

Numbering and Lettering Transmission Equipment

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1. General

1.1 Purpose

This practice presents a standard method for applying identifying number or letter designations to carrier, microwave, fiber, and radio equipment in central offices (COs).

NOTE: For identifying other specific CO equipment not covered in this practice, refer to the appropriate practice in the 244 series of GTE Telephone Operations Practices.

For general information on using lettering and stamping equipment and embossing tools and materials, refer to the appropriate practice in the 075-222 and 075-223 series of GTE Telephone Operations Practices.

1.2 Filing Instructions

This practice supersedes Issue 2, November 1988. Remove and discard Issue 2 and file this Issue 3 in its place in your practices set.

1. General, continued

- 1.3
Supersedures
- This document supersedes the following GTE Practices:
- 244-000-943CA, Numbering and Lettering - NEC Microwave Radio
 - • 244-010-200CA, Numbering and Lettering - CO Equipment - General.
 - 244-261-953CA, Numbering and Lettering - Central Office EC - C.O. Carrier - General.
 - 244-261-960CA, Numbering and Lettering - Central Office EC - Radio - General.
 - 244-261-961 CA, Numbering and Lettering - Collins Microwave Radio.
 - 244-392-960CA, Numbering and Lettering - Central Office Fiber.
- 1.4
Copyright and Responsibility
- This practice was written by the COE Construction Department and published by the Telephone Operations Administrative Services Department. For more information about this practice contact the COE Construction Department.
- No part of this work may be reproduced or copied in any form or by any means -- graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage and retrieval systems -- without the written permission of the Administrative Services Department, GTE Telephone Operations Headquarters, Irving, Texas.
- 1.5
Disclaimer
- This practice has been prepared for GTE Telephone Operations employees, customers, and end users' employees who operate and maintain the equipment engineered and installed by GTE. The information in this practice is subject to change and may not be suitable in all situations. GTE Telephone Operations acknowledges that a customer's special requirements or practices may take precedence over those supplied in this practice if a conflict develops during installation or ongoing operation. GTE Telephone Operations hereby disclaims any responsibility or liability for any consequential or inconsequential damages that may result from the use of this practice..

2. Overview

2.1 **Stencil equipment** in accordance with the following site documentation:

Guideline23

- Floor plan drawing(s).
- Equipment location drawing(s).
- • Power distribution and grounding job drawing(s).
- Cable running lists.

Measurement information should agree and be consistent in all the engineering documents. If not, consult with your engineer for proper identifications and return red-lined drawings and/or specifications at the completion of a work function but no later than the end of the job.

NOTE: It is not possible for this practice to cover all existing situations, so all drawings are to be considered typical. the identification sizes and locations should be followed as closely as possible.

2.2 **References** For general information regarding the use of lettering and stamping equipment, and embossing tools and materials, refer to the appropriate practice in the 075-222-xxx and 075-223-xxx series of GTE Telephone Operations Practices.

2.3 **Definitions** The term "labels" used in this practice **refers to:**

- Clear **MYLAR[®]**-type labels.
- Embossing tape.
- Pre-printed labels.
- Hand-stamping.

Labels must be of contrasting background to the surface on which they are applied.

2.4 **Surface Preparation** All surfaces to be labeled must be clean and free of foreign matter. Prior to the application of ink or pressure sensitive material, the surface must be wiped clean using a cloth with 1,1,1 Trichloroethane.

When a light background contrast is needed for the dark lettered labels, use a white pressure-sensitive paper label (MC 767332).

2.5 **CLLI Code Designations** When Common Language Location identification (CLLI) code designations are required, label the entire 11-digit code on all carrier repeaters, channel banks, fiber optic systems, and any other circuit equipment.

2. Overview, continued

2.6 Lettering Machines

The following lettering machines are acceptable:

- MERLIN EXPRESS'
- KROY[®] Labeling 300-400 Series
- DYMO[®] 2300
- DYMO[®] M-29D Type Writer
- ROTEX[®] 1300-A Tape Printer

2.7 Stencil Kit

Stencil Kit N-231 5 (MC 575152) is available. Refer to GTE Telephone Operations Practice 075-223-100 for ordering information.

2.0 Designation Strips/labs

For ordering information concerning various designation strips and tabs, refer to GTEAMS. See listings under STRIP-DESIGNATION and TAB-DESIGNATION.

For tab designation, refer to the Material Codes listed in Exhibits 18-20.

2.9 Typical Labeling Applications

Since it is not possible to show every existing numbering and/or lettering situation in this practice, Exhibits 1 through 17 show typical labeling applications. The labeling sizes and locations should be followed as closely as possible.

NOTE: These illustrations are not to be identified as specific types of equipment, but as various types and classes of transmission (i.e., carrier, microwave, fiber, and radio) equipment.

MYLAR is a registered trademark of E. I. Dupont de Nemours Company.
MERLIN EXPRESS is a registered trademark of Vaitronics.
KROY is a registered trademark of Kroy, Incorporated.
DYMO is a registered trademark of Dymo Visual Systems, Incorporated.
ROTEX is a registered trademark of International Rotex Incorporated.

3. General Labeling Instructions

3.1 Relay Rack

Place relay rack identification labels on guard rails, front and rear, with 3/4" size character labels (see Exhibit 2). Label relay rack mounting spaces, when required along the right edge of frame using 3/8" size numeric labels every five spaces (see Exhibit 1).

3.2 Miscellaneous Equipment

Label each piece of miscellaneous equipment, if not identified by the manufacturer. Include the name and part number of equipment. If preprinted labels are not provided for any piece of miscellaneous equipment, use a blank tag or other standard generic type label. Write the information in a format consistent with the office labeling structure.

3. General Labeling Instructions, continued

- 3.3 Fuse Panel, Power, and Lighting All fuse panel, power, and lighting labeling is included in GTE Telephone Operations Practice 244-251-200. Use a Porta-Pak cable marking pack (MC 762702) containing 36 three-inch and 18-six-inch strips for the identification of ground cables.
- 3.4 End Panel/Bay Designation Flags Equip each end bay in a lineup and the end of individual facing aisles with an end panel/bay lineup designation flag, using 3/4" or 3/8" size character labels. This identification labeling is usually switch manufacturer dependent. In some cases, designation card flag holders are provided with the equipment frames. Otherwise, label in the manner which is consistent within the office labeling structure. (Refer to GTE Telephone Operations Practice 244-200-100, Exhibit 7.)
- 3.5 Distributing Frames and Terminal Blocks Refer to GTE Telephone Operations Practice 244-01 O-202 for information regarding distributing frame and terminal block labeling.

4. Transmission Equipment

- 4.1 Office Repeater Termination Equipment Office repeater shelves (see Exhibit 16) must be labeled by COE Construction forces. Designate the:
- Fuse location/size.
 - DSX location.
 - Repeater numbering.
- All transmission type equipment (i.e., repeaters, channel banks, carrier, etc.) labeling must be consistent throughout the office.
- Specific transmission units and circuit requirements must be identified for all equipment. Label the current requirements for each fuse/circuit, space permitting, or maintain on assignment records. See Exhibits 3-5 and 9-20
- 4.2 Battery and Fuse Panels Typical labeling identification of battery and fuse panels used with transmission equipment is included in:
- Exhibits 6-8.
- AND
- GTE Telephone Operations Practice 244-251-200.

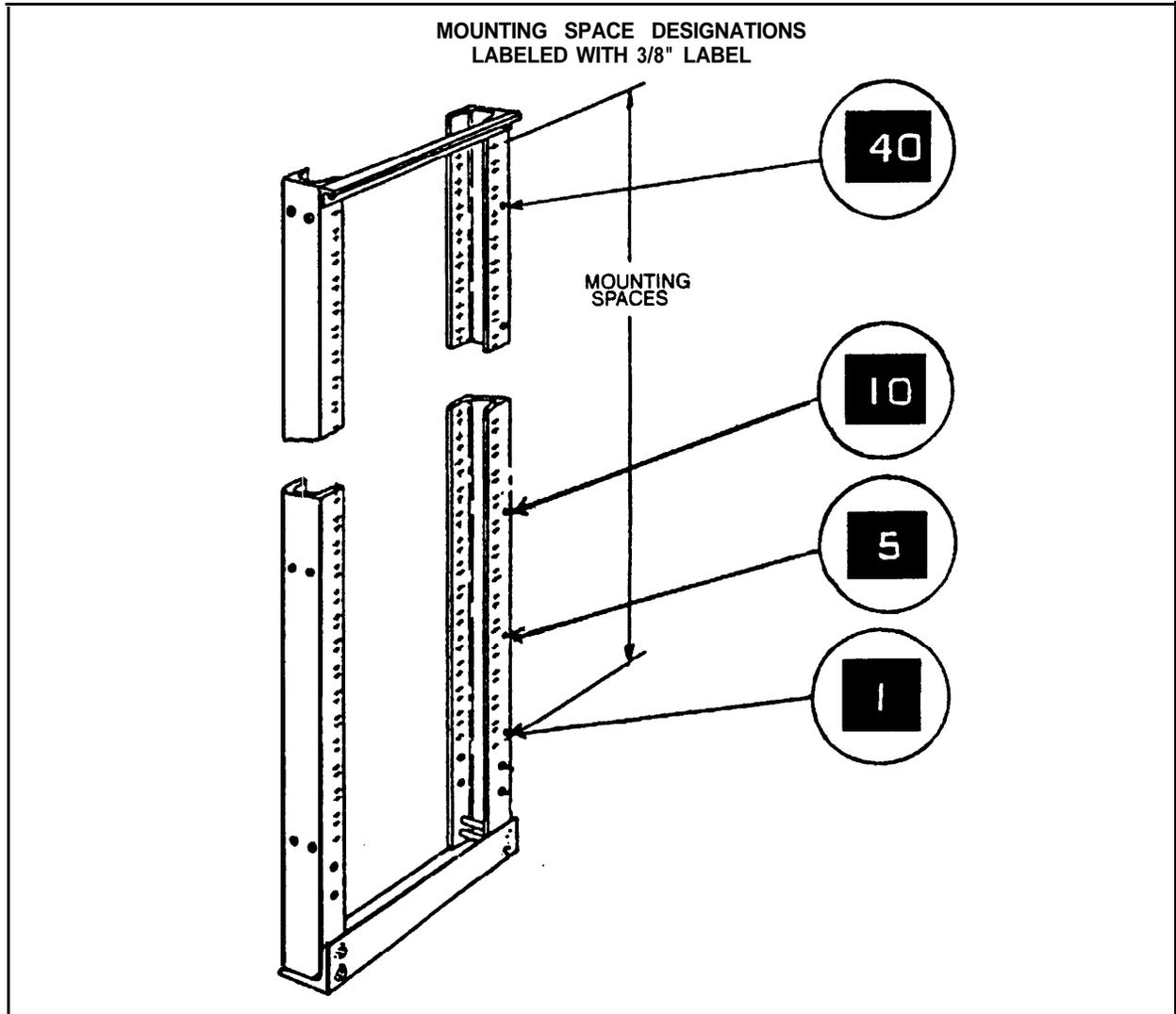


Exhibit 1 - Relay Rack Mounting Spaces

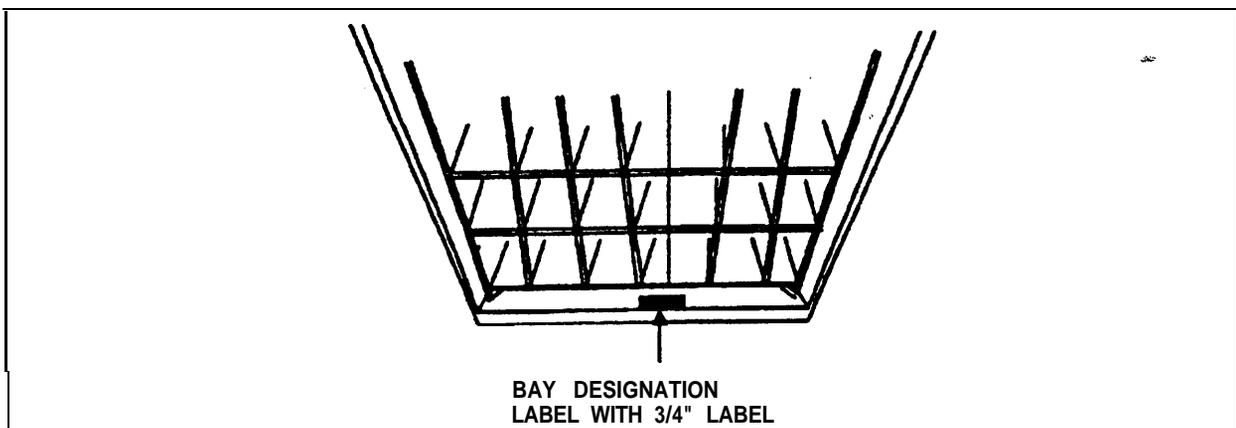


Exhibit- 2 - Relay Rack Identification

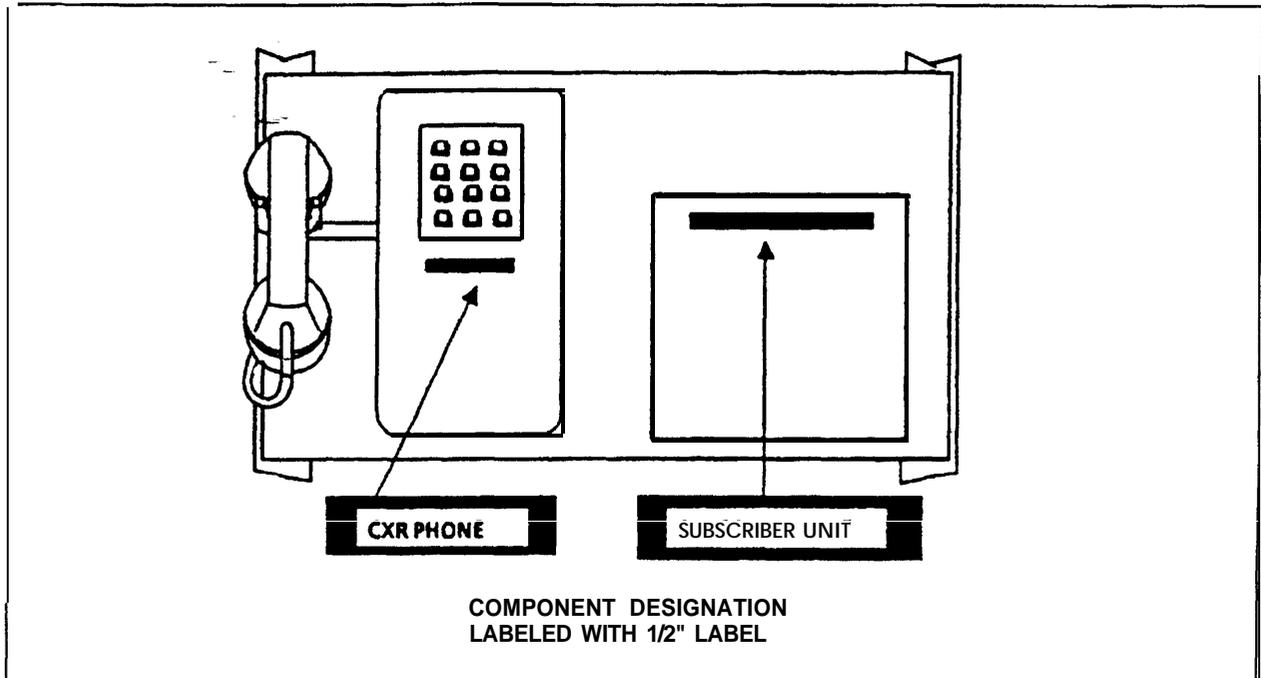


Exhibit 3 - Test Termination Component Designation

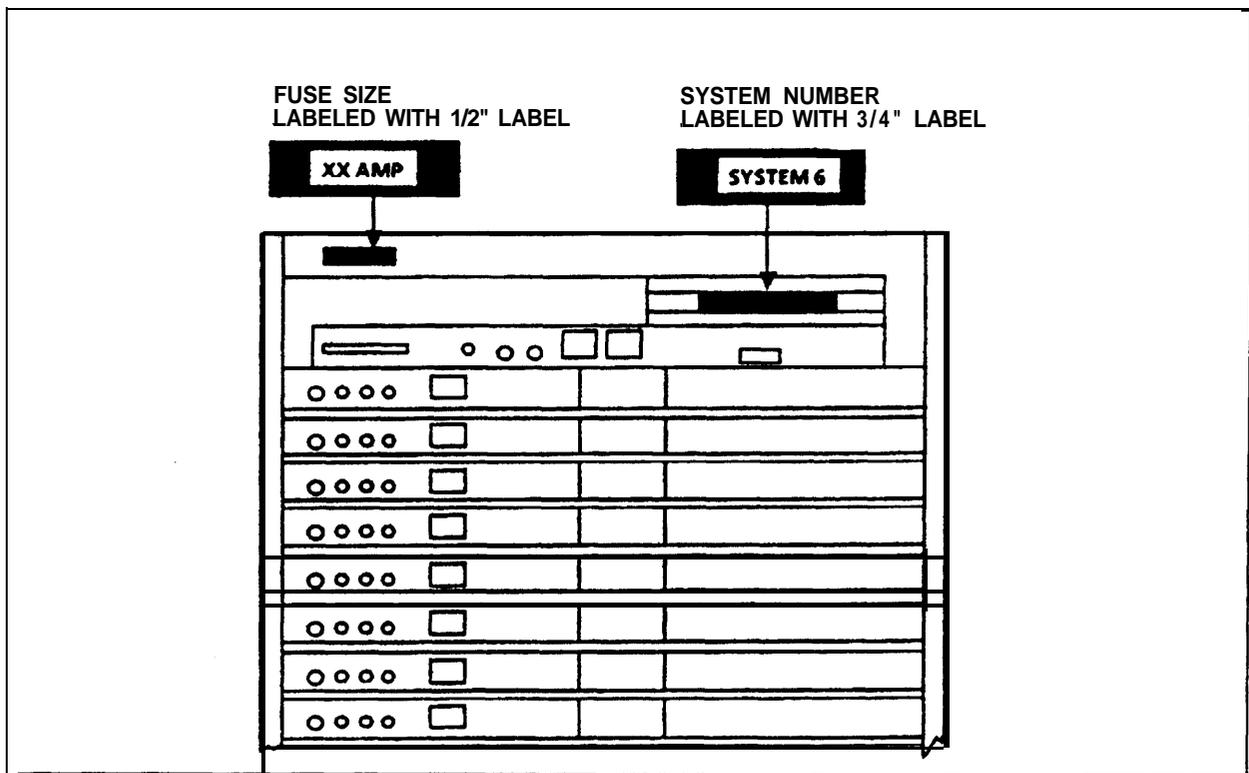


Exhibit 4 - Equipment Plate and T.B.1.

Exhibits, continued

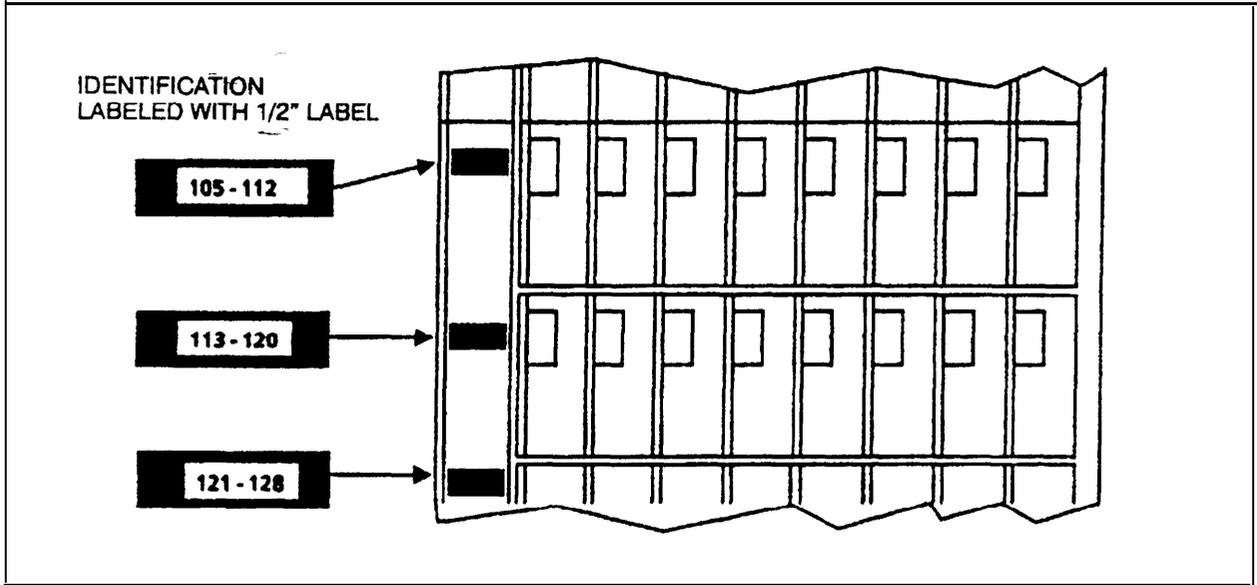


Exhibit 5 - Shelf Equipment Circuit

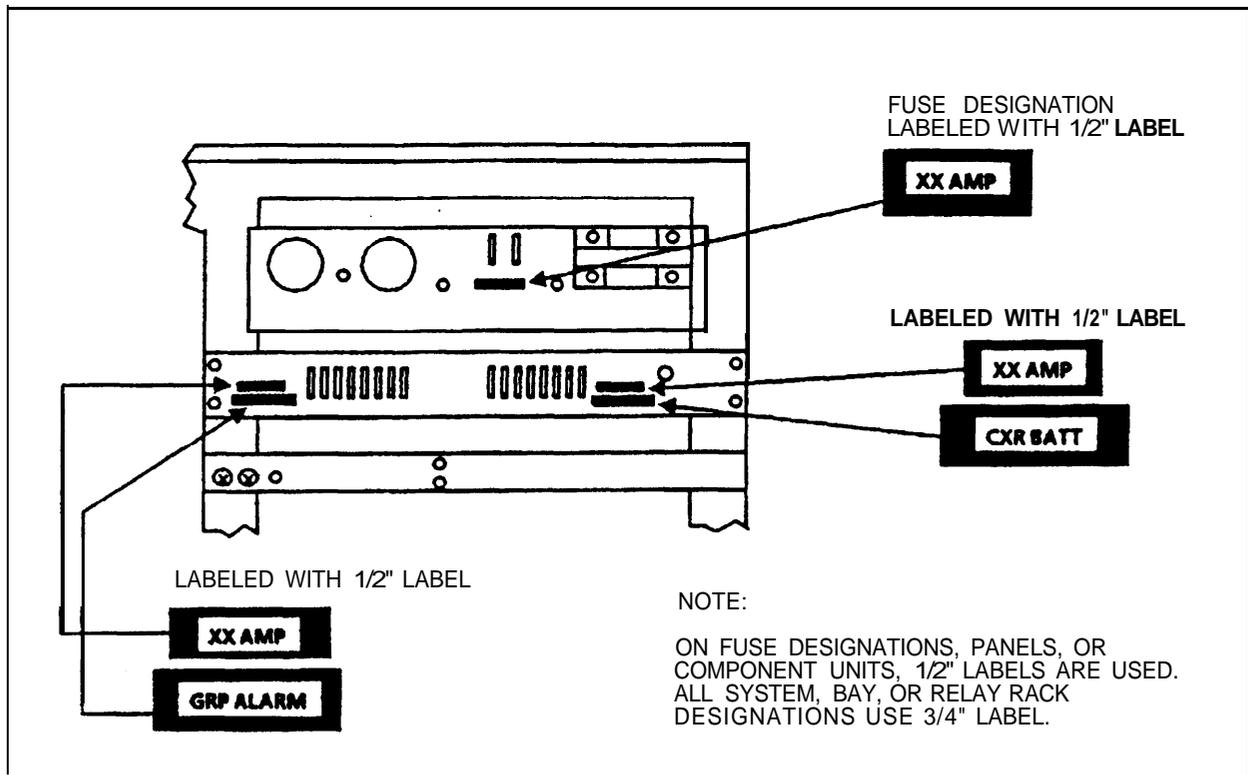


Exhibit 6 - Designations for Battery and Fuse Panel

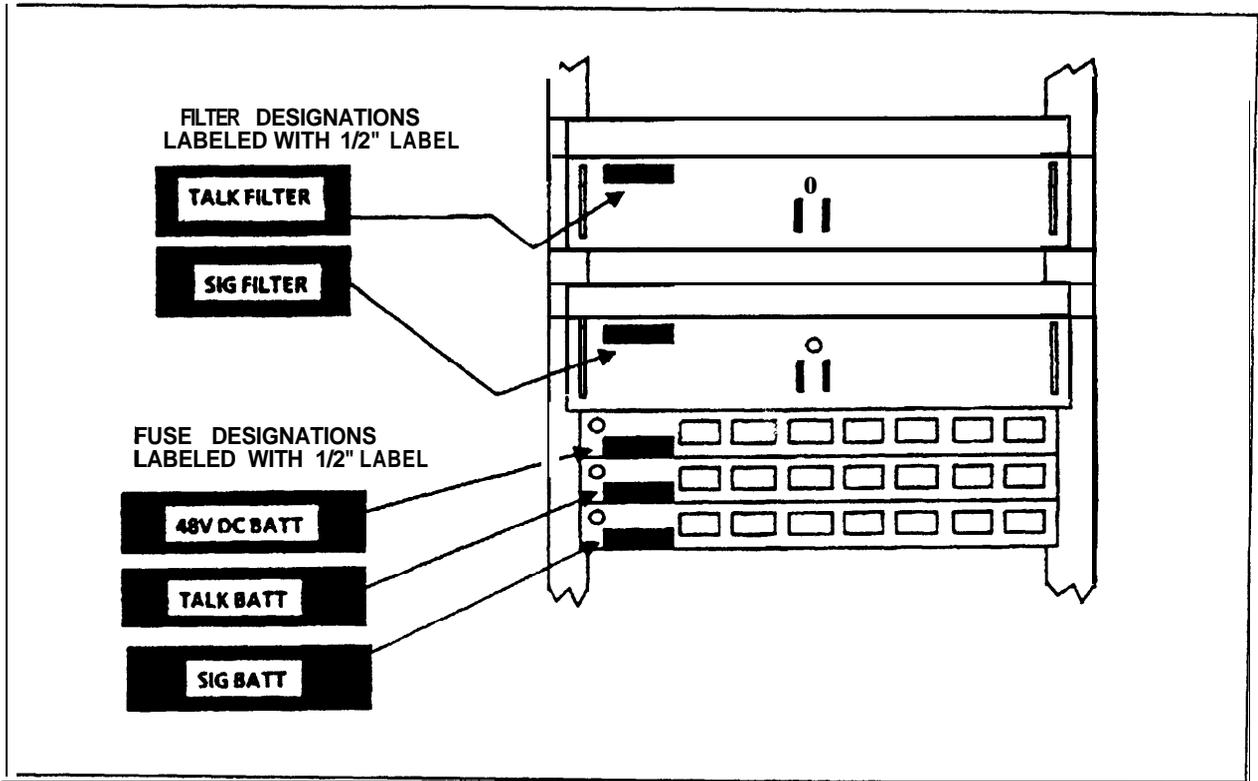


Exhibit 7 - Battery and Fuse Panels

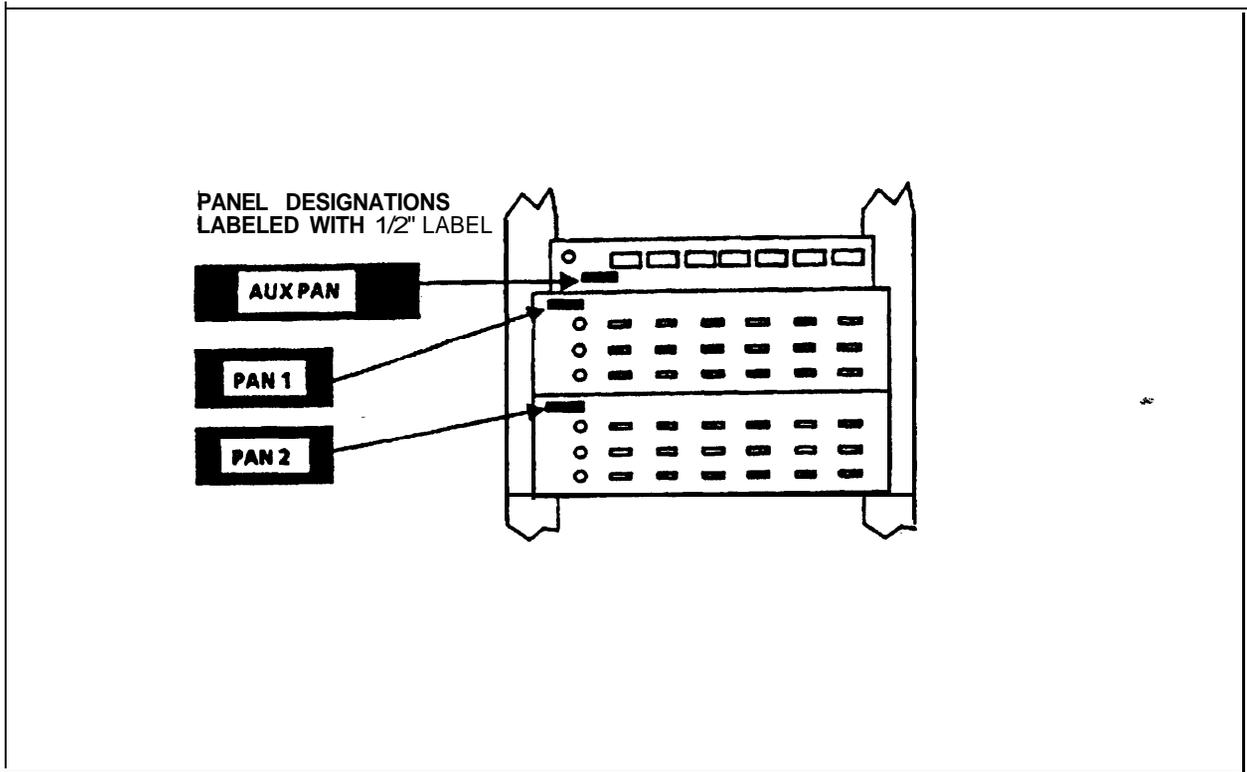


Exhibit 8 - Fuse and Alarm Panel and Auxiliary Fuse Panel

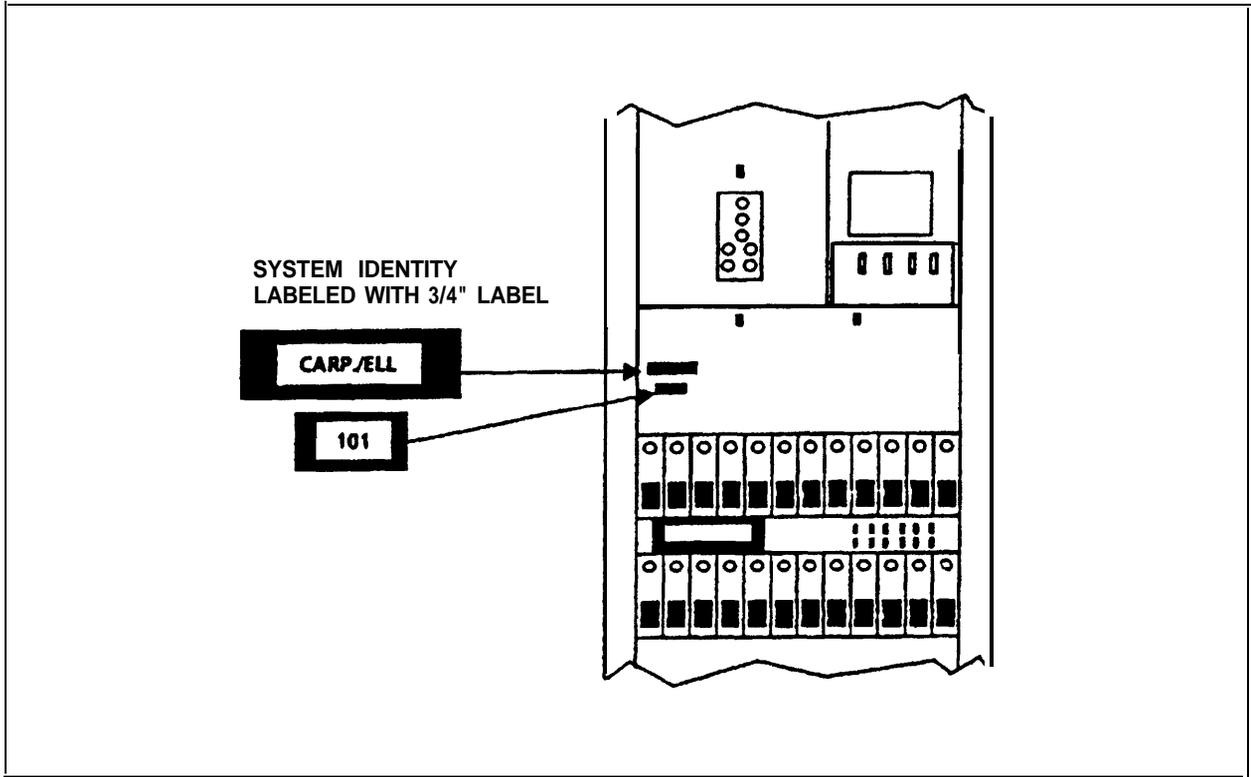


Exhibit 9 - Channel Bank Assembly

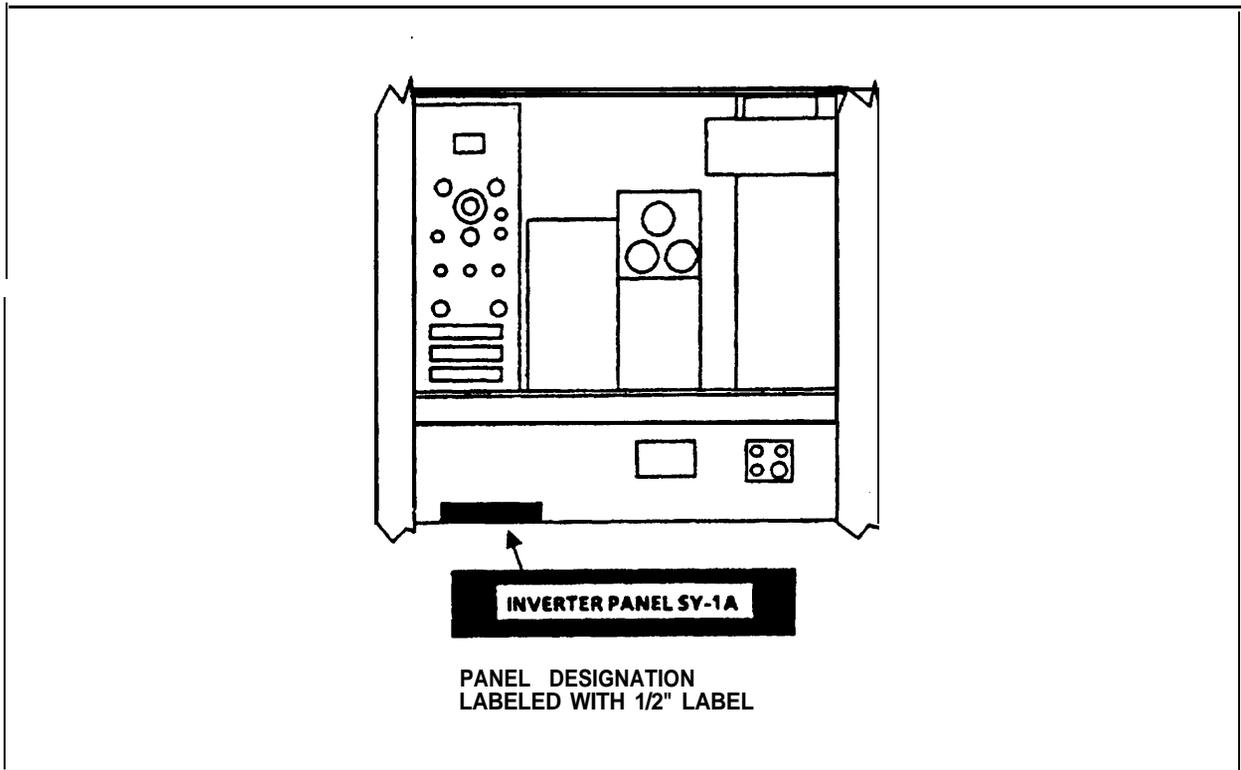


Exhibit 10 - AC Power Supply Shelf Panel

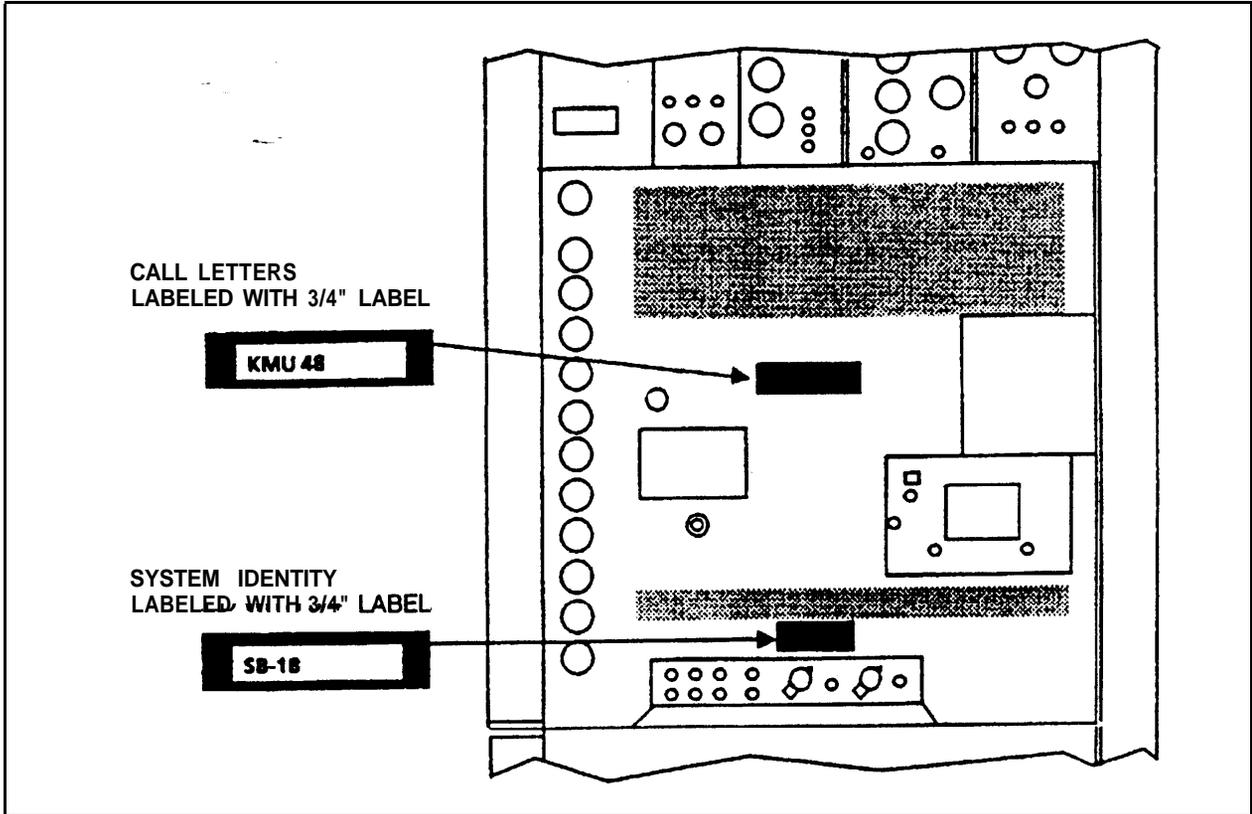


Exhibit 11 - Transmit Receive Assembly

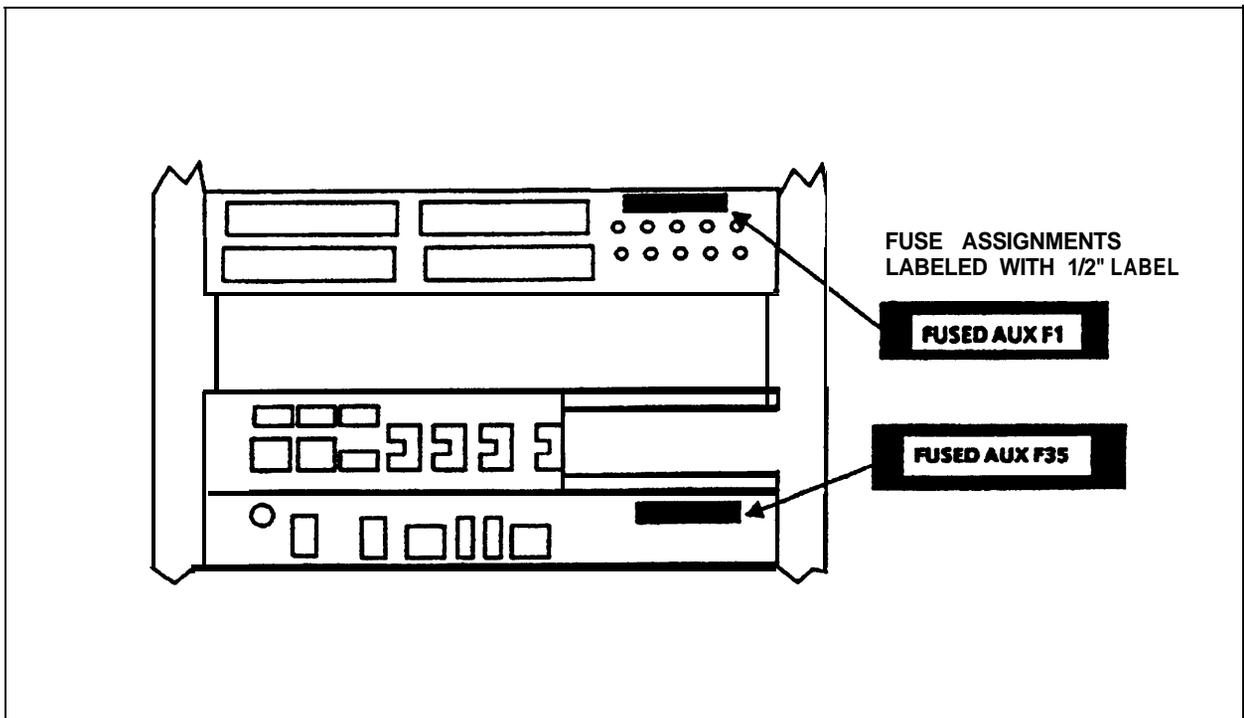


Exhibit 12 - Fault Locating Filter Panel and Order Wire

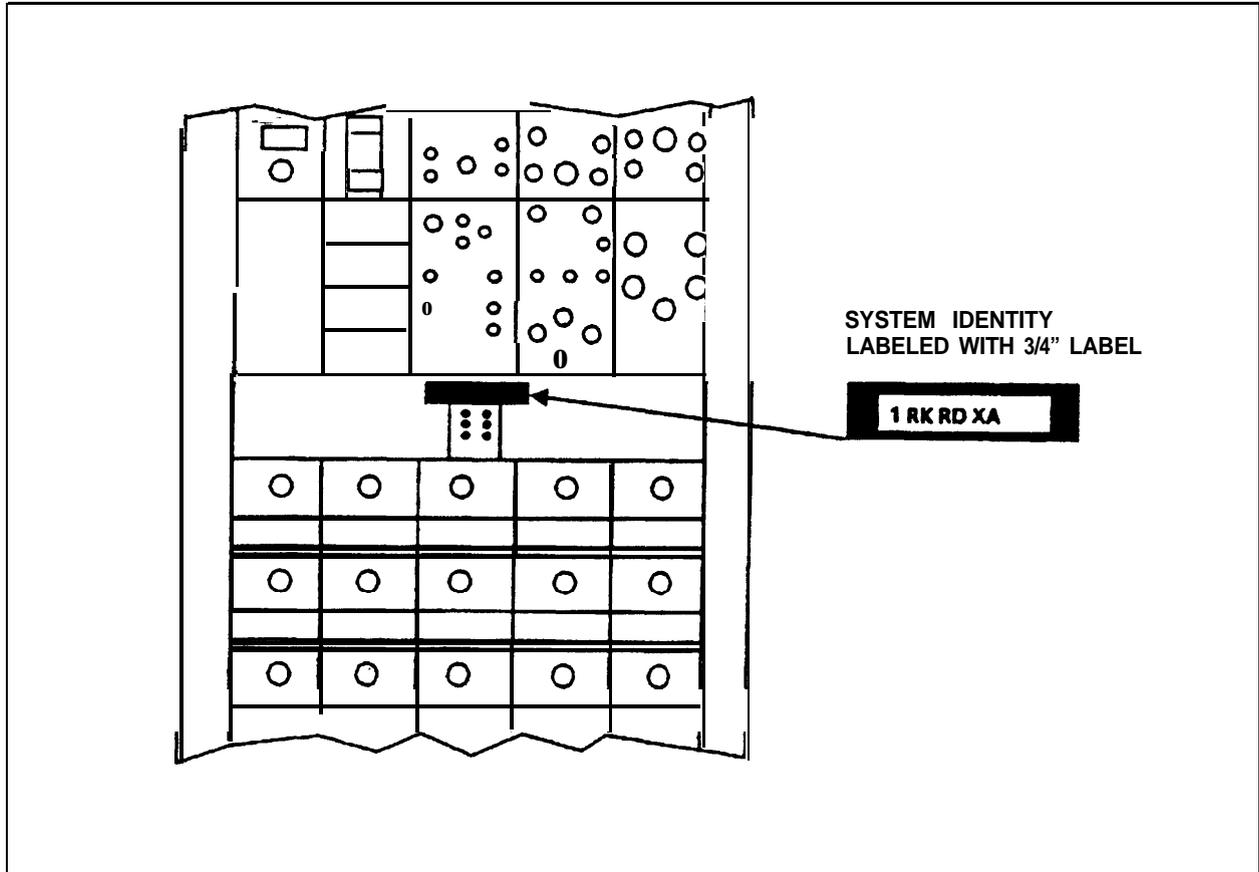


Exhibit 13 - Carrier Assembly System Identity

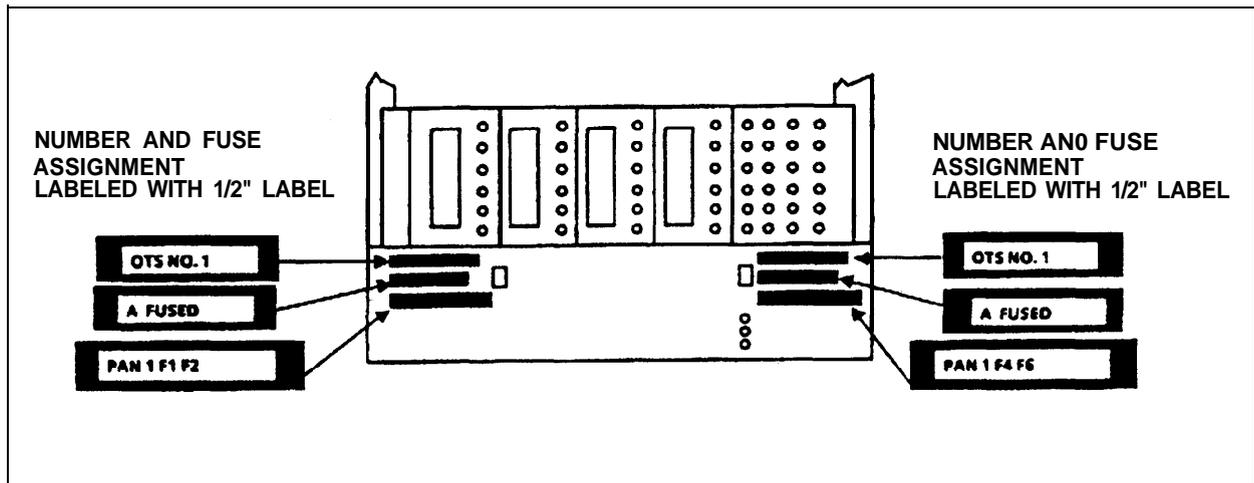
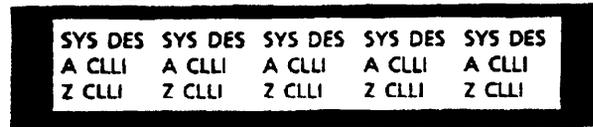


Exhibit 14 - Office Terminating Equipment

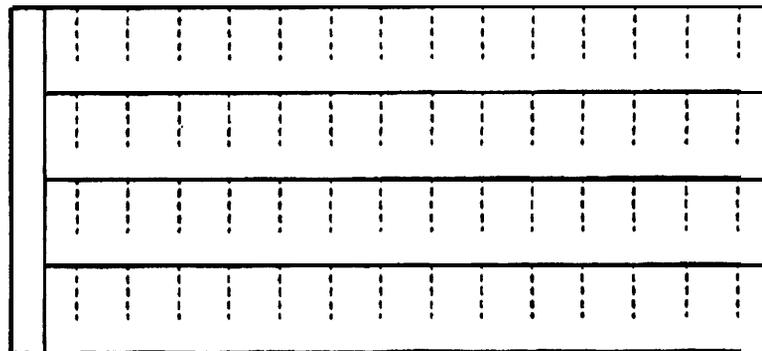
OFFICE TERMINATING REPEATERSHELF



LABEL ON SHELF SEPARATOR



D-4 CHANNEL BANK



CLLI CODES PLACED ON ALUMINUM ANGLE STRIPS

Exhibit 15 - Office Terminating Repeater Shelf and D-4 Channel Bank

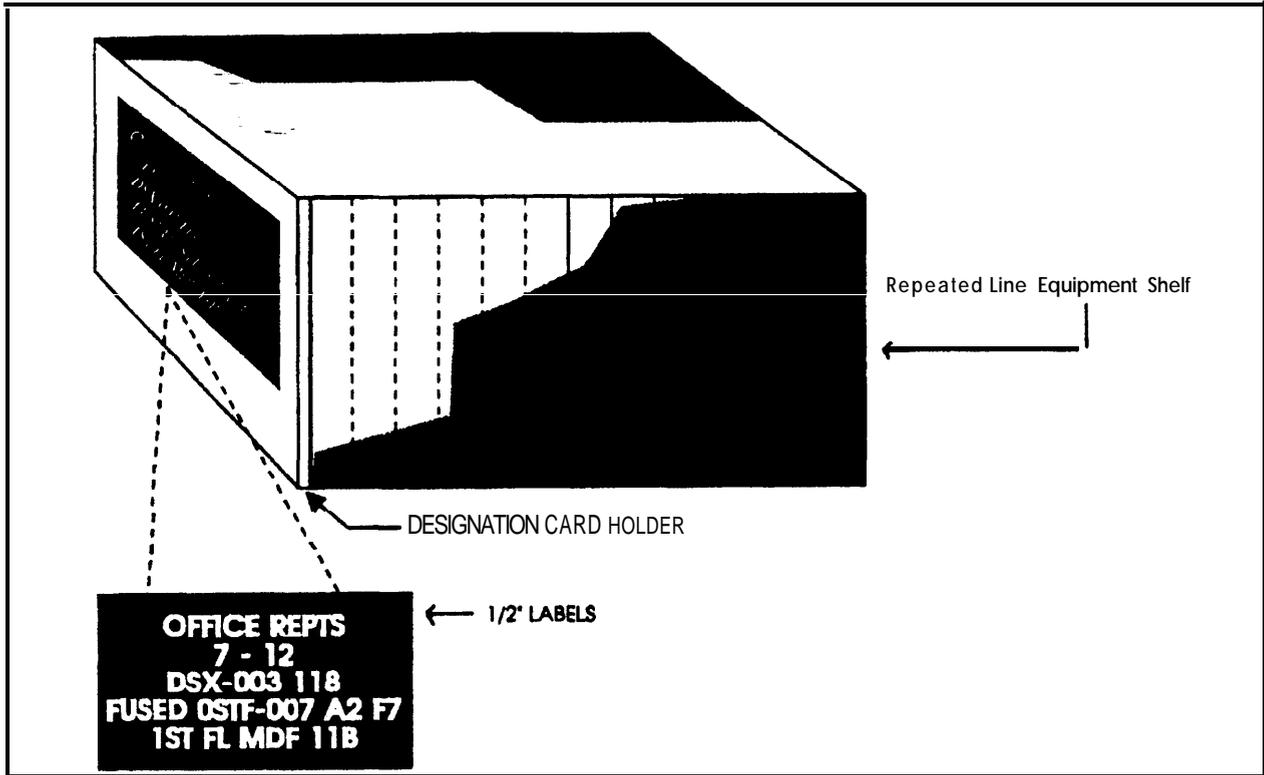


Exhibit 16 - Repeated Line Equipment Shelf

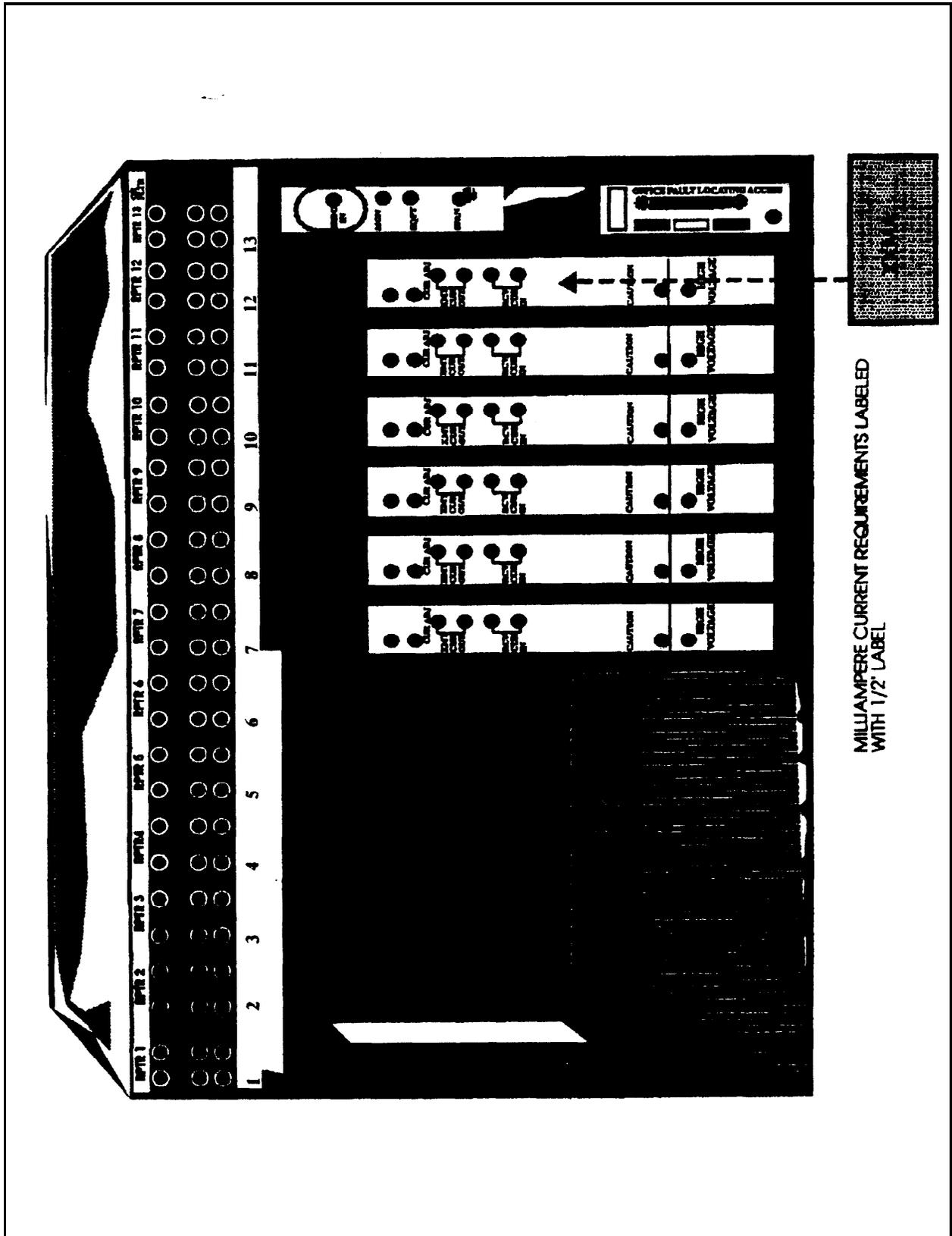


Exhibit 17 - Repeated Equipment

LABEL LETTERS

<u>LABEL LETTER</u>	<u>MATERIAL CODE</u>	<u>UNIT CODE *</u>
A	763061	74
B	763062	74
C	763063	74
D	763064	74
E	763065	74
F	763066	74
G	763067	74
H	763068	74
I	763069	74
J	763070	74
K	763071	74
L	763072	74
M	763073	74
N	763074	74
O	763075	74
P	763076	74
Q	763077	74
R	763078	74
S	763079	74
T	763080	74
U	763081	74
V	763082	74
X	763083	74
Y	763084	74
Z	763085	74

* 74 = SHEET

Exhibit 18 - Label Letters

Exhibits, continued

LABEL NUMBERS

<u>LABEL NUMBER</u>	<u>MATERIAL CODE</u>	<u>UNIT CODE</u> *
0	763094	74
1	763086	74
2	763087	74
3	763088	74
4	763089	74
5	763090	74
6	763091	74
7	763092	74
8	763093	74

* 74 = SHEET

Exhibit 19 - Label Numbers

LABEL WORDS

<u>LABEL WORD</u>	<u>MATERIAL CODE</u>	<u>UNIT CODE</u> *
BAY	763095	74
CON-N	763096	74
MISC	763098	74
REPT	763098	74
SEL	763098	74

* 74 = SHEET

Exhibit 20 - Label Words