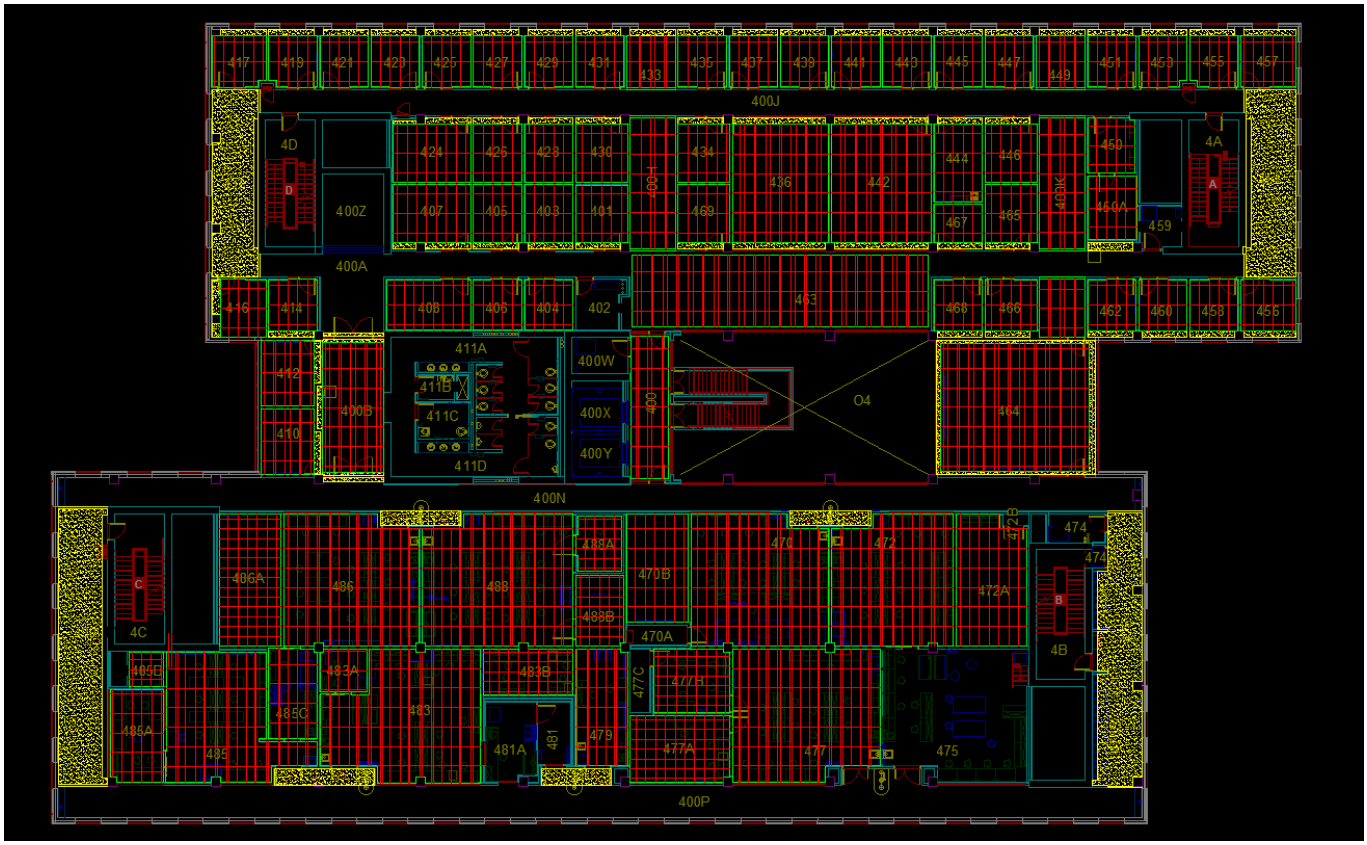

Figure 3 Working AutoCAD file of Reflected Ceiling Plan

This will be the outcome of the illustrated RCP (Reflected Ceiling plan) floor plan.

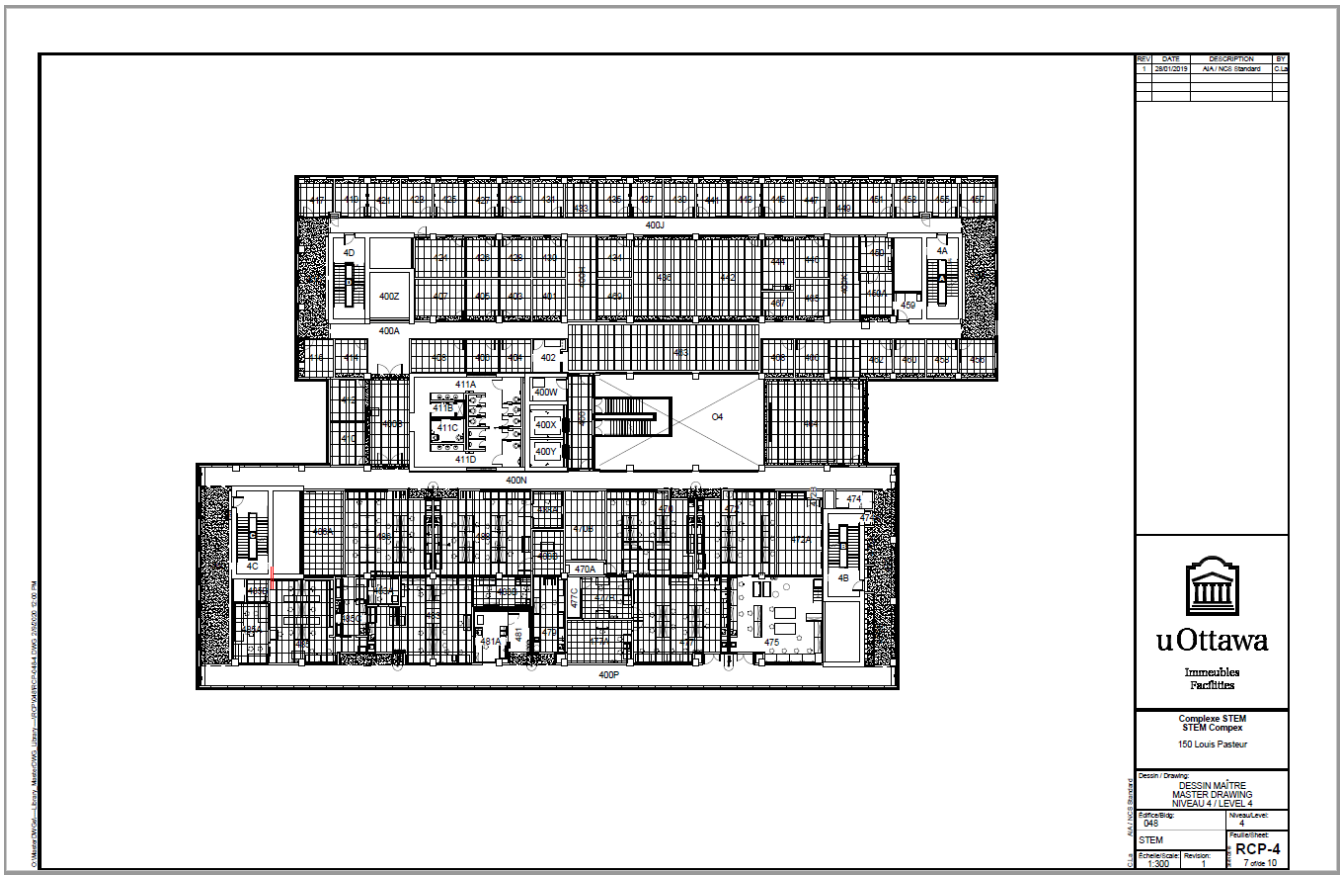

Figure 4 Final result of Reflected Celling Plan

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Glossary

“AutoCAD” shall mean CAD software developed by Autodesk Inc.

“Layers” shall mean the dividing elements for AutoCAD drawings.

“AIA” shall American institute of Architects

“Multileader” shall mean A line with an arrowhead and attached text pointing at another object.

“Title block” shall mean title block is a border drawing inserted as an AutoCAD block on another drawing. The title block utility can update attributes on the title block. It contains different types of information about project and drawing.

“UofO” shall mean University of Ottawa.

“Viewport” shall mean the window or frame within which a view of the drawing is visible. In some complex AutoCAD programs viewports are considered complex objects and can be placed in drawings. Many programs also support the use of multiple viewports which can simultaneously show different parts of the same drawing. This is especially important when working in 3D.

“Template” shall mean A drawing template file is a drawing file that has been saved with a *.dwt* file extension, and it specifies the styles, settings, and layouts in a drawing, including title blocks. The default drawing template files are provided as samples

“Attribute” shall mean Information or data about a drawing object which can be hidden or appear in the drawing as text. Often this information can be extracted from the drawing and used in a spreadsheet or other program.

“CAD” Computer-aided design and drafting.

“Units” shall mean Units of measure represented by numbers in a CAD program. Usually units are inches or feet but can be anything from millimeters to light years.