VLBA CC Memo No. 3

NATIONAL RADIO ASTRONOMY OBSERVATORY
Green Bank, West Virginia

October 19, 1983

TO: Coordinating Committee

FROM: B. Peery

SUBJECT: Drawing Numbering System for the VLBA

Attached is a description of the numbering system used to number engineering drawings made and/or filed by the NRAO engineering division in Green Bank. We follow this system very closely except for drawing sizes. To simplify filing and printing we use the D size exclusively except for very special situations.

It is understood the VLA is adopting this procedure, with some modifications, to renumber their drawings.

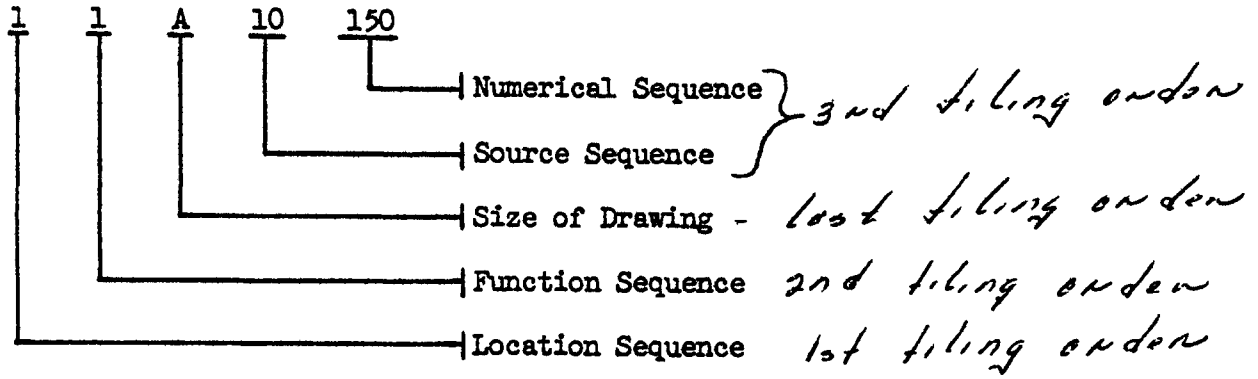
As best we can determine, the electronics drawings are not numbered with a definite numbering procedure.

BP/bbs

DRAWING NUMBERING SYSTEM

The purpose of a new numbering system would be the coding of drawings by their numbers so that the number of a drawing would be known (approximately) by knowing the purpose of the drawing and what is shown thereon.

The drawing number would be composed of five parts as illustrated by the following example:



Location Sequence would be numbered as follows:

10 Series - General and Yard
20 Series - 85' Telescope
30 Series - 140' Telescope
40 Series - 300' Telescope
50 Series - Other Antennas
60 Series - Buildings
70 Series - Interferometer System
80 Series - 36' MM Wave Length System
90 Series - VLA
100 Series - For Future Assignment

Function Sequence would be numbered as follows:

0- specification Control Drawing
1 - Civil and Concrete (foundations, surveys, paving, drainage)
2 - Heavy Equipment (machinery, gears, drives)
3 - Electrical
4 - Architectural
5 - Mechanical (including piping, heating and vent, plumbing)
6 - Structural (primary and secondary load carrying structure)
7 - Fixtures, furnishings, tools and equipment
8 - Electronic Equipment (shop, test and functional service equipment)
9 -

Size of drawing would be indicated by letters as follows. This also breaks up the numbering so that numbering code is easily understood.

A - 8-1/2 x 11
B - 11 x 17
BM - Bill of Material (BM would then have the same number as drawing)
C - 17 x 22
D - 22 x 34
E - Cut Sheets
S - Specifications (S would then have the same number as part drawing)

Source Sequence would serve to indicate where drawings are prepared. For example, when no number is shown here or numbers below 10,000 are used this would show that drawings were prepared at the NRAO, Green Bank, The 10,000 series would show that drawings were prepared by outside consultants. The 20,000 series could show manufacturers drawings. This would enable us to relate Green Bank drawings, consultant drawings, and manufacturers drawings by having the same numerical sequence of numbers preceded by the same code. For example, 300' telescope drawings on structural frame would be:

46 D	250	NRAO in house drawings
46 D	10,250	Consultant (Faelten)
46 D	20,250	Manufacturer (Bristol Steel)

Numerical Sequence would have to be broken down by a listing sheet for each location and function sequence as for General and Yard Group 11 series.

Civil and Concrete Break-down

0 - 50	Geological Investigation
51 - 150	Property and Surveys
151 - 250	Roads and Paving
251 - 350	Sewers and Drainage
351 - 450	Foundations and Toewalls
451 - 550	Power Distribution
551 - 600	Elevations and Plans
601 - 700	
701 - 800	

A break-down will not be provided other units such as electrical, mechanical, heavy equipment, architectural, or structural--merely use a numbering system of 0-999 in each respective division.