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017250 - Standard Site Plan CAD Layering Scheme

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SECTION 017250 – STANDARD SITE PLAN CAD LAYERING SCHEMA

PART 1 - GENERAL

1.1 SUMMARY

- A. All Site and Civil CAD plans must be georeferenced to the proper coordinate system (NAD 1983, NH State Plane Feet) prior to submittal. Any plans that are not registered to the ground will be returned to the preparer for correction and resubmittal.
- B. The following CAD Layering standards are recommended for all site plan AutoCAD drawings (site surveys, construction documents, as-builts, etc) associated with any project. At the completion of the project the finished .DWG file(s) should then be delivered, on a CD, to the University.
- C. Layers that are not included on this list are to be built in accordance with the existing layering schema (i.e. PREFIX-CLEAR DESCRIPTION AS NAME). Once created, these layers should be added to the appropriate existing group or added as a new subgroup.
- D. Though the following layering standards are preferred and recommended, if the UNH layering standard is not followed, it is imperative that a clear and documented key or description of all CAD layers must accompany any .DWG file deliverable.
- E. Direct questions concerning Standard Site Plan CAD Layering standards to the Facilities Campus Planning GIS/CAD Group.
- F. Prefix Description:

- C: General Campus Infrastructure/Features
- CHW: Chilled Water Distribution System
- DW: Domestic Water Distribution System
- DHW: Domestic Hot Water Distribution System
- EL: Electric Distribution System
- HC: Heating and Cooling Distribution System
- LA: Landscape Features
- M: Miscellaneous Layers
- NG: Natural Gas Distribution System
- NW: Natural Waterways
- SS: Sanitary Sewer Distribution System
- SW: Storm Water Distribution System
- TEL: Telecom Distribution System
- TO: Topographic Elevation Information

- G. Layer Name:

- C-ABANDONED BUILDING
- C-ACCESS ROAD

C-ANTENNAE
C-ASPHALT PAD
C-ATHLETIC FIELD, COURT, OTHER
C-BLEACHER
C-BRIDGE
C-CONCRETE PAD
C-CROSSWALK
C-CURBING
C-DAM
C-DRIVEWAY
C-EXISTING BUILDING
C-FENCE
C-FUTURE ROAD
C-GEODETIC MONUMENT
C-ORCHARD
C-PARKING LOT
C-PARKING LOT STRIPING
C-PROPOSED BUILDING
C-RAILROAD TRACKS
C-RETAINING WALL
C-ROAD
C-ROAD CENTERLINE
C-ROAD STRIPING
C-SCOREBOARD
C-SIDEWALK
C-SIGNAGE
C-STAIRS
C-STONE WALL
C-TEXT
C-TRAIL
C-TRAILER
C-WALKWAY

DHW-DOMESTIC HOT WATER RETURN LINE
DHW-DOMESTIC HOT WATER SUPPLY LINE
DW-DOMESTIC WATER LINE
DW-HYDRANT
DW-IRRIGATION LINE
DW-POST INDICATOR VALVE
DW-TEXT
DW-WATER LINE CAP
DW-WATER VALVE

EL-ELECTRIC BOX
EL-ELECTRIC MANHOLE
EL-LIGHT POLE
EL-OVERHEAD ELECTRIC LINE
EL-PAD MOUNT TRANSFORMER
EL-SWITCH BOX
EL-TEXT

EL-UNDERGROUND ELECTRIC LINE
EL-UTILITY POLE

HC-CHILLED WATER SUPPLY LINE
HC-CHILLED WATER RETURN LINE
HC-CONDENSATE RETURN LINE
HC-HEATING AND COOLING MANHOLE
HC-HOT WATER RETURN LINE
HC-HOT WATER SUPPLY LINE
HC-STEAM SUPPLY LINE
HC-TEXT

LA-BOULDER
LA-BRUSH
LA-LARGE TREE
LA-MEDIUM TREE
LA-ROCKS
LA-SHRUB
LA-SMALL TREE
LA-TEXT
LA-TREE LINE

M-MISCELLANEOUS FEATURE
M-PROPERTY BOUNDARY
M-TEXT
M-UTILITY DOOR

NG-ECOLINE
NG-GAS METER
NG-GAS REDUCER
NG-GAS VALVE
NG-GAS VENT
NG-NATURAL GAS LINE
NG-PROPANE LINE
NG-PROPANE TANK
NG-TEXT
NG-TRACER BOX

NW-LAKE
NW-RESERVOIR
NW-RIVER
NW-STREAM
NW-WETLAND

SS-SEWER CLEAN OUT
SS-SEWER FORCE MAIN
SS-SEWER LIFT STATION
SS-SEWER LINE
SS-SEWER MANHOLE
SS-TEXT

SW-CATCH BASIN
SW-CLEAN OUT
SW-CULVERT
SW-DITCH OR SWALE
SW-DRAIN LINE
SW-DRAIN MANHOLE
SW-INLET
SW-OUTFALL
SW-STORM WATER TREATMENT STRUCTURE
SW-TEXT

TEL-CALL BOX
TEL-EMERGENCY PHONE
TEL-OVERHEAD TELECOM LINE
TEL-TELECOM MANHOLE
TEL-TEXT
TEL-UNDERGROUND TELECOM LINE

TO-CONTOUR LINE
TO-HORIZONTAL CONTROL
TO-SPOT ELEVATION
TO-TEXT
TO-VERTICAL CONTROL

END OF SECTION 01 7250