

ORDER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGION

SW 6000.25A

7/19/96

SUBJ: ENGINEERING DRAWING NUMBERS AND SIGNATURES

1. **PURPOSE.** This order provides information and guidance to field personnel regarding Southwest Region drawing number structure and signatures for all Southwest Region National Airspace System (NAS) facility engineering drawings.
2. **DISTRIBUTION.** This order is distributed to section level in the Airway Facilities Division, all System Management Offices (SMOs), and to all ASW-450 engineering personnel.
3. **CANCELLATION.** Order 6000.25, Establishment Engineering Drawing Numbers and Signatures, dated September 14, 1990, is canceled.
4. **EXPLANATION OF CHANGES.** This Order recognizes the realigned Airway Facilities organizational structure, specifically the NAS Implementation Branch, ASW-450, the System Management Offices (SMO) and establishment of the Program Implementation Engineer (PIE) positions in ASW-450. It deletes the requirement for the branch or assistant branch manager to approve original drawings. This function has been delegated to the Program Implementation Engineer (PIE) to submit, and section supervisor to approve, all ASW-450 engineering drawings. Additionally, several administrative refinements have been made to the examples shown as Figures 1 and 2 of Appendix 1.
5. **BACKGROUND.** Implementation of the Auto-Trol Computer Aided Engineering Graphics (CAEG) system has progressed to the extent that engineering drawings require a revised numbering structure to facilitate archiving requirements. Maximum utilization of the CAEG system will be realized when the capability is developed to sort and recall engineering drawings from the archives by facility type and location, drawing type and number, and revision numbers. As drawings are recalled and updated, it is no longer possible to maintain original signatures on revised CAEG drawings. Revised CAEG drawings shall contain the name of the original signer, in block letters, and the initials of the design engineer, PIE, or supervisor in the revision block.
6. **PROCEDURES.**
 - a. **NAS Implementation Branch, ASW-450,** will participate in developing a CAEG program to archive and recall engineering drawings with the regional CAEG program office to meet the following criteria:
 - (1) The drawing number structure for all engineering drawings shall consist of a maximum of 24 characters as shown in Appendix 1, Figure 1.
 - (2) Facility identifiers and types shall conform to the Facilities Services and Equipment Profile (FSEP).

Distribution: A-X(AF)-4; A-FAF-2; A-FAF-10

Initiated By: ASW-456

(3) The sequence number within a series of drawings shall be prefixed by uppercase letters to identify the discipline or drawing type and the CAEG filename shall be prefixed by lower characters.

(4) Drawing title blocks will not be changed except for the drawing number and signature as shown in Appendix 1, Figure 2.

(5) Drawing numbers will be changed to this format on new projects and existing drawings will be renumbered as time permits.

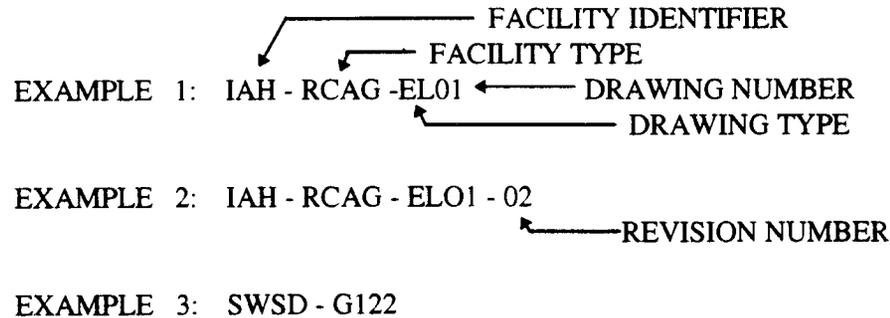
(6) All original drawings will be submitted by the Program Implementation Engineer and approved by the section supervisor.

(7) Revised drawings, such as as-builts, shall contain the name of the original signer, in block letters, with the initials of the engineer, PIE or supervisor in the revision checked block. These drawings shall contain the statement "CAEG reconstruction of original drawing" near the revision block.

b. **System Management Offices** shall assure that facility identifiers and types are correct on all new project drawings.


f Marcos Costilla
Manager, Airway Facilities Division

FIGURE 1. EXAMPLE OF DRAWING NUMBER STRUCTURE



LEGEND:

DRAWING TYPE

- G** - GENERAL
- C** - CIVIL
- A** - ARCHITECTURAL
- S** - STRUCTURAL
- M** - MECHANICAL
- E** - ELECTRICAL
- RE** - REAL ESTATE
- EL** - ELECTRONICS

STANDARDS:

DESIGNATION PLACED IN FACILITY IDENTIFIER LOCATION
 WASD FOR WASHINGTON
 SWSD FOR SOUTHWEST REGION
 (SEE EXAMPLE 3 ABOVE)

NOTES:

- a. NO IMBEDDED SPACES, PERIODS, COMMAS OR SPECIAL CHARACTERS ARE ALLOWED IN A DRAWING FILE NAME. HYPHENS AND UNDERSCORE CHARACTERS ARE ALLOWED.
- b. CAEG FILE NAMES MUST BE ALL LOWERCASE (SEE FIGURE 2).
- c. DRAWING NAME MUST BE UPPER CASE ONLY IN THE SPECIFIED TITLE BLOCK ON THE DRAWING (SEE FIGURE 2).

FIGURE 2. EXAMPLE OF DRAWING TITLE BLOCKS

<p>CAEG RECONSTRUCTION OF ORIGINAL DRAWING</p>					<p>DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION</p>		
					SOUTHWEST REGION		FORT WORTH, TEXAS
					RCAG		
					EQUIPMENT LAYOUT		
					HOUSTON		TEXAS
					SUBMITTED ORIGINAL SIGNED BY:		APPROVED ORIGINAL SIGNED BY:
					PROGRAM IMPLEMENTATION ENGINEER		SUPERVISOR OF SECTION, ASW-45X
					DESIGNED & ENGINEER		DATE: JULY 30, 2001
					REVIEWED		ISSUED BY
					ORIG DFT CAEG TECHNICIAN		AIRWAY FACILITIES DIVISION
FACTORY		DRAWING NUMBER					
		IAH-RCAG-ELO1-02					
REF. DWG. :							

CAEG FILENAME: iaha-rcag-e101-02
PLOT SCALE FACTOR: 1

<p>CAEG RECONSTRUCTION OF ORIGINAL DRAWING</p>					<p>DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION</p>		
					SOUTHWEST REGION		FORT WORTH, TEXAS
					RCAG		
					EQUIPMENT LAYOUT		
					HOUSTON		TEXAS
					SUBMITTED ORIGINAL SIGNED BY:		APPROVED ORIGINAL SIGNED BY:
					PROGRAM IMPLEMENTATION ENGINEER		SUPERVISOR OF SECTION, ASW-45X
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FACTORY		DRAWING NUMBER					
		IAH-RCAG-ELO1-02					
REF. DWG. :							

CAEG FILENAME: iaha-rcag-e101-02
PLOT SCALE FACTOR: 1