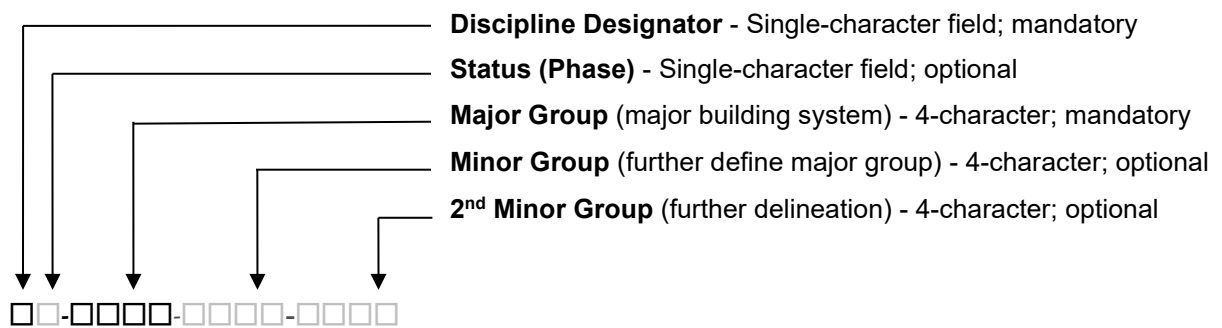


8.4.2 CAD Standard Appendix 2 - Layer Naming Convention

1. The layer naming convention is based on AIA CAD Layer Guidelines: U.S. National CAD Standard Version 3.1.
2. Any drawing object should be by layer and by colour.
3. Colours are based on using 1-UofC-Full.ctb and 1-UofC-Half.ctb for plotting.
4. Architectural and interior consultants need University's approval for any additional layers. Consultants of other disciplines can add additional layers as required as long as conforming the following layer name format.

8.4.2.1 Layer Name Format



8.4.2.2 Level 1 - Discipline Designator

Mandatory Discipline Designators

- A - Architectural and Interiors
- C - Civil Engineering and Site Work
- E - Electrical
- F - Fire Protection
- G - General
- L - Landscape
- M - Mechanical
- P - Plumbing
- Q - Equipment
- S - Structural

Optional Status (Phase)

- D - Existing to demolish
- E - Existing to remain
- F - Future work
- M - Items to be moved

N - New work
 T - Temporary work
 X - Not in contract
 1-9 - Phase numbers




8.4.2.3 Level 2 - Mandatory Major Group

A four-character field identifies a major building system. For example, the architectural major group contains walls, doors, floors, ceilings, furniture and equipment.

8.4.2.4 Level 3 - Minor Group

This is an optional, four-character field to further define the Major Groups.

8.4.2.5 Layer List – General (G)

Layer Name	Colour	Line Wt	Line Type	Description
Annotation / Title Blocks				
G-ANNO-DIMS	41	0.15	Continuous	Dimensions, spot elevations, vertical level labels To manipulate viewport display, it is allowed to add 2 nd minor group to differentiate various type (e.g. add -CLNG for ceiling dimension)
G-ANNO-GRPH	1 (Red)	0.15	Continuous	Graphics: people, vehicles
G-ANNO-MATC	2 (Yellow)	0.25	Continuous	Match line
G-ANNO-NOTE	92	0.25	Continuous	Texts notes, break marks, keynotes, legends, schedule graphics To manipulate viewport display, it is allowed to add 2 nd minor group to differentiate various type (e.g. add -FFAE for FF&E notes)
G-ANNO-NPLT	140	0.10	Continuous	Non-plot (cameras, etc.)
G-ANNO-OPEN	251 (Dark grey)	0.15	CENTER2	Open to below/above “X” indicator, shaft
G-ANNO-REVC	13	0.35	Continuous	Revision cloud
G-ANNO-REVC-IDEN	12	0.25	Continuous	Revision cloud: tags
G-ANNO-SYMB	134	0.45	Various	Elevation, section, callouts, reference lines
G-ANNO-TTLB	20	0.10	Continuous	Title block, view titles, north arrow
G-ANNO-TTLB-NPLT	140	0.10	Continuous	Title block non-plot items, excluding viewport
G-ANNO-TTLB-VIEW	7 (White)	0.75	Continuous	Title block viewport (non-plot)
G-INFO	7 (White)	0.75	HIDDEN2	Information (non-plot): Renovation project history
G-XREF	7 (White)	0.75	Continuous	External reference file (xref)
Presentation Colours				
G-CLOR-LRED	255, 105, 105			Colour: very light red
G-CLOR-DORA	255, 145, 105			Colour: dark orange
G-CLOR-LORA	255, 195, 105			Colour: very light orange

Layer Name	Colour	Line Wt	Line Type	Description
G-CLOR-LYLW	255, 255, 160			Colour: very light yellow
G-CLOR-LGRN	205, 255, 105			Colour: very light green
G-CLOR-MGRN	145, 255, 105			Colour: very light green
G-CLOR-LCYN	160, 235, 255			Colour: very light cyan
G-CLOR-LBLU	105, 180, 255			Colour: very light blue
G-CLOR-MBLU	105, 125, 255			Colour: dark blue
G-CLOR-DMAG	125, 85, 135			Colour: dark magenta
G-CLOR-LMAG	255, 105, 255			Colour: very light magenta
G-CLOR-LVIO	210, 185, 255			Colour: pale violet
G-CLOR-DCYN	65, 170, 165			Colour: dark moderate cyan
G-CLOR-DBLU	85, 120, 135			Colour: dark blue
G-CLOR-DGRN	85, 135, 90			Colour: dark lime green
G-CLOR-DYLW	135, 125, 85			Colour: dark yellow

8.4.2.6 Layer List – Line Works & Hatch Patterns for Elevation, Section & Detail

Layer Name	Colour	Line Wt	Line Type	Description
*-LINE-LW05	9 (Light grey)	0.05	Continuous	Line: pen size 0.05mm, base colour 9
*-LINE-LW10	10	0.10	Continuous	Line: pen size 0.10mm, base colour 10
*-LINE-LW13	8 (Dark grey)	0.13	Continuous	Line: pen size 0.13mm, base colour 8
*-LINE-LW15	1 (Red)	0.15	Continuous	Line: pen size 0.15mm, base colour 1
*-LINE-LW25	2 (Yellow)	0.25	Continuous	Line: pen size 0.25mm, base colour 2
*-LINE-LW35	3 (Green)	0.35	Continuous	Line: pen size 0.35mm, base colour 3
*-LINE-LW45	4 (Cyan)	0.45	Continuous	Line: pen size 0.45mm, base colour 4
*-LINE-LW65	6 (Magenta)	0.65	Continuous	Line: pen size 0.65mm, base colour 6
*-LINE-LW75	7 (White)	0.75	Continuous	Line: pen size 0.75mm, base colour 7
*-LINE-LW**-HIDN	Varies	Varies	HIDDEN	Line: type Hidden
*-LINE-LW**-HID2	Varies	Varies	HIDDEN2	Line: type Hidden 2
*-LINE-SC05	255 (Light grey)	0.15	Continuous	Line: colour 255, screening 5%
*-LINE-SC13	254 (Light grey)	0.15	Continuous	Line: colour 254, screening 13%
*-LINE-SC25	253 (Med grey)	0.15	Continuous	Line: colour 253, screening 25%
*-LINE-SC40	252 (Med grey)	0.15	Continuous	Line: colour 252, screening 40%
*-LINE-SC55	251 (Dark grey)	0.15	Continuous	Line: colour 251, screening 55%
*-LINE-SC70	250 (Dark grey)	0.15	Continuous	Line: colour 250, screening 70%



8.4.2.7 Layer List – Architectural and Interiors (A)

Layer Name	Colour	Line Wt	Line Type	Description
Architectural and Interior Plans				
A-AREA	140	0.10	Continuous	Areas / rooms: polyline (non-plot)
A-AREA-IDEN	2 (Yellow)	0.25	Continuous	Areas / rooms: tags (inserted block)
A-AREA-NAME	92	0.25	Continuous	Areas / rooms: tags - room name
A-AREA-RNMB	2 (Yellow)	0.25	Continuous	Areas / rooms: tags - room number
A-AREA-SQRE	22	0.25	Continuous	Areas / rooms: tags - room area
A-CLNG	21	0.15	Continuous	Ceilings: grids, edges
A-CLNG-ELEC	2	0.25	Continuous	Electrical: communication symbols, lighting fixtures
A-CLNG-IDEN	72	0.25	Continuous	Ceilings: tags
A-CLNG-MECH	212	0.25	Continuous	Mechanical: HVAC
A-CLNG-PATT	10	0.10	Continuous	Ceilings: cut and surface pattern
A-COLS	5 (Blue)	0.35	Continuous	Architectural columns: around structural columns and for decorative applications
A-COLS-PATT	252 (Med grey)	0.15	Continuous	Architectural columns: cut and surface pattern
A-DOOR	1 (Red)	0.15	Continuous	Doors: panel, frame/mullion, glass, hardware
A-DOOR-IDEN	72	0.25	Continuous	Doors: tags
A-DRAN	181	0.15	Continuous	Drains: floor drain (FD) , roof drain (RD),
A-FLOR-ELEC	11	0.15	Continuous	Electrical: fire alarm panel (AP), lighting fixtures, receptacle, switches, wall fixture, wiremold (WM)
A-FLOR-ELEC-IDEN	11	0.15	Continuous	Electrical: tags, notes
A-FLOR-HRAL	11	0.15	Continuous	Railings: handrails, guardrails
A-FLOR-IDEN	2 (Yellow)	0.25	Continuous	Floors: assembly tags
A-FLOR-LEVL	2 (Yellow)	0.25	Continuous	Level: ramps, stringers
A-FLOR-LEVL-IDEN	41	0.15	Continuous	Level: direction arrow, up and down texts
A-FLOR-MECH	151	0.15	Continuous	Mechanical: autoclave, CA, fire extinguisher cabinet (FEC), fire hose cabinet (FHC), fume hood (FH), hardwired tank, heating cabinet, NG, sprinkler pipe, VAC, wall HVAC
A-FLOR-MECH-IDEN	151	0.15	Continuous	Mechanical: tags, notes
A-FLOR-PATT	Last digit "0"	0.10	Continuous	Floor: cut and surface pattern
A-FLOR-PFIX	151	0.15	Continuous	Plumbing fixtures and equipment: drinking fountain (DF), sink, washroom appliances, water heater
A-FLOR-STRS	1 (Red)	0.15	Continuous	Floor: stair treads, escalators, ladders
A-FLOR-STRS-HDLN	1 (Red)	0.15	HIDDEN2	Floor: stair hidden lines



Layer Name	Colour	Line Wt	Line Type	Description
A-FLOR-STRS-IDEN	52	0.25	Continuous	Floor: stair tags, direction arrow, notes
A-FLOR-TPTN	11	0.15	Continuous	Floor: toilet partition
A-FLOR-WDWK	1 (Red)	0.15	Continuous	Floor: architectural woodwork
A-FLOR-WDWK-OVHD	121	0.15	HIDDEN2	Floor: architectural woodwork (upper cabinet)
A-FLOR-WDWK-UNDR	30	0.10	HIDDEN2	Floor: architectural woodwork (under counter)
A-FURN	30	0.10	Continuous	Furniture: movable, carrel
A-FURN-FIXD	10	0.10	Continuous	Furniture: fixed (classroom)
A-FURN-IDEN	72	0.25	Continuous	Furniture: tags
A-FURN-PNLS	1 (Red)	0.15	Continuous	Furniture systems
A-FURN-PNLS-IDEN	2 (Yellow)	0.25	Continuous	Furniture systems: tags
A-GLAZ	171	0.15	Continuous	Windows: frame/mullion, trim, glass
A-GLAZ-CURT	151	0.15	Continuous	Curtain wall: panels, mullions
A-GLAZ-IDEN	132	0.25	Continuous	Windows / Curtain Walls: tags
A-GLAZ-SILL	140	0.10	Continuous	Windows / Curtain Walls: sill/head
A-GRID	200	0.10	CENTER2	Grid
A-GRID-IDEN	93	0.35	Continuous	Grid: heads
A-ROOF-IDEN	132	0.25	Continuous	Roof: tags
A-ROOF-OTLN-LW10	10	0.10	Continuous	Roof: outline – light line
A-ROOF-OTLN-LW25	2 (Yellow)	0.25	Continuous	Roof: outline – medium line
A-ROOF-OTLN-LW45	4 (Cyan)	0.45	Continuous	Roof: outline – heavy line
A-ROOF-OTLN-LW65	6 (Magenta)	0.65	Continuous	Roof: outline – extra heavy line
A-ROOF-OTLN-OVHD	10	0.10	HIDDEN	Roof: overhead outline
A-ROOF-PATT	98	0.13	Continuous	Roof: cut and surface pattern
A-SITE-BLDG	4 (Cyan)	0.45	Continuous	Site: buildings and primary structures
A-SITE-BLDG-IDEN	122	0.25	Continuous	Site: building label
A-SITE-BLDG-LINK	72	0.25	Continuous	Site: link between buildings
A-SITE-BLDG-OOPL	3 (Green)	0.35	Continuous	Site: building outside of property lines
A-SITE-BLDG-OVHD	8 (Dark grey)	0.13	Continuous	Site: building overhead (overhang)
A-SITE-BLDG-TNNL	40	0.10	HIDDENX2	Site: underground tunnels
A-SITE-BLDG-UNDR	2 (Yellow)	0.25	Continuous	Site: building outline below grade
A-SITE-FENC	1 (Red)	0.15	FENCELINE1	Site: fence lines
A-SITE-PATH	1 (Red)	0.15	Continuous	Site: pathway
A-SITE-PATH-OOPL	8 (Dark Grey)	0.13	Continuous	Site: pathway/lane outside of property lines

Layer Name	Colour	Line Wt	Line Type	Description
A-SITE-PRKG	1 (Red)	0.15	Continuous	Site: parking, traffic symbol
A-SITE-PRKG-IDEN	52	0.25	Continuous	Site: parking label
A-SITE-PROP-LINE	7 (White)	0.75	PHANTOM2	Property lines
A-SITE-PROP-IDEN	2 (Yellow)	0.25	Continuous	Property lines: segment tags
A-SITE-ROAD	2 (Yellow)	0.25	Continuous	Site: road outline
A-SITE-WETL-LW15	1 (Red)	0.15	Continuous	Site: wetland, pen size 0.15mm
A-SITE-WETL-LW25	2 (Yellow)	0.25	Continuous	Site: wetland, pen size 0.25mm
A-STRC-BEAM	52	0.25	Continuous	Structural beams
A-STRC-BEAM-HID2	52	0.25	HIDDEN2	Structural beams
A-STRC-COLS	3 (Green)	0.35	Continuous	Structural columns
A-STRC-COLS-PATT	252 (Med grey)	0.15	Continuous	Structural columns: cut and surface patterns
A-STRC-FNDN	212	0.35	HIDDEN2	Structural foundations
A-STRC-SLAB	3 (Green)	0.35	Continuous	Structural slab edge
A-STRC-SLAB-PATT	252 (Med grey)	0.15	Continuous	Structural slab edge: cut and surface patterns
A-STRC-WALL	4 (Cyan)	0.45	Continuous	Structural wall
A-STRC-WALL-PATT	252 (Med grey)	0.15	Continuous	Structural wall: cut and surface patterns
A-WALL	5 (Blue)	0.35	Continuous	Walls
A-WALL-ASMB	10	0.10	Continuous	Walls: assembly (non plot)
A-WALL-DMNT	2 (Yellow)	0.25	Continuous	Walls: demountable
A-WALL-HEAD	8 (Dark grey)	0.13	Continuous	Door/window header (on reflected ceiling plan)
A-WALL-IDEN	222	0.25	Continuous	Walls: tags
A-WALL-PATT	252 (Med grey)	0.15	Continuous	Walls: cut and surface patterns
A-WALL-PRHT	2 (Yellow)	0.25	Continuous	Walls: partial height (not on reflected ceiling plan)
Building Code Analysis				
(Polyline thickness 150mm in model space. Background drawing uses colour 253. colour model - RGB)				
A-CODE-FFRR-045M	50, 255, 50		ACAD_ISO04W100	45 min fire resistance rating
A-CODE-FFRR-060M	50, 80, 250		CENTER2	1 h fire-resistance rating
A-CODE-FFRR-090M	150, 200, 200		ACAD_ISO12W100	1.5 h fire-resistance rating
A-CODE-FFRR-120M	250, 50, 50		PHANTOM2	2 h fire-resistance rating
A-CODE-FFRR-240M	250, 150, 50		ACAD_ISO14W100	3 h fire-resistance rating
A-CODE-FSEP-000M	7 (White)		DASHED2	0 h fire separation (smoke separation)
A-CODE-FWAL-120M	220, 30, 200		Continuous	2 h firewall
A-CODE-FWAL-240M	0, 150, 40		JIS_02_1.2	4 h firewall
A-CODE-TVDS	120, 60, 160		DASHED	Travel distance (polyline thickness 75mm)



Layer Name	Colour	Line Wt	Line Type	Description
Architectural and Interior Demolition				
Demolition layers may be required to represent existing situation. Keep original A- layer line weight. Modify "VP (viewport) colour" of all demolition layer to 161 in paper space viewport.				
AD-□□□□	Varies	Varies	HIDDEN2	Existing to be demolished
GD-ANNO-DIMS	41	0.15	Continuous	Dimensions, spot elevations, vertical level labels
GD-ANNO-NOTE	92	0.25	Continuous	Texts notes, break marks, keynotes, legends, schedule graphics
GD-ANNO-OPEN	161	0.15	CENTER2	Open to below/above "X" indicator, shaft
Architectural and Interior New Work				
New work layers keep original A- layer colour. Modify "VP (viewport) colour" of all existing to remain layer to 9 in paper space viewport.				
AN-□□□□	Varies	Varies	Various	New work

8.4.2.8 Layer List – Equipment (Q)

Layer Name	Colour	Line Wt	Line Type	Description
Q-CASE	1 (Red)	0.15	Continuous	Casework (manufactured cabinets): lab casework, library shelving
Q-CASE-OVHD	121	0.15	HIDDEN2	Casework: overhead
Q-CASE-UNDR	30	0.10	HIDDEN2	Casework: under counter
Q-CASE-IDEN	72	0.25	Continuous	Casework: tags
Q-SPCQ	241	0.15	Continuous	Specialty equipment: compost bin (CMP), copier, kitchen appliances (MV, DW, FRG, COF), monitor (MON), vending machine, washroom accessories, waste and recycle bin (WRB), white board (WB)
Q-SPCQ-EVTR	241	0.15	Continuous	Specialty equipment: elevators
Q-SPCQ-FIXD	201	0.15	Continuous	Specialty equipment fixed: bio safety cabinet (BSC), locker (LKR), planter (PLNTR), retractable bleacher, public telephone (PHONE), walk-in fridge/freezer
Q-SPCQ-IDEN	72	0.25	Continuous	Specialty equipment: tags
Q-SPCQ-LABQ	121	0.15	Continuous	Lab equipment excluding hardwired tank
Q-SPCQ-OVHD	161	0.15	HIDDEN2	Specialty equipment overhead, ceiling mounted: projector (PROJ), projector screen (SCRN)
Q-SPCQ-PFIX	121	0.15	Continuous	Specialty plumbing equipment: eyewash (EW), deluge shower (DS), combo unit (HW.EW or DS.EW), emergency station (ES)
Q-SPCQ-PFIX-IDEN	121	0.15	Continuous	Specialty plumbing equipment: tags
Q-SPCQ-UNDR	40	0.10	HIDDEN2	Specialty equipment: under counter

8.4.2.9 Layer List – Structural (S)

Layer Name	Colour	Line Wt	Line Type	Description
S-ANNO-SYMB	2 (Yellow)	0.25	Continuous	Structural: connection symbols
S-BEAM	4 (Cyan)	0.45	Continuous	Structural framing: beam, chord, girder, joist, purlin, rigid links, web, stiffeners
S-BEAM-HDLN	72	0.25	HIDDEN2	Structural framing: hidden lines
S-BEAM-SYMB	92	0.25	Continuous	Structural framing: stick symbols
S-BRCG	4 (Cyan)	0.45	Continuous	Structural framing: bracing
S-COLS	3 (Green)	0.35	Continuous	Structural columns
S-COLS-HDLN	3 (Green)	0.35	HIDDEN2	Structural columns: hidden lines
S-COLS-PATT	252 (Med grey)	0.15	Continuous	Structural columns: cut and surface patterns
S-COLS-SYMB	132	0.25	Continuous	Structural columns: stick symbols
S-FNDN	5 (Blue)	0.35	Continuous	Structural foundations
S-FNDN-HDLN	5 (Blue)	0.35	HIDDEN2	Structural foundations: hidden lines
S-FSTN	53	0.35	Continuous	Structural fasteners: anchors, bolts, plates
S-GRID	200	0.10	CENTER2	Grid
S-GRID-IDEN	93	0.35	Continuous	Grid: heads
S-JOIS	5 (Blue)	0.35	PHANTOM2	Joists
S-LOAD-CASE-IDEN	12	0.25	Continuous	Load cases: area, line, point, accidental, dead, live, roof, seismic, snow, temperature, wind
S-RBAR	133	0.35	Continuous	Structural reinforcement: rebar, rebar couplers, area, fabric, path
S-RBAR-BNDY	253 (Med grey)	0.35	Continuous	Structural reinforcement: boundary
S-STRS	1 (Red)	0.15	Continuous	Stairs: treads/risers, nosing
S-STRS-HDLN	1 (Red)	0.15	HIDDEN2	Stairs: hidden lines
S-STRS-IDEN	52	0.25	Continuous	Stairs: tags, direction arrow, notes
S-TRUS	73	0.35	Continuous	Structural trusses: trusses in elevation or section
S-TRUS-SYMB	7 (White)	0.75	PHANTOM2	Structural trusses: stick symbol representation of a truss in plan
S-WALL-CONC	3 (Green)	0.35	Continuous	Walls: cast-in-place concrete
S-WALL-MISC	140	0.10	Continuous	Walls: substrate, finish, membrane, thermal
S-WALL-PATT	252 (Med grey)	0.15	Continuous	Walls: cut and surface patterns

8.4.2.10 Layer List – Mechanical (M)

Layer Name	Colour	Line Wt	Line Type	Description
M-AREA-NAME	9 (Gray)	0.05	Continuous	Rooms: tags - room name
M-CMPA-EQPM	4 (Cyan)	0.45	Continuous	Compressed / processed air systems: equipment
M-CMPA-PIPE	52	0.25	Continuous	Compressed / processed air systems: piping
M-CONT-THER	2 (Yellow)	0.25	Continuous	Controls and instrumentation: thermostats

Layer Name	Colour	Line Wt	Line Type	Description
M-CONT-WIRE	2 (Yellow)	0.25	CENTER2	Controls and instrumentation: low voltage wiring
M-DUST-DUCT	102	0.25	Continuous	Dust and fume collection systems: ductwork
M-DUST-EQPM	54	0.45	Continuous	Dust and fume collection systems: equipment
M-EQPM	4 (Cyan)	0.45	Continuous	Mechanical equipment: hose rack cabinet, air conditioner, furnace, radiator, boiler
M-EQPM-PATT	12	0.25	PHANTOM2	Mechanical equipment service clearance
M-EQPM-IDEN	2 (Yellow)	0.25	Continuous	Mechanical: equipment tags
M-FUEL-RPIP	133	0.35	HIDDEN2	Fuel systems: return piping
M-FUEL-SPIP	133	0.35	Continuous	Fuel systems: supply piping
M-HOTW-EQMP	4 (Cyan)	0.45	Continuous	Hot water heating system: equipment
M-HOTW-RPIP	22	0.25	HIDDEN2	Hot water heating system: return piping
M-HOTW-SPIP	22	0.25	Continuous	Hot water heating system: supply piping
M-HVAC-DIFF	3 (Green)	0.35	Continuous	HVAC systems: diffusers, grilles, air terminals
M-HVAC-DIFF-IDEN	2 (Yellow)	0.25	Continuous	HVAC systems: diffuser, grilles, air terminals tags
M-HVAC-DUCT	134	0.45	Continuous	Ducts: fittings, accessories, insulations, linings
M-HVAC-DUCT-CNTR	10	0.10	CENTER2	HVAC systems: duct center line
M-HVAC-DUCT-IDEN	52	0.25	Continuous	HVAC systems: duct tags, symbology
M-INFO	30	0.10	Continuous	Designer notes, calculations, comments, (non-print layer)
Architectural Background				
Modify the color of xref architectural background layers				
	8 (Gray)	0.13	By Layer	Walls
	9 (Gray)	0.05	By Layer	Furniture, equipment
	251	0.15	By Layer	Structural columns
	253	0.15	By Layer	Doors, glazing, millwork
	254	0.15	By Layer	Electrical fixtures
	12	0.25	By Layer	Ceiling grids, edges
Mechanical Demolition				
Demolition layers may be required to represent existing situation. Keep original M- layer line weight. Modify "VP (viewport) colour" of all demolition layer to 161 in paper space viewport.				
MD-□□□□	Varies	Varies	HIDDEN2	Existing mechanical to be demolished
MD-PATT	1 (Red)	0.15	Continuous	Mechanical demolition identification - hatch

8.4.2.11 Layers List – Plumbing (P)

Layer Name	Colour	Line Wt	Line Type	Description
P-PIPE	133	0.35	Various	Pipe: fittings, accessories, insulations
P-PIPE-CNTR	1 (Red)	0.15	CENTER2	Pipe: center line

Layer Name	Colour	Line Wt	Line Type	Description
P-PIPE-DOCW	133	0.35	ACAD_ISO04 W100	Pipe: domestic cold water
P-PIPE-DOHW	133	0.35	ACAD_ISO05 W100	Pipe: domestic hot water
P-PIPE-DHWR	133	0.35	ACAD_ISO06 W100	Pipe: domestic hot water recirculation
P-PIPE-DOTW	133	0.35	ACAD_ISO06 W100	Pipe: domestic tempered water
P-PIPE-DRAN	133	0.35	Various	Pipe: sanitary, storm, condensate, weeping, grey water
P-PIPE-IDEN	2 (Yellow)	0.25	Continuous	Pipe: tags, drop, rise, symbols
P-PIPE-NGAS	1 (Red)	0.15	Continuous	Pipe: natural gas
P-PIPE-VENT	212	0.25	HIDDEN2	Pipe: sanitary vent
P-SANR-FIXT	151	0.15	Continuous	Plumbing fixtures and equipment
P-SANR-FIXT-IDEN	2 (Yellow)	0.25	Continuous	Plumbing fixtures and equipment: tags

8.4.2.12 Layer List – Fire Protection (F)

Layer Name	Colour	Line Wt	Line Type	Description
F-SPRN	2 (Yellow)	0.25	Continuous	Sprinklers
F-FIXT	153	0.35	Continuous	Extinguishers, hose cabinets, valves, etc.

8.4.2.13 Layer List – Electrical (E)

Layer Name	Colour	Line Wt	Line Type	Description
Modify the color of architectural background layers to 253.				
E-AVSL-COND	2 (Yellow)	0.25	Continuous	Audio Visual: conduits
E-AVSL-DEVC	3 (Green)	0.35	Continuous	Audio Visual: devices
E-AVSL-EQPM	3 (Green)	0.35	Continuous	Audio Visual: major equipment other than wiring devices
E-AVSL-NOTE	2 (Yellow)	0.25	Continuous	Audio Visual: description of work on plans
E-COMM-CABL	3 (Green)	0.35	CENTER2	Communication: data cabling route
E-COMM-COND	2 (Yellow)	0.25	Continuous	Communication: conduits
E-COMM-COND-UNDR	92	0.25	HIDDEN	Communication: conduits under finished floor
E-COMM-DEVC	3 (Green)	0.35	Continuous	Communication: data and telephone jacks
E-COMM-EQPM	3 (Green)	0.35	Continuous	Communication: rack, BIX blocks
E-COMM-IDEN	2 (Yellow)	0.25	Continuous	Communication: no. assigned, or 2D,2V etc.
E-COMM-NOTE	2 (Yellow)	0.25	Continuous	Communication: description / notes
E-COMM-NUMB	2 (Yellow)	0.25	Continuous	Communication: circuit number
E-COMM-TRAY	3 (Green)	0.35	Continuous	Cable tray and communication tray

Layer Name	Colour	Line Wt	Line Type	Description
E-FIRE-COND	2 (Yellow)	0.25	Continuous	Fire alarm: conduits
E-FIRE-DEVC	3 (Green)	0.35	Continuous	Pull stations, detectors, alarm devices
E-FIRE-EQPM	3 (Green)	0.35	Continuous	Fire alarm: panels (AP)
E-FIRE-IDEN	2 (Yellow)	0.25	Continuous	Fire alarm: equipment designation e.g. FACP
E-FIRE-NOTE	2 (Yellow)	0.25	Continuous	Fire alarm: description / notes
E-LITE-CIRC	2 (Yellow)	0.25	Continuous	Lighting: circuit or conduit linking fixtures
E-LITE-EMER	5 (Blue)	0.35	Continuous	Lighting: emergency luminaire
E-LITE-EQPM	5 (Blue)	0.35	Continuous	Lighting: relay panel, lighting panel, dimmer rack etc.
E-LITE-FIXT	5 (Blue)	0.35	Continuous	Lighting: luminaires
E-LITE-IDEN	2 (Yellow)	0.25	Continuous	Lighting: luminaires type or fixture designation
E-LITE-NOTE	2 (Yellow)	0.25	Continuous	Lighting: description / notes
E-LITE-NUMB	2 (Yellow)	0.25	Continuous	Lighting: circuit number
E-LITE-SWCH	2 (Yellow)	0.25	Continuous	Lighting: switches, occupancy sensor
E-LTNG-CABL	4 (Cyan)	0.45	CENTER2	Lightning: tape or interconnect ground conductor
E-LTNG-EQPM	5 (Blue)	0.35	Continuous	Lightning: rod, air terminal, ground pit
E-LTNG-NOTE	2 (Yellow)	0.25	Continuous	Lightning: system description or narratives
E-POWR-CIRC	2 (Yellow)	0.25	Continuous	Power: circuit or conduits linking receptacles or equipment
E-POWR-COND	62	0.25	Continuous	Power: conduits
E-POWR-COND-UNDR	62	0.25	HIDDEN	Power: conduits under finished floor
E-POWR-DEVC	3 (Green)	0.35	Continuous	Power: receptacles, disconnects, GFI
E-POWR-EMER	3 (Green)	0.35	Continuous	Power: emergency devices
E-POWR-EQPM	3 (Green)	0.35	Continuous	Power: equipment e.g. transformer, UPS, VFD
E-POWR-IDEN	2 (Yellow)	0.25	Continuous	Power: panel name, equipment designation, CPD name etc.
E-POWR-NOTE	2 (Yellow)	0.25	Continuous	Power: description / notes
E-POWR-NUMB	2 (Yellow)	0.25	Continuous	Power: circuit number
E-POWR-PANL	3 (Green)	0.35	Continuous	Power: electrical panels or CDP symbol
E-RISR	2 (Yellow)	0.25	Continuous	Electrical riser (2D diagram)
E-SERT-COND	2 (Yellow)	0.25	Continuous	Security: conduits
E-SERT-DEVC	3 (Green)	0.35	Continuous	Security: devices- ES, DA, maglock, card readers
E-SERT-EQPM	3 (Green)	0.35	Continuous	Security: panel, power supply
E-SERT-IDEN	2 (Yellow)	0.25	Continuous	Security: designation and names
E-SERT-NOTE	2 (Yellow)	0.25	Continuous	Security: description / notes

8.4.2.14 Layer List – Civil (C)

Layer Name	Colour	Line Wt	Line Type	Description
C-BLDG-DECK	52	0.25	Continuous	Building and primary structure: decks
C-BLDG-PADS	4 (Cyan)	0.45	Continuous	Building and primary structure: pads
C-PRKG	1 (Red)	0.15	Continuous	Parking
C-PRKG-IDEN	92	0.25	Continuous	Parking: tags
C-PROP-LINE	7 (White)	0.75	PHANTOM2	Property lines
C-PROP-LINE-IDEN	2 (Yellow)	0.25	Continuous	Property lines: segment tags
C-ROAD	2 (Yellow)	0.25	Continuous	Roads
C-TOPO	8 (Dark grey)	0.13	Continuous	Topography
C-TOPO-BNDY	3 (Green)	0.35	Continuous	Topography: boundary point
C-TOPO-LABL	92	0.25	Continuous	Topography: contour labels
C-TOPO-MAJR	6 (Magenta)	0.65	Continuous	Topography: primary contours
C-TOPO-MINR	32	0.25	Continuous	Topography: secondary contours
C-TOPO-SPOT	2 (Yellow)	0.25	Continuous	Topography: interior point

8.4.2.15 Layer List – Landscape (L)

Layer Name	Colour	Line Wt	Line Type	Description
L-PLNT	102	0.25	Continuous	Planting: trees, shrub
L-PLNT-IDEN	2 (Yellow)	0.25	Continuous	Planting: tags
L-SITE	32	0.25	Continuous	Site: bike stand, bollard, planter, scaffolding, truck, pavement, signage, utilities (manhole, catch basin, utility poles, connection boxes)
L-SITE-IDEN	2 (Yellow)	0.25	Continuous	Site: tags
L-SITE-WALL	32	0.25	Continuous	Site: retaining walls, garbage enclosures

8.4.2.16 Layer List – ARCHIBUS (University internal use only)

Layer Name	Colour	Line Wt	Line Type	Description
GROS	1 (Red)	0.15	Continuous	ARCHIBUS GROS
GROS\$	6 (Magenta)	0.65	Continuous	ARCHIBUS GROS\$
GROS\$TXT	1 (Red)	0.15	Continuous	ARCHIBUS GROS\$TXT
HL-TMP	7 (White)	0.75	Continuous	ARCHIBUS HL-TMP
I-GROSS	1 (Red)	0.15	Continuous	ARCHIBUS I-GROSS
LEASE	221	0.15	Continuous	ARCHIBUS LEASE
LEASE-HL-TMP	7 (White)	0.75	Continuous	ARCHIBUS LEASE-HL-TMP
LUFT\$TXT	1 (Red)	0.15	Continuous	ARCHIBUS LUFT\$TXT



Layer Name	Colour	Line Wt	Line Type	Description
RM	4 (Cyan)	0.45	Continuous	ARCHIBUS RM
RM\$	5 (Blue)	0.35	Continuous	ARCHIBUS RM\$
RM\$TXT	7 (White)	0.75	Continuous	ARCHIBUS RM\$TXT



Revision History

Revision Date	Version	Description
Nov 2022	1.1	Baseline version
August 10, 2023	1.0	Added Revision History table to end of document and reset to Version 1.0.