

# DSS Design and Construction CAD Standards

## For Filing Drawings and Layer Assignments

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### to start a new project

Using 'My Computer' create a new Folder on the G Drive under the Building No.  
Name the new Folder as follows:  
***BLDG NO. / YEAR / DSS PROJECT NO. / PROJECT TITLE***  
**103 1995 YAB514 EXTERIOR RENOVATIONS**

### to start a new drawing

Under 'File→New' select 'Use a Template'. select 'Browse'.  
Name G:\Building\DSGNSHAR\Autocad2004 Standards\Templates  
Select the Template for the related discipline: A, M or E and open.  
Save the new Drawing in the new Folder:  
***BLDG. NO. / Y.NO. / SHEET NO. / DRAWING TITLE***  
**103 YAB514 A-01 ELEVATIONS, PLANS & DETAILS.DWG**

### to set text style

'Under 'Format→Text Style'  
Select 'New'. Create a new 'Style Name': Stylus  
Under Font Name select: **Stylus BT**  
Height of Text is to be: **0**

### to set plot style

Under 'Plot→Plot Device→Plot Style Table' select DSS 02.feb.14.

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All drawings are to be created using SI (metric) units  
All drawings are to be drawn in millimeters  
All drawing in model space is to be at 1:1  
All working drawings are to be prepared on a B1 sheet in Paper Space.  
Plot scale for Paper Space is 1:1

#### **New 2004 Set-Up**

Copy DSS Plot Style Table (**DSS 02.feb.14.ctb**) into:  
C:/Program Files/Autocad2002/Plot Styles  
Under 'Tools Options Files Automatic Save Folder' set to C:/acad backup

**CAD Standards**

**Layering Guidelines**

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The CAD Layering Standards are based on AIA Standards (Computer-Aided Design Management Techniques for Architecture, Engineering and Facility Management, published by the American Institute of Architects Press).

Layer Name	Description	Pen (Colour)	Line
<b>A-Anno</b>	<b>Annotations</b>	7 (white)	Continuous
<b>A-Anno-Dims</b>	Dimensions	7 (white)	Continuous
<b>A-Anno-Keyn</b>	Keynotes	7 (white)	Continuous
<b>A-Anno-Legn</b>	Legends & Schedules	7 (white)	Continuous
<b>A-Anno-Note</b>	Notes	7 (white)	Continuous
<b>A-Anno-Nplt</b>	Non-Plotting Information	40 (orange)	Continuous
<b>A-Anno-Revs</b>	Revisions	21 (flesh)	Continuous
<b>A-Anno-Symb</b>	Symbols & Cross Referencing	3 (green)	Continuous
<b>A-Anno-Text</b>	Text	7 (white)	Continuous
<b>A-Anno-Ttlb</b>	Border and Title Blocks	3 (green)	Continuous
<b>A-Area</b>	<b>Area Calculation Boundary Lines</b>	<b>51 (yellow)</b>	<b>Continuous</b>
<b>A-Area-Patt</b>	Area Cross Hatching	varies	Continuous
<b>A-Area-Iden</b>	Rm No's, Tenant ID, Area Calculations	7 (white)	Continuous
<b>A-Area-Occp</b>	Occupant or Employee Names	7 (white)	Continuous
<b>A-Clng</b>	Ceiling Information	7 (white)	Continuous
<b>A-Clng-Accs</b>	Ceiling Access	1 (red)	Continuous
<b>A-Clng-Grid</b>	Ceiling Grid	3 (green)	Centre
<b>A-Clng-Open</b>	Ceiling/Roof Penetrations	1 (red)	Continuous
<b>A-Clng-Patt</b>	Ceiling Patterns	5 (blue)	Continuous
<b>A-Clng-Susp</b>	Suspended Elements	4 (cyan)	Continuous
<b>A-Clng-Tees</b>	Main Tees	4 (cyan)	Continuous
<b>A-Clng-Text</b>	Text Notes, Ceiling Height	7 (white)	Continuous
<b>A-Cols</b>	Columns	1 (red)	Continuous
<b>A-Detl</b>	<b>Details</b>	1 (red)	Continuous
<b>A-Detl-Mcut</b>	Material cut by Section	3 (green)	Continuous
<b>A-Detl-Mbnd</b>	Material beyond Section Cut	4 (cyan)	Continuous
<b>A-Detl-Patt</b>	Textures and Hatch Patterns	5 (blue)	Continuous
<b>A-Detl-Iden</b>	Component Identification Numbers	7 (white)	Continuous
<b>A-Door</b>	<b>Doors</b>	4 (cyan)	Continuous
<b>A-Door-Full</b>	Full Height Door: Swing and Leaf	4 (cyan)	Continuous
<b>A-Door-Iden</b>	Door Number and Tag	7 (white)	Continuous
<b>A-Door-Prht</b>	Partial Height Door: Swing and Leaf	5 (blue)	Continuous

Layer Name	Description	Pen (Colour)	Line
<b>A-Elev</b>	Elevations	1 (red)	Continuous
<b>A-Elev-Case</b>	Casework	1 (red)	Continuous
<b>A-Elev-Dims</b>	Dimensions	7 (white)	Continuous
<b>A-Elev-Fixt</b>	Miscellaneous Fixtures	1 (red)	Continuous
<b>A-Elev-Fnsh</b>	Finishes, Woodwork and Trim	4 (cyan)	Continuous
<b>A-Elev-Iden</b>	Component Identification Numbers	7 (white)	Continuous
<b>A-Elev-Note</b>	Notes	7 (white)	Continuous
<b>A-Elev-Otln</b>	Object Outlines	1 (red)	Continuous
<b>A-Elev-Otln-Xbld</b>	Object Outlines	2 (yellow)	Continuous
<b>A-Elev-Otln-Bold</b>	Object Outlines	3 (green)	Continuous
<b>A-Elev-Otln-Medm</b>	Object Outlines	1 (red)	Continuous
<b>A-Elev-Otln-Fine</b>	Object Outlines	4 (cyan)	Continuous
<b>A-Elev-Otln-Xfne</b>	Object Outlines	5 (blue)	Continuous
<b>A-Elev-Otln-Xxfn</b>	Object Outlines	11 (pink)	Continuous
<b>A-Elev-Otln-Dash</b>	Object Outlines	1 (red)	Dashed
<b>A-Elev-Pfix</b>	Plumbing Fixtures in Elevation	5 (blue)	Continuous
<b>A-Elev-Sign</b>	Signage	7 (white)	Continuous
<b>A-Elev-Symb</b>	Symbols, Bubbles and Targets	3 (green)	Continuous
<b>A-Elev-Text</b>	Text	7 (white)	Continuous
<b>A-Eqpm</b>	<b>Equipment</b>	5 (blue)	Continuous
<b>A-Eqpm-Clng</b>	Ceiling Mounted or Suspended Equipment	5 (blue)	Continuous
<b>A-Eqpm-Fixd</b>	Fixed Equipment	5 (blue)	Continuous
<b>A-Eqpm-Iden</b>	Equipment Identification Numbers	5 (blue)	Continuous
<b>A-Eqpm-Move</b>	Movable Equipment	5 (blue)	Continuous
<b>A-Eqpm-Nicn</b>	Equipment not in Contract	5 (blue)	Continuous
<b>A-Flor</b>	<b>Floor Plan Information</b>	7 (white)	Continuous
<b>A-Flor-Case</b>	Casework (manufactured cabinets)	4 (cyan)	Continuous
<b>A-Flor-Evtr</b>	Elevator Cars and Equipment	4 (cyan)	Continuous
<b>A-Flor-Fixt</b>	Miscellaneous Fixtures	4 (cyan)	Continuous
<b>A-Flor-Hral</b>	Stair & Balcony Handrails & Guardrails	5 (blue)	Continuous
<b>A-Flor-Iden</b>	Room Numbers, Names and Tags	7 (white)	Continuous
<b>A-Flor-Levl</b>	Level Changes, Ramps, Pits & Depressions	4 (cyan)	Continuous
<b>A-Flor-Ovhd</b>	Overhead Items (skylights, overhangs, usually dashed lines)	4 (cyan)	Dashed
<b>A-Flor-Patt</b>	Paving, Tile and Carpet Patterns	5 (blue)	Continuous
<b>A-Flor-Pfix</b>	Plumbing Fixtures	5 (blue)	Continuous
<b>A-Flor-Rais</b>	Raised Floor	4 (cyan)	Continuous
<b>A-Flor-Sign</b>	Signage	7 (white)	Continuous
<b>A-Flor-Spcl</b>	Architectural Specialties (Toilet Rm., Accessories, Display Cases)	5 (blue)	Continuous
<b>A-Flor-Strs</b>	Stairs, Escalators and Ladders	4 (cyan)	Continuous
<b>A-Flor-Text</b>	Text & Millwork Labeling, Room Usage	7 (white)	Continuous
<b>A-Flor-Tptn</b>	Toilet Partitions	4 (cyan)	Continuous
<b>A-Flor-Wdwk</b>	Architectural Woodwork (field-built cabinets and counters)	4 (cyan)	Continuous

Layer Name	Description	Pen (Colour)	Line
<b>A-Furn</b>	<b>Furniture</b>	5 (blue)	Continuous
<b>A-Furn-Char</b>	Chairs and other Seating	5 (blue)	Continuous
<b>A-Furn-File</b>	File Cabinets	5 (blue)	Continuous
<b>A-Furn-Free</b>	Freestanding Furniture (desk, credenzas etc.)	5 (blue)	Continuous
<b>A-Furn-Iden</b>	Furniture Numbers	7 (white)	Continuous
<b>A-Furn-Plnt</b>	Plants	5 (blue)	Continuous
<b>A-Furn-Pnls</b>	Furniture System Panels	4 (cyan)	Continuous
<b>A-Furn-Patt</b>	Finish Patterns	5 (blue)	Continuous
<b>A-Furn-Powr</b>	Furniture System – Power Designations	7 (white)	Continuous
<b>A-Glaz</b>	<b>Windows, Window Walls, Curtain Walls and Glazed Partitions</b>	6 (magenta)	Continuous
<b>A-Glaz-Full</b>	Full Height Glazed Walls and Partitions	6 (magenta)	Continuous
<b>A-Glaz-Iden</b>	Window Number	7 (white)	Continuous
<b>A-Glaz-Prht</b>	Windows & Partial Height Glazed Partitions	4 (cyan)	Continuous
<b>A-Glaz-Sill</b>	Windowsills	4 (cyan)	Continuous
<b>A-Grid</b>	<b>Planning Grid or Column Grid</b>	3 (green)	Centre
<b>A-Lite</b>	Light Fixtures	1 (red)	Continuous
<b>A-Roof</b>	Roof	1 (red)	Continuous
<b>A-Roof-Hral</b>	Stair Handrails, Nosings and Guardrails	5 (blue)	Continuous
<b>A-Roof-Levl</b>	Level Changes	4 (cyan)	Continuous
<b>A-Roof-Patt</b>	Roofing Surface Patterns, Hatching	5 (blue)	Continuous
<b>A-Roof-Strs</b>	Roof Stairs and Treads	4 (cyan)	Continuous
<b>A-Schd</b>	Schedules and Tables of Text	3 (green)	Continuous
<b>A-Sect</b>	<b>Sections</b>	1 (red)	Continuous
<b>A-Sect-Mcut</b>	Material cut by Section	3 (green)	Continuous
<b>A-Sect-Mbnd</b>	Material beyond Section Cut	4 (cyan)	Continuous
<b>A-Sect-Patt</b>	Textures and Hatch Patterns	5 (blue)	Continuous
<b>A-Sect-Iden</b>	Component Identification Numbers	7 (white)	Continuous
<b>A-Shbd-Bloc</b>	Sheet Border and Title Block	3 (green)	Continuous
<b>A-Shbd-Text</b>	Text on Title Block	7 (white)	Continuous
<b>A-Shbd-Vprt</b>	Viewport	7 (white)	Continuous
<b>A-Wall-Full-Intr</b>	Full Hgt Intr Walls, Stairs & Shaft Walls	1 (red)	Continuous
<b>A-Wall-Full-Extr</b>	Full Height Exterior Walls	3 (green)	Continuous
<b>A-Wall-Full-Demo</b>	Full Height Walls to be Demolished	7 (white)	Continuous
<b>A-Wall-Full-Exst</b>	Full Height Existing Walls	6 (magenta)	Continuous
<b>A-Wall-Full-Neww</b>	Full Height New Walls	1 (red)	Continuous
<b>A-Wall-Head</b>	Door & Window Headers (appear on Reflected Ceiling Plans)	5 (blue)	Dashed
<b>A-Wall-Jamb</b>	Door and Window Jambs (appear on Reflected Ceiling Plans)	5 (blue)	Continuous
<b>A-Wall-Move</b>	Movable Partitions	4 (cyan)	Continuous
<b>A-Wall-Patt</b>	Wall Insulation, Hatching, Solids & Fill	5 (blue)	Continuous
<b>A-Wall-Prht</b>	Partial Hgt Intr Walls, Stairs & Shaft Walls (do not appear on Reflected Ceiling Plans)	4 (cyan)	Continuous

## Layering Guidelines : Civil : C

The CAD Layering Standards are based on AIA Standards (Computer-Aided Design Management Techniques for Architecture, Engineering and Facility Management, published by the American Institute of Architects Press).

Layer Name	Description	Pen (Colour)	Line
<b>C-Anno</b>	<b>Annotations</b>	7 (white)	Continuous
<b>C-Anno-Dims</b>	Dimensions	7 (white)	Continuous
<b>C-Anno-Keyn</b>	Keynotes	7 (white)	Continuous
<b>C-Anno-Legn</b>	Legends & Schedules	7 (white)	Continuous
<b>C-Anno-Note</b>	Notes	7 (white)	Continuous
<b>C-Anno-Nplt</b>	Non-Plotting Information	40 (orange)	Continuous
<b>C-Anno-Revs</b>	Revisions	21 (flesh)	Continuous
<b>C-Anno-Symb</b>	Symbols & Cross Referencing	3 (green)	Continuous
<b>C-Anno-Text</b>	Text	7 (white)	Continuous
<b>C-Anno-Ttlb</b>	Border and Title Blocks	3 (green)	Continuous
<b>C-Shbd-Bloc</b>	Sheet Border and Title Block	3 (green)	Continuous
<b>C-Shbd-Text</b>	Text on Title Block	2 (yellow)	Continuous
<b>C-Shbd-Vprt</b>	Viewport	7 (white)	Continuous
<b>C-Prop</b>	<b>Property Lines, Survey Benchmarks</b>	3 (green)	Centre
<b>C-Prop-Esmt</b>	Easements, Right-of-Way, Setback Lines	1 (red)	Continuous
<b>C-Prop-Brng</b>	Bearings & Distance Labels	7 (white)	Continuous
<b>C-Prop-Cons</b>	Construction Controls	1 (red)	Continuous
<b>C-Topo</b>	<b>Proposed Contour Lines &amp; Elevations</b>	1 (red)	Continuous
<b>C-Topo-Spot</b>	Spot Elevations	7 (white)	Continuous
<b>C-Topo-Bore</b>	Test Borings	1 (red)	Continuous
<b>C-Topo-Rtwl</b>	Retaining Walls	1 (red)	Continuous
<b>C-Bldg</b>	<b>Building Outline</b>	2 (yellow)	Continuous
<b>C-Pkng</b>	<b>Parking Lots</b>	1 (red)	Continuous
<b>C-Pkng-Strp</b>	Parking Lot Stripping, B-F Symbol	5 (blue)	Continuous
<b>C-Pkng-Cars</b>	Graphic Illustration of Cars	5 (blue)	Continuous
<b>C-Pkng-Isld</b>	Parking Islands	1 (red)	Continuous
<b>C-Pkng-Dran</b>	Parking Lot Drainage Slope Indications	4 (cyan)	Continuous
<b>C-Road</b>	<b>Roads</b>	1 (red)	Continuous
<b>C-Road-Cntr</b>	Centre Lines	4 (cyan)	Centre
<b>C-Road-Curb</b>	Curbs	1 (red)	Continuous
<b>C-Util-Strm</b>	<b>Storm Sewer</b>	3 (green)	Varies
<b>C-Util-Comm</b>	<b>Site Communications:</b> Poles, Towers etc.	3 (green)	Varies
<b>C-Util-Watr</b>	<b>Domestic Water:</b> Manholes, Pumping Stations and Storage Tanks	3 (green)	Varies
<b>C-Util-Fire</b>	<b>Fire Water</b>	3 (green)	Varies
<b>C-Util-Ngas</b>	<b>Natural Gas</b>	3 (green)	Varies
<b>C-Util-Sswr</b>	<b>Sanitary Sewer</b>	3 (green)	Varies

## Layering Guidelines : Electrical : E

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Layer Name	Description	Pen (Colour)	Line
<b>E-Anno</b>	<b>Annotations</b>	7 (white)	Continuous
<b>E-Anno-Dims</b>	Dimensions	7 (white)	Continuous
<b>E-Anno-Keyn</b>	Keynotes	7 (white)	Continuous
<b>E-Anno-Legn</b>	Legends & Schedules	7 (white)	Continuous
<b>E-Anno-Note</b>	Notes	7 (white)	Continuous
<b>E-Anno-Nplt</b>	Non-Plotting Information	40 (orange)	Continuous
<b>E-Anno-Revs</b>	Revisions	21 (flesh)	Continuous
<b>E-Anno-Symb</b>	Symbols & Cross Referencing	3 (green)	Continuous
<b>E-Anno-Text</b>	Text	7 (white)	Continuous
<b>E-Anno-Ttlb</b>	Border and Title Blocks	2 (yellow)	Continuous
<b>E-Shbd-Bloc</b>	Sheet Border and Title Block	3 (green)	Continuous
<b>E-Shbd-Text</b>	Text on Title Block	2 (yellow)	Continuous
<b>E-Shbd-Vprt</b>	Viewport	7 (white)	Continuous
<b>E-Lite</b>	<b>Lighting</b>	3 (green)	Continuous
<b>E-Lite-Spcl</b>	Special Lighting	3 (green)	Continuous
<b>E-Lite-Emer</b>	Emergency Lighting	3 (green)	Continuous
<b>E-Lite-Exit</b>	Exit Lighting	3 (green)	Continuous
<b>E-Lite-Clng</b>	Ceiling Mounted Lighting	3 (green)	Continuous
<b>E-Lite-Wall</b>	Wall Mounted Lighting	3 (green)	Continuous
<b>E-Lite-Flor</b>	Floor Mounted Lighting	3 (green)	Continuous
<b>E-Lite-Otln</b>	Lighting Outline for Background	3 (green)	Continuous
<b>E-Lite-Numb</b>	Lighting Circuit Numbers	3 (green)	Continuous
<b>E-Lite-Roof</b>	Roof Lighting	3 (green)	Continuous
<b>E-Lite-Site</b>	Site Lighting	3 (green)	Continuous
<b>E-Lite-Swch</b>	Lighting Switches	3 (green)	Continuous
<b>E-Lite-Circ</b>	Lighting Circuits	3 (green)	Continuous
<b>E-Lite-Iden</b>	Luminaire ID & Text	3 (green)	Continuous
<b>E-Lite-Jbox</b>	Special Lighting	3 (green)	Continuous
<b>E-Powr</b>	<b>Power</b>	3 (green)	Continuous
<b>E-Powr-Wall</b>	Power Wall Outlets & Receptacles	3 (green)	Continuous
<b>E-Powr-Clng</b>	Power Ceiling Receptacles & Devices	3 (green)	Continuous
<b>E-Powr-Panl</b>	Power Panels	3 (green)	Continuous
<b>E-Powr-Eqpm</b>	Power Equipment	3 (green)	Continuous
<b>E-Powr-Swbd</b>	Power Switchboards	3 (green)	Continuous
<b>E-Powr-Circ</b>	Power Circuits	3 (green)	Continuous
<b>E-Powr-Urac</b>	Under Floor Raceways	3 (green)	Dashed
<b>E-Powr-Ucpt</b>	Under Carpet Wiring	3 (green)	Continuous
<b>E-Powr-Cabl</b>	Cable Trays	3 (green)	Continuous
<b>E-Powr-Feed</b>	Feeders	3 (green)	Continuous
<b>E-Powr-Busw</b>	Busways	3 (green)	Continuous
<b>E-Powr-Numb</b>	Power Circuit Numbers	3 (green)	Continuous
<b>Layer Name</b>	<b>Description</b>	<b>Pen (Colour)</b>	<b>Line</b>

## Layering Guidelines : Electrical : E

Layer Name	Description	Pen (Colour)	Line
<b>E-Powr-Iden</b>	Power ID & Text	3 (green)	Continuous
<b>E-Powr-Site</b>	Site Power	3 (green)	Continuous
<b>E-Powr-Roof</b>	Roof Power	3 (green)	Continuous
<b>E-Powr-Otln</b>	Power Outlines for Backgrounds	3 (green)	Continuous
<b>E-Powr-Jbox</b>	Junction Box	3 (green)	Continuous
<b>E-Ctrl</b>	<b>Electric Control Systems</b>	3 (green)	Continuous
<b>E-Ctrl-Devc</b>	Control System Devices	3 (green)	Continuous
<b>E-Ctrl-Wire</b>	Control System Wiring	3 (green)	Continuous
<b>E-Grnd</b>	<b>Ground System</b>	3 (green)	Dashed
<b>E-Grnd-Circ</b>	Ground System Circuits	3 (green)	Dashed
<b>E-Grnd-Refr</b>	Reference Ground System	3 (green)	Dashed
<b>E-Grnd-Equi</b>	Equipotential Ground System	3 (green)	Dashed
<b>E-Grnd-Diag</b>	Ground System Diagram	3 (green)	Dashed
<b>E-Auxl</b>	Auxiliary System	3 (green)	Dashed
<b>E-Ltng</b>	Lighting Protection System	3 (green)	Dashed
<b>E-Fire</b>	Fire Alarm, Fire Extinguishers	3 (green)	Dashed
<b>E-Comm</b>	Telephone, Communication Outlets	3 (green)	Dashed
<b>E-Data</b>	Data Outlets	3 (green)	Dashed
<b>E-Soun</b>	Sound/PA System	3 (green)	Dashed
<b>E-Tvan</b>	TV Antenna System	3 (green)	Dashed
<b>E-Cctv</b>	Closed Circuit TV	3 (green)	Dashed
<b>E-Nurs</b>	Nurse Call System	3 (green)	Dashed
<b>E-Sert</b>	Security	3 (green)	Dashed
<b>E-Pgng</b>	Paging System	3 (green)	Dashed
<b>E-Dict</b>	Central Dictation System	3 (green)	Dashed
<b>E-Bell</b>	Bell System	3 (green)	Dashed
<b>E-Clok</b>	Clock System	3 (green)	Dashed
<b>E-Alrm</b>	Miscellaneous Alarm System	3 (green)	Dashed
<b>E-Intc</b>	Intercom System	3 (green)	Dashed
<b>E-Legn</b>	Legend of Symbols	3 (green)	Dashed
<b>E-1lin</b>	One-Line Diagrams	3 (green)	Dashed
<b>E-Risr</b>	Riser Diagram	3 (green)	Dashed
<b>E-Site</b>	<b>Site Electrical Substations, Poles</b>	3 (green)	Dashed
<b>E-Site-Lite</b>	Site Lighting	3 (green)	Dashed
<b>E-Site-Undr</b>	Underground Electrical Issues	3 (green)	Dashed
<b>E-Site-Pole</b>	Electric Poles	3 (green)	Dashed
<b>E-Site-Ovhd</b>	Overhead Lines	3 (green)	Dashed
<b>E-Wall</b>	<b>Wall</b>	27 (brown)	Continuous



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### Layering Guidelines : Fire Protection

Layer Name	Description	Pen (Colour)	Line
<b>F-Anno</b>	<b>Annotations</b>	7 (white)	Continuous
<b>F-Anno-Dims</b>	Dimensions	7 (white)	Continuous
<b>F-Anno-Keyn</b>	Keynotes	7 (white)	Continuous
<b>F-Anno-Legn</b>	Legends & Schedules	7 (white)	Continuous
<b>F-Anno-Note</b>	Notes	7 (white)	Continuous
<b>F-Anno-Nplt</b>	Non-Plotting Information	40 (orange)	Continuous
<b>F-Anno-Revs</b>	Symbols & Cross Referencing	3 (green)	Continuous
<b>F-Anno-Text</b>	Text	7 (white)	Continuous
<b>F-Anno-Ttlb</b>	Border and Title Blocks	3 (green)	Continuous
<b>F-Shbd-Bloc</b>	Sheet Border and Title Block	3 (green)	Continuous
<b>F-Shbd-Text</b>	Text on Title Block	2 (yellow)	Continuous
<b>F-Shbd-Vprt</b>	Viewport	7 (white)	Continuous
<b>F-Co2s</b>	<b>Co2 System</b>	1 (red)	Continuous
<b>F-Co2s-Pipe</b>	Co2 Sprinkler Piping	3 (green)	Continuous
<b>F-Co2s-Eqpm</b>	Co2 Equipment	1 (red)	Continuous
<b>F-Haln</b>	<b>Halon</b>	1 (red)	Continuous
<b>F-Haln-Eqpm</b>	Halon Equipment	1 (red)	Continuous
<b>F-Haln-Pipe</b>	Halon Piping	3 (green)	Continuous
<b>F-Igas</b>	<b>Inert Gas</b>	1 (red)	Continuous
<b>F-Igas-Eqpm</b>	Inert Gas Equipment	1 (red)	Continuous
<b>F-Igas-Pipe</b>	Inert Gas Piping	3 (green)	Continuous
<b>F-Sprn</b>	<b>Fire Protection Sprinkler System</b>	1 (red)	Continuous
<b>F-Sprn-Clhd</b>	Sprinkler Head – Ceiling	1 (red)	Continuous
<b>F-Sprn-0thd</b>	Sprinkler Head - Other	1 (red)	Continuous
<b>F-Sprn-Pipe</b>	Sprinkler Piping	1 (red)	Continuous
<b>F-Sprn-Stan</b>	Sprinkler System Standpipe	1 (red)	Continuous
<b>F-Stan</b>	<b>Fire Protection Standpipe System</b>	1 (red)	Continuous
<b>F-Prot</b>	<b>Fire Protection System</b>	1 (red)	Continuous
<b>F-Prot-Eqpm</b>	Fire System Equipment (FHC Extinguishers)	1 (red)	Continuous
<b>F-Prot-Alrm</b>	Fire Alarm	1 (red)	Continuous
<b>F-Prot-Smok</b>	Smoke Detectors/Heat Sensors	1 (red)	Continuous
<b>F-Wall</b>	<b>Wall</b>	27 (brown)	Continuous

## Layering Guidelines : General : **G**

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The CAD Layering Standards are based on AIA Standards (Computer-Aided Design Management Techniques for Architecture, Engineering and Facility Management, published by the American Institute of Architects Press).

### Layering Guidelines : General

Layer Name	Description	Pen (Colour)	Line
<b>G-Plan</b>	Floor Plan – Key Plan	5 (blue)	Continuous
<b>G-Site</b>	Site Plan – Key Plan	5 (blue)	Continuous
<b>G-Accs</b>	Access Plan	5 (blue)	Continuous
<b>G-Fire</b>	Fire Protection Plan	5 (blue)	Continuous
<b>G-Evac</b>	Evacuation Plan	5 (blue)	Continuous
<b>G-Code</b>	Code Compliance Plan	5 (blue)	Continuous

## Layering Guidelines : Hazardous Materials : **H**

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### Layering Guidelines : Hazardous Materials

## Layering Guidelines : Interiors : **I**

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### Layering Guidelines : Interiors : use Architectural Layers

## Layering Guidelines : Landscaping : L

The CAD Layering Standards are based on AIA Standards (Computer-Aided Design Management Techniques for Architecture, Engineering and Facility Management, published by the American Institute of Architects Press).

Layer Name	Description	Pen (Colour)	Line
<b>L-Anno</b>	<b>Annotations</b>	7 (white)	Continuous
<b>L-Anno-Dims</b>	Dimensions	7 (white)	Continuous
<b>L-Anno-Keyn</b>	Keynotes	7 (white)	Continuous
<b>L-Anno-Legn</b>	Legends & Schedules	7 (white)	Continuous
<b>L-Anno-Note</b>	Notes	7 (white)	Continuous
<b>L-Anno-Nplt</b>	Non-Plotting Information	40 (orange)	Continuous
<b>L-Anno-Revs</b>	Revisions	21 (flesh)	Continuous
<b>L-Anno-Symb</b>	Symbols & Cross Referencing	3 (green)	Continuous
<b>L-Anno-Text</b>	Text	7 (white)	Continuous
<b>L-Anno-Tflb</b>	Border and Title Blocks	3 (green)	Continuous
<b>L-Shbd-Bloc</b>	Sheet Border and Title Block	3 (green)	Continuous
<b>L-Shbd-Text</b>	Text on Title Block	2 (yellow)	Continuous
<b>L-Shbd-Vprt</b>	Viewport	7 (white)	Continuous
<b>L-Plnt</b>	<b>Plant and Landscape Materials</b>	1 (red)	Continuous
<b>L-Plnt-Tree</b>	New Trees	1 (red)	Continuous
<b>L-Plnt-Exst</b>	Existing Trees to Remain	4 (cyan)	Continuous
<b>L-Plnt-Demo</b>	Existing Trees to be Removed	1 (red)	Dashed
<b>L-Plnt-Grnd</b>	Grounds Covers and Vines	5 (blue)	Continuous
<b>L-Plnt-Beds</b>	Rock, Bark & other Landscaping Beds	1 (red)	Continuous
<b>L-Plnt-Turf</b>	Lawn Areas	1 (red)	Continuous
<b>L-Plnt-Plan</b>	Planting Plans	1 (red)	Continuous
<b>L-Irrg</b>	<b>Irrigation System</b>	1 (red)	Continuous
<b>L-Irrg-Spkl</b>	Irrigation Sprinklers	1 (red)	Continuous
<b>L-Irrg-Pipe</b>	Irrigation Piping	1 (red)	Dash Dot
<b>L-Irrg-Eqpt</b>	Irrigation Equipment	1 (red)	Continuous
<b>L-Irrg-Covr</b>	Irrigation Coverage	4 (cyan)	Continuous
<b>L-Walk</b>	<b>Walks and Steps</b>	7 (white)	Continuous
<b>L-Walk-Patt</b>	Walks and Steps Cross-Hatch Patterns	5 (blue)	Continuous
<b>L-Site</b>	<b>Site Improvements</b>	1 (red)	Continuous
<b>L-Site-Fenc</b>	Fencing	1 (red)	Border
<b>L-Site-Wall</b>	Walls	4 (cyan)	Continuous
<b>L-Site-Step</b>	Steps	4 (cyan)	Continuous
<b>L-Site-Deck</b>	Decks	4 (cyan)	Continuous
<b>L-Site-Brdg</b>	Bridges	4 (cyan)	Continuous
<b>L-Site-Pool</b>	Pools and Spas	4 (cyan)	Continuous
<b>L-Site-Sprt</b>	Sport Fields	4 (cyan)	Continuous
<b>L-Site-Play</b>	Play Structures	4 (cyan)	Continuous
<b>L-Site-Furn</b>	Site Furnishings	4 (cyan)	Continuous

## Layering Guidelines : Mechanical : M

The CAD Layering Standards are based on AIA Standards (Computer-Aided Design Management Techniques for Architecture, Engineering and Facility Management, published by the American Institute of Architects Press).

Layer Name	Description	Pen (Colour)	Line
<b>M-Anno</b>	<b>Annotations</b>	7 (white)	Continuous
<b>M-Anno-Dims</b>	Dimensions	7 (white)	Continuous
<b>M-Anno-Keyn</b>	Keynotes	7 (white)	Continuous
<b>M-Anno-Legn</b>	Legends & Schedules	7 (white)	Continuous
<b>M-Anno-Note</b>	Notes	7 (white)	Continuous
<b>M-Anno-Nplt</b>	Non-Plotting Information	40 (orange)	Continuous
<b>M-Anno-Revs</b>	Revisions	21 (flesh)	Continuous
<b>M-Anno-Symb</b>	Symbols & Cross Referencing	3 (green)	Continuous
<b>M-Anno-Text</b>	Text	7 (white)	Continuous
<b>M-Anno-Ttlb</b>	Border and Title Blocks	3 (green)	Continuous
<b>M-Shbd-Bloc</b>	Sheet Border and Title Block	3 (green)	Continuous
<b>M-Shbd-Text</b>	Text on Title Block	2 (yellow)	Continuous
<b>M-Shbd-Vprt</b>	Viewport	7 (white)	Continuous
<b>M-Brin</b>	<b>Brine Systems</b>	1 (red)	Continuous
<b>M-Brin-Eqpm</b>	Brine System Equipment	1 (red)	Continuous
<b>M-Brin-Pipe</b>	Brine System Piping	1 (red)	Continuous
<b>M-Chim</b>	<b>Prefabricated Chimney</b>	1 (red)	Continuous
<b>M-Cmpa</b>	<b>Compressed Air Systems</b>	1 (red)	Continuous
<b>M-Cmpa-Ceqp</b>	Compressed Air Equipment	6 (magenta)	Continuous
<b>M-Cmpa-Cpip</b>	Compressed Air Piping	1 (red)	Continuous
<b>M-Cmpa-Peqp</b>	Process Air Equipment	6 (magenta)	Continuous
<b>M-Cmpa-Ppip</b>	Process Air Piping	1 (red)	Continuous
<b>M-Cont</b>	<b>Controls and Instrumentation</b>	1 (red)	Continuous
<b>M-Cont-Ther</b>	Thermostats	7 (white)	Continuous
<b>M-Cont-Wire</b>	Low Voltage Wiring	4 (cyan)	Centre
<b>M-Dust</b>	<b>Dust and Fume Collection System</b>	1 (red)	Continuous
<b>M-Dust-Ther</b>	Dust and Fume Collection Equipment	6 (magenta)	Continuous
<b>M-Dust-Duct</b>	Dust and Fume Ductwork	1 (red)	Continuous
<b>M-Elht-Eqpm</b>	<b>Electric Heat Equipment</b>	1 (red)	Continuous
<b>M-Ener</b>	<b>Energy Management System</b>	1 (red)	Continuous
<b>M-Ener-Eqpm</b>	Energy Management Equipment	6 (magenta)	Continuous
<b>M-Ener-Wire</b>	Energy Management Wiring	1 (red)	Centre
<b>M-Rcov</b>	<b>Energy Recovery</b>	1 (red)	Continuous
<b>M-Rcov-Eqpm</b>	Energy Recovery Equipment	6 (magenta)	Continuous
<b>M-Rcov-Pipe</b>	Energy Recovery Piping	1 (red)	Continuous
Layer Name	Description	Pen (Colour)	Line
<b>M-Exhs</b>	<b>Exhaust System</b>	1 (red)	Continuous
<b>M-Exhs-Eqpm</b>	Exhaust System Equipment	6 (magenta)	Continuous
<b>M-Exhs-Duct</b>	Exhaust System Ductwork	1 (red)	Continuous

<b>M-Exhs-Rfeq</b>	Rooftop Exhaust Equipment	1 (red)	Continuous
<b>M-Fuel</b>	<b>Fuel System Piping</b>	1 (red)	Continuous
<b>M-Fuel-Gprp</b>	Fuel Gas Process Piping	1 (red)	Continuous
<b>M-Fuel-Ggep</b>	Fuel Gas General Piping	1 (red)	Continuous
<b>M-Fuel-Oprp</b>	Fuel Oil Process Piping	1 (red)	Continuous
<b>M-Fuel-Ogep</b>	Fuel Oil General Piping	1 (red)	Continuous
<b>M-Hvac</b>	<b>HVAC System</b>	1 (red)	Continuous
<b>M-Hvac-Cdff</b>	HVAC Ceiling Diffusers	1 (red)	Continuous
<b>M-Hvac-Odff</b>	HVAC other Diffusers	7 (white)	Continuous
<b>M-Hvac-Duct</b>	HVAC Ductwork	1 (red)	Continuous
<b>M-Hvac-Eqpm</b>	HVAC Equipment	6 (magenta)	Continuous
<b>M-Hvac-Sdff</b>	HVAC Supply Diffusers	1 (red)	Continuous
<b>M-Hvac-Rdff</b>	HVAC Return Air Diffusers	7 (white)	Continuous
<b>M-Hotw</b>	<b>Hot Water Heating System</b>	1 (red)	Continuous
<b>M-Hotw-Eqpm</b>	Hot Water Equipment	6 (magenta)	Continuous
<b>M-Hotw-Pipe</b>	Hot Water Piping	1 (red)	Continuous
<b>M-Cwtr</b>	<b>Chilled Water Systems</b>	1 (red)	Continuous
<b>M-Cwtr-EQPM</b>	Chilled Water Piping	7 (white)	Continuous
<b>M-Cwtr-PIPE</b>	Chilled Water Equipment	6 (magenta)	Continuous
<b>M-Mach</b>	<b>Machine Shop Equipment</b>	6 (magenta)	Continuous
<b>M-Mdgs</b>	<b>Medical Gas Systems</b>	1 (red)	Continuous
<b>M-Mdgs-Eqpm</b>	Medical Gas Equipment	1 (red)	Continuous
<b>M-Mdgs-Pipe</b>	Medical Gas Piping	1 (red)	Continuous
<b>M-Lgas</b>	<b>Laboratory Gas Systems</b>	1 (red)	Continuous
<b>M-Lgas-Eqpm</b>	Laboratory Gas Equipment	6 (magenta)	Continuous
<b>M-Lgas-Pipe</b>	Laboratory Gas Piping	1 (red)	Continuous
<b>M-Ngas</b>	<b>Natural Gas Systems</b>	1 (red)	Continuous
<b>M-Ngas-Eqpm</b>	Natural Gas Equipment	6 (magenta)	Continuous
<b>M-Ngas-Pipe</b>	Natural Gas Piping	1 (red)	Continuous
<b>M-Proc</b>	<b>Process Systems</b>	1 (red)	Continuous
<b>M-Proc-Eqpm</b>	Process Equipment	6 (magenta)	Continuous
<b>M-Proc-Pipe</b>	Process Piping	1 (red)	Continuous
<b>M-Refg</b>	<b>Refrigeration Systems</b>	1 (red)	Continuous
<b>M-Refg-Eqpm</b>	Refrigeration Equipment	6 (magenta)	Continuous
<b>M-Refg-Pipe</b>	Refrigeration Piping	1 (red)	Continuous

<b>Layer Name</b>	<b>Description</b>	<b>Pen (Colour)</b>	<b>Line</b>
<b>M-Spcl</b>	<b>Special Systems</b>	1 (red)	Continuous
<b>M-Spcl-EQPM</b>	Special Systems Equipment	6 (magenta)	Continuous
<b>M-Spcl-PIPE</b>	Special Systems Piping	1 (red)	Continuous
<b>M-Stem</b>	<b>Steam Systems</b>	1 (red)	Continuous
<b>M-Stem-Comp</b>	Steam Systems Condensate Piping	7 (white)	Hidden
<b>M-Stem-Eqpm</b>	Steam Systems Equipment	6 (magenta)	Continuous
<b>M-Stem-Lpip</b>	Low Pressure Steam Piping	1 (red)	Continuous
<b>M-Stem-Hpip</b>	High Pressure Steam Piping	1 (red)	Continuous
<b>M-Stem-Mpip</b>	Medium Pressure Steam Piping	1 (red)	Continuous
<b>M-Test</b>	<b>Test Equipment</b>	6 (magenta)	Continuous
<b>M-Wall</b>	<b>Wall</b>	27 (brown)	Continuous

## Layering Guidelines : Plumbing : P

The CAD Layering Standards are based on AIA Standards (Computer-Aided Design Management Techniques for Architecture, Engineering and Facility Management, published by the American Institute of Architects Press).

Layer Name	Description	Pen (Colour)	Line
<b>P-Anno</b>	<b>Annotations</b>	7 (white)	Continuous
<b>P-Anno-Dims</b>	Dimensions	7 (white)	Continuous
<b>P-Anno-Keyn</b>	Keynotes	7 (white)	Continuous
<b>P-Anno-Legn</b>	Legends & Schedules	7 (white)	Continuous
<b>P-Anno-Note</b>	Notes	7 (white)	Continuous
<b>P-Anno-Nplt</b>	Non-Plotting Information	40 (orange)	Continuous
<b>P-Anno-Revs</b>	Revisions	21 (flesh)	Continuous
<b>P-Anno-Symb</b>	Symbols & Cross Referencing	3 (green)	Continuous
<b>P-Anno-Text</b>	Text	7 (white)	Continuous
<b>P-Anno-Ttlb</b>	Border and Title Blocks	3 (green)	Continuous
<b>P-Shbd-Bloc</b>	Sheet Border and Title Block	3 (green)	Continuous
<b>P-Shbd-Text</b>	Text on Title Block	2 (yellow)	Continuous
<b>P-Shbd-Vprt</b>	Viewport	7 (white)	Continuous
<b>P-Acid</b>	<b>Acid, Alkaline, Oil Waste Systems</b>	1 (red)	Continuous
<b>P-Acid-Pipe</b>	Acid, Alkaline, Oil Waste Piping	1 (red)	Continuous
<b>P-Domw</b>	<b>Domestic Hot &amp; Cold Water Systems</b>	1 (red)	Continuous
<b>P-Domw-Eqpm</b>	Domestic Hot & Cold Water Equipment	1 (red)	Continuous
<b>P-Domw-Hpip</b>	Domestic Hot Water Piping	1 (red)	Continuous
<b>P-Domw-Cpip</b>	Domestic Cold Water Piping	7 (white)	Phantom
<b>P-Domw-Risr</b>	Domestic Hot & Cold Water Risers	5 (blue)	Centre
<b>P-Sanr</b>	<b>Sanitary Drainage</b>	1 (red)	Continuous
<b>P-Sanr-Pipe</b>	Sanitary Piping	1 (yellow)	Cont/Hidden
<b>P-Sanr-Fixt</b>	Plumbing Fixtures	6 (magenta)	Continuous
<b>P-Sanr-Fldr</b>	Floor Drains	1 (red)	Continuous
<b>P-Sanr-Risr</b>	Sanitary Risers	1 (red)	Continuous
<b>P-Sanr-Eqpm</b>	Sanitary Equipment	6 (magenta)	Continuous
<b>P-Strm</b>	<b>Storm Drainage System</b>	1 (red)	Continuous
<b>P-Strm-Pipe</b>	Storm Drain Piping	1 (yellow)	Cont/Hidden
<b>P-Strm-Risr</b>	Storm Drain Risers	1 (red)	Continuous
<b>P-Strm-Rfdr</b>	Roof Drains	1 (red)	Continuous
<b>P-Eqpm</b>	<b>Plumbing Miscellaneous Equipment</b>	6 (magenta)	Continuous
<b>P-Fixt</b>	<b>Plumbing Fixtures</b>	6 (magenta)	Continuous

## Layering Guidelines : Equipment : **Q**

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The CAD Layering Standards are based on AIA Standards (Computer-Aided Design Management Techniques for Architecture, Engineering and Facility Management, published by the American Institute of Architects Press).

### Layering Guidelines : Equipment

Layer Name	Description	Pen (Colour)	Line
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## Layering Guidelines : Resource : **R**

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### Layering Guidelines : Resources



The CAD Layering Standards are based on AIA Standards (Computer-Aided Design Management Techniques for Architecture, Engineering and Facility Management, published by the American Institute of Architects Press).

### Layering Guidelines : Structural

Layer Name	Description	Pen (Colour)	Line
<b>S-Anno</b>	<b>Annotations</b>	7 (white)	Continuous
<b>S-Anno-Dims</b>	Dimensions	7 (white)	Continuous
<b>S-Anno-Keyn</b>	Keynotes	7 (white)	Continuous
<b>S-Anno-Legn</b>	Legends & Schedules	7 (white)	Continuous
<b>S-Anno-Note</b>	Notes	7 (white)	Continuous
<b>S-Anno-Nplt</b>	Non-Plotting Information	40 (orange)	Continuous
<b>S-Anno-Revs</b>	Revisions	21 (flesh)	Continuous
<b>S-Anno-Symb</b>	Symbols & Cross Referencing	3 (green)	Continuous
<b>S-Anno-Text</b>	Text	7 (white)	Continuous
<b>S-Anno-Ttlb</b>	Border and Title Blocks	3 (green)	Continuous
<b>S-Shbd-Bloc</b>	Sheet Border and Title Block	3 (green)	Continuous
<b>S-Shbd-Text</b>	Text on Title Block	2 (yellow)	Continuous
<b>S-Shbd-Vprt</b>	Viewport	7 (white)	Continuous
<b>S-Grid</b>	<b>Column Grid</b>	3 (green)	Centre
<b>S-Grid-Extr</b>	Column Grid inside Building	3 (green)	Centre
<b>S-Grid-Dims</b>	Column Grid Dimensions	7 (white)	Continuous
<b>S-Grid-Iden</b>	Column Grid Tags	7 (white)	Continuous
<b>S-Fndn</b>	<b>Foundation</b>	3 (green)	Continuous
<b>S-Fndn-Pile</b>	Piles, Drilled Piers	3 (green)	Continuous
<b>S-Fndn-Rbar</b>	Foundation Reinforcing	1 (red)	Continuous
<b>S-Slab</b>	<b>Slab</b>	1 (red)	Continuous
<b>S-Slab-Edge</b>	Edge of Slab	1 (red)	Continuous
<b>S-Slab-Rbar</b>	Slab Reinforcing	1 (red)	Continuous
<b>S-Slab-Join</b>	Slab Control Joints	1 (red)	Dashed
<b>S-Ablt</b>	<b>Anchor Bolts</b>	1 (red)	Continuous
<b>S-Cols</b>	<b>Columns</b>	3 (green)	Continuous
<b>S-Wall</b>	<b>Structural Bearing or Shear Walls</b>	3 (green)	Continuous
<b>S-Metl</b>	<b>Miscellaneous Metal</b>	1 (red)	Continuous
<b>S-Beam</b>	<b>Beams</b>	3 (green)	Continuous
<b>S-Jois</b>	<b>Joists</b>	3 (green)	Continuous
<b>S-Deck</b>	<b>Structural Floor Deck</b>	1 (red)	Continuous

## Layering Guidelines : Structural : **S**

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The CAD Layering Standards are based on AIA Standards (Computer-Aided Design Management Techniques for Architecture, Engineering and Facility Management, published by the American Institute of Architects Press).

### Layering Guidelines : Telecommunications

Layer Name	Description	Pen (Colour)	Line
<b>T-Cabl</b>	<b>Cable Plan</b>	3 (green)	Dashed
<b>T-Eqpm</b>	<b>Equipment Plan</b>	3 (green)	Dashed
<b>T-Jack</b>	<b>Data/Telephone Jacks</b>	3 (green)	Dashed
<b>T-Diag</b>	<b>Diagram</b>	3 (green)	Dashed

## Layering Guidelines : Other Disciplines : **X**

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### Layering Guidelines : Other Disciplines

## Layering Guidelines : Contractor/Shop Drawings : **Z**

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### Layering Guidelines : Contractor/Shop Drawings