Layer Name Format

Hierarchy of Data Fields

The layer name format is organized as a hierarchy. This arrangement allows users to select from a number of options for naming layers according to the level of detailed information desired. Layer names consist of distinct data fields separated from one another by dashes. A detailed list of abbreviations, or field codes, is prescribed to define the content of layers. Most field codes are mnemonic English abbreviations of construction terminology that are easy to remember.

There are four defined layer name data fields: **Discipline Designator**, **Major Group**, two **Minor Groups,** and **Status**. The Discipline Designator and Major Group fields are mandatory. The Minor Group and Status fields are optional. Each data field is separated from adjacent fields by a dash ("-") for clarity.

The complete U.S. NCS layer name format, showing the Discipline Designator, the Major Group, two Minor Groups, and the Status fields.

Before You Begin

The NCS allows you to select from a number of format options for creating layer names. It is recommended that you select the options that you wish to use for layer names on a given project, and then apply the resulting format consistently for all layer names on that project.

Note that for ***conceptual conformance*** to ISO 13567*, Organization and Naming of Layers for CAD,* the layer name format and length must be the same for all layers on a given project. See "Commentary: NCS and ISO 13567" (CLG-81) at the end of *AIA CAD Layer Guidelines* for detailed information about ISO conformance.

Discipline Designator, Level 1

A typical layer name showing the required data fields only.

Note that only the mandatory discipline character is shown, creating a Level 1 Discipline Designator.

A	-	W	A	L	L

The Discipline Designator denotes the category of subject matter contained on the specified layer. The Discipline Designator is a two-character field. The first character is the discipline character, and the second character is an optional modifier. The Discipline Designator is described in greater detail on page UDS-01.10. For a complete list of Discipline Designators see Appendix A beginning on page CLG-89 and Appendix A of Drawing Set Organization beginning on page UDS-01.29.

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LEVEL 1 DISCIPLINE DESIGNATORS	
A	Architectural
B	Geotechnical
C	Civil
D	Process
E	Electrical
F	Fire Protection
G	General
H	Hazardous Materials
I	Interiors
L	Landscape
M	Mechanical
O	Operations
P	Plumbing
Q	Equipment
R	Resource
S	Structural
T	Telecommunications
V	Survey / Mapping
X	Other Disciplines
Z	Contractor / Shop Drawings

Layer Name	Description	New
Civil (continued)		
C□-AFLD-YELO-TICK	Airfields: yellow paint: tick marks	
C□-BLDG	Buildings and primary structures	
C□-BLDG-DECK	Buildings and primary structures: deck (attached, no roof overhead)	
C□-BLDG-OTLN	Buildings and primary structures: outline	
C□-BLDG-OVHD	Buildings and primary structures: overhead	
C□-BLDG-PRCH	Buildings and primary structures: porch (attached, roof overhead)	
C□-BLIN	Baseline	
C□-BLIN-STAN	Baseline: stationing	
C□-BORE	Borings	
C□-BRDG	Bridge	
C□-BRDG-CNTJ	Bridge: construction joint	
C□-BRDG-CNTR	Bridge: center	
C□-BRDG-DECK	Bridge: deck	
C□-BRDG-EXPJ	Bridge: expansion joint	
C□-BRDG-FALT	Bridge: fault / break line	
C□-BRDG-HIDD	Bridge: objects or lines hidden from view	
C□-BRDG-OBJT	Bridge: objects	
C□-BRDG-OBJT-PRIM	Bridge: objects: primary	
C□-BRDG-OBJT-SECD	Bridge: objects: secondary	
C□-BRDG-RBAR	Bridge: reinforcing bar	
C□-CATV	Cable television system	
C□-CATV-OVHD	Cable television system: overhead	
C□-CATV-POLE	Cable television system: pole	

Layer Name	Description	New
Civil (continued)		
C□-CATV-UGND	Cable television system: underground	
C□-CEME	Cemetery	
C□-CHAN	Navigable channels	
C□-CHAN-BWTR	Navigable channels: breakwater	
C□-CHAN-CNTR	Navigable channels: center	
C□-CHAN-DACL	Navigable channels: de-authorized channel limits, anchorages, etc.	
C□-CHAN-DOCK	Navigable channels: decks, docks, floats, piers	
C□-CHAN-NAID	Navigable channels: navigation aids	
C□-COMM	Telephone communications	
C□-COMM-OVHD	Telephone communications: overhead	
C□-COMM-POLE	Telephone communications: pole	
C□- COMM-UGND	Telephone communications: underground	
C□-CTRL	Control points	
C□-CTR L-BMRK	Control points: benchmarks	
C□-CTRL-FLYS	rol points: fly station	
C□-CTRL-GRID	Control points: grid	
C□-CTRL-HORZ	Control points: horizontal	
C□-CTRL-HVPT	Control points: horizontal / vertical	
C□-CTRL-PNPT	Control points: panel points	
C□-CTRL-TRAV	Control points: transverse	
C□-CTRL-VERT	Control points: vertical	
C□-DFLD	Drain fields	
C□-DFLD-OTLN	Drain fields: outline	