LACCD CADD STANDARDS

Revision 3.1

Prepared By:

BuildLACCD

Revised June 2, 2010

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1. Introduction

1.1. LACCD Project CADD Standards

This CADD Standard shall be used for all companies working on the LACCD project.

At various points in this manual you may see references to the National CADD Standard (NCS) or the AIA guidelines. We have endeavored to comply with those guidelines as much as was deemed practicable.

THE INSTRUCTIONS, STANDARDS AND GUIDELINES CONTAINED IN THIS LACCD CADD STANDARDS Revision 3.1 ARE FOR USE BY CONSULTANTS AND CONTRACTORS RETAINED BY THE LOS ANGELES COMMUNITY COLLEGE DISTRICT FOR LOS ANGELES COMMUNITY COLLEGE DISTRICT PROJECTS AND MAY NOT BE SUITABLE IN THIS, OR ANY MODIFIED, FORM FOR USE ON ANY OTHER PROJECTS OR FOR ANY OTHER PURPOSES AND ANY SUCH USE OR MODIFICATION IS AT THE SOLE RISK OF THE USER.

1.2. Revision History

Initial Issue – September, 2001
Revision 1 – September, 2003
Revision 2 – September, 2004
Revision 3 – June, 2009
Revision 3.1 – June. 2010

1.3. Software Guidelines

At time of publication this manual was based on the following software versions and capabilities.

AutoCAD 2007 or later
Autodesk Revit 2009 or later
Autodesk MEP 2007 or later
Autodesk Civil 3D 2007 or later
Bentley Microstation v8i

2. Drawing Requirements

2.1. General

In order to maintain consistency across projects and campuses all project teams shall utilize the LACCD templates for execution of Drawing Documentation. The templates are based upon LACCD CADD Standards to provide consistent symbols, text styles, title blocks, and annotation across projects. These templates have been developed in BIM Authoring tools for the purpose of sheet development and

extraction as part of milestone submittals. For this purpose, LACCD BIM standards shall reference these standards as noted.

2.2. Open Platform and Software Specific Requirements

While the LACCD CADD and BIM Standards have been written to accommodate various types of software. However, in some instances software specific work flow requires additional information and and requires additional explanation in this document. These sections have been italicized, prefaced, and assigned a color designation as follows:

Revit Users – *Green Text*

Autodesk MEP, Civil 3D – Blue Text

Microstation Users – *Purple Text*

2.3. Project Templates

LACCD Templates can be found on the Build-LACCD Website.

Project Templates include standard titleblocks, annotation symbols, text styles, and modeling components for use on LACCD Projects. Since the templates are be revised periodically as content becomes updated, project teams should download the latest template just prior to commencing work.

a. Campus Codes

Campus Codes (Table 1) shall be used to organize all projects by a consultant at a particular college. Folders consist of the 3 character Campus code, and shall be placed directly below the LACCD Project Directory as shown above. Campus Name can follow campus code if desired:

Campus Codes
Table 1

Campus	**CODE**
LA City College	01C
East LA College	02E
LA Harbor College	03H
LA Mission College	04M
Pierce College	05P
LA Southwest College	06S
LA Trade-Technical College	07T
LA Valley College	08V
West LA College	09W
District Wide	10D

b. Project Number

Prior to commencing work, project teams shall be assigned an LACCD Project Number by the College Project Manager. This number shall be used for organizing the project files, and should include the common name on the file name project.

- (example: Mission College CPM assigns the **East Complex** project a project number of 04M-418. Therefore project folder shall be named **04M-418 East Complex**)

c. Discipline Folders

Each discipline shall be assigned a folder corresponding to a Discipline Designator as listed in Table 2. All project files received and referenced from each discipline shall be organized in this folder. As a project progresses, the contents within these discipline folders will expand, and each deliverable should be clearly organized in its own folder.

d. BIM Folder - BIM Files shall be sorted by model files and sheet files.

Model Files - Original files from other disciplines should be linked from their discipline folder location and relative path to models. Model file names shall follow file naming convention outlined in Section 3.1 Model file Naming of this document

Sheet Files - PDF and dwg (dgn) formats of the most current sheets shall be maintained in this folder and organized with sheet file naming outlined in File Naming Section 3.2 Sheet Naming and Numbering of this document.

Revit Users - *Since Revit does not have individual sheet files, record dwg and pdf files shall be exported to the sheet folder at each project milestone or submittal*

e. Support Files - Standard items needed for the project, such as a specific pen table, unique symbols, or applications (lisp, script, etc.), logos and graphics. Project Specific Model Content can also be placed here.

f. Other Folders- Renderings, analyses, LEED, etc., will have their own folders which will be populated as the project progresses.

Discipline Designators
Table 2

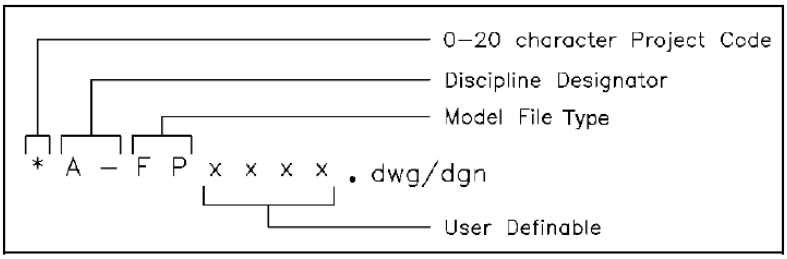
Discipline (in alphabetical order)	**Designator**
Architectural	**A**
Geotechnical	**B**
Civil	**C**
Process	**D**
Electrical	**E**
Fire Protection	**F**
General	**G**
Hazardous Materials	**H**
Interiors	**I**
Landscape	**L**
Mechanical	**M**
Facilities / Operations	**O**
Plumbing	**P**
Equipment/Specialty Design	**Q**
Structural	**S**
Telecommunication	**T**
Security	**TY**
Survey	**V**
Civil Works	**W**
Other Disciplines	**X**
Contractor/ Shop Drawings	**Z**

3. File Naming Guidelines

Two distinct types of CADD files are addressed in this standard: model files and sheet files. A **model file** contains the physical components of a building (e.g., columns, walls, windows, ductwork, piping, etc.). Model files are drawn at full scale and can be generated directly from the BIM. A **sheet file** is synonymous with a plotted CADD drawing file, and refers to a selected view or portion of referenced model file(s) within a border sheet.

NOTE: *Some BIM Authoring software, such as Revit, organize sheets within a single model file and need to be managed differently. In these instances, variations to the standard shall be noted and explained in this section.*

3.1. Model File Naming



Source –AEC CADD Standards 3.0

Project Code – This shall be the LACCD assigned project code (i.e. **04M418**)

Discipline Designator (Ref. Table 2)– Prefix corresponding to team member discipline

Model File Type – For programs such as **AutoCAD MEP** and **Bentley BIM** that require models to be created using several files, model file types listed in Table 4 shall be used. For multiple floors, assign a user defined variable corresponding to each floor.

- **Example:** "**04M418-A-FP01**" would correspond to Architect's First Floor Plan for project 04M418.

During project collaboration, coordination by floor needs to occur and be tracked by date. In this instance, Project Teams shall use similar naming convention noted above with a User Defined Variable of the date (month-date-year)

- **Example: "04M418-A-FP01-051509"**

*For **Revit** based models in which the entire model is a single file, Model File Type shall be replaced with a suffix of "bldg" for building. If there are multiple buildings, assign a letter to "bldg" and include in suffix:*

- **Example: "04M418-A-BldgA"**

Model File Types

Discipline	File Designator	Description	Notes:
AE Civil:			
	BP	Boring Plan	
	CS	Construction Staging Plan	
	DD	Storm Drain Detail	
	DF	Fencing Detail	
	DM	Miscellaneous Detail	
	DP	Demolition Plan	
	DR	Railroad Detail	
	DS	Sanitary Sewer Detail	
	DV	Paving Detail	
	DW	Water Detail	
	ET	Existing Topo	
	ET	Existing Topo Files	

	GP	Grading Plan	
	HM	Hydrology Map	
	JP	Jointing Plan	
	PC	Parcel Plan	
	PD	Storm Drain Profile	
	PF	Profile	
	PM	Miscellaneous Profile	
	PP	Plan And Profile	
	PR	Road Profile	
	PS	Sanitary Sewer Profile	
	PU	Utility Plan And Profile	
	PV	Paving Plan	
	PW	Water Profile	
	RW	Right Of Way Plan	
	SB	Building Section	
	SM	Miscellaneous Section	
	SP	Site Plan	
	SP	Site Plan	
	SR	Road Section	
	SS	Site Section	
	ST	Striping Plan	
	TP	Traffic Plan	
	UP	Utility Plan	
	UP	Utility Plan	

Discipline	**File Designator**	**Description**	**Notes:**
ARCHITECTURAL & INTERIORS:			
	AD	Area Development	Optional
	BR	Border	
	CP	Core Plan	Optional
	DP	Demolition Plan	
	DT	Detail	
	EL	Elevation	
	EP	Equipment Plan	
	FE	Fire Egress Plan	Optional
	FI	Finish And Material Plan	Optional
	FM	Mezzanine Floor Plan	
	FP	Floor Plan	
	FU	Furniture Plan	
	GN	General Notes	
	GP	Geometry Plan	
	GR	Grid Layout	
	IE	Interior Elevation	
	IS	Interior Specialties	Optional
	LA	Legend And Abbreviations	
	LP	Landscape And Paving Plan	Optional
	MP	Master Layout Plan	Optional
	PC	Power & Communication Plan	

	RC	Reflected Ceiling Plan	
	RP	Roof Plan	
	SC	Section	
	SH	Schedules	
	SP	Site Plan	
	SS	Specialty Systems	Optional
	VC	Vertical Circulation Plan	Optional
	WS	Wall Section	
	XE	Enlarged Elevation	
	XL	Enlarged Floor Plan	
	XP	Existing Plan	
	XR	Existing Reflected Ceiling	
	XS	Enlarged Section	

Discipline	**File Designator**	**Description**	**Notes:**
A/E STRUCTURAL:			
	BF	Basement Foundation Plans	
	CL	Column Plans	
	FF	Floor Framing Plan	
	FM	Mezzanine Floor Plans	
	FP	Foundation Plan	
	GD	Column Grids	
	PF	Pile Foundation Plans	
	RF	Roof Framing Plan	
	WS	Wall Sections	
	XE	Enlarged Elevation	
	XL	Enlarged Floor Plan	
	XS	Enlarged Section	

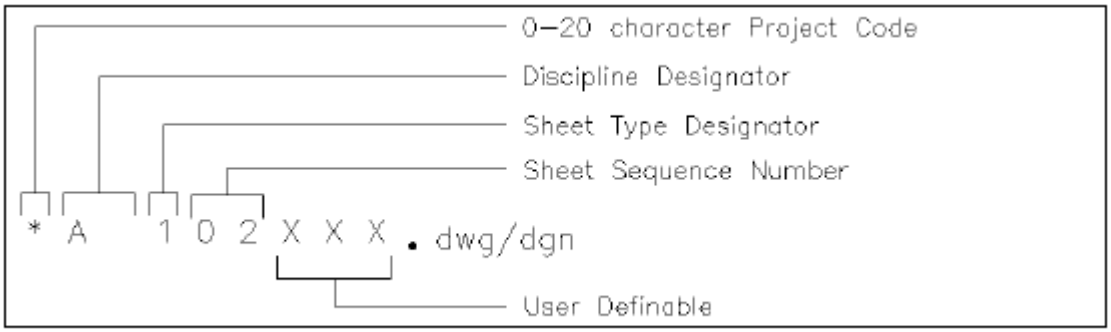
Discipline	File Designator	Description	Notes:
ELECTRICAL:			
	CE	Communication Enlarged Plan	
	CM	Communications Plan	
	CV	Cover Sheets	
	DG	Diagrams	
	DP	Demolition Plan	
	DT	Detail	
	EL	Elevation	
	FA	Fire Alarm Plan	
	FD	Feeder Plan	
	FE	Fire Alarm Enlarged Plan	
	GR	Grounding Plan	
	KP	Key Plans	
	LA	Legend And Abbreviations	
	LE	Lighting Enlarged Plan	
	LP	Lightning Protection Plan	
	LT	Lighting Plan	
	PA	Public Address Plan	
	PE	Power Enlarged Plan	
	PW	Power Distribution Plan	
	QP	Equipment Plan	
	SC	Section	
	SH	Schedules	
	SS	Special Systems Plan	
	UG	Underground Plan	
	XP	Existing Plan	

Discipline	File Designator	Description	Notes:
SECURITY:			
	AC	Access Control Plan	
	CV	Cover Sheets	
	DG	Diagrams	
	DP	Demolition Plan	
	DT	Detail	
	EL	Elevation	
	KP	Key Plans	
	LA	Legend And Abbreviations	
	QP	Equipment Plan	
	SC	Section	
	SH	Schedules	
	TD	Telephone/Data Plan	
	TV	Closed Circuit Tv Plan	
	XP	Existing Plan	

Discipline	File Designator	Description	Notes:
PLUMBING:			
	CV	Cover Sheets	
	DG	Diagrams	
	DP	Demolition Plan	
	DT	Detail	
	EL	Elevation	
	KP	Key Plans	
	LA	Legend And Abbreviations	
	PL	Plumbing Plan	
	PP	Process Piping Plan	
	QP	Equipment Plan	
	SC	Section	
	SH	Schedules	
	XP	Existing Plan	

Discipline	File Designator	Description	Notes:
MECHANICAL:			
	CV	Cover Sheets	
	DG	Diagrams	
	DP	Demolition Plan	
	DT	Detail	
	EL	Elevation	
	FP	Fire Protection Plan	
	HP	HVAC Piping Plan	
	HV	HVAC Plan	
	KP	Key Plans	
	LA	Legend And Abbreviations	
	QP	Equipment Plan	
	SC	Section	
	SH	Schedules	
	XP	Existing Plan	

3.2. Sheet Files and Sheet Naming and Numbering



Discipline Designators shall follow same convention as Model File Naming except that no hyphen after the discipline designator shall be used.

Sheet Type Designator Sequence reflect the sequential order for major groupings of sheet types as defined byTable 3. For floor plans, sheet numbers shall coincide with the corresponding level. **(i.e. 01 – first floor to 09 – 9th floor, for basement levels, use "B"suffix,)**

Examples:

A201.dwg *(A201)* = Architectural First Floor Plan, Sheet A201
A201b.dwg *(A201b)* = Architectural Basement Level 1, A201b
C412.dwg = *(C412)* = Civil Construction Phasing – Second Sheet C412
S203.dwg *(S203)* = Structural Framing Plan – Third Floor, Sheet S203
M401.dwg *(M401)* = Mechanical HVAC Air Flow Diagram, Sheet M401
E113.dwg *(E113)* = Electrical Single Line Diagram – Third Sheet E113

- Project Team does not need to include project code for sheet files. However, if Project Team elects to do so, naming needs to be consistent and include project code across all trades.

AutoCAD MEP (Microstation) – Each sheet shall have its own file, and its own layout in Paper Space (Sheet Models)

Discipline Designator by Sheet Set Order Table 3	
Discipline (in order of sheet sequence)	**Designator**
General	**G**
Hazardous Materials	**H**
Survey	**V**
Geotechnical	**B**
Civil Works	**W**
Civil	**C**
Landscape	**L**
Architectural	**A**
Interiors	**I**
Equipment/Specialty Design	**Q**
Structural	**S**
Mechanical	**M**
Electrical	**E**
Plumbing	**P**
Fire Protection	**F**
Telecommunication	**T**
Security	**TY**
Process	**D**
Other Disciplines	**X**
Contractor/ Shop Drawings	**Z**
Facilities / Operations	**O**

Sheet Type and Sequencing

General			
Discipline Designator	**Sheet Type Designator**	**Sheet Sequence Number**	**Description**
G	0	01	Cover Sheet
G	0	02	Drawing Index, Vicinity Map, Symbols and Abbreviations
G	0	03	General Notes
G	0	04	Title 24 Accessiblity Requirements
G	0	05	Energy Compliance Data
G	0	06	Code Analysis

Civil			
Discipline Designator	Sheet Type Designator	Sheet Sequence Number	Description
General			
C	0	01	Legend and Abbeviations
Demolition and Borings			
C	1	02	General Notes
C	1	03	Existing Topo Survey
C	1	01	Demolition Plan
C	1	02	Boring Plan
Plans			
C	2	00	Overall Plan
C	2	01	Site Plan
C	2	11	Striping Plan
C	2	21	Traffic Plan
C	2	31	R/W Plan
Hydrology			
C	3	00	Overall Plan
C	3	01	Grading Plan
C	3	02	Hydrology Map
C	3	03	Erosion and Sedimentation Plan
Utilities			
C	4	00	Overall Utility Plan
C	4	01	Site Utility Plan
C	4	11	Construction Staging
Sitework			
C	5	01	Jointing Plan
C	5	11	Parcel Plan
Plan and Profile			
C	6	01	Plan and Profile
C	6	11	Utility Plan and Profile
Cross Sections			
C	7	01	Cross Section - Misc
C	7	11	Cross Section - Bldg
C	7	21	Cross Section - Road
C	7	31	Cross Section - Site
Profiles			
C	8	01	Profile - Misc
C	8	11	Profile - Road
C	8	21	Profile - Storm Drain
C	8	31	Profile - Sanitary Sewer
C	8	41	Profile - Water
Details			
C	9	01	Details
C	9	02	Details
C	9	03	Details

Architectural			
Discipline Designator	Sheet Type Designator	Sheet Sequence Number	Description
General			
A	0	01	Symbols and Abbreviations
A	0	02	General Notes
Site and Reference Plans			
A	1	01	Existing Plan
A	1	11	Site Plan
A	1	21	Demolition Plan
A	1	31	Life Safety / Exiting Plans
A	1	41	Geometry Plans
A	1	51	Temporary Work
A	1	61	Phasing Plans
Plans			
A	2	00	Overall Plan
A	2	01	Floor Plans
A	2	11	Reflected Ceiling Plans
A	2	21	Furniture Plans
A	2	31	Equipment Layout
A	2	41	Finishes Plans
Exterior Elevations and Building Sections			
A	3	01	Building Elevations
A	3	11	Building Sections
Wall Sections and Details			
A	4	01	Wall Sections
A	4	11	Wall Details
A	4	01	Enlarged Plans
Enlarged Plans and Interior Elevations			
A	5	11	Interior Elevations
A	5	21	Restroom Toilet Plans
A	5	31	Toilet Accessories
A	5	41	ADA Requirements and Detials
Vertical Circulation			
A	6	01	Sections
A	6	11	Details
A	6	21	Enlarged Stair Plans
A	6	31	Enlarged Elevator Plans
A	6	41	Enlarged Ramp Plans

Architectural (cont.)

Schedules			
A	7	01	Door
A	7	11	Window
A	7	21	Louver
A	7	31	Finishes
A	7	41	Partition Types
A	7	51	Casework
A	7	61	Materials
Details			
A	8	01	Details - Exterior
A	8	11	Details - Interior
A	8	21	Details - Casework
A	8	31	Details - Misc
Miscellaneous			
A	9	01	Signage Plans
A	9	11	Signage Schedules
A	9	21	Signage Details

Structural			
Discipline Designator	Sheet Type Designator	Sheet Sequence Number	Description
General			
S	0	01	Legend and Abbreviations
S	0	02	General Notes
Typical Details and Demolition			
S	1	01	Typical Details
S	1	11	Demolition Plans
S	1	21	Geometry Plans
Plans			
S	2	00	Foundation Plans
S	2	01	Framing Plans
Elevations			
S	3	01	Framing Elevations
S	3	11	Wall Elevations
S	**3**	21	Elevator Plans and Sections
S	**3**	31	Escalator Plans and Sections
Sections			
S	4	01	Building Sections
S	4	11	Wall Sections
S	4	01	Partial Building Sections
Schedules			
S	5	01	Footings
S	5	11	Columns
S	5	21	Beams
S	5	31	Shear Walls
S	5	41	Misc
Details			
S	6	01	Details
S	6	11	Details

Mechanical			
Discipline Designator	Sheet Type Designator	Sheet Sequence Number	Description
General			
M	0	01	Legend and Abbreviations
M	0	02	General Notes
Site and Reference Plans			
M	1	01	HVAC Site Plans
M	1	11	Demolition Plan
Plans			
M	2	01	HVAC Floor Plans
Enlarged Plans and Sections			
M	3	01	Mechanical Room Plans
M	3	11	HVAC Sections
Diagrams and Risers			
M	4	01	Air Flow Diagram
M	4	11	Water Flow Diagram
Schedules			
M	5	11	Equipment Schedules
M	5	21	Equipment Schedules
M	5	31	Equipment Schedules
Controls			
M	6	01	Control Diagram
M	6	11	Control I/O Summary
M	6	21	Sequence of Operations
Details			
M	7	01	Details
M	7	11	Details

Electrical			
Discipline Designator	Sheet Type Designator	Sheet Sequence Number	Description
General			
E	0	01	Legend and Abbreviations
E	0	02	General Notes
Site Plans and Diagrams			
E	1	01	Electrical Site plan
E	1	11	Power Plans
E	1	21	Lighting Plans
E	1	31	Communication Plans
E	1	41	Single Line Diagram
E	1	51	Fire Alarm Diagram
Plans			
E	2	11	Demolition Power Plans
E	2	21	Demolition Lighting Plans
E	2	31	Power Plans
E	2	41	Lighting Plans
E	2	51	Communications Layout
E	2	61	Security Plans
E	2	71	Fire Alarm Plans
E	2	81	Lightning Protection Plan
Enlarged Plans			
E	3	01	Electrical Room Plans
E	3	11	Enlarged Plans
Schedules			
E	4	01	Equipment Schedules
E	4	11	Panel Schedules
E	4	21	Light Fixture / Feeder Schedules
Enlarged Plans and Interior Elevations			
E	5	11	Details

Plumbing			
Discipline Designator	Sheet Type Designator	Sheet Sequence Number	Description
General			
P	0	01	Legend and Abbreviations
P	0	02	General Notes
Site and Reference Plans			
P	1	01	Plumbing Site Plan
P	1	21	Demolition Plan
Plans			
P	**2**	01	Plumbing Floor Plans
Enlarged Plans			
P	**3**	11	Toliet Plans
P	3	21	Enlarged Mechanical Plans
P	3	31	Enlarged Misc Plans
Diagrams and Risers			
P	4	01	Sections
P	4	11	Details
P	4	21	Enlarged Stair Plans
P	4	31	Enlarged Elevator Plans
P	4	41	Enlarged Ramp Plans
Schedules			
P	5	01	Plumbing Fixture Schedules
Details			
P	**6**	01	Details - Exterior
P	6	11	Details - Interior
P	6	21	Details - Misc

Landscape			
Discipline Designator	Sheet Type Designator	Sheet Sequence Number	Description
General			
L	0	01	Symbols and Abbreviations
L	0	02	General Notes
Site and Reference Plans			
L	1	01	Existing Plan
L	1	11	Overall Landscape Site Plan
L	1	21	Demolition Plan
L	1	31	Phasing Plans
Plans			
L	2	00	Overall Plan
L	2	01	Site Paving and Furniture Plans
L	2	11	Planting Plans
L	2	21	Irrigation Plans
Planting Elevations and Sections			
L	3	01	Site Landscape Elevations
L	3	11	Site Landscape Sections
Enlarged Plans and Interior Elevations			
L	4	01	Enlarged Site Paving
L	4	11	Enlarged Planting Plans
L	4	01	Enlarged Irrigation
Schedules			
L	5	01	Site Furnishings Schedule
L	5	11	Planting Schedule
L	5	21	Irrigation Schedule
Details			
L	6	01	Paving Details
L	6	11	Planting Details
L	6	21	Irrigation Details

Other Disciplines		
* (reference Discipline Designator Table)		
Discipline Designator	Sheet Type Designator	Description
	0	General (Symbols, Legends, Abbreviations, etc.)
	1	Plans (horizontal views)
	2	Elevations (vertical views)
	3	Sections
	4	Enlarged Views
	5	Details
	6	Schedules and Diagrams
	7	User Defined
	8	User Defined
	9	User Defined

4. Border and Title Block

Sheet Sizes

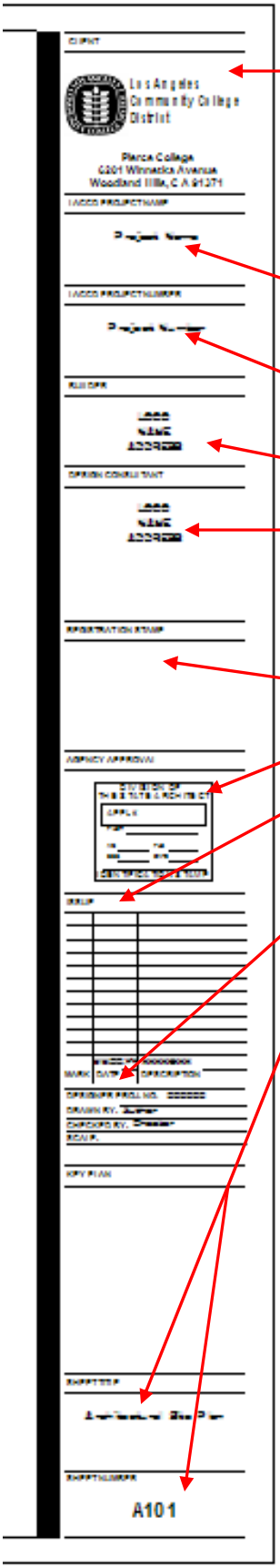
Below is a list of the approved sheet sizes:

Sheet Sizes	Imperial (inches)
D1 (ANSI)	22 x 34 (City of LA Requirements)
E1 (Arch.)	30 x 42 (standard)
E (Arch)	36 x 48 (pre-approval required)

The standard sheet size will be 30” x 42”, and shall be included in the LACCD project templates. If it is determined by the project team that 30 x 42” sheet size is not adequate to meet the building configuration, a 36 x 48 sheet size may be used, but shall require pre-approval by the Program Manager (Build LACCD). 22 x 34 size sheets shall only be as required by City of Los Angeles Department of Public Works.

4.1 Title Block Information

Standard Title Blocks shall be located on the right hand column of the sheet. They will include the following:



CLIENT INFORMATION - This includes LACCD Logo, Campus Name, and Address.

Revit Users *- Project Template has a titleblock with each campus address pre-loaded. To select the appropriate title block, go to any* ***sheet view****, and click on the title block. At the "Type Selector", select the appropriate campus, and assign the template to all sheets. The extra sheet templates can then be purged.*

LACCD PROJECT NAME – This is the common project name agreed upon by the CPM and Project Team (i.e. East Complex)

LACCD PROJECT NUMBER – This is the same project number assigned by the CPM, and utilized for folder structure (i.e. 04M-418)

BUILDER– This is Name and Address for General Contractor (Builder)

DESIGN CONSULTANT – This is the Name and Address of Design Consultant executing the drawings on this sheet.

Note: *Company logos for project team using text shall be converted to line work so that additional fonts do not need to be included in the title sheet upon export.*

REGISTRATION STAMP – Stamp of the Engineer or Architect of Record

AGENCY APPROVAL – Department of the State Architect (DSA) Approval Stamp

ISSUE BLOCK - Area for revision Listing. For milestone submittals, teams must include Date and Description. For revision during construction issued as part of a Bulletin or Request for Information, Revision deltas shall be included

The **key plan** will be located in a space above the Sheet Information

SHEET INFORMATION – Sheet number corresponds to name of sheet view or file. Sheet Name corresponds to view name(s) referenced on this sheet

North arrow and scale(s) will be placed in the lower right hand area of the drawing area just left of the Sheet number.

Sheet Margins - The right margin must be of a ½" width to accept the use of embossed stamp. Top and Bottom to be ½". Left side margin to be 1.5".

Additional Title Block Items for AutoCAD / Microstation Users:
-When referenced, the insert point for the titleblock/border file is 0,0,0 in Paper Space.
-Titleblock text entities will be placed on the G-ANNO layer.
-Typical layers for the titleblock will be G-TTLB, and G-ANNO,
-Matchlines will be placed in model files (Design Models), so other disciplines can reference the same matchlines.

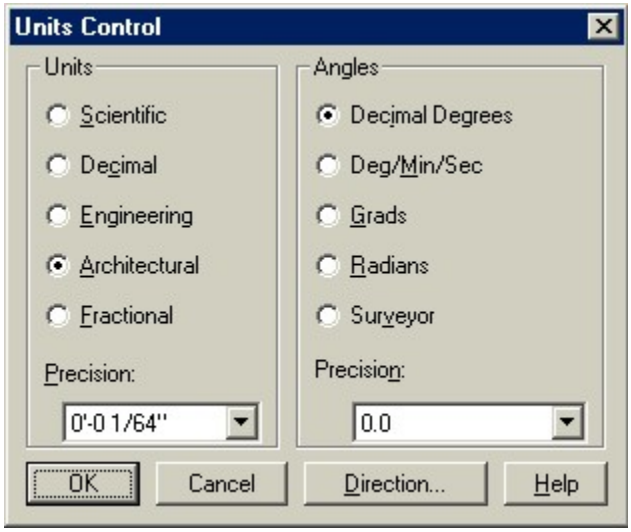
– Revision 3.1

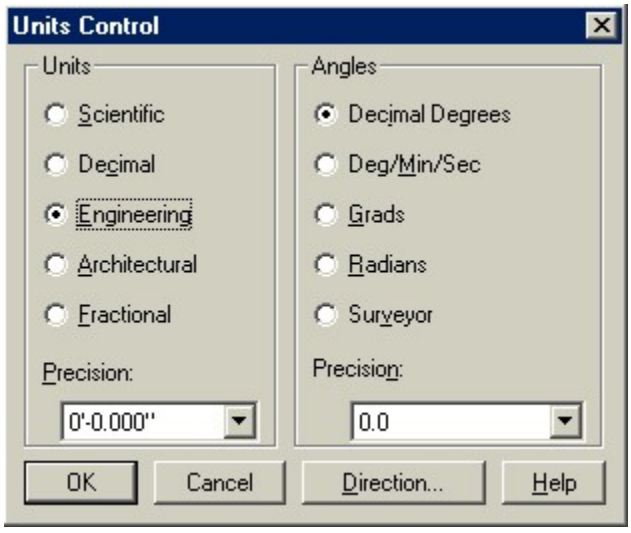
5. Standard Units

5.1. Model Precision

All files must comply with the following units

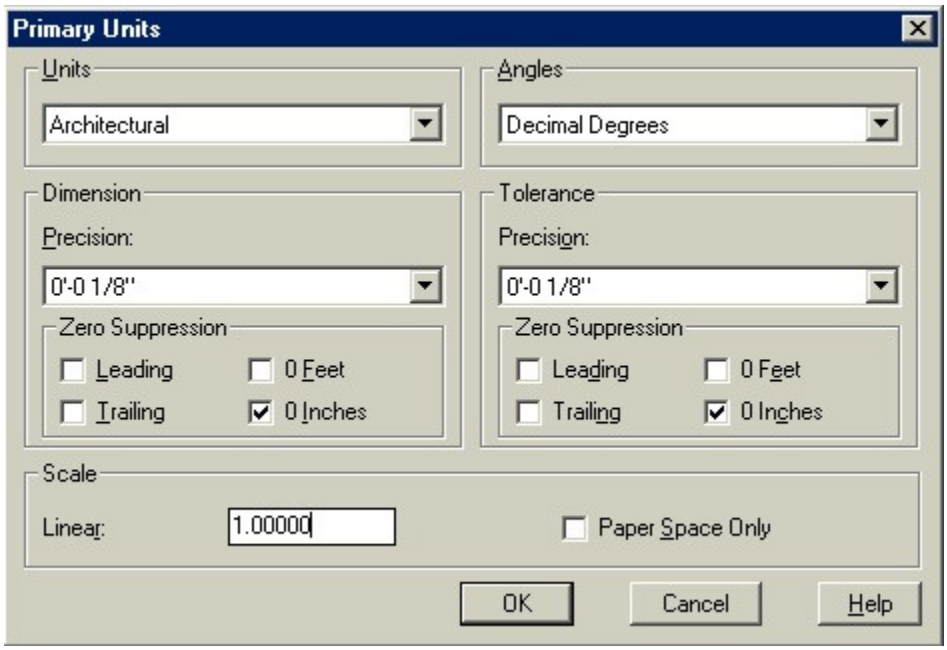
Architectural & Engineering Standard Units:



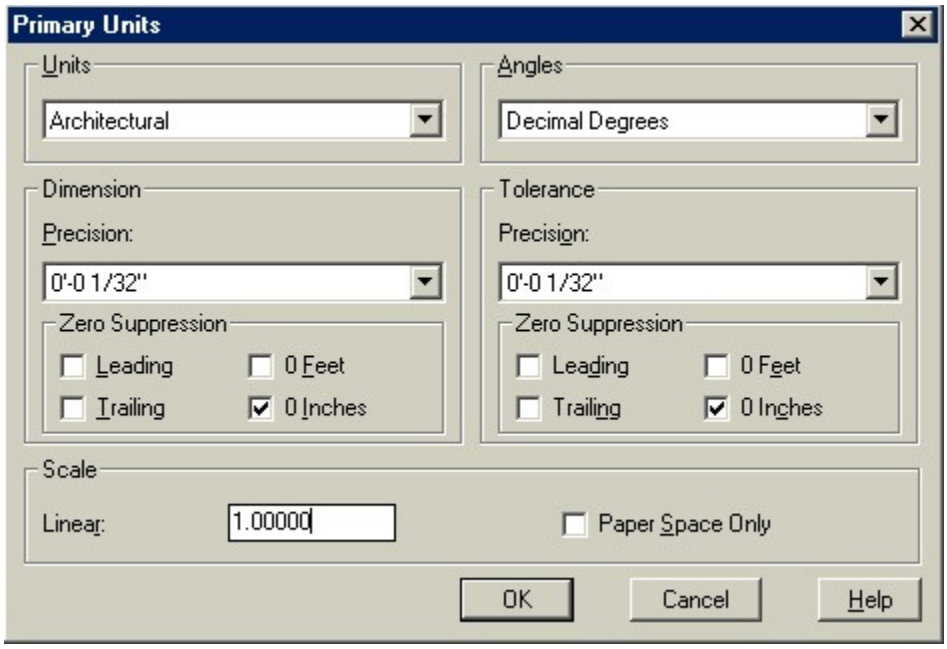


5.2. Sheet Precision

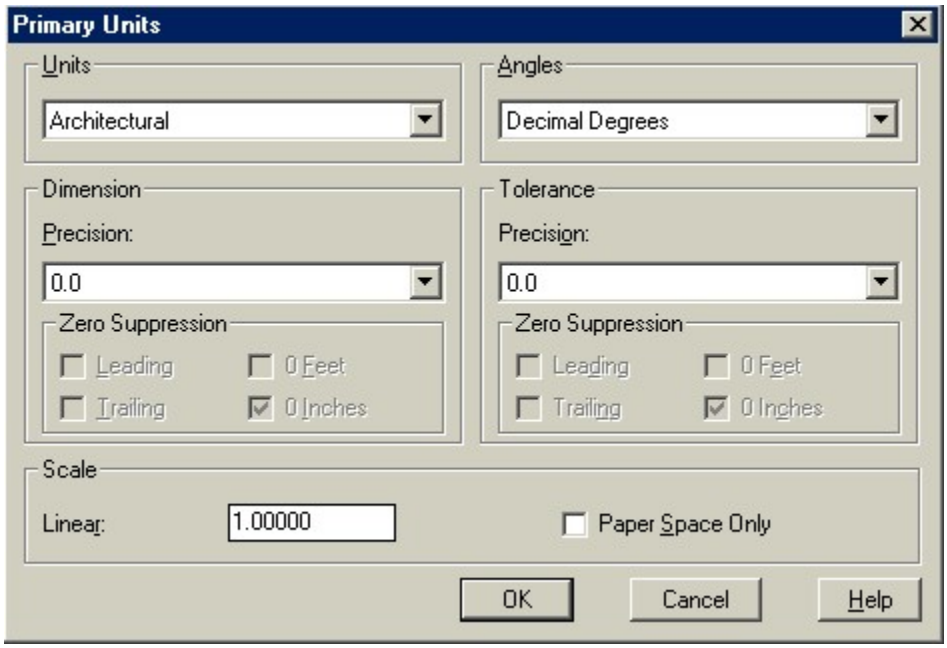
Dimensional Precision for Plans, Sections, and Elevation Sheets
Scale of drawing: 1/8” – 1/2” = 1’-0”



Dimensional Precision for Details, Casework, and other large scale drawings
Scale of drawing: 1 1/2” - 3” = 1’-0”



Dimensional Precision for all angles



6. LTSCALE Settings

LTSCALE will always be set to 1 (one) in Paper Space. This ensures that all AutoCAD linetypes will display the same on all drawings. Model Space *LTSCALE* may be changed to reproduce the look of Paper Space plots. LTSCALE in Model Space is equal to the "Dimscale". Linetype definitions are outlined in the Layer List in the Appendix of this document. Most linetypes will be used in the "half" mode (DASHED2, PHANTOM2, HIDDEN2, etc.) A complete Acad.lin file is included with the project templates.

For example:

Model Space LTSCALE for Architectural Units	
Drawing Plot Scale	LTSCALE
Full Size	1
3" = 1'-0"	4
1 1/2" = 1'-0"	8
1" = 1'-0"	12
3/4" = 1'-0"	16
1/2" = 1'-0"	24
3/8" = 1'-0"	32
1/4" = 1'-0"	48
3/16" = 1'-0"	64
1/8" = 1'-0"	96
3/32" = 1'-0"	128
1/16" = 1'-0"	192
1/32" = 1'-0"	384

Model Space LTSCALE for Decimal Units	
1" = 10'	10
1" = 20'	20
1" = 40'	40
1" = 50'	50
1" = 100'	100
1" = 200'	200
1" = 400'	400
1" = 500'	500

PSLTSCALE shall be enabled (PSLTSCALE=1)

Note:
LTSCALE will always be set to 1 (one) in Paper Space. Model space LTSCALE is changed to reproduce the look of Paper Space plots.

Please refer to the Standard Layer List in the Appendix of this document for proper Linetypes.

7. Model Files / XREFS

Autodesk MEP / Civil 3D / Microstation Users:

Whenever possible, reference files will be placed using the OVERLAY method to minimize the impact of circular reference on your files. When an X-ref must be nested, the use of an "Attach" x-ref is acceptable.

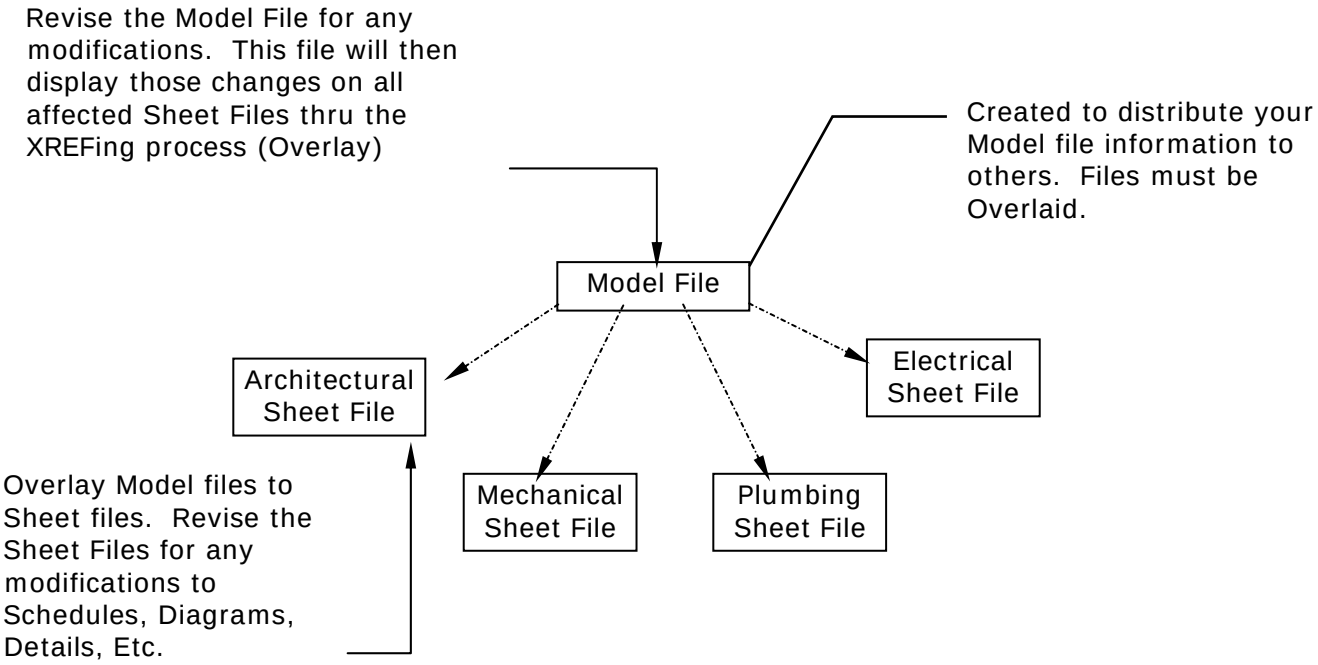
Image files (png, gif, tif, bmp) must be placed in the folder of the files to which they are referenced. Unless otherwise noted, Image files shall be attached to Sheet files in the Sheet folder.

Reference files shall be added on a specific layer and the prefix for that layer shall be "$xref-filename". Also, "$nref-" shall be used when attaching nested reference files to model files. One level of nesting is approved.

Reference files will be added to all drawings using relative paths. Relative paths do not include the drive letter and reflect the location of the reference file as it relates to the file you are on.

No hard coded paths will be allowed.

Example:
Hard Coded: Q:/LACCD/04M/04M-418/BIM/MODEL/04M-418A-FP01.dwg
Relative: ../MODEL/XAFP01.dwg



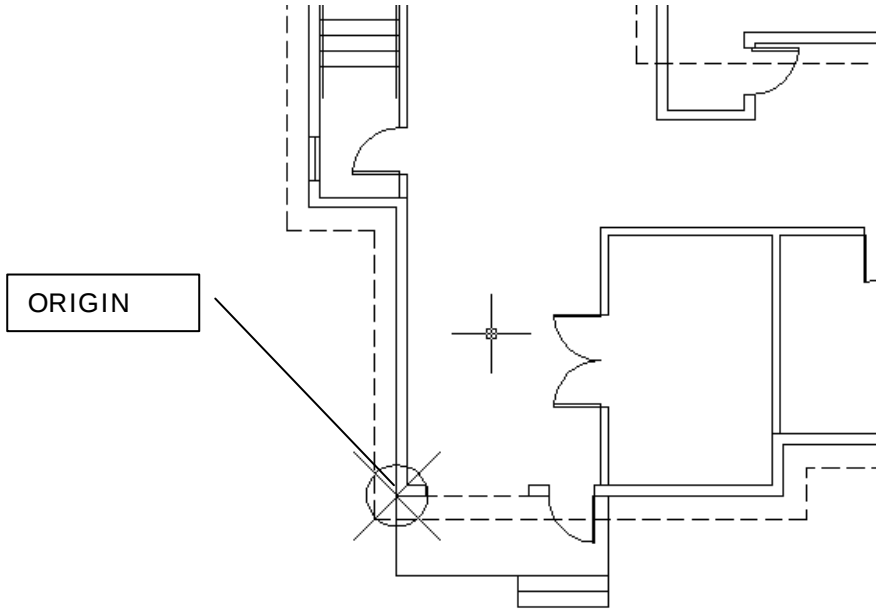
AutoCAD Users: ***A lsp routine called "XRP" may help to achieve relative paths. It has been included in the Standard Template for your use.***

8. Setting the Origin

At the beginning of a project, a reference origin must be established by the project team and tied to the nearest campus monument. In most instances, the lower left corner of a building will be set to the origin (0,0,0) and shall reference the designated monument. ***(The Permanent control monument is set to the State Plane Coordinate System, Zone 5 NAD 84, and NAVD 88.)***

Once the location of the building has been tied to campus monument and verified in the civil site plan, the location of the building in the architectural model shall take precedence over all other trades, and the defined origin shall not be moved. In then event that the lower left corner of the building changes location or shape, reference lines (or planes) should be drawn and noted at the original project origin to maintain a visual recognition of this origin.

Example:



AutoCAD MEP, Civil 3D Users:

The AutoCAD system Variable "Base" must be set to 0,0,0

All Xrefs shall be Overlayed at 0,0,0 in Model Space

In general, all model xrefs files, except for the border file, shall be attached in model space.

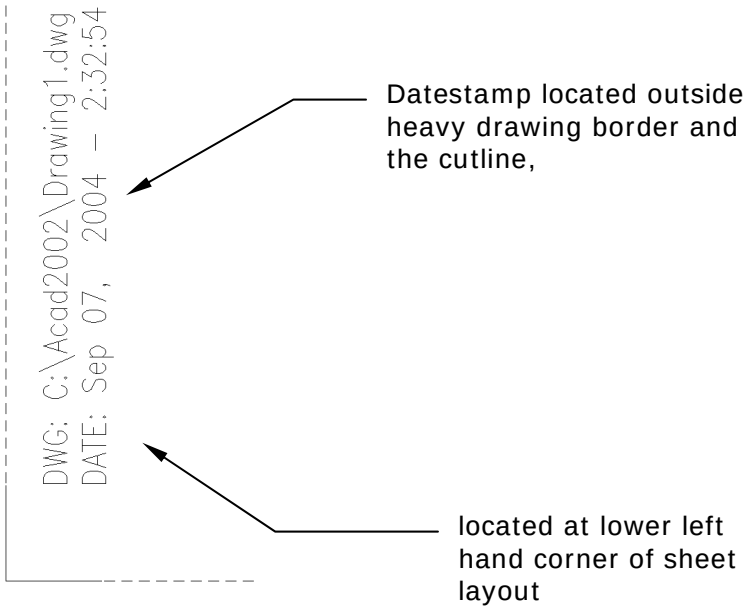
"Ucsicon" to be set to the "ON" setting.

9. Date Stamping

Standard sheet borders include a date stamp at the left hand margin, and at a minimum, shall track the following information:

Date/Time of plotted sheet
Sheet File Name
Username

AutoCAD / Microstation Users: *The layer for the datestamp is G-TTLB-DATE.*



10. Revision Tracking

Clouds will be drawn to encompass the area of the revised work. The clouds shall be drawn with the annotation tools provided by Authoring Tool.

Each revision will be identified by means of a revision indicator symbol rendered with an annotation triangle or delta with a number attribute identifying the revision in consecutive manner. The revision indicator symbol shall be provided. The revision symbol shall be placed touching the cloud, inside the cloud or next to the cloud and connected to it by means of a small leader or arc.

The format for the revision note shall be a revision symbol with the number of the revision, a numerical date of issue and a brief descriptive note of the revised work.

As revisions are superseded, the old revision clouds shall be rendered invisible by freezing the layer(s) they are drawn in. All revision symbols (triangles) shall remain visible as a permanent historical record of revised work in the sheet.

Additional Info for AutoCAD / Microstation Users

All revision symbols and clouds shall be drawn in Paper Space in the sheet (plotting) file. No revision symbols or clouds shall be drawn in the working files or in Model Space.

Each revision cloud will be drawn on an individual layer. There will be a layer for each revision issued. The layer name for the cloud shall be G-ANNO-REVC-C#, where # stands for the corresponding revision number as listed in the Issue Block.

Each revision symbol will be drawn in its corresponding layer. There will be a layer for each revision issued. The layer name for the revision symbol shall be G-ANNO-REVS-S#, where # stands for the corresponding revision number as listed in the Issue Block.

The revision note that is placed in the Issue Block shall be drawn in a separate layer. The proposed layer name for the revision text shall be G-ANNO-TTLB. All revision notes in the Issue Block shall be drawn in this layer.

11. Layer Naming Guidelines

The NCS & AIA CADD Layer Guidelines are to be used on all projects as they apply. The Appendix of this Manual has layer names defined more specifically to each discipline.

The base nine colors (i.e. 1-9) should be used for each discipline's base layer names. (ex. 'A-wall' would be color 3 if a 0.020" weight were used) other colors can be used as the disciplines define their layers.

The format of layer names must follow the one-four-four-four standard; no layer name can exceed this convention. The preferred method is to use just one character for the discipline designator.

The last character in the layer name, called the status field, will be modified to allow for scale factor designations in the layer name (i.e. ¼" will be 0048, ½" will be 0024; ex. A-anno-text-0048 is a ¼" text layer). This field code will be used for all scale-specific layer names.

Specific layer names will define settings for weight, color, and line type. Line type will be defined only ByLayer.

***Revit Users** – While Revit does not use a layering standard for its work environment, LACCD does require some deliverables and file exchanges to be in an interoperable format such as dwg or dgn. When exporting to these file*

types, Model users shall Export to CADD Formats using the Export Lineweight files provided by LACCD in their standard template.

For Plan views, use the file named "exportlineweights-LACCD_PLAN.txt" as your standards setting

For Sections, Elevations, and Details, use the file named "exportlineweights-LACCD_SEC-ELEV-DET.txt"

NOTE: With Revit's current technology, a copy of this file will need to be placed on each Revit user's workstation. In standard installations, the location for these types of standard files shall be:

C:\Program Files\Revit Architecture 2009\Data

11.1 Creating Additional Layers

The creation of additional layers must be approved by BUILD LACCD prior to use. All layers created must follow the same concept utilized for the existing layers. A list of approved layers can be found in the appendix. The 1-4-4-4-1 format shown in the AIA guideline shall be followed.

A	-	W	A	L	L	-	F	U	L	L	-	D	E	M	O	-	M

- The **first place** is a **Discipline Designator** letter. By default it is **one character** long. Two characters may be used if the designator calls for it. **When creating new Layer Names – please refer to the Basic Discipline Designators.**

- The **second place** is the **Major Group**. It is **four characters** long preceded by a dash. No more – no less. It identifies the major building systems and components.

- The **third and fourth** place is a **Minor Group** field modifier preceded by a dash. You may use one or both of these fields at your discretion when creating a new layer name. This field delineates further the Major Group. Both fields are also **four characters** long.

  These modifiers may also be directly tied to the standard pen table. The modifier shall begin with the letters LW (for Line Weight) or SC (for Screened) and end with two digits designating the color associated with the desired plotted pen weight or the percentage of screening. The color designators shall be 01 thorough 09 to encompass the first nine colors of the AutoCAD palette of colors. An example of this modifier is LW01 to designate a plotted line weight determined by Color 1 (Red).

- The **fifth place** is a **Modifier** used to describe the **Status Field Code** as it relates to the items on that layer.

Status Field Codes	
P	Proposed Work
E	Existing to Remain
D	Existing to be demolished
F	Future Work
T	Temporary Work
M	Items to be Moved
X	Not in Contract
1-9	Phase Number

12. Pen Table

For software applications that utilize layering systems, refer to the Appendix for the Layer Name Tables that detail the specific colors and linetypes assigned to each layer.

For CADD based applications, full size drawings shall use the plot style "**LACCD_R3"**, outlined below for reference and included with the Standard Templates available on the website. Half size sheets and smaller should use the plot style **"LACCD_R3-half"**

Revit Users *– Lineweights have been created in the project template to match these line widths with regard to plotting consistency as much as possible. In Revit, lineweights scale automatically depending on the view scale, the line widths from this table may vary slightly. When importing CADD files for reference,* ***Import Lineweight*** *settings should be imported using the settings called* ***"importlineweights-dwg-LACCD.txt".*** *This file can be found in the LACCD Project Template, and should be placed in the following location on each Revit User's workstation prior to importing files:*

C:\Program Files\Revit Architecture 2009\Data

Line Width (in inches)	Pen Width	Color number	Exceptions	Shading Percentage	BASE COLOR
0.007"	.18mm	xx0 (ex. 10, 20, 30, 40, 190)		black	
0.010"	.25mm	xx1 (ex. 1, 21, 31, 41,181)	add '# 7' White	black	RED / WHITE
0.014"	.35mm	xx2 (ex. 2, 22, 32, 42, 192)		black	YELLOW
0.020"	.50mm	xx3 (ex. 3, 23, 33, 43, 193)		black	GREEN
0.028"	.70mm	xx4 (ex. 4, 24, 34, 44, 194)		black	CYAN
0.039"	1.00mm	xx5 (ex. 15, 25, 35, 45, 195)		black	BLUE
0.004"	.10mm	xx6 (ex. 6, 26, 36, 46, 196)	add '# 9' Lt. Gray	black	MAGENTA / LT. GRAY
0.028"	.70mm	xx7 (ex. 17, 27, 37, 47, 197)	except '# 7' White	**35%**	
0.014"	.35mm	xx8 (ex. 8, 28, 38 ,48, 198)		**50%**	GRAY
0.024"	.60mm	xx9 (ex. 19, 29, 39, 49, 199)	except '# 9' Lt. Gray	black	

SHADING	Pen Width	15%	30%	50%	70%	85%
0.007"	.18mm	240	230	220	210	200
0.010"	.25mm	241	231	221	211	201
0.014"	.35mm	242	232	222	212	202
0.020"	.50mm	243	233	223	213	203
0.028"	.70mm	244	234	224	214	204
0.039"	1.00mm	245	235	225	215	205
0.004"	.10mm	246	236	226	216	206
0.028"	.70mm	247	237	227	217	207
0.014"	.35mm	248	238	228	218	208
0.024"	.60mm	249	239	229	219	209

0.010"	.25mm	250	**85%**
0.014"	.35mm	251	**70%**
0.020"	.50mm	252	**50%**

0.028"	.70mm	253	**30%**
0.039"	1.00mm	254	**15%**
0.014"	0.35mm	255	white

13. Fonts

Revit Users: *Standard Text styles have been pre-loaded in the LACCD Standard Template and symbols, and shall be utilized as outlined in this section.*

Style names and Standards for all text shall be as follows:

Usage	Text Height	Color No.	Pen Width	Style Name (Font)
General Text and Notations	1/8”	7	.010	ARIAL (.85 width)
Special Text	1/8”	7	.010	ARIAL (.85 width)
Matchline Text	3/16”	7	.010	ARIAL (.85 width)
Notation Titles & General Titles included with Graphics, Details, Plans, Sections, Elevations, Etc.	1/4”	2 (Forced)	.014	ARIAL (.85 width)
Drawing Name and Title Block Notes	1/8”	2 (Forced)	.014	ARIAL BOLD (1.0 width)
Sheet Numbers	1/4”	2 (Forced)	.014	ARIAL BOLD (1.0 width)

For sheets, the Standard Text size for general annotation shall be 1/8”. All annotation and titles shall be UPPERCASE.

Text color/pen widths for each text height will be determined based on Standard Pen Table and Layer Names etc.

Custom fonts can be used for logos and signage details provided they are converted to linework created from the text elements. The intent here is to insure that all parties receiving electronic files need not load any additional fonts.

14. Dimension Settings

Dimension line terminators shall be Closed Filled Arrowheads for all Dimensions and Leaders. Dimension line terminator size shall be set to 1/8" long.

Dimension text shall be Arial font with a plotted height of 1/8" for drawings of all scales.
Standard Dimension styles have been pre-loaded into Project Template and include the overall scale factor.

Include the "Overall Scale Factor" (ex. Dim48, Dim120, etc.).

A sample Dimension Style variables list is in the Appendix of this document as an example of an Architectural Dimension Style and an Engineering Dimension Style.

Dimension Style Names	
Drawing Plot Scale	DimStyle
Full Size	Dim1
3" = 1'-0"	Dim4
1 1/2" = 1'-0"	Dim8
1" = 1'-0"	Dim12
3/4" = 1'-0"	Dim16
1/2" = 1'-0"	Dim24
3/8" = 1'-0"	Dim32
1/4" = 1'-0"	Dim48
3/16" = 1'-0"	Dim64
1/8" = 1'-0"	Dim96
3/32" = 1'-0"	Dim128
1/16" = 1'-0"	Dim192
1/32" = 1'-0"	Dim384

Decimal Units	
1" = 10'	Dim10
1" = 20'	Dim20
1" = 40'	Dim40
1" = 50'	Dim50
1" = 100'	Dim100
1" = 200'	Dim200
1" = 400'	Dim400
1" = 500'	Dim500

Example Scale of Arch drawing: 1/8" = 1'-0"

AutoCAD / (Microstation) *Users - All Dimensions shall be placed in Model Space (Design Model) of the Sheet.*

Revit Users *– Dimensions can be placed directly in views so long as they can be exported to a dwg using correct text size, scale, and layers.*

15. Standard Annotation and Model Objects

a. Consultants must comply with the use of LACCD Standard Annotation and Symbols as provided in the LACCD project templates. Project team shall not change assigned block names, font styles, line work, *(and layers for AutoCAD and Microstation Users).*

Revit Users – Standard Symbols are included in the project template under ***Annotation Symbols*** *Families*

ADT symbols may be used as-is.

Please see the Appendix for Approved Drafting Symbols.

16. Viewports (Views) *(AutoCAD / Microstation Users only)*

Views and Viewports in AutoCAD and Microstation are not constrained to follow the AIA standard. The Layer Name will be $VPORT. This nomenclature keeps the layer at the top of the layer list, and could be accessed or ignored easily.

17. Detail Layout

Detail sheets shall be composed by using the standard drafting sheet divided into standard modules defined by a layout grid as recommended above. The modular grid shall be rendered visible in the sheet and in the final plot. Each detail will be bounded by a visible grid.

Wherever possible, details shall be directly associated with the 3D model, and 2D linework added to a live view as necessary to articulate detail intent. .

The sequence for inserting the detail onto the detail sheet shall be beginning at the lower right-hand corner of the drawing area adjacent to the title block and then proceeding from bottom to top and across the sheet from right to left.

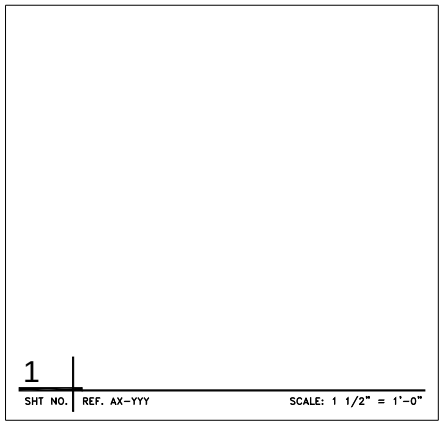
The numbering of the details shall be done with a numerical series corresponding to their placement in the grid (e.g.: the first detail on the page is number 1 – then next is number 2)

Detail Sheets shall be divided into Grid areas and grid lines will be plotted out.

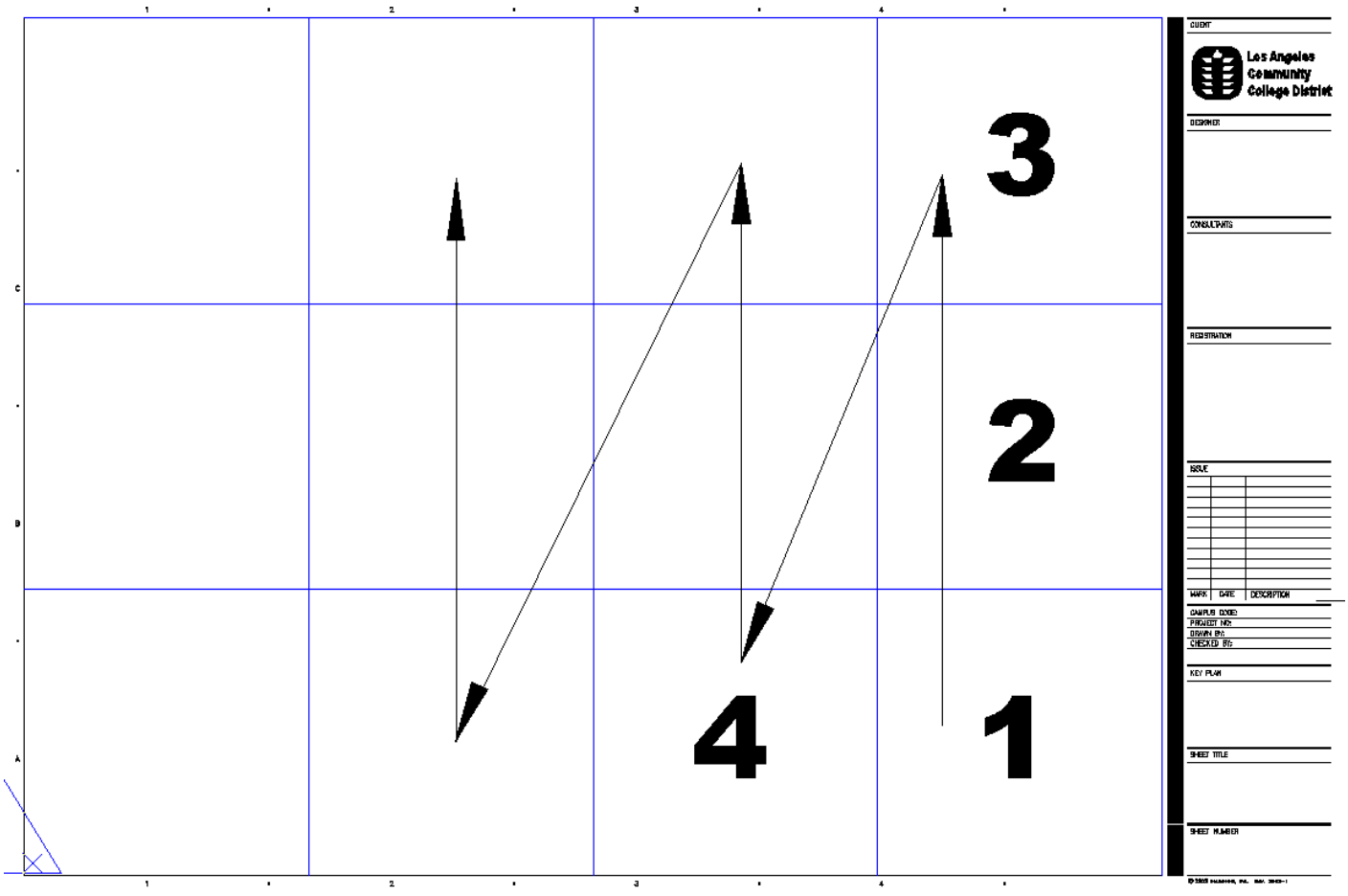
Details larger than one module may be inserted in the sheet by encompassing as many contiguous drawing modules as required by the size of the detail. Only full drawing modules shall be used. No fractional portions of modules shall be allowed. The numbering of the resulting detail shall be sequential from the lower right-hand corner of the sheet detail.

The details shall be identified individually in the detail sheet by means of detail title blocks provided by the standard palette of drafting symbols.

17.2 Typical Detail Sheet Layout



Typical Detail Sheet Layout (Sections and Elevations are similar)


1
2
3
4
Los Angeles Community College District
CLIENT
DESIGNER
CONSULTANTS
REGISTRATION
ISSUE
MARK
DATE
DESCRIPTION
CAMPUS CODE:
PROJECT NO:
DRAWN BY:
CHECKED BY:
KEY PLAN
SHEET TITLE
SHEET NUMBER

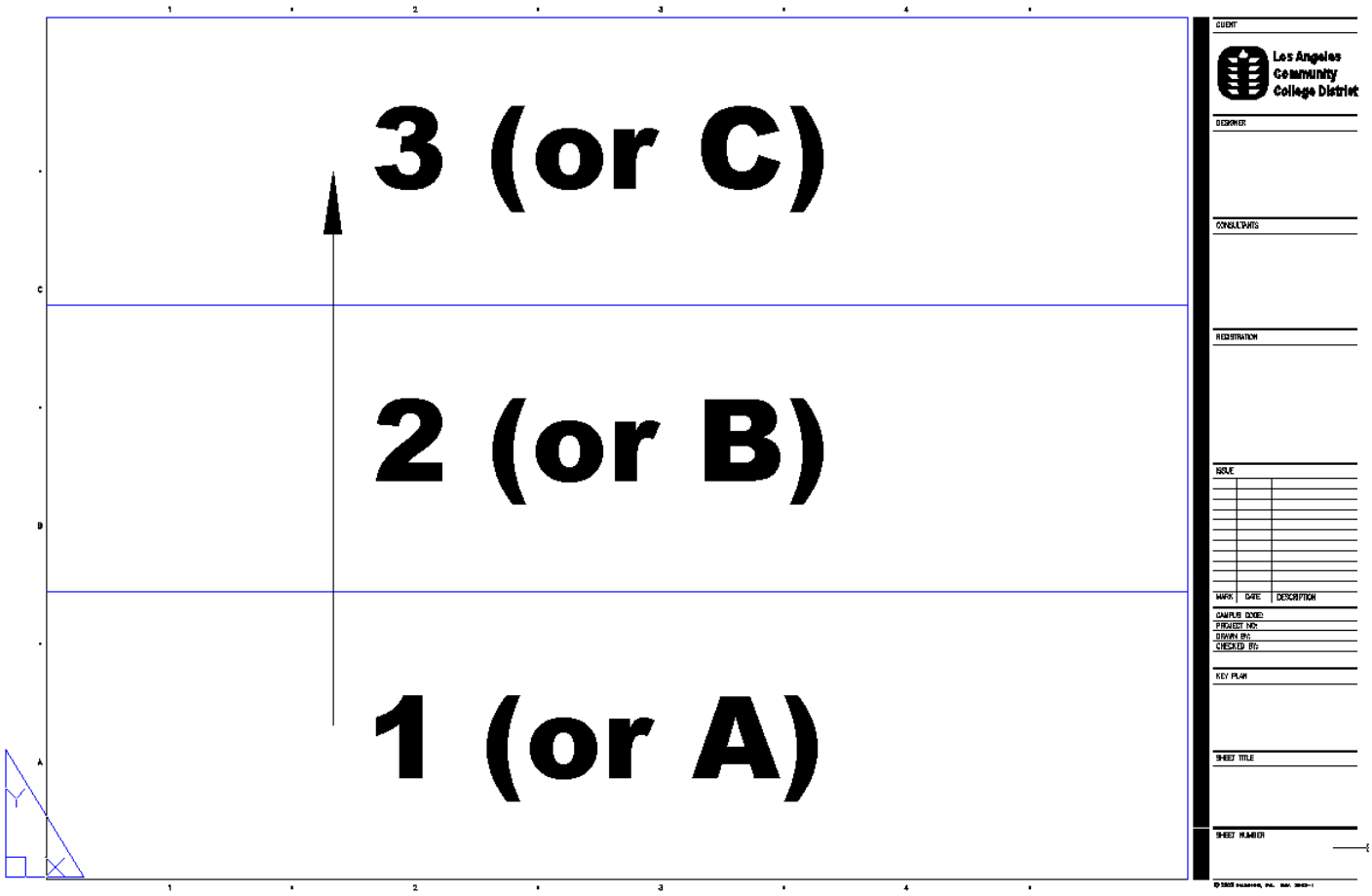
18. Plans, Elevations and Sections

Plans are designated “1” “2” “3”, etc.

Elevations are designated “1” “2” “3” and so on

Sections and Wall Sections are designated “A” “B” “C” and so on.

Plans, Elevations, and Sections are placed on the sheets starting in the lower right corner and move up. Then move to the left and return to the bottom of the page and go up.
Wall Sections are placed on sheets in a similar manner. However, due to their vertical nature shall be numbered from right to left.



19. Plotting

Plotting must be standardized in order to achieve a consistent look and feel. This process incorporates the pen table, standard symbols, title blocks, and placement of views in the sheet layout.

AutoCAD / Microstation Users: Plot files shall be generated using the standard LACCD pen styles (LACCD_R3.ctb) Each plotted sheet shall be generated in its own file, shall reference live model views, and shall not include more than a single layout unless approved by the CPM.

PDF Files - In addition to dwg files, full size PDF sheet files will be issued for milestone submittals. The PDF Filename must be consistent with the Sheet File name.

20. Deliverables

While various types of deliverables and file formats have been described in these standards, Project Teams shall provide deliverables as described and outlined in the contractual agreements between the District (LACCD) and the Design Build team.

Appendix

Full size Pentable definition

AutoCAD color number	AutoCAD Line Width (in inches)	Pen Width	Shading Percentage
1	0.010"	.25mm	
2	0.014"	.35mm	
3	0.020"	.50mm	
4	0.028"	.70mm	
5	0.039"	1.00mm	
6	0.004"	.10mm	
7	0.010"	.25mm	
8	0.014"	.35mm	**50%**
9	0.004"	.10mm	
10	0.007"	.18mm	
11	0.010"	.25mm	
12	0.014"	.35mm	
13	0.020"	.50mm	
14	0.028"	.70mm	
15	0.039"	1.00mm	
16	0.004"	.10mm	
17	0.028"	.70mm	**35%**
18	0.014"	.35mm	**50%**
19	0.024"	.60mm	
20	0.007"	.18mm	
21	0.010"	.25mm	
22	0.014"	.35mm	
23	0.020"	.50mm	
24	0.028"	.70mm	
25	0.039"	1.00mm	
26	0.004"	.10mm	
27	0.028"	.70mm	**35%**
28	0.014"	.35mm	**50%**
29	0.024"	.60mm	
30	0.007"	.18mm	
31	0.010"	.25mm	
32	0.014"	.35mm	
33	0.020"	.50mm	
34	0.028"	.70mm	
35	0.039"	1.00mm	
36	0.004"	.10mm	
37	0.028"	.70mm	**35%**
38	0.014"	.35mm	**50%**
39	0.024"	.60mm	
40	0.007"	.18mm	
41	0.010"	.25mm	
42	0.014"	.35mm	
43	0.020"	.50mm	
44	0.028"	.70mm	

45	0.039"	1.00mm	
46	0.004"	.10mm	
47	0.028"	.70mm	**35%**
48	0.014"	.35mm	**50%**
49	0.024"	.60mm	
50	0.007"	.18mm	
51	0.010"	.25mm	
52	0.014"	.35mm	
53	0.020"	.50mm	
54	0.028"	.70mm	
55	0.039"	1.00mm	
56	0.004"	.10mm	
57	0.028"	.70mm	**35%**
58	0.014"	.35mm	**50%**
59	0.024"	.60mm	
60	0.007"	.18mm	
61	0.010"	.25mm	
62	0.014"	.35mm	
63	0.020"	.50mm	
64	0.028"	.70mm	
65	0.039"	1.00mm	
66	0.004"	.10mm	
67	0.028"	.70mm	**35%**
68	0.014"	.35mm	**50%**
69	0.024"	.60mm	
70	0.007"	.18mm	
71	0.010"	.25mm	
72	0.014"	.35mm	
73	0.020"	.50mm	
74	0.028"	.70mm	
75	0.039"	1.00mm	
76	0.004"	.10mm	
77	0.028"	.70mm	**35%**
78	0.014"	.35mm	**50%**
79	0.024"	.60mm	
80	0.007"	.18mm	
81	0.010"	.25mm	
82	0.014"	.35mm	
83	0.020"	.50mm	
84	0.028"	.70mm	
85	0.039"	1.00mm	
86	0.004"	.10mm	
87	0.028"	.70mm	**35%**
88	0.014"	.35mm	**50%**
89	0.024"	.60mm	
90	0.007"	.18mm	
91	0.010"	.25mm	
92	0.014"	.35mm	
93	0.020"	.50mm	
94	0.028"	.70mm	

95	0.039"	1.00mm	
96	0.004"	.10mm	
97	0.028"	.70mm	**35%**
98	0.014"	.35mm	**50%**
99	0.024"	.60mm	
100	0.007"	.18mm	
101	0.010"	.25mm	
102	0.014"	.35mm	
103	0.020"	.50mm	
104	0.028"	.70mm	
105	0.039"	1.00mm	
106	0.004"	.10mm	
107	0.028"	.70mm	**35%**
108	0.014"	.35mm	**50%**
109	0.024"	.60mm	
110	0.007"	.18mm	
111	0.010"	.25mm	
112	0.014"	.35mm	
113	0.020"	.50mm	
114	0.028"	.70mm	
115	0.039"	1.00mm	
116	0.004"	.10mm	
117	0.028"	.70mm	**35%**
118	0.014"	.35mm	**50%**
119	0.024"	.60mm	
120	0.007"	.18mm	
121	0.010"	.25mm	
122	0.014"	.35mm	
123	0.020"	.50mm	
124	0.028"	.70mm	
125	0.039"	1.00mm	
126	0.004"	.10mm	
127	0.028"	.70mm	**35%**
128	0.014"	.35mm	**50%**
129	0.024"	.60mm	
130	0.007"	.18mm	
131	0.010"	.25mm	
132	0.014"	.35mm	
133	0.020"	.50mm	
134	0.028"	.70mm	
135	0.039"	1.00mm	
136	0.004"	.10mm	
137	0.028"	.70mm	**35%**
138	0.014"	.35mm	**50%**
139	0.024"	.60mm	
140	0.007"	.18mm	
141	0.010"	.25mm	
142	0.014"	.35mm	
143	0.020"	.50mm	
144	0.028"	.70mm	

145	0.039"	1.00mm	
146	0.004"	.10mm	
147	0.028"	.70mm	**35%**
148	0.014"	.35mm	**50%**
149	0.024"	.60mm	
150	0.007"	.18mm	
151	0.010"	.25mm	
152	0.014"	.35mm	
153	0.020"	.50mm	
154	0.028"	.70mm	
155	0.039"	1.00mm	
156	0.004"	.10mm	
157	0.028"	.70mm	**35%**
158	0.014"	.35mm	**50%**
159	0.024"	.60mm	
160	0.007"	.18mm	
161	0.010"	.25mm	
162	0.014"	.35mm	
163	0.020"	.50mm	
164	0.028"	.70mm	
165	0.039"	1.00mm	
166	0.004"	.10mm	
167	0.028"	.70mm	**35%**
168	0.014"	.35mm	**50%**
169	0.024"	.60mm	
170	0.007"	.18mm	
171	0.010"	.25mm	
172	0.014"	.35mm	
173	0.020"	.50mm	
174	0.028"	.70mm	
175	0.039"	1.00mm	
176	0.004"	.10mm	
177	0.028"	.70mm	**35%**
178	0.014"	.35mm	**50%**
179	0.024"	.60mm	
180	0.007"	.18mm	
181	0.010"	.25mm	
182	0.014"	.35mm	
183	0.020"	.50mm	
184	0.028"	.70mm	
185	0.039"	1.00mm	
186	0.004"	.10mm	
187	0.028"	.70mm	**35%**
188	0.014"	.35mm	**50%**
189	0.024"	.60mm	
190	0.007"	.18mm	

191	0.010"	.25mm	
192	0.014"	.35mm	
193	0.020"	.50mm	
194	0.028"	.70mm	
195	0.039"	1.00mm	
196	0.004"	.10mm	
197	0.028"	.70mm	**35%**
198	0.014"	.35mm	**50%**
199	0.024"	.60mm	
200	0.007"	.18mm	85%
201	0.010"	.25mm	85%
202	0.014"	.35mm	85%
203	0.020"	.50mm	85%
204	0.028"	.70mm	85%
205	0.039"	1.00mm	85%
206	0.004"	.10mm	85%
207	0.028"	.70mm	85%
208	0.014"	.35mm	85%
209	0.024"	.60mm	85%
210	0.007"	.18mm	70%
211	0.010"	.25mm	70%
212	0.014"	.35mm	70%
213	0.020"	.50mm	70%
214	0.028"	.70mm	70%
215	0.039"	1.00mm	70%
216	0.004"	.10mm	70%
217	0.028"	.70mm	70%
218	0.014"	.35mm	70%
219	0.024"	.60mm	70%
220	0.007"	.18mm	50%
221	0.010"	.25mm	50%
222	0.014"	.35mm	50%
223	0.020"	.50mm	50%
224	0.028"	.70mm	50%
225	0.039"	1.00mm	50%
226	0.004"	.10mm	50%
227	0.028"	.70mm	50%
228	0.014"	.35mm	50%
229	0.024"	.60mm	50%
230	0.007"	.18mm	30%
231	0.010"	.25mm	30%
232	0.014"	.35mm	30%
233	0.020"	.50mm	30%
234	0.028"	.70mm	30%
235	0.039"	1.00mm	30%
236	0.004"	.10mm	30%
237	0.028"	.70mm	30%
238	0.014"	.35mm	30%
239	0.024"	.60mm	30%
240	0.007"	.18mm	15%
241	0.010"	.25mm	15%

242	0.014"	.35mm	15%
243	0.020"	.50mm	15%
244	0.028"	.70mm	15%

245	0.039"	1.00mm	**15%**
246	0.004"	.10mm	**15%**
247	0.028"	.70mm	**15%**
248	0.014"	.35mm	**15%**
249	0.024"	.60mm	**15%**

250	0.010"	.25mm	**85%**
251	0.014"	.35mm	**70%**
252	0.020"	.50mm	**50%**
253	0.028"	.70mm	**30%**
254	0.039"	1.00mm	**15%**
255	0.014"	.35mm	

LACCD Standard Layers

LACCD CADD LAYERS - Revision 3 — June 2009

The creation of additional layer names shall follow the layer naming recommendations of 1-4-4-4-1 format shown from the NCS/AIA guideline.

A - W A L L - F U L L - D E M O - M

- The first place is a Discipline Designator letter. By default it is one character long. Two characters may be used if the designator calls for it.
- The second place is the Major Group. It is four characters long preceded by a dash. No more – no less. It identifies the major building systems and components.
- The third and fourth place is a Minor Group field modifier preceded by a dash. You may use one or both of these fields at your discretion when creating a new layer name. This field delineates further the Major Group. Both fields are also four characters long.
- The fifth place is a Modifier used to describe the Status Field Code as it relates to the items on that layer.

DISCIPLINE GROUP	LAYER NAME	AutoCAD COLOR	WEIGHT (INCHES)	LINE TYPE	DESCRIPTION	Rev. 1 Mods	Rev. 2 Mods
Overall System Layers							
	0	7	0.010"	CONTINUOUS	Block Creation Layer		
	DEFPOINTS	7	0.010"	CONTINUOUS	No User Elements		
	$DETL	7	0.010"	CONTINUOUS	Detail Insertion Layer		
	$VPORT	31	0.010"	CONTINUOUS	Paperspace Viewports		
	$VPORT-MS	31	0.010"	CONTINUOUS	Viewport Copies In Model Space		
	$XCLIP	7	0.010"	DASHED	XCLIP trim boundaries	x	
	$XREF-[xref filename]	Use 8 to screen	Varies	CONTINUOUS	External Reference File Attachment Layer		
	$NREF-[xref filename]	Use 8 to screen	Varies	CONTINUOUS	Nested Reference File Attachment Layer		
	$XREF-IM-[xref filename]	7	0.010"	CONTINUOUS	Reference Images Attachment Layer		
General Annotation Layers - For Sheet Files							
	G-ANNO-CNTR	6	0.004"	CENTER2	Centerlines (For Layout)		
	G-ANNO-DIMS-XXXX G-ANNO-DIMS (ADT)	10	0.007"	CONTINUOUS	Dimensions (replace the XXXX with the dimscale in use Example: G-ANNO-DIMS-0096 for 1/8"		
	G-ANNO-MATC	2	0.014"	DIVIDE2	Match Lines		
	G-ANNO-NOTE	7	0.010"	CONTINUOUS	Notes, Call-Outs And Keynotes		
	G-ANNO-NPLT	1	0.010"	CONTINUOUS	Non Plotting Layer		
	G-ANNO-RDME	7	0.010"	CONTINUOUS	Readme/Notes To Drafter (No Plotting)		
	G-ANNO-REVC-R#	10	0.007"	CONTINUOUS	Revision Clouds (replace # with Rev number)		
	G-ANNO-REVS-R#	10	0.007"	CONTINUOUS	Revision Targets / Triangles (Replace # with Rev number)		
	G-ANNO-SYMB	7	0.010"	CONTINUOUS	Graphic Symbols		
	G-ANNO-TITL	7	0.010"	CONTINUOUS	Drawing Or Detail Titles		
	G-ANNO-TTLB	7	0.010"	CONTINUOUS	Border And Titleblock		x
	G-ANNO-TTLB-DATE	7	0.010"	CONTINUOUS	Datestamp		
	G-ANNO-TTLB-GRID	9	0.004"	DASHED2	Detail Module Grid Lines		
	G-ANNO-TTLB-KPLN	10	0.007"	CONTINUOUS	Keyplans		
	G-ANNO-TTLB-NFCR	2	0.014"	CONTINUOUS	Not For Construction text		
	G-ANNO-TTLB-NOSH	7	0.010"	CONTINUOUS	Sheet 1 Of _____		
	G-ANNO-TTLB-TEXT	7	0.010"	CONTINUOUS	Titleblock Text		
	G-ANNO-SEAL-A	7	0.010"	CONTINUOUS	Architectural Stamps And Seals		
	G-ANNO-SEAL-C	7	0.010"	CONTINUOUS	Civil Stamps And Seals		
	G-ANNO-SEAL-E	7	0.010"	CONTINUOUS	Electrical Stamps And Seals		
	G-ANNO-SEAL-M	7	0.010"	CONTINUOUS	Mechanical Stamps And Seals		
	G-ANNO-SEAL-S	7	0.010"	CONTINUOUS	Structural Stamps And Seals		
Modifier	G-ANNO-SEAL-X-XXX	7	0.010"	CONTINUOUS	Optional - Add Three Initials to the end of the Layer Name to separate stamps in one discipline		
	G-ANNO-STMP	7	0.010"	CONTINUOUS	Misc. Project Stamps		
Details							
	G-DETL-LW00	9	0.004"	CONTINUOUS	Detail Component Layer for all objects that are color 9		
	G-DETL-LW01	1	0.010"	CONTINUOUS	Detail Component Layer for all objects that are color 1		
	G-DETL-LW02	2	0.014"	CONTINUOUS	Detail Component Layer for all objects that are color 2		
	G-DETL-LW03	3	0.020"	CONTINUOUS	Detail Component Layer for all objects that are color 3		
	G-DETL-LW04	4	0.028"	CONTINUOUS	Detail Component Layer for all objects that are color 4		
	G-DETL-LW05	5	0.039"	CONTINUOUS	Detail Component Layer for all objects that are color 5		
Modifier	G-DETL-SC50	8	0.014"	CONTINUOUS	Example Layer Name for 50% Screened items		
	G-ANNO-NOTE	7	0.010"	CONTINUOUS	Detail Layer for all Notations		
	G-ANNO-DIMS-XXXX	10	0.007"	CONTINUOUS	Dimensions (replace the XXXX with the dimscale in use Example: G-ANNO-DIMS-0096 for 1/8"		
Optional Modifier	G-XXXX-XXXX-CEN2	2	0.014"	CENTER2	For Center2 Linetype		
Optional Modifier	G-XXXX-XXXX-DAS2	2	0.014"	DASHED2	For Dashed2 Linetype		
Optional Modifier	G-XXXX-XXXX-MCUT	3	0.020"		For Line Cut By View		
Schedules							
	G-SCHD-LW00	9	0.004"	CONTINUOUS	Schedule Component Layer for all objects that are color 9		
	G-SCHD-LW01	1	0.010"	CONTINUOUS	Schedule Component Layer for all objects that are color 1		
	G-SCHD-LW02	2	0.014"	CONTINUOUS	Schedule Component Layer for all objects that are color 2		
	G-SCHD-LW03	3	0.020"	CONTINUOUS	Schedule Component Layer for all objects that are color 3		
	G-SCHD-LW04	4	0.028"	CONTINUOUS	Schedule Component Layer for all objects that are color 4		
	G-SCHD-LW05	5	0.039"	CONTINUOUS	Schedule Component Layer for all objects that are color 5		
Modifier	G-SCHD-SC50	8	0.014"	CONTINUOUS	Example Layer Name for 50% Screened items		
	G-ANNO-NOTE	7	0.010"	CONTINUOUS	Schedule Layer for all Notations		
	G-ANNO-DIMS-XXXX	10	0.007"	CONTINUOUS	Dimensions (replace the XXXX with the dimscale in use Example: G-ANNO-DIMS-0096 for 1/8"		

DISCIPLINE GROUP	LAYER NAME	AutoCAD COLOR	WEIGHT (INCHES)	LINE TYPE	DESCRIPTION	Rev. 1 Mods	Rev. 2 Mods
Optional Modifier	G-XXXX-XXXX-CEN2	2	0.014"	CENTER2	For Center2 Linetype		
Optional Modifier	G-XXXX-XXXX-DAS2	2	0.014"	DASHED2	For Dashed2 Linetype		
Optional Modifier	G-XXXX-XXXX-MCUT	3	0.020"		For Line Cut By View		
Sections							
	G-SECT-LW00	9	0.004"	CONTINUOUS	Section Component Layer for all objects that are color 9		
	G-SECT-LW01	1	0.010"	CONTINUOUS	Section Component Layer for all objects that are color 1		
	G-SECT-LW02	2	0.014"	CONTINUOUS	Section Component Layer for all objects that are color 2		
	G-SECT-LW03	3	0.020"	CONTINUOUS	Section Component Layer for all objects that are color 3		
	G-SECT-LW04	4	0.028"	CONTINUOUS	Section Component Layer for all objects that are color 4		
	G-SECT-LW05	5	0.039"	CONTINUOUS	Section Component Layer for all objects that are color 5		
Modifier	G-SECT-SC50	8	0.014"	CONTINUOUS	Example Layer Name for 50% Screened items		
	G-ANNO-NOTE	7	0.010"	CONTINUOUS	Section Layer for all Notations		
	G-ANNO-DIMS-XXXX	10	0.007"	CONTINUOUS	Dimensions (replace the XXXX with the dimscale in use Example: G-ANNO-DIMS-0096 for 1/8"		
Optional Modifier	G-XXXX-XXXX-CEN2	2	0.014"		For Center2 Linetype		
Optional Modifier	G-XXXX-XXXX-DAS2	2	0.014"		For Dashed2 Linetype		
Optional Modifier	G-XXXX-XXXX-MCUT	3	0.020"		For Line Cut By View		
Elevations							
	G-ELEV-LW00	9	0.004"	CONTINUOUS	Elevation Component Layer for all objects that are color 9		
	G-ELEV-LW01	1	0.010"	CONTINUOUS	Elevation Component Layer for all objects that are color 1		
	G-ELEV-LW02	2	0.014"	CONTINUOUS	Elevation Component Layer for all objects that are color 2		
	G-ELEV-LW03	3	0.020"	CONTINUOUS	Elevation Component Layer for all objects that are color 3		
	G-ELEV-LW04	4	0.028"	CONTINUOUS	Elevation Component Layer for all objects that are color 4		
	G-ELEV-LW05	5	0.039"	CONTINUOUS	Elevation Component Layer for all objects that are color 5		
Modifier	G-ELEV-SC50	8	0.014"	CONTINUOUS	Example Layer Name for 50% Screened items		
	G-ANNO-NOTE	7	0.010"	CONTINUOUS	Elevation Layer for all notations		
	G-ANNO-DIMS-XXXX	10	0.007"	CONTINUOUS	Dimensions (replace the XXXX with the dimscale in use Example: G-ANNO-DIMS-0096 for 1/8"		
Optional Modifier	G-XXXX-XXXX-CEN2	2	0.014"	CENTER2	For Center2 Linetype		
Optional Modifier	G-XXXX-XXXX-DAS2	2	0.014"	DASHED2	For Dashed2 Linetype		
Optional Modifier	G-XXXX-XXXX-MCUT	3	0.020"	CONTINUOUS	For Line Cut By View		
General Modifiers - used in the fourth position in a layer name							
Modifier	X-XXXX-XXXX-DEMO	VARIES	VARIES	HIDDEN2	Any Layer Name: Existing Work To Be Demolished		
Modifier	X-XXXX-XXXX-EXIS	VARIES	VARIES	CONTINUOUS	Any Layer Name: Existing Work To Remain		
Modifier	X-XXXX-XXXX-INTR	VARIES	VARIES	CONTINUOUS	Interior Layer Modifier		
Modifier	X-XXXX-XXXX-EXTR	VARIES	VARIES	CONTINUOUS	Exterior Layer Modifier		
Modifier	X-XXXX-XXXX-SC50	8	VARIES	CONTINUOUS	Screened Layer Modifier for 50% screen		
Modifier	X-XXXX-XXXX-EXIS	VARIES	VARIES	CONTINUOUS	Any Layer Name: Existing Work To Remain		
Modifier	X-XXXX-XXXX-HID2	VARIES	VARIES	HIDDEN2	For Hidden2 Linetype		x
Modifier	X-XXXX-XXXX-DAS2	VARIES	VARIES	DASHED2	For Dashed2 Linetype		x
Status / Phase Modifiers - used in the fifth position in a layer name - Add to any layer name							
Modifier	X-XXXX-XXXX-XXXX-P	VARIES	VARIES	HIDDEN2	Proposed Work		
Modifier	X-XXXX-XXXX-XXXX-E	VARIES	VARIES	CONTINUOUS	Existing to Remain		
Modifier	X-XXXX-XXXX-XXXX-D	VARIES	VARIES	CONTINUOUS	Existing to be Demolished		
Modifier	X-XXXX-XXXX-XXXX-F	VARIES	VARIES	CONTINUOUS	Future Work		
Modifier	X-XXXX-XXXX-XXXX-T	VARIES	VARIES	CONTINUOUS	Temporary Work		
Modifier	X-XXXX-XXXX-XXXX-M	VARIES	VARIES	CONTINUOUS	Items to be Moved		
Modifier	X-XXXX-XXXX-XXXX-X	VARIES	VARIES	CONTINUOUS	Not in Contract		
Civil - BASEMAP							
	C-BLDG	5	0.039"	CONTINUOUS	Buildings And Structures		
	C-BLDG-ANNO	211	0.010"	CONTINUOUS	Building Bubbles And Text		
	C-BLDG-EQUP	201	0.010"	DASHED2	Building Equipment		
	C-BLDG-GRID	211	0.010"	CENTER2	Building Column Grids		
	C-BLIN	1	0.010"	CONTINUOUS	Baseline		
	C-BLIN-STAN	10	0.007"	CONTINUOUS	Baseline Stationing		
	C-BLIN-<NAME>	1	0.010"	CONTINUOUS	Baseline With LDD Baseline Line Name Included		
	C-BLIN-<NAME>-STAN	10	0.007"	CONTINUOUS	Baseline With LDD Baseline Line Name Included Stations		
	C-BORE	3	0.020"	CONTINUOUS	Borings		
	C-BRDG	3	0.020"	CONTINUOUS	Bridge		
	C-BRDG-CNTJ	3	0.020"	CONTINUOUS	Bridge Construction Joint		
	C-BRDG-EXPJ	3	0.020"	CONTINUOUS	Bridge Expansion Joints		
	C-CHAN	3	0.020"	CONTINUOUS	Navigable Channels		
	C-CHAN-CNTR	3	0.020"	CENTER2	Navigable Channels Center Line		
	C-CTRL	2	0.014"	CONTINUOUS	Control Points		
	C-CTRL-BMRK	2	0.014"	CONTINUOUS	Control Point Benchmarks		
	C-CTRL-CNTR	241	0.010"	CENTER2	Control Center Lines		
	C-CTRL-LIMT	64	0.028"	PHANTOM2	Control Work Limits		
	C-CTRL-STAT	7	0.010"	CONTINUOUS	Control Stationing		
	C-CTRL-TANG	241	0.010"	HIDDEN2	Control Tangents		
	C-CTRL-TRAV	2	0.014"	CONTINUOUS	Control Points Traverse		
	C-DEMO	3	0.020"	CONTINUOUS	Demolition		

DISCIPLINE GROUP	LAYER NAME	AutoCAD COLOR	WEIGHT (INCHES)	LINE TYPE	DESCRIPTION	Rev. 1 Mods	Rev. 2 Mods
	C-DRIV	3	0.020"	CONTINUOUS	Driveway		
	C-DRIV-CURB	3	0.020"	CONTINUOUS	Driveway Curb		
	C-DRIV-CURB-BACK	10	0.007"	CONTINUOUS	Driveway Curb Back Of Curb		
	C-DRIV-CURB-FACE	3	0.020"	CONTINUOUS	Driveway Curb Face Of Curb		
	C-DTCH	3	0.020"	CONTINUOUS	Ditch		
	C-DTCH-CNTR	3	0.020"	CENTER2	Ditch Centerline		
	C-EROS	3	0.020"	HIDDEN2	Erosion And Sediment Control		
	C-EROS-ANNO	10	0.007"	CONTINUOUS	Erosion And Sediment Controlv Fence		
	C-ESMT	33	0.020"	DASH2	Easement Lines		
	C-ESMT-ANNO	7	0.010"	CONTINUOUS	Easement Line Texts		
	C-ESMT-RWAY	3	0.020"	DASHED2	Easement Line Roadway		
	C-ESMT-UTIL	3	0.020"	DASHED2	Easement Roadway Utilities		
	C-FENC	23	0.020"	FENCE_X	Fence Line & Gates		
	C-FLHA	3	0.020"	CUSTOM	Flood Hazard		
	C-FLHA-100Y	3	0.020"	CUSTOM	Flood Hazard 100 Year Line		
	C-GRAL	3	0.020"	CUSTOM	Guard Rails		
	C-PERC	2	0.014"	CONTINUOUS	Perc Test Pits		
	C-PERC-ANNO	7	0.010"	CONTINUOUS	Perc Test Pits Text		
	C-PLST	10	0.007"	CONTINUOUS	Plan Sheet Index Layout		
	C-POND	10	0.007"	CONTINUOUS	Ponds		
	C-POND-ANNO	7	0.010"	CONTINUOUS	Ponds Text		
	C-PRKG-ASPH	152	0.014"	CONTINUOUS	Parking Lot Asphalt Pavement		
	C-PRKG-CONC	2	0.014"	CONTINUOUS	Parking Lot Concrete Pavement		
	C-PRKG-CURB	3	0.020"	CONTINUOUS	Parking Lot Curb		
	C-PRKG-CURB-BACK	10	0.007"	CONTINUOUS	Parking Lot Back Of Curb		
	C-PRKG-CURB-FACE	3	0.020"	CONTINUOUS	Parking Lot Face Of Curb		
	C-PRKG-GRVL	7	0.010"	CONTINUOUS	Parking Lot Gravel Pavement		
	C-PRKG-SIGN	2	0.014"	CONTINUOUS	Parking Lot Signage		
	C-PRKG-STRP	201	0.010"	CONTINUOUS	Parking Lot Striping		
	C-PROP-ANNO	7	0.010"	CONTINUOUS	Property Line Texts		
	C-PROP-BNDY	10	0.007"	CUSTOM	Property - Boundary Line, Township, City, County, Etc.		
	C-PROP-LINE	24	0.028"	PHANTOM2	Property Lines		
	C-PROP-MONU	3	0.020"	CONTINUOUS	Property Monuments		
	C-PROP-ROWA	4	0.028"	CUSTOM	Property Right Of Way Line		
	C-PROP-ROWD	7	0.010"	CONTINUOUS	Property Right Of Way Deed Information		
	C-PVMT-JOIN	3	0.020"	HIDDEN2	Pavement Joints		
	C-PVMT-LONG	44	0.028"	CONTINUOUS	Longitudinal Joints		
	C-PVMT-TRAN	12	0.014"	HIDDEN2	Transverse Joints		
	C-RAIL	10	0.007"	CUSTOM	Railroad		
	C-RAIL-CNTR	10	0.007"	CENTER2	Railroad Centerline		
	C-RAIL-TRAK	7	0.010"	CONTINUOUS	Railroad Tracks		
	C-RIVR	3	0.020"	CUSTOM	River		
	C-RIVR-ANNO	7	0.010"	CONTINUOUS	River Text		
	C-RIVR-CNTR	7	0.010"	CENTER2	River Centerline		
	C-ROAD	3	0.020"	CONTINUOUS	Roadway		
	C-ROAD-ASPH	3	0.020"	CONTINUOUS	Roadway - Asphalt		
	C-ROAD-CNTR	3	0.020"	CENTER2	Roadway - Centerlines		
	C-ROAD-CONC	3	0.020"	CONTINUOUS	Roadway - Concrete		
	C-ROAD-CURB	3	0.020"	CONTINUOUS	Roadway Curb		
	C-ROAD-CURB-BACK	10	0.007"	CONTINUOUS	Roadway Back Of Curb		
	C-ROAD-CURB-FACE	3	0.020"	CONTINUOUS	Roadway Face Of Curb		
	C-ROAD-BARR	3	0.020"	CONTINUOUS	Roadway Barrier Curb		
	C-ROAD-GRAD	3	0.020"	CONTINUOUS	Roadway Grading		
	C-ROAD-PRGL	3	0.020"	CONTINUOUS	Roadway Profile Grade Line		
	C-ROAD-SIGN	3	0.020"	CONTINUOUS	Roadway Signs		
	C-ROAD-SHDR	3	0.020"	CONTINUOUS	Roadway Shoulder		
	C-ROAD-SLOP	3	0.020"	CONTINUOUS	Roadway Slope Line		
	C-ROAD-STRP-SOLD	3	0.020"	CONTINUOUS	Roadway Striping		
	C-ROAD-STRP-DASH	3	0.020"	CUSTOM	Roadway Striping		
	C-SOIL	3	0.020"	CONTINUOUS	Soil Types		
	C-SWLK	3	0.020"	CONTINUOUS	Sidewalks		
	C-SWLK-ASPH	3	0.020"	CONTINUOUS	Sidewalks - Asphalt		
	C-SWLK-CONC	3	0.020"	CONTINUOUS	Sidewalks - Concrete		
	C-TINN	10	0.007"	CONTINUOUS	Triangulated Irregular Network		
	C-TINN-BNDY	10	0.007"	CONTINUOUS	Triangulated Irregular Network- Boundary		
	C-TINN-FALT	10	0.007"	CONTINUOUS	Triangulated Irregular Network- Fault Line		
	C-TOPO-DEPR	1	0.010"	CONTINUOUS	Depress Contours		
	C-TOPO-DEPR-ANNO	7	0.010"	CONTINUOUS	Depress Cont Text		
	C-TOPO-FLOW	1	0.010"	DIVIDE2	Flow Line		

DISCIPLINE GROUP	LAYER NAME	AutoCAD COLOR	WEIGHT (INCHES)	LINE TYPE	DESCRIPTION	Rev. 1 Mods	Rev. 2 Mods
	C-TOPO-LIMT	52	0.014"	PHANTOM2	Limit Of Grading		
	C-TOPO-MAJR	144	0.028"	CONTINUOUS	Major Contours		
	C-TOPO-MAJR-ANNO	7	0.010"	CONTINUOUS	Major Cont Text		
	C-TOPO-MINR	3	0.020"	CONTINUOUS	Minor Contours		
	C-TOPO-MINR-ANNO	7	0.010"	CONTINUOUS	Minor Cont Text		
	C-TOPO-RIDG	1	0.010"	DASHED2	Ridge Line		
	C-TOPO-SPOT	2	0.014"	CONTINUOUS	Spot Elevations		
	C-TOPO-TTOS	1	0.010"	HIDDEN2	Top/Toe Of Slope		
	C-TREE	10	0.007"	CUSTOM	Trees		
	C-TSIG	3	0.020"	CONTINUOUS	Traffic Signals		
	C-TSIG-ANNO	7	0.010"	CONTINUOUS	Traffic Signals Text		
	C-TSIG-UNDR	3	0.020"	HIDDEN2	Traffic Signals Underground		
	C-WALL	3	0.020"	CONTINUOUS	Walls		
	C-WALL-RTWL	2	0.014"	CONTINUOUS	Retaining Walls		
	C-WETL	3	0.020"	CUSTOM	Wetlands		
Civil - GRADING PLAN							
	CG-DEPR	1	0.010"	CONTINUOUS	Depress Contours		
	CG-DEPR-ANNO	7	0.010"	CONTINUOUS	Depress Cont Text		
	CG-FLOW	1	0.010"	DIVIDE2	Flow Line		
	CG-LIMT	52	0.014"	PHANTOM2	Limit Of Grading		
	CG-MAJR	144	0.028"	CONTINUOUS	Major Contours		
	CG-MAJR-ANNO	7	0.010"	CONTINUOUS	Major Cont Text		
	CG-MINR	3	0.020"	CONTINUOUS	Minor Contours		
	CG-MINR-ANNO	7	0.010"	CONTINUOUS	Minor Cont Text		
	CG-RIDG	1	0.010"	DASHED2	Ridge Line		
	CG-SPOT	2	0.014"	CONTINUOUS	Spot Elevations		
	CG-TTOS	1	0.010"	HIDDEN2	Top/Toe Of Slope		
Civil - UTILITIES PLAN							
	CU-CAIR	213	0.020"	CONTINUOUS	Compressed Air		
	CU-CAIR-ANNO	7	0.010"	CONTINUOUS	Air Text		
	CU-CAIR-SURF	43	0.020"	CONTINUOUS	Air Surface Items		
	CU-CATV	243	0.020"	CONTINUOUS	Cable Tv		
	CU-CATV-ANNO	7	0.010"	CONTINUOUS	Cable Text		
	CU-CATV-SURF	43	0.020"	CONTINUOUS	Cable Tv Surface Items		
	CU-CATV-UNDR	3	0.020"	CUSTOM	Cable Tv Underground		
	CU-COMM	30	0.007	CONTINUOUS	Communication		
	CU-COMM-ANNO	7	0.010"	CONTINUOUS	Comm Text		
	CU-COMM-SURF	43	0.020"	CONTINUOUS	Comm Surface Items		
	CU-COMM-UNDR	3	0.020"	CUSTOM	Communication Underground		
	CU-FIRE	134	0.028"	CONTINUOUS	Fire Protection		
	CU-FIRE-ANNO	7	0.010"	CONTINUOUS	Fire Protection Text		
	CU-FIRE-HYDR	3	0.020"	CONTINUOUS	Fire Protection Hydrants		
	CU-FIRE-SURF	43	0.020"	CONTINUOUS	Fire Protection Surface Items		
	CU-FIRE-UNDR	3	0.020"	CUSTOM	Fire Protection Underground		
	CU-FUEL	3	0.020"	CUSTOM	Fuel Gas		
	CU-FUEL-TANK	3	0.020"	HIDDEN2	Fuel Gas Tank		
	CU-FUEL-UNDR	3	0.020"	CUSTOM	Fuel Gas Underground		
	CU-LITE	3	0.020"	CONTINUOUS	Lighting		
	CU-NGAS	2	0.014	CONTINUOUS	Natural Gas		x
	CU-NGAS-ANNO	7	0.010"	CONTINUOUS	Natural Gas Text		
	CU-NGAS-SURF	43	0.020"	CONTINUOUS	Natural Gas Surface Items		
	CU-NGAS-UNDR	3	0.020"	CUSTOM	Natural Gas Underground		
	CU-POWR	1	0.010	CONTINUOUS	Power		x
	CU-POWR-ANNO	7	0.010"	CONTINUOUS	Power Text		
	CU-POWR-SURF	43	0.020"	CONTINUOUS	Power Surface Items		
	CU-POWR-UNDR	3	0.020"	CUSTOM	Power Underground		
	CU-RECL	64	0.028"	CONTINUOUS	Reclaimed Water		
	CU-RECL-ANNO	7	0.010"	CONTINUOUS	Rw Text		
	CU-RECL-SURF	43	0.020"	CONTINUOUS	Rw Surface Items		
	CU-SSWR	3	0.020	CONTINUOUS	Sanitary Sewer		x
	CU-SSWR-ANNO	7	0.010"	CONTINUOUS	Sanitary Sewer Text		
	CU-SSWR-SURF	43	0.020"	CONTINUOUS	Sanitary Sewer Surface Items		
	CU-SSWR-UNDR	3	0.020"	CUSTOM	Sanitary Sewer Underground		
	CU-STRM	4	0.028"	CONTINUOUS	Storm Drain Lines		x
	CU-STRM-ANNO	7	0.010"	CONTINUOUS	Storm Drain Text		
	CU-STRM-STRC	3	0.020"	CONTINUOUS	Storm Drain Structures		
	CU-STRM-SURF	43	0.020"	CONTINUOUS	Storm Drain Surface Items		
	CU-STRM-UNDR	3	0.020"	CUSTOM	Storm Drain Underground		

DISCIPLINE GROUP	LAYER NAME	AutoCAD COLOR	WEIGHT (INCHES)	LINE TYPE	DESCRIPTION	Rev. 1 Mods	Rev. 2 Mods
	CU-TELE	3	0.020"	CUSTOM	Telephone		
	CU-TELE-ANNO	7	0.010"	CONTINUOUS	Telephone Text		
	CU-TELE-SURF	43	0.020"	CUSTOM	Telephone Surface Items		
	CU-TELE-UNDR	3	0.020"	CUSTOM	Telephone Underground		
	CU-WATR	5	0.039	CONTINUOUS	Water		x
	CU-WATR-ANNO	7	0.010"	CONTINUOUS	Water Text		
	CU-WATR-SURF	43	0.020"	CONTINUOUS	Water Surface Items		
	CU-WATR-UNDR	3	0.020"	CUSTOM	Water Underground		
	CU-WATR-WELL	3	0.020"	HIDDEN2	Water - Well		
Landscape							
	L-EDGE	1	0.010"	CONTINUOUS	Boundary Edging		
	L-IRRI-EQPM	2	0.014"	CONTINUOUS	Irrigation: Equipment		
	L-IRRI-MAIN	5	0.039"	CONTINUOUS	Main Line Irrigation		
	L-IRRI-PIPE	2	0.014"	CONTINUOUS	Piping		
	L-IRRI-SPKL	2	0.014"	CONTINUOUS	Sprinkler Heads		
	L-PATT-HDSC	10	0.007"	CONTINUOUS	Hardscape Patterning		
	L-PATT-LAND	10	0.007"	CONTINUOUS	Landscape Patterning		
	L-PLNT-GCVR-LW00	16	0.004"	CONTINUOUS	Groundcovers and Vines		x
	L-PLNT-GCVR-LW01	11	0.010"	CONTINUOUS	Groundcovers and Vines		x
	L-PLNT-GCVR-LW02	12	0.014"	CONTINUOUS	Groundcovers and Vines		x
	L-PLNT-IDEN	7	0.010"	CONTINUOUS	Plants And Landscape Identification Notation		
	L-PLNT-SHRB-LW00	26	0.004"	CONTINUOUS	Bushes and Shrubs		x
	L-PLNT-SHRB-LW01	21	0.010"	CONTINUOUS	Bushes and Shrubs		x
	L-PLNT-SHRB-LW02	22	0.014"	CONTINUOUS	Bushes and Shrubs		x
	L-PLNT-TREE-LW00	36	0.004"	CONTINUOUS	Trees		x
	L-PLNT-TREE-LW01	31	0.010"	CONTINUOUS	Trees		x
	L-PLNT-TREE-LW02	32	0.014"	CONTINUOUS	Trees		x
	L-SITE-AMENITIES	132	0.014	CONTINUOUS	Pavilion, Play Structures, Seats, Benches, Etc.		x
	L-SITE-FENCE	23	0.020	FENCE_X	Fencing		x
	L-SITE-HRAL	10	0.007	CONTINUOUS	Handrails, Guard Rails		x
	L-SITE-RAMP	81	0.010	CONTINUOUS	Ramps		x
	L-SITE-STRS	81	0.010	CONTINUOUS	Stairs, Steps		x
	L-SITE-WALK	1	0.010	CONTINUOUS	Walkway, Decomposed granite		x
	L-SITE-WALL	2	0.014	CONTINUOUS	Walls less that 36" high, Seat wall, Planter Wall		x
	L-STRC-RMDA	3	0.020"	CONTINUOUS	Ramada Structures		
	L-STRC-WALL	2	0.014"	CONTINUOUS	Wall Structures		
	L-SYMB-BLDR	2	0.014"	CONTINUOUS	Boulder Symbology		x
	L-SYMB-FURN	1	0.010"	CONTINUOUS	Site Furniture Symbology		
	L-SYMB-VISB	2	0.014"	CONTINUOUS	Visability Symbology		
Architectural - GENERAL							
	A-AREA	2	0.014"	CONTINUOUS	Area (Area Calculation)		
	A-AREA-IDEN	7	0.010"	CONTINUOUS	Area: Area Finish Identifications		
	A-AREA-NAME	31	0.010"	CONTINUOUS	Area: Identification Room Name	x	
	A-AREA-NUMB	101	0.010"	CONTINUOUS	Area: Identification Room Number	x	
	A-AREA-OCCP	6	0.004"	CONTINUOUS	Area: Occupant Or Employee Names		
	A-AREA-PATT-####	10	0.007"	CONTINUOUS	Area: Pattern (Department/Blocking Diagram- Core Shading Etc.)		
	A-AREA-SQRE	1	0.010"	CONTINUOUS	Area: Identification Square footage	x	
	A-AREA-SQRE-PROG	131	0.010"	CONTINUOUS	Area: Identification Program Square Footage	x	
	A-PEOP	1	0.010"	CONTINUOUS	People, Animals, etc.		
	A-SITE	1	0.010"	CONTINUOUS	General Site Elements (Tennis Courts, etc.)		
	A-SITE-HRAL	6	0.004"	CONTINUOUS	Site Elements (Hand Rails)		x
	A-SITE-RAMP	10	0.007"	CONTINUOUS	Site Elements (Ramps)		x
	A-SITE-STRS	10	0.007"	CONTINUOUS	Site Elements (Stairs)		x
	A-VEHI	1	0.010"	CONTINUOUS	Cars, Planes, Busses and all Other Vehicles		
Architectural - REFLECTED CEILING PLAN							
	A-CLNG	3	0.020"	CONTINUOUS	Ceiling		
	A-CLNG-ACCS	132	0.014"	CONTINUOUS	Ceiling: Access Panels		
	A-CLNG-ACOU	190	0.007"	CONTINUOUS	Ceiling Material: Acoustical Panel	x	
	A-CLNG-GRID	6	0.004"	CONTINUOUS	Ceiling: Grid		
	A-CLNG-GYBD	191	0.010"	CONTINUOUS	Ceiling Material: Gypsum Board	x	
	A-CLNG-IDEN	7	0.010"	CONTINUOUS	Ceiling: Identification Notation		
	A-CLNG-METL	120	0.007"	CONTINUOUS	Ceiling Material: Metal	x	
	A-CLNG-OPEN	10	0.007"	CONTINUOUS	Ceiling: Openings		
	A-CLNG-OUTL	92	0.014"	CONTINUOUS	Ceiling: Outline	x	
	A-CLNG-PATT	10	0.007"	CONTINUOUS	Ceiling: Pattern		
	A-CLNG-PATT-SC30	230-239			Ceiling Pattern: Screened	x	
	A-CLNG-SUSP	50	0.007"	CONTINUOUS	Ceiling: Suspended Elements, Soffits, Bulkheads		
	A-CLNG-XCON	11	0.010"	CONTINUOUS	Ceiling:Exposed Concrete	x	
	A-CLNG-XSTR	30	0.007"	CONTINUOUS	Ceiling: Exposed Structure	x	
Architectural - FLOOR PLAN							
	A-COLS-PILA	1	0.010"	CONTINUOUS	Architectural Columns And Pilasters		
	A-CONV	6	0.004"	CONTINUOUS	Conveying Systems		
	A-BLDG-OUTL	3	0.020"	CONTINUOUS	Building Outline	x	
	A-FLOR-CASE-LOWR	10	0.007"	CONTINUOUS	Floor: Casework: Lower Elements		
	A-FLOR-CASE-UPPR	10	0.007"	DASHED2	Floor: Casework: Upper Elements		

DISCIPLINE GROUP	LAYER NAME	AutoCAD COLOR	WEIGHT (INCHES)	LINE TYPE	DESCRIPTION	Rev. 1 Mods	Rev. 2 Mods
	A-FLOR-CASE-IDEN	7	0.010"	CONTINUOUS	Floor: Casework Identification		
	A-FLOR-EVTR	6	0.004"	DASHED2	Floor: Elevator		
	A-FLOR-HID2	6	0.004"	HIDDEN2	Floor: Hidden Elements		x
	A-FLOR-HRAL	30	0.007"	CONTINUOUS	Floor: Handrails/Guardrails		
	A-FLOR-IDEN	7	0.010"	CONTINUOUS	Floor: Identification		
	A-FLOR-LEVL	10	0.007"	CONTINUOUS	Floor: Level Changes, Ramps, Pits, Depressions		
	A-FLOR-OTLN	3	0.020"	CONTINUOUS	Floor: Outline		
	A-FLOR-OVHD	1	0.010"	HIDDEN2	Floor: Overhead (Objects Above)		
	A-FLOR-OPNX	1	0.010"	CONTINUOUS	Openings		
	A-FLOR-QRAL	10	0.007"	CONTINUOUS	Queue Rails		
	A-FLOR-PATT	6	0.004"	CONTINUOUS	Floor: Pattern		
	A-FLOR-PATT-SC30	230-239	Varies	CONTINUOUS	Floor: Pattern - 30% Screened		
	A-FLOR-PATT-SC15	240-249	Varies	CONTINUOUS	Floor: Pattern - 15% Screened		
	A-FLOR-RAIS	10	0.007"	CONTINUOUS	Floor: Raised Floor		
	A-FLOR-RMNA	1	0.010"	CONTINUOUS	Floor: Room Name		x
	A-FLOR-RMNO	51	0.010"	CONTINUOUS	Floor: Room Number		x
	A-FLOR-RMSF	151	0.010"	CONTINUOUS	Floor: Room Square Footage		x
	A-FLOR-SIGN	2	0.014"	CONTINUOUS	Floor: Signs		
	A-FLOR-SPCL	1	0.010"	CONTINUOUS	Floor:Specialties (Toilet Room Accessories, Display Cases)		
	A-FLOR-STRS	10	0.007"	CONTINUOUS	Floor: Stair Treads/Escalators/Ladders		
	A-FLOR-TPTN	140	0.007"	CONTINUOUS	Floor: Toilet Partitions		
	A-PRKG-FIXT	10	0.007"	CONTINUOUS	Building Parking: Wheel Stops		
	A-PRKG-MRKG	10	0.007"	CONTINUOUS	Building Parking: Pavement Markings		
	A-PRKG-SIGN	10	0.007"	CONTINUOUS	Building Parking: Signs, H.C. Signs		
	A-PRKG-STRP	10	0.007"	CONTINUOUS	Building Parking : Striping		
	A-DOOR	91	0.010"	CONTINUOUS	Doors		
	A-DOOR-SILL	6	0.004"	CONTINUOUS	Door Sill		
	A-DOOR-IDEN	7	0.010"	CONTINUOUS	Door Identification		
	A-DOOR-GLAZ	10	0.007"	CONTINUOUS	Door Glazing		
	A-GLAZ	10	0.007"	CONTINUOUS	Glazing		
	A-GLAZ-ASSM	10	0.007"	CONTINUOUS	Glazing Assemblies		
	A-GLAZ-FULL	1	0.010"	CONTINUOUS	Glazing: Full Height		
	A-GLAZ-IDEN	7	0.010"	CONTINUOUS	Glazing: Identification Notation		
	A-GLAZ-MULL	60	0.007"	CONTINUOUS	Glazing: Mullions and Window Jambs		
	A-GLAZ-SILL	6	0.004"	CONTINUOUS	Glazing: Sill		
	A-GLAZ-TREA	9	0.004"	CONTINUOUS	Glazing: Window Treatments		
	A-WALL-CHAS	7	0.010"	CONTINUOUS	Wall: Chase Opening		
	A-WALL-CMUN	32	0.014"	CONTINUOUS	Wall: Non-Load Bearing: Concrete Masonry Units		
	A-WALL-COMP	6	0.004"	CONTINUOUS	Wall: Components in walls - Studs		
	A-WALL-FIRE-1HOR	8	0.014"	CENTER2	Wall: Fire Rated: 1 Hour (3" Thick Polyline)		
	A-WALL-FIRE-2HOR	8	0.014"	PHANTOM2	Wall: Fire Rated: 2 Hours (3" Thick Polyline)		
	A-WALL-FIRE-3HOR	8	0.014"	BORDER2	Wall: Fire Rated: 3 Hours (3" Thick Polyl;Ine)		
	A-WALL-FIRE-4HOR	8	0.014"	DASHED2	Wall: Fire Rated: 4 Hours (3" Thick Polyline)		
	A-WALL-FIRE-PATT	6	0.004"	CONTINUOUS	Wall: Fire Rated: Patterning		
	A-WALL-FNSH	6	0.004"	CONTINUOUS	Wall: Finishes		
	A-WALL-FULL	52	0.014"	CONTINUOUS	Wall: Full Height		
	A-WALL-GYPB	1	0.010"	CONTINUOUS	Wall: Gypsum Board		
	A-WALL-HEAD	1	0.010"	CONTINUOUS	Wall: Headers		
	A-WALL-IDEN	7	0.010"	CONTINUOUS	Wall: Identification		
	A-WALL-JAMB	2	0.014"	CONTINUOUS	Wall: Jambs		
	A-WALL-MOVE	10	0.007"	CONTINUOUS	Wall: Movable		
	A-WALL-MTPL	31	0.010"	CONTINUOUS	Curtain Wall: Metal Panel		
	A-WALL-OPEN	7	0.010"	CONTINUOUS	Wall: Opening		
	A-WALL-PATT	9	0.004"	CONTINUOUS	Wall: Patterns - Insulation		
	A-WALL-PCST	62	0.014"	CONTINUOUS	Curtain Wall: Precast		
	A-WALL-PRHT	1	0.010"	CONTINUOUS	Wall: Partial Height		
	A-WALL-PROT	10	0.007"	CONTINUOUS	Wall: Protection: Corner Guards, Bumpers		
	A-WALL-SMOK	1	0.010"	DOT2	Wall: Smoke Barrier (3" Thick Polyline)		
	A-WALL-VENR	10	0.007"	CONTINUOUS	Wall: Veneer		
Architectural - ROOF PLAN							
	A-ROOF	1	0.010"	CONTINUOUS	Roof		
	A-ROOF-LEVL	71	0.010"	CONTINUOUS	Roof: Level Changes		
	A-ROOF-OTLN	3	0.020"	CONTINUOUS	Roof: Outline		
	A-ROOF-PATT	90	0.007"	CONTINUOUS	Roof: Pattern		
	A-ROOF-PRHT	91	0.010"	CONTINUOUS	Roof: Parapets And Low Walls		
	A-ROOF-SURF	71	0.010"	CONTINUOUS	Roof: Surface Items: Hatches, Downspous, Gutters, Cants		
	A-ROOF-IDEN	7	0.010"	CONTINUOUS	Roof: Notes	x	
Architectural - FURN/EQUIP PLAN							
	A-ARTW	1	0.010"	CONTINUOUS	Artwork		
	A-ARTW-IDEN	7	0.010"	CONTINUOUS	Artwork: Identification Notation		
	A-EQPM	6	0.004"	CONTINUOUS	Equipment		
	A-EQPM-IDEN	7	0.010"	CONTINUOUS	Equipment: Identification Notation		
	A-EQPM-NICN	9	0.004"	DASHED2	Equipment - Not In Contract		
	A-EQPM-MOVE	6	0.004"	HIDDEN2	Equipment: Movable		
	A-EQPM-OVHD	10	0.007"	DASHED2	Equipment: Overhead		
	A-FENCE	10	0.007"	FENCE-X	Architectural Fences (Draw With Line With X's)		
	A-FIRE-EXTH	1	0.010"	CONTINUOUS	Fire Extinguishes And Fire Extinguisher Cabinets		

DISCIPLINE GROUP	LAYER NAME	AutoCAD COLOR	WEIGHT (INCHES)	LINE TYPE	DESCRIPTION	Rev. 1 Mods	Rev. 2 Mods
	A-FIXT-CWRP	1	0.010"	CONTINUOUS	Fixture: Cash Wraps		
	A-FIXT-IDEN	7	0.010"	CONTINUOUS	Fixture: Identification Notation		
	A-FIXT-LOSE	21	0.010"	CONTINUOUS	Fixture: Loose Display		
	A-FIXT-NRCA	91	0.010"	CONTINUOUS	Fixture: Non-Refrigerated Cases		
	A-FIXT-PERT	131	0.010"	CONTINUOUS	Fixture: Perimeter Display Cases		
	A-FIXT-RCAS	161	0.010"	CONTINUOUS	Fixture: Refrigerated Cases		
	A-FIXT-SCAS	191	0.010"	CONTINUOUS	Fixture: Showcases		
	A-FIXT-SHLV	10	0.007"	CONTINUOUS	Fixture: Shelving		
	A-FIXT-VALN	6	0.004"	DASHED2	Fixture: Valances		
	A-FURN	140	0.007"	CONTINUOUS	Furniture		
	A-FURN-FILE	140	0.007"	CONTINUOUS	Furniture: Files		
	A-FURN-FREE	140	0.007"	CONTINUOUS	Furniture: Freestanding		
	A-FURN-IDEN	7	0.010"	CONTINUOUS	Furniture: Identification		
	A-FURN-PATT	9	0.004"	CONTINUOUS	Furniture: Finish Patterns		
	A-FURN-PLNT	81	0.010"	CONTINUOUS	Furniture: Plants		
	A-FURN-PLNT-IDEN	7	0.010"	CONTINUOUS	Furniture: Plants: Identification Notation		
	A-FURN-PNLS	6	0.004"	CONTINUOUS	Furniture: System Panels		
	A-FURN-POWR	70	0.007"	CONTINUOUS	Furniture: Power		
	A-FURN-RUGS	6	0.004"	CONTINUOUS	Furniture: Rugs		
	A-FURN-STOR	191	0.010"	CONTINUOUS	Furniture: Storage Systems Component		
	A-FURN-SEAT	130	0.007"	CONTINUOUS	Furniture: Seating, Chairs		
	A-FURN-WKSF	140	0.007"	CONTINUOUS	Furniture: Work Surface Component		
Structural							
Modifier	S-XXXX-ABLT	1	0.010"	CONTINUOUS	Any Major Group: Anchor Bolts		
Modifier	S-XXXX-GRAT	150	0.007"	CONTINUOUS	Any Major Group: Grates		
Modifier	S-XXXX-METL	10	0.007"	CONTINUOUS	Any Major Group: Miscellaneous Metals		
Modifier	S-XXXX-RBAR	4	0.028"	CONTINUOUS	Any Major Group: Reinforcing Bar		
	S-BEAM	4	0.028"	CONTINUOUS	Beams		
	S-BEAM-ALUM	154	0.028"	CONTINUOUS	Beams: Aluminum		
	S-BEAM-CONC	44	0.028"	CONTINUOUS	Beams: Concrete		
	S-BEAM-GLWD	14	0.028"	CONTINUOUS	Beams: Glue Laminated Wood		
	S-BEAM-HEAD-WOOD	4	0.028"	CONTINUOUS	Wood Beams, Headers		
	S-BEAM-PCST	134	0.028"	CONTINUOUS	Beams: Precast		
	S-BEAM-STEL	4	0.028"	CONTINUOUS	Beams: Steel		
	S-BEAM-WOOD	94	0.028"	CONTINUOUS	Beams: Wood		
	S-BRAC	3	0.020"	CONTINUOUS	Bracing		
	S-BRAC-ALUM	2	0.014"	CONTINUOUS	Bracing: Aluminum		
	S-BRAC-ALUM-HORZ	2	0.014"	DASHED2	Bracing: Aluminum: Horizontal		
	S-BRAC-ALUM-VERT	2	0.014"	CONTINUOUS	Bracing: Aluminum: Vertical		
	S-BRAC-STEL	143	0.020"	CONTINUOUS	Bracing: Steel		
	S-BRAC-STEL-HORZ	143	0.020"	DASHED2	Bracing: Steel: Horizontal		
	S-BRAC-STEL-VERT	143	0.020"	CONTINUOUS	Bracing: Steel: Vertical		
	S-BRAC-WOOD	3	0.020"	CONTINUOUS	Bracing: Wood		
	S-BRAC-WOOD-HORZ	3	0.020"	CONTINUOUS	Bracing: Wood: Horizontal		
	S-BRAC-WOOD-VERT	3	0.020"	CONTINUOUS	Bracing: Wood: Vertical		
	S-COLS	143	0.020"	CONTINUOUS	Columns		
	S-COLS-BELW	10	0.007"	HIDDEN2	Columns Below Floor Plane		
	S-COLS-ALUM	153	0.020"	CONTINUOUS	Columns: Aluminum		
	S-COLS-CONC	63	0.020"	CONTINUOUS	Columns: Concrete		
	S-COLS-PCST	23	0.020"	CONTINUOUS	Columns:Precast Concrete		
	S-COLS-STEL	153	0.020"	CONTINUOUS	Columns: Steel		
	S-COLS-WOOD	13	0.020"	CONTINUOUS	Columns: Wood		
	S-DECK	1	0.010"	CONTINUOUS	Structural Deck		
	S-DECK-FLOR	1	0.010"	CONTINUOUS	Structural Deck: Floor		
	S-DECK-FLOR-OPNG	7	0.010"	CONTINUOUS	Structural Deck: Floor: Openings And Depressions		
	S-DECK-ROOF	1	0.010"	CONTINUOUS	Structural Deck: Roof		
	S-DECK-ROOF-OPNG	1	0.010"	CONTINUOUS	Structural Deck: Roof: Openings And Depressions		
	S-FLOR-JOIS-CONC	133	0.020"	CENTER2	Floor Joists: Concrete		
	S-FLOR-JOIS-STEL	122	0.014"	CENTER2	Floor Joists: Steel		
	S-FLOR-JOIS-WOOD	72	0.014"	CENTER2	Floor Joists: Wood		
	S-FNDN	3	0.020"	DASHED2	Foundation		
	S-FNDN-COL	10	0.007"	CONTINUOUS	Foundation: Columns	x	
	S-FNDN-FTNG	53	0.020"	DASHED2	Foundation: Footings		
	S-FNDN-GRBM	83	0.020"	DASHED2	Foundation: Grade Beams		
	S-FNDN-PCAP	133	0.020"	DASHED2	Foundation: Pile Caps		
	S-FNDN-PDST	13	0.020"	CONTINUOUS	Foundation: Concrete Pedestals	x	
	S-FNDN-PIER	33	0.020"	DASHED2	Foundation:Drilled Piers		
	S-FNDN-PILE	143	0.020"	DASHED2	Foundation: Piles		
	S-FNDN-RBAR	113	0.020"	CONTINUOUS	Foundation: Reinforcing		
	S-GRDR-CONC	3	0.020"	DASHED2	Girders: Concrete		
	S-GRDR-STEL	4	0.028"	CONTINUOUS	Girders: Steel		
	S-GRID	10	0.007"	CENTER2	Column Grid		
	S-GRID-IDEN	7	0.010"	CONTINUOUS	Column Grid: Identification Bubbles		
	S-GRID-EXTR	1	0.010"	CENTER2	Column Grid: Exterior Columns		
	S-GRID-INTR	9	0.004"	CENTER2	Column Grid: Interior Columns		
	S-HNGR-BELW	2	0.014"	CONTINUOUS	Hangers below Framing	x	

DISCIPLINE GROUP	LAYER NAME	AutoCAD COLOR	WEIGHT (INCHES)	LINE TYPE	DESCRIPTION	Rev. 1 Mods	Rev. 2 Mods
	S-JNTS	2	0.014"	CONTINUOUS	Joints		
	S-JNTS-CNTJ	52	0.014"	CONTINUOUS	Joints: Construction		
	S-JNTS-CTLJ	72	0.014"	CONTINUOUS	Joints: Control		
	S-JNTS-EXPJ	22	0.014"	CONTINUOUS	Joints: Expansion		
	S-JOIS	12	0.014"	CONTINUOUS	Joists		
	S-JOIS-CONC	72	0.014"	CENTER2	Joists: Concrete		
	S-JOIS-STEL	152	0.014"	CENTER2	Joists: Steel		
	S-JOIS-BRGX	131	0.010"	CONTINUOUS	Joists: Bridging		
	S-PADS-CONC	4	0.028"	CONTINUOUS	Concrete Pads For Mechanical Equipment		
	S-PATT	8	0.014"	CONTINUOUS	Structural: Pattern		
	S-PLWD	2	0.014"	CONTINUOUS	Plywood Sheating		
	S-PURL-STEL	153	0.020"	CONTINUOUS	Purlins: Steel		
	S-PURL-WOOD	3	0.020"	CONTINUOUS	Purlins: Wood		
	S-RAFT-WOOD	82	0.014"	CONTINUOUS	Rafters: Wood		
	S-ROOF-OTLN	1	0.010"	CONTINUOUS	Roof: Outline		
	S-SLAB	2	0.014"	CONTINUOUS	Slab		
	S-SLAB-CONC	122	0.014"	CONTINUOUS	Slab: Concrete		
	S-SLAB-CURB	123	0.020"	CONTINUOUS	Slab: Curbs	x	
	S-SLAB-DROP	12	0.014"	CONTINUOUS	Slab: Drops (not depressions)	x	
	S-SLAB-EDGE	52	0.014"	CONTINUOUS	Slab: Edge Of Slab		
	S-SLAB-OPNG	32	0.014"	CONTINUOUS	Slab: Openings And Depressions		
	S-SLAB-OPNX	20	0.007"	CENTER2	Slab: Opening Indication ("X")		
	S-SLAB-STEL	132	0.014"	CONTINUOUS	Slab: Steel		
	S-SLAB-WOOD	141	0.010"	CONTINUOUS	Slab: Wood		
	S-STRS	121	0.010"	CONTINUOUS	Stairs		
	S-STRS-CONC	1	0.010"	CONTINUOUS	Stairs: Concrete		
	S-STRS-LADD	71	0.010"	CONTINUOUS	Stairs: Ladders & Ladder Assemblies		
	S-STRS-STEL	153	0.020"	CONTINUOUS	Stairs: Steel		
	S-STRS-WOOD	141	0.010"	CONTINUOUS	Stairs: Wood		
	S-TRUS	3	0.020"	CONTINUOUS	Trusses		
	S-TRUS-STEL	153	0.020"	CONTINUOUS	Trusses: Steel		
	S-TRUS-WOOD	3	0.020"	CONTINUOUS	Trusses: Wood		
	S-WALL	111	0.010"	CONTINUOUS	Walls		
	S-WALL-BFOG	132	0.014"	HIDDEN2	Walls: Below Floor Or Grade		
	S-WALL-CMUW	12	0.014"	CONTINUOUS	Walls: Load Bearing: Concrete Masonry Unit		
	S-WALL-CONC	3	0.020"	CONTINUOUS	Walls: Cast-In-Place Concrete		
	S-WALL-MSNW	133	0.020"	CONTINUOUS	Walls: Masonry		
	S-WALL-PCST	92	0.014"	CONTINUOUS	Walls: Pre-Cast Concrete		
	S-WALL-SHEA	73	0.020"	CONTINUOUS	Walls: Shear		
	S-WALL-SHEA-CMUW	43	0.020"	CONTINUOUS	Walls: Shear: Concrete Masonry Unit		
	S-WALL-SHEA-CONC	153	0.020"	CONTINUOUS	Walls: Shear: Concrete		
	S-WALL-SHEA-WOOD	13	0.020"	CONTINUOUS	Walls: Shear: Wood		
	S-WALL-STEL	52	0.014"	CONTINUOUS	Walls: Light Gage Steel Studs		
	S-WALL-WOOD	133	0.020"	CONTINUOUS	Walls: Wood		
Mechanical							
	M-BRIN-EQPM	123	0.020"	CONTINUOUS	Brine Systems: Equipment	x	
	M-BRIN-PIPE	2	0.014"	CONTINUOUS	Brine Systems: Piping		
	M-CDFF-ARCH	3	0.020"	CONTINUOUS	Architectural Ceiling Diffuser Reference Layer		
	M-CHIM	3	0.020"	CONTINUOUS	Chimney, Stacks, And Flues		
	M-CHIM-DBLD	33	0.020"	CONTINUOUS	Chimney, Stacks, And Flues		
	M-CNDW-EQPM	153	0.020"	CONTINUOUS	Condenser Water Systems: Equipment	x	
	M-CNDW-PIPE	112	0.014"	CONTINUOUS	Condenser Water Systems: Piping	x	
	M-CNDW-RPIP	52	0.014"	CONTINUOUS	Condenser Water Systems: Return Piping	x	
	M-CNDW-SPIP	112	0.014"	CONTINUOUS	Condenser Water Systems: Supply Piping	x	
	M-CONT-EQPM	143	0.020"	CONTINUOUS	Controls And Instrumentation		
	M-CONT-THER	2	0.014"	CONTINUOUS	Controls And Instrumentation: Stats		
	M-CONT-WIRE	1	0.010"	HIDDEN2	Controls And Instrumentation: Low Voltage Wiring		
	M-CWTR-EQPM	3	0.020"	CONTINUOUS	Chilled Water Systems: Equipment		
	M-CWTR-PIPE	152	0.014"	CONTINUOUS	Chilled Water Systems: Piping		
	M-CWTR-RPIP	132	0.014"	CONTINUOUS	Chilled Water Systems: Return Piping		
	M-CWTR-SPIP	152	0.014"	CONTINUOUS	Chilled Water Systems: Supply Piping	x	
	M-DAMP-MANU	4	0.028"	CONTINUOUS	Manual Volume Damper		
	M-DAMP-MOTO	2	0.014"	CONTINUOUS	Motorized Damper		
	M-DUST-DUCT	23	0.020"	CONTINUOUS	Dust And Fume Collection Systems: Ductwork		
	M-DUST-DUCT-DBLD	23	0.020"	CONTINUOUS	Dust And Fume Collection Systems: Double Line Ductwork		
	M-DUST-EQPM	103	0.020"	CONTINUOUS	Dust And Fume Collection Systems: Equipment	x	
	M-ELHT-EQPM	23	0.020"	CONTINUOUS	Electrical Heat: Equipment	x	

DISCIPLINE GROUP	LAYER NAME	AutoCAD COLOR	WEIGHT (INCHES)	LINE TYPE	DESCRIPTION	Rev. 1 Mods	Rev. 2 Mods
	M-ENER-EQPM	133	0.020"	CONTINUOUS	Energy Management Systems:Equipment	x	
	M-ENER-WIRE	1	0.010"	HIDDEN2	Energy Management Systems: Wiring		
	M-EQPM-COND	2	0.014"	CONTINUOUS	Equipment: Condensate Drain		
	M-EQPM-EXPO	3	0.020"	CONTINUOUS	Equipment: Exposed		
	M-EQPM-EXST	2	0.014"	HIDDEN2	Equipment: Existing		
	M-EQPM-GRAD	3	0.020"	CONTINUOUS	Equipment: Grade		
	M-EQPM-HID2	3	0.020"	HIDDEN2	Equipment: Hidden		x
	M-EQPM-ROOF	3	0.020"	CONTINUOUS	Equipment: Roof		
	M-EXHS-CDFF	52	0.014"	CONTINUOUS	Exhaust System: Ceiling Diffusers		x
	M-EXHS-DUCT	65	0.039"	CONTINUOUS	Exhaust System: Ductwork		
	M-EXHS-DUCT-DBLD	63	0.020"	CONTINUOUS	Exhaust System: Double Line Ductwork		
	M-EXHS-EQPM	63	0.020"	CONTINUOUS	Exhaust System: Equipment	x	
	M-EXHS-RFEQ	73	0.020"	CONTINUOUS	Exhaust System: Rooftop Quipment	x	
	M-FUEL-EQPM	153	0.020"	CONTINUOUS	Fuel Systems: Equipment	x	
	M-FUEL-GPIP	33	0.020"	CONTINUOUS	Fuel Systems: Gas Piping		
	M-FUEL-OPIP	133	0.020"	CONTINUOUS	Fuel Systems: Oil Piping		
	M-LGAS-EQPM	183	0.020"	CONTINUOUS	Laboratory Gas Systems: Equipment	x	
	M-LGAS-PIPE	83	0.020"	CONTINUOUS	Laboratory Gas Systems: Piping		
	M-FUME-DUCT	133	0.020"	CONTINUOUS	Fume Hood: Duct	x	
	M-FUME-EQPM	143	0.020"	CONTINUOUS	Fume Hood: Equipment	x	
	M-HOTW-EQPM	3	0.020"	CONTINUOUS	Hot Water Heating System: Equipment		
	M-HOTW-PIPE	12	0.014"	CONTINUOUS	Hot Water Heating System: Piping		
	M-HOTW-RPIP	222	0.014"	CONTINUOUS	Hot Water Heating System: Return Piping		
	M-HOTW-SPIP	12	0.014"	CONTINUOUS	Hot Water Heating System: Supply Piping		
	M-HVAC-DOOR	1	0.010"	CONTINUOUS	Hvac Systems: Equipment Doors		
	M-HVAC-EQPM	3	0.020"	CONTINUOUS	Hvac Systems; Equipment		
	M-HVAC-EXPO	43	0.020"	CONTINUOUS	Hvac Systems: Exposed Ductwork		
	M-HVAC-EXPO-DBLD	43	0.020"	CONTINUOUS	Hvac Systems: Double Line Exposed Ductwork		x
	M-HVAC-FLEX	3	0.020"	CONTINUOUS	Hvac Systems: Flexible Ductwork		
	M-HVAC-FLOW	1	0.010"	CONTINUOUS	Hvac Systems: Flow Arrows		
	M-HVAC-HID2	115	0.039"	HIDDEN2	Hvac Systems: Hidden Ductwork		x
	M-HVAC-HID2-DBLD	113	0.020"	HIDDEN2	Hvac Systems: Double Line Hidden Ductwork		x
	M-HVAC-LINE	2	0.014"	HIDDEN2	Hvac Systems: Lined Ductwork		
	M-HVAC-RDFF	142	0.014"	CONTINUOUS	Hvac Systems: Return Ceiling Diffusers		
	M-HVAC-RETN	2	0.014"	CONTINUOUS	Hvac Systems: Return Ductwork		
	M-HVAC-RETN-DBLD	13	0.020"	CONTINUOUS	Hvac Systems: Double Line Return Ductwork		
	M-HVAC-SDFF	42	0.014"	CONTINUOUS	Hvac Systems: Supply Celing Diffusers		
	M-HVAC-SUPP	3	0.020"	CONTINUOUS	Hvac Systems: Supply Ductwork		x
	M-HVAC-SUPP-DBLD	153	0.020"	CONTINUOUS	Hvac Systems: Double Line Supply Ductwork		
	M-MECH-BKGD	251	0.014"	CONTINUOUS	Mechanical Background		
	M-MECH-DEMO	6	0.004"	CONTINUOUS	Mechanical:General Demo		x
	M-MKUP-CDFF	2	0.014"	CONTINUOUS	Make-Up/Outside Air Systems: Ceiling Diffusers		
	M-MKUP-DUCT	3	0.020"	CONTINUOUS	Make-Up/Outside Air Systems: Supply Ductwork		x
	M-MKUP-DUCT-DBLD	123	0.020"	CONTINUOUS	Make-Up/Outside Air Systems: Double Line Supply Ductwork		
	M-MKUP-EQPM	3	0.020"	CONTINUOUS	Make-Up/Outside Air Systems: Equipment		
	M-NGAS-EQPM	2	0.014"	CONTINUOUS	Natural Gas: Equipment		
	M-NGAS-PIPE	83	0.020"	CONTINUOUS	Natural Gas: Piping		
	M-PIPE-FITT	2	0.014"	CONTINUOUS	Pipe Fittings And Valves		
	M-PROC-EQPM	153	0.020"	CONTINUOUS	Process Systems: Equipment	x	
	M-PROC-PIPE	132	0.014"	CONTINUOUS	Process Systems: Piping		
	M-RAIR-EQPM	3	0.020"	CONTINUOUS	Relief Air Systems:Equipment		
	M-RCOV-EQPM	103	0.020"	CONTINUOUS	Energy Recovery Systems: Equipment	x	
	M-RCOV-PIPE	2	0.014"	CONTINUOUS	Energy Recovery Systems: Piping		
	M-REFG-EQPM	83	0.020"	CONTINUOUS	Refrigeration Systems: Equipment	x	
	M-REFG-PIPE	2	0.014"	CONTINUOUS	Refrigeration Systems: Piping		
	M-SMOK-CDFF	2	0.014"	CONTINUOUS	Smoke Exhaust Systems: Ceiling Diffusers		
	M-SMOK-DUCT	3	0.020"	CONTINUOUS	Smoke Exhaust Systems: Ductwork		x
	M-SMOK-DUCT-DBLD	53	0.020"	CONTINUOUS	Smoke Exhaust Systems: Double Line Ductwork		
	M-SMOK-EQPM	143	0.020"	CONTINUOUS	Smoke Exhaust Systems: Equipment	x	
	M-SPCL-EQPM	3	0.020"	CONTINUOUS	Special Systems: Equipment		
	M-SPCL-PIPE	2	0.014"	CONTINUOUS	Special Systems: Piping		
	M-STEM-COND	2	0.014"	CONTINUOUS	Steam Systems: Condensate Piping		
	M-STEM-EQPM	3	0.020"	CONTINUOUS	Steam Systems: Equipment		
	M-STEM-HPIP	22	0.014"	CONTINUOUS	Steam Systems: High Pressure Steam Piping		
	M-STEM-LPIP	12	0.014"	CONTINUOUS	Steam Systems: Low Pressure Steam Piping		
	M-STEM-MPIP	32	0.014"	CONTINUOUS	Steam Systems: Medium Pressure Steam Piping		
Plumbing							
	P-ACID-PIPE	83	0.020"	CONTINUOUS	Acid Waste Systems: Piping		

DISCIPLINE GROUP	LAYER NAME	AutoCAD COLOR	WEIGHT (INCHES)	LINE TYPE	DESCRIPTION	Rev. 1 Mods	Rev. 2 Mods
	P-CMPA-EQPM	2	0.014"	CONTINUOUS	Compressed Air Systems:Equipment	x	
	P-CMPA-PIPE	23	0.020"	CONTINUOUS	Compressed Air Systems:Piping	x	
	P-DOMW	3	0.020"	CONTINUOUS	Domestic water systems	x	x
	P-DOMW-CPIP	143	0.020"	CW	Domestic Water Systems	x	
	P-DOMW-EQPM	2	0.014"	CONTINUOUS	Domestic Water Systems: Cold Water Piping	x	
	P-DOMW-FITT	2	0.014"	CONTINUOUS	Domestic water systems: fittings	x	
	P-DOMW-HPIP	13	0.020"	HW	Domestic Water Systems: Equipment	x	
	P-DOMW-RISR	13	0.020"	CONTINUOUS	Domestic water systems: hot and cold water risers	x	
	P-DOMW-RPIP	53	0.020"	HWR	Domestic Water Systems: Hot Water Piping	x	
	P-FIRE	7	0.010	CONTINUOUS	Fire Systems Piping		x
						x	
	P-MDGS-CAIR	33	0.020"	CONTINUOUS	Medical Gas: Compressed Air	x	
	P-MDGS-EQPM	2	0.014"	CONTINUOUS	Medical Gas: Equipment	x	
	P-MDGS-NITG	13	0.020"	CONTINUOUS	Medical Gas: Nitrogen	x	
	P-MDGS-NOXG	183	0.020"	CONTINUOUS	Medical Gas: Nitrous Oxide	x	
	P-MDGS-OXYG	83	0.020"	CONTINUOUS	Medical Gas: Pure O2	x	
	P-MDGS-PIPE	133	0.020"	CONTINUOUS	Medical Gas: Piping		
	P-MDGS-SAIR	93	0.020"	CONTINUOUS	Medical Gas: Scavenge Air	x	
	P-MDGS-VACU	53	0.020"	CONTINUOUS	Medical Gas: Medical Vacuum	x	
	P-NGAS-CAIR	73	0.020"	CONTINUOUS		x	
	P-NGAS-FITT	3	0.020"	CONTINUOUS	Natural gas: Fittings	x	
	P-NGAS-EQPM	2	0.014"	CONTINUOUS	Natural gas: equipment	x	
	P-NGAS-NITG	13	0.020"	CONTINUOUS		x	
	P-NGAS-NOXG	183	0.020"	CONTINUOUS		x	
	P-NGAS-OXYG	33	0.020"	CONTINUOUS		x	
	P-NGAS-PIPE	3	0.020"	CONTINUOUS	Natural gas: piping	x	x
	P-NGAS-SAIR	93	0.020"	CONTINUOUS		x	
	P-NGAS-VACU	53	0.020"	CONTINUOUS		x	
	P-NGAS-RISR	12	0.014"	CONTINUOUS	Natural gas: Riser Diagrams	x	
	P-PIPE-FITT	2	0.014"	CONTINUOUS	Pipe fittings	x	
	P-SANR-PIPE-BELO	214	0.028"	DASHED2	Sanitary Drainage Systems: Piping Below		x
	P-SANR-PIPE-ABVE	214	0.028"	DASHED2	Sanitary Drainage Systems: Piping Above		x
	P-SANR-FIXT	2	0.014"	CONTINUOUS	Sanitary Drainage Systems: Fixtures		
	P-SANR-FLDR	43	0.020"	CONTINUOUS	Sanitary Drainage Systems: Floor Drains		
	P-SANR-EQPM	2	0.014"	CONTINUOUS	Sanitary Drainage Systems: Equipment		
	P-SANR-RISR	3	0.020"	CONTINUOUS	Sanitary Drainage Systems: Risers		
	P-SANR-VENT	2	0.014"	DASHED	Sanitary Drainage Systems: Vent		x
	P-STRM-PIPE-BELO	214	0.028"	WASTE	Storm Drain Systems: Piping Below		x
	P-STRM-PIPE-ABVE	214	0.028"	CONTINUOUS	Storm Drain Systems: Piping Above		x
	P-STRM-RFDR	63	0.020"	CONTINUOUS	Storm Drain Systems: Roof Drains		
	P-STRM-RISR	63	0.020"	CONTINUOUS	Storm Drain Systems: Risers		
Fire Protection							
	F-AFFF	22	0.014"	CONTINUOUS	Aqueous Film Forming Foam System		
	F-AFFF-EQPM	2	0.014"	CONTINUOUS	Aqueous Film Forming Foam: Equipment		
	F-AFFF-PIPE	23	0.020"	CONTINUOUS	Aqueous Film Forming Foam : Piping		
	F-CO2S	32	0.014"	CONTINUOUS	Co2 System		
	F-CO2S-EQPM	2	0.014"	CONTINUOUS	Co2 System:Equipment		
	F-CO2S-PIPE	33	0.020"	CONTINUOUS	Co2 System: Piping		
	F-HALN	42	0.014"	CONTINUOUS	Halon System		
	F-HALN-EQPM	2	0.014"	CONTINUOUS	Halon System:Equipment		
	F-HALN-PIPE	43	0.020"	CONTINUOUS	Halon System: Piping		
	F-IGAS	52	0.014"	CONTINUOUS	Inert Gas System		
	F-IGAS-EQPM	2	0.014"	CONTINUOUS	Inert Gas System: Equipment		
	F-IGAS-PIPE	53	0.020"	CONTINUOUS	Inert Gas System: Piping		
	F-PROT	62	0.014"	CONTINUOUS	Fire Protection System		
	F-PROT-ALRM	132	0.014"	CONTINUOUS	Fire Protection System: Alarm		
	F-PROT-EQPM	2	0.014"	CONTINUOUS	Fire Protection System: Equipment		
	F-PROT-SMOK	12	0.014"	CONTINUOUS	Fire Protection System: Smoke Detectors		
	F-PROT-STAN	63	0.020"	CONTINUOUS	Fire Protection System: Standpipe		
	F-SPRN	72	0.014"	CONTINUOUS	Sprinkler Systems		
	F-SPRN-CLHD	2	0.014"	CONTINUOUS	Sprinkler Systems: Ceiling Heads		
	F-SPRN-OTHD	12	0.014"	CONTINUOUS	Sprinkler Systems: Other Heads		
	F-SPRN-PIPE	13	0.020"	CONTINUOUS	Sprinkler Systems: Piping		
	F-SPRN-STAN	73	0.020"	CONTINUOUS	Sprinkler Systems: Standpipe		
	F-SPRN-ZONE	141	0.010"	CONTINUOUS	Sprinkler Systems: Zones - Polyline with 3/32" width	x	
Electrical							
	E-XXXX-1LIN	3	0.020"	CONTINUOUS	Any Major Group: Single Line Diagrams		
	E-XXXX-RISR	3	0.020"	CONTINUOUS	Any Mayor Group: Riser Diagrams		
	E-ALRM	3	0.020"	CONTINUOUS	Alarm System		
	E-AUXL	113	0.020"	CONTINUOUS	Auxiliary And Miscellaneous Systems		
	E-BUSW-1LIN	33	0.020"	CONTINUOUS	Busways: Single Line Diagrams		
	E-CCTV	93	0.020"	CONTINUOUS	Closed-Circuit Television System		
	E-CDEQ	103	0.020"	CONTINUOUS	Control Diagram Wiring And Symbols		

DISCIPLINE GROUP	LAYER NAME	AutoCAD COLOR	WEIGHT (INCHES)	LINE TYPE	DESCRIPTION	Rev. 1 Mods	Rev. 2 Mods
	E-COMM	3	0.020"	CONTINUOUS	Telephones, Communication Outlets		
	E-CTRL-DEVC	73	0.020"	CONTINUOUS	Electrical Control Systems		
	E-DATA	3	0.020"	CONTINUOUS	Data Outlets		
	E-EQPM-1LIN	43	0.020"	CONTINUOUS	Equipment: Single Line Diagrams		
	E-FEED-1LIN	53	0.020"	CONTINUOUS	Feeders: Single Line Diagrams		
	E-FIRE	13	0.020"	CONTINUOUS	Fire Alarm Devices		
	E-FIRE-1LIN	13	0.020"	CONTINUOUS	Fire Alarm Riser	x	
	E-FIRE-ANNO	132	0.014"	CONTINUOUS	Fire Alarm Devices: Annotation	x	
	E-FIRE-CIRC	143	0.020"	CONTINUOUS	Fire Alarm Devices: Circuits	x	
	E-FIRE-CLNG	23	0.020"	CONTINUOUS	Fire Alarm Devices: Ceiling Mounted		
	E-FIRE-DEVC	43	0.020"	CONTINUOUS	Fire Alarm Device	x	
	E-FIRE-RISR	13	0.020"	CONTINUOUS	Fire Alarm Devices: Riser diagrams	x	
	E-FIRE-WALL	33	0.020"	CONTINUOUS	Fire Alarm Devices: Wall Mounted		
	E-FIRE-ZONE	43	0.020"	HIDDEN2	Fire Alarm: Zones		
	E-CIRC	3	0.020"		Circuiting and Jboxes	x	
	E-CIRC-EMER	3	0.020"		Emergency Circuiting	x	
	E-LITE	3	0.020"	CONTINUOUS	Lighting		
	E-LITE-CIRC-NUMB	51	0.010"	CONTINUOUS	Lighting: Circuits: Number		
	E-LITE-CLNG	83	0.020"	CONTINUOUS	Lighting: Ceiling Mounted Fixtures		
	E-LITE-DEMO	52	0.014"	HIDDEN2	Lighting: Work To Be Demolished		
	E-LITE-EMER-C	33	0.020"	CONTINUOUS	Lighting: Emergency: Ceiling Mounted Fixtures		
	E-LITE-EMER-W	73	0.020"	CONTINUOUS	Lighting: Emergency: Wall Mounted Fixtures		
	E-LITE-EQPM	123	0.020"	CONTINUOUS	Lighting: Equipment		
	E-LITE-EXIT-C	13	0.020"	CONTINUOUS	Lighting: Exit: Ceiling Mounted Fixtures		
	E-LITE-EXIT-W	23	0.020"	CONTINUOUS	Lighting: Exit: Wall Mounted Fixtures		
	E-LITE-EXTR	93	0.020"	CONTINUOUS	Lighting: Exterior And Site Fixtures		
	E-LITE-IDEN	31	0.010"	CONTINUOUS	Lighting: Fixture Identification Notation		
	E-LITE-PANL	133	0.020"	CONTINUOUS	Lighting: Panels		
	E-LITE-RELO	52	0.014"	CONTINUOUS	Lighting: Work To Be Relocated		
	E-LITE-SPCL	163	0.020"	CONTINUOUS	Lighting: Special Floor Fixtures		
	E-LITE-SWCH	73	0.020"	CONTINUOUS	Lighting: Switches And Control Devices		
	E-LITE-WALL	103	0.020"	CONTINUOUS	Lighting: Wall Mounted Fixtures		
	E-LNTG	3	0.020"	DASHED2	Lightning Protection System		
	E-POWR	3	0.020"	CONTINUOUS	Power: Receptacles & Devices		
	E-POWR-CABL	23	0.020"	CONTINUOUS	Power: Cables Trays		
	E-POWR-CIRC-NUMB	53	0.020"	CONTINUOUS	Power: Circuits: Number		
	E-POWR-DCBK	3	0.020"	CONTINUOUS	Power: Duct Banks		
	E-POWR-DEMO	32	0.014"	HIDDEN2	Power: Work To Be Demolished		
	E-POWR-EQPM	133	0.020"	CONTINUOUS	Power: Equipment		
	E-POWR-FEED	23	0.020"	CONTINUOUS	Power: Feeders		
	E-POWR-FLOR	3			Device in Floor		
	E-POWR-PANL	153	0.020"	CONTINUOUS	Power: Panels		
	E-POWR-RISR	53	0.020"	CONTINUOUS	Power:Riser diagrams	x	
	E-POWR-SWBD	13	0.020"	CONTINUOUS	Power: Switchboards		
	E-POWR-URAC	23	0.020"	DASHED2	Power: Under Floor Raceways		
	E-SERT	3	0.020"	CONTINUOUS	Security Systems		
	E-SITE	3	0.020"	CONTINUOUS	Site		
	E-SITE-UNDR	103	0.020"	DASHED2	Site: Underground Lines		
	E-SITE-POLE	53	0.020"	CONTINUOUS	Site: Electric Poles		
	E-SITE-OVHD	113	0.020"	CENTER2	Site: Overhead Lines		
	E-SITE-EQPM	133	0.020"	CONTINUOUS	SITE: TRANSFORMERS, GENERATORS	x	
	E-SITE-GRND	3	0.020"	CONTINUOUS	SITE: GROUND RODS, EQUIPMENT, CONDUCT.	x	
	E-TVAN	3	0.020"	CONTINUOUS	Television Antenna System		
Telecommunications							
	T-XXXX-1LIN	9	0.004"	CONTINUOUS	Any Major Group: Single-Line Diagrams		
	T-XXXX-RISR	9	0.004"	CONTINUOUS	Any Major Gorup: Riser Diagrams		
	T-CABL	3	0.020"	ISO8W100	Cable Systems		
	T-CABL-COAX	3	0.020"	ISO10W100	Cable Systems: Coaxial Cable		
	T-CABL-EQPM	3	0.020"	CONTINUOUS	Cable Systems: Equipment		
	T-CABL-FIBR-MM	3	0.020"	ISO13W100	Cable Systems: Fiber Optic Cable Multimode	x	
	T-CABL-FIBR-SM	3	0.020"	ISO12W100	Cable Systems: Fiber Optic Cable Singlemode	x	
	T-CABL-MISC	3	0.020"	ISO8W100	Cable Systems: Hybrid/Miscellaneous Cable	x	
	T-CABL-MULT	3	0.020"	ISO6W100	Cable Systems: Multi-Conductor Cable		
	T-CABL-TRAY	3	0.020"	ISO2W100	Cable Systems: Cable Ray And Wireway		
	T-DROP	4	0.028"	CONTINUOUS	Data/Telephone Drops	x	
	T-DROP-24	4	0.028"	CONTINUOUS	Data/Telephone Drops 1/2"=1'-0"	x	
	T-DROP-48	4	0.028"	CONTINUOUS	Data/Telephone Drops 1/4"=1'-0"	x	
	T-DROP-96	4	0.028"	CONTINUOUS	Data/Telephone Drops 1/8"=1'-0"	x	
	T-DROP-ANNO-24	1	0.010"	CONTINUOUS	Data/Telephone Drops Attributes 1/2"=1'-0"	x	
	T-DROP-ANNO-48	1	0.010"	CONTINUOUS	Data/Telephone Drops Attributes 1/4"=1'-0"	x	
	T-DROP-ANNO-96	1	0.010"	CONTINUOUS	Data/Telephone Drops Attributes 1/8"=1'-0"	x	
	T-EQPM	2	0.014"	CONTINUOUS	Equipment	x	
	T-EQPM-CATV	2	0.014"	CONTINUOUS	Equipment Cable Television Systems	x	
	T-EQPM-ELEV	2	0.014"	CONTINUOUS	Equipment Elevation Views	x	

DISCIPLINE GROUP	LAYER NAME	AutoCAD COLOR	WEIGHT (INCHES)	LINE TYPE	DESCRIPTION	Rev. 1 Mods	Rev. 2 Mods
	T-EQPM-ANTE	2	0.014"	CONTINUOUS	Equipment Rf/Dss/Hf/Vhf/Uhf Antennas	x	
	T-EQPM-MCLK	2	0.014"	CONTINUOUS	Equiment Master Clock	x	
	T-EQPM-PAGE	2	0.014"	CONTINUOUS	Equipment Public Address	x	
	T-EQPM-TELE	2	0.014"	CONTINUOUS	Equipment Telephone/Pbx	x	
	T-EQPM-OTHR	2	0.014"	CONTINUOUS	Equipment Other	x	
	T-SITE	2	0.014"	CONTINUOUS	Site Plan	x	
	T-SITE-UNDR	4	0.028"	ISO3W100	Site Plan - Underground	x	
	T-SITE-POLE	4	0.028"	ISO4W100	Site Plan - Pole	x	
	T-SITE-OVHD	4	0.028"	ISO5W100	Site Plan - Overhead	x	
	T-CALC	1	0.010"	CONTINUOUS	Calculations	x	
	T-ZONE	5	0.039"	CONTINUOUS	Zone	x	
	T-ZONE-SVCS	5	0.039"	CONTINUOUS	Zoned Service Area	x	
	T-ZONE-MTCH	5	0.039"	CONTINUOUS	Zoned Match-Line	x	
Security							
	TY-ACCS-CARD	2	0.014"	CONTINUOUS	Access Control System: Card Operated		
	TY-ACCS-COND	2	0.014"	CONTINUOUS	Access Control System: Conduit		
	TY-ACCSS-DOOR	2	0.014"	CONTINUOUS	Access Control Systems: Door Control		
	TY-ALRM	2	0.014"	CONTINUOUS	Alarm System		
	TY-ALRM-1LIN	2	0.014"	CONTINUOUS	Alarm System: Single-Line Diagrams		
	TY-ALRM-DURS	2	0.014"	CONTINUOUS	Alarm System: Duress Alarm		
	TY-ALRM-EQPM	2	0.014"	CONTINUOUS	Alarm System: Control Equipment, Consoles, Racks, Etc.		
	TY-ALRM-IDEN	7	0.010"	CONTINUOUS	Alarm System: Identification Notation		
	TY-ALRM-RISR	2	0.014"	CONTINUOUS	Alarm System: Riser Diagrams		
	TY-CCTV	2	0.014"	CONTINUOUS	Closed-Circuit Television System		
	TY-NURS	2	0.014"	CONTINUOUS	Nurse Call System		
	TY-POWR	2	0.014"	CONTINUOUS	Power Conduit		

Drafting Symbols

Sheet Borders