

NEW
ELECTRONIC SWITCHING SYSTEMS
CIRCUIT DOCUMENTATION

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NOTICE

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1. GENERAL

A. Scope

1.01 This document describes the circuit documentation methods used in the circuit drawings (SDs) of electronic switching systems (ESSs) such as No. 3 and No. 4 and the 1A processor.* In developing wiring details for the extensive circuitry of these systems, machine aids were used almost exclusively. Similar methods have been used, where possible, in the preparation of the circuit documentation. For this reason, information in parts of the SDs described herein will reflect the use of machine-aided methods in their preparation. This document will describe only those areas of SD documentation in which the methods described herein have been used in place of other methods. For all other areas of SD documentation, the methods outlined in Section 005-110-101† apply.

1.02 This section is reissued to bring the information it contains into agreement with the latest practices. Since this reissue covers a general revision, the arrows ordinarily used to indicate changes have been omitted.

B. SD Types

1.03 The documentation arrangements and methods covered in this document apply to four types of SDs:

- (a) Functional unit SDs
- (b) Frame unit SDs
- (c) Frame SDs
- (d) Circuit pack information (CPI) SDs

1.04 **Functional Unit SDs:** These SDs cover circuitry capable of functioning on a stand-alone basis. In this SD category, a functional entity has its physical counterpart realized in a corresponding J-coded unit. The quantity of circuitry in these SDs can range from an amount occupying an entire frame, as in the case of the central control circuit of the 1A processor, to smaller units occupying only part of a frame.

1.05 Frame Unit SDs: These SDs cover circuit units used either in a single frame or in a number of separate frames. A frame unit SD will often appear repetitively on a particular frame SD. The circuitry of these frames is covered in paragraph 1.06. Frame unit SD documentation is intended to be used only in conjunction with documentation of frame SDs.

1.06 Frame SDs: The principal purpose of these SDs is to document the interconnecting circuitry between the frame units covered in paragraph 1.05. In this type of SD, connections are also shown between frame units and nonframe unit circuit packs (CPs) that are part of the circuitry covered by a frame SD. It is through the interconnections documented in frame SDs that functions comparable to those of functional unit SDs are realized on a frame basis.

1.07 Circuit Pack Information (CPI) SDs: These CPI SDs serve two purposes: to list all of the CPs used in a system and to collect, on a system basis, all of the circuit documentation on circuit modules (CMs) and integrated circuits (ICs).

C. SD Sectionalization

1.08 The SD types described in paragraphs 1.03 through 1.06 are all sectionalized, and the sections are identified with standard section letters. Sectional content corresponding to each of these section letters is given below.

SECTION	CONTENT
A	Drawing Indexes
B	Functional Schematics (FSs)
C	Apparatus Figures (App Fig.)
D	Circuit Notes and Tables
E	Sequence Charts (SCs)
F‡	Circuit Requirements Tables (CRTs)

* These systems are the first to use what is referred to as "1A Technology".

† To be issued.

‡ Little use of this section is likely because of the relatively small use of relays and similar wired-in-place components.

SECTION	CONTENT
G	Cabling Diagrams (CADs)
H	Block Diagrams (BDs)
J*	Circuit Pack Schematics (CPSs)
K†	Circuit Module Schematics (CMSs)

D. SD Section-to-Circuitry-Level Relationship

1.09 In general, circuitry in circuit units occurs at four separate levels: the backplane, CP, CM, and IC levels. The SD sections in which these circuitry levels are documented are listed below.

CIRCUITRY LEVEL	SD SECTION
Backplane	B
CP	J*
CM	K†
IC	D†

1.10 SD Section Categories: The ten sections listed in paragraph 1.08 fall into two categories: circuitry sections and auxiliary sections. The circuitry sections are B, J, and K; the auxiliary sections are A, C, D, E, F, G, and H. The auxiliary sections contain information that generally supplements the information in the B section, nominally the focal point of the SD.

E. Circuitry-Level Documentation

1.11 CP Level: The first three SD types listed in paragraph 1.03, namely, the functional unit, frame unit, and frame SDs, do not usually have J and K sections. For these SDs, the J-section documentation for CPs appears in separate CPS drawings with drawing numbers consisting of the prefix CPS followed by the alphanumeric apparatus code of the documented CP (eg, CPS-FA123). With respect to in-

formation content and arrangement, these CPS drawings approximate the standard format for the J section of SDs.

1.12 CM and IC Levels: The K-section information on CMs for a system as a whole is shown in a CPI SD. This SD also contains a D section for all of the information on ICs used in the system CMs and CPs. This SD will also have a brief J section that lists all of the system CPs by code number and with references to the using system SDs. [See 5. CIRCUIT PACK INFORMATION SDs (CPI SDs).]

1.13 Backplane Level: The functional unit, frame unit, and frame SD types differ from each other and from SDs in general with respect to the documentation of backplane circuitry in the B section. For this reason, this document will focus on the documentation methods for the B sections of these SD types. The G section for CADs will also receive particular attention with respect to some of the SD types.

2. FUNCTIONAL UNIT SDs

A. B Section, Functional Schematics (FSs)

General

2.01 B-section circuitry as documented in the functional unit SD consists of three parts:

- (a) Interconnection and flow diagrams (IFDs) that indicate backplane interconnections between CPs and other components in block diagram form.
- (b) Connection list tables that provide CP and other component terminal connection details of all IFD leads.
- (c) Composite diagrams that represent, in one or more composite forms, the circuit functions not readily apparent from IFDs alone.

Interconnection and Flow Diagrams (IFDs)

2.02 IFDs indicate the connections between CPs and other components at the backplane level. The CPs are represented with rectangular symbols and the backplane circuitry is indicated with FS and symbol number, or name destinations, at the stub ends of IFD symbol lines. Signal flow direction is indicated on these lines with directional arrows. Connections between symbols on the same IFD are shown with connecting lines.

* The use of independent CPS drawings eliminates the need for coverage in the J section of the using SD.

† The use of CPI SDs eliminates the need for coverage of CMs and ICs in the K and D sections of the using SD.

2.03 FS to IFD Relationship: For each FS in the B section there is only one IFD. Despite this kind of B-section makeup, the term FS will continue to be used for the purpose of associating the B-section FSs with the 3-part makeup of the FSs listed (refer to paragraph 2.01).

2.04 Symbol Numbers: To aid in identifying rectangular symbols within IFDs, and referring to them in FSs of the B section and in other parts of the SD documentation, IFD symbols are assigned symbol numbers, eg, SYMBOL NO. 1, SYMBOL NO. 2, etc. A symbol number is the first line entry in a symbol. Symbol numbers are generally assigned in numerical sequence from left to right and from top to bottom, beginning with the number 1 in each FS.

2.05 Other Symbol Entries: In addition to number entries in IFD symbols, there are customary entries for rectangular symbols, as follows:

- (a) The functional name or description of the CP represented by the symbol.
- (b) The functional designation assigned to (a).
- (c) The plug-in location of the CP within the equipment shelf, otherwise referred to as the CP equipment location.
- (d) The code number (apparatus or equipment) of the CP.
- (e) The CP element identifier (see paragraph 2.06).
- (f) The composite diagram number (this entry is to be included when it is necessary to establish a particular symbol-to-composite-diagram relationship).

Typical symbol entries corresponding to (a) through (f) are shown in Fig. 1 in their usual arrangement.

2.06 CP Element Identifier: The CP element identifier letter, the last or next-to-last line within an IFD symbol, identifies one or more separately identifiable circuitry subdivisions on a CP. These subdivisions can comprise the same or different circuitry. CP subdivisions are identified with the letters A, B, C, etc. The CP element identifier letter A is entered in a symbol even when there are no CP (circuitry) subdivisions.

2.07 Circuit Lead Destination Indication: Destinations of IFD leads from FS to FS are indicated in one of two ways. One way is by indication of an FS and symbol number destination at the end of a lead line, as shown in Fig. 1 and Fig. 16. The other way, also shown in Fig. 16, is by the indication of an FS destination within a double-line enclosing rectangle. The FS title is also shown in the rectangle. Lead destinations to other SDs are given at the end of lead lines with a circuit name (eg, TO ENABLE VERIFY CKT). When additional details are required, destinations to other SDs may also be shown in double-line enclosing rectangles. Specific information on backplane terminations of FS leads is obtained from the connection list tables that follow the IFDs. Details concerning these tables are covered in Connection List Tables (refer to paragraphs 2.10 through 2.13).

2.08 Circuit Leads—Identification: In IFDs, a single line represents one or more backplane circuit leads. The corresponding lead designations are shown above the IFD lead lines. When a lead line represents more than one lead, the number of leads is indicated below the lead line in parentheses, as shown in Fig. 1.

2.09 Test Connectors: Test connectors are those connectors engineered for front access testing. This category does not include connectors used as terminal strips which should appear in CAD figures. When test connectors are part of the FS (backplane) circuitry, they will be represented in IFDs with symbols in the same manner as CPs. These test connector symbols will also include an equipment location entry and a functional designation entry, if one has been assigned.

Connection List Tables

2.10 Connection list tables provide specific CP and other component terminal information not shown in the IFDs. For each IFD symbol within an FS, there is a separate connection list table. This is also done for symbols for test connectors. For each designated IFD lead, there is a corresponding lead designation entry in a connection list table with the same symbol number. The purpose of connection list tables is to provide near-end connection information for backplane leads terminating at specific CP or other component terminals. These tables also provide the far-end destination in the documentation, ie, the FS and symbol number at which a lead terminates.

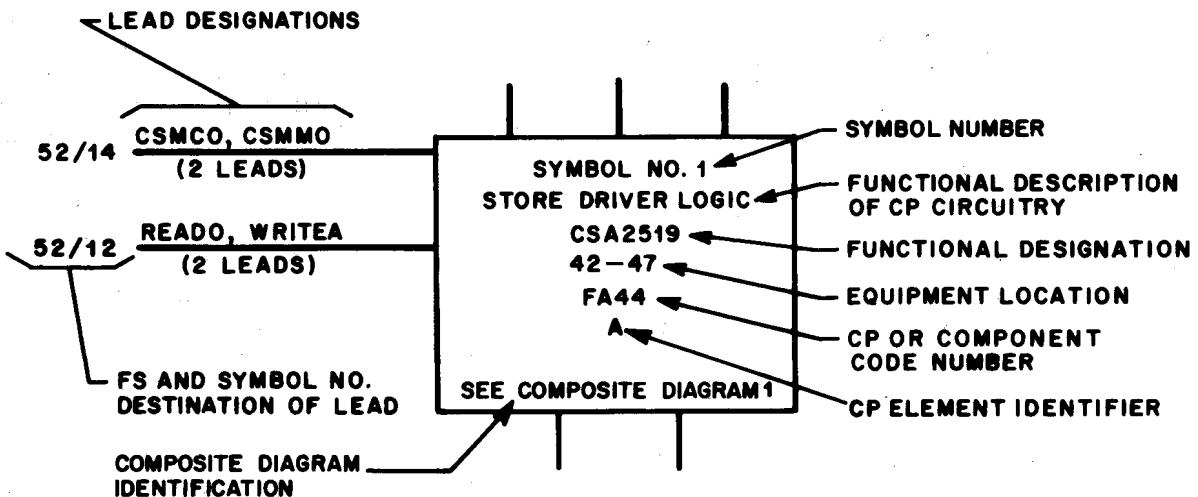


Fig. 1—Typical IFD Symbol Entries, Lead Line Designations, and Method of Indicating Their Destination

When the destination of a lead is another SD, the title of the SD is given in the table.

2.11 Connection List Table Headings: Connection list tables have headings that correspond to all of the line entries in IFD symbols. A typical table heading and column entry arrangement is shown in Fig. 2.

2.12 Connection List Table Columns: The contents of each of the separate columns are as follows:

COLUMN	EXPLANATION
LEAD DESIG	The same designated leads associated with a particular IFD symbol (input or output) are listed in this column in alphanumeric order. The first entry in this column appears after the last unused (active) CP terminal number entered in the TERM. column. (Unused [active] CP terminals appear with NC [no connect] in the lead designation column.) Typical LEAD DESIG column entries are shown in Fig. 17, Sheets 1 and 2.
FUNC	The letters I or O are the usual entries in this column. They indicate whether a lead is essentially an input or output lead of a circuit element, such as a gate on a CP. When the output lead of such a gate is connected to the output lead(s) of another gate(s), located on the same or another CP, the letter combination OT is entered in the column. The letter T indicates that the transistor collectors of two or more gates are connected in a wired-node manner. Other letter functions that may be used are IO (input-output), OI (output-input), OIT (output-input-wired-node connection), and LR (load resistor). The choice of IO versus OI is determined by the dominant function. GRD and PWR entries made in this column indicate that the particular CP leads are, respectively, the ground and power terminals of a CP.

COLUMN	EXPLANATION	COLUMN	EXPLANATION
TERM. MOD	Entries in this column show the lead designation by which a CP termination is identified in a CPS drawing. This entry is referred to as the terminal modifier or lead function (Net Name) at the CP level.	NOTE	This entry is for reference to lead wiring requirements that are usually covered either in FSs with an indication of pairing, or in a 200-series equipment note on the SD. When reference is made to a sheet note in this column, the note will be shown directly below the table. A typical entry for indicating wire pairing would appear as P/3G042H1, indicating that the lead in the LEAD DESIG column is paired with lead 3G042H1.
TERM.	Terminal numbers of CPs or other components are entered in this column. Used and unused (active) terminals are listed in this column, with the unused preceding the used terminals. Connections internal to a CP (not part of the backplane) between CP circuit elements A, B, C, etc, are identified with the letters IC (internal connection) or a combination of these letters and a CP terminal number, if a CP terminal is involved.		
WRG OPT	Entries in this column identify wiring which is connected only when the indicated option is specified. In some cases, wiring options are shown within parentheses in the DESTINATION column preceding the destination.		
DESTINATION	In this column, the FS-to-FS destinations shown in the IFDs are listed on an individual lead basis. Following the slash line of this entry, the symbol of the FS involved is also shown. Multiple FS and symbol number entries are separated with commas, as shown in Fig. 17, Sheet 1. Option letters, when applicable, are shown in parentheses in front of each optional destination. Also shown in this column are destinations to other circuits.		

2.13 Example Illustrating Use of IFD and Connection List Table Information:

- (a) For the purpose of this example, lead AASCSA0A of symbol No. 1 will be used. This is the same designated lead shown in Fig. 2. At the end of the lead line in the upper right of the IFD (coordinates B8) in Fig. 16, 54/1 is shown, indicating that the other end of the lead appears in FS54, SYMBOL NO. 1 in the B-section documentation (Fig. 18, coordinates F0). For leads in Fig. 16 shown terminating in double-line rectangles, the destination to the other FS is arrived at in a similar manner except for the omission of a symbol number.
- (b) For the functional meaning of the lead designation, AASCSA0A, the Designation Mnemonics Index should be consulted (Fig. 19). For the mnemonic part of the lead designation AASCSA, this index shows that the lead is associated with the auxiliary-unit-sequencer to call-store-address-bus signal flow. For information on the character significance makeup of lead designations, refer to paragraph 2.18.
- (c) To determine the specific terminal to which lead AASCSA0A is connected on a CP (designated CSA2519, see Fig. 17, Sheet 1), the Connection List Table for symbol No. 1 should be consulted. This list shows that the lead FUNC is I, confirming the direction shown in the IFD, and that it connects to CP terminal 107. The CP designation CSA2519 is shown at the top of the table under DESIG. The DESTINATION entry 54/1 indicates that the other end of the connection or lead is at FS54, SYMBOL NO. 1, as shown in Fig. 18.

<u>SYMBOL NO. 1</u>						
STORE DRIVER LOGIC						
<u>DESIG</u>	<u>EQPT LOC</u>	<u>CODE</u>	<u>ELEM IDENT</u>	<u>OPT</u>		
CSA2519	42-47	FA44	A			
<hr/>						
<u>LEAD DESIG</u>	<u>FUNC</u>	<u>TERM. MOD</u>	<u>TERM.</u>	<u>WRG OPT</u>	<u>DESTINATION</u>	<u>NOTE</u>
NC	ø	01040	302			
•	•	•	•			
•	•	•	•			
•	•	•	•			
•	•	•	•			
AASCSAOA	I	GSCB00	107	Z	54/1	
•	•	•	•		•	
•	•	•	•		•	

Fig. 2—Connection List Table and Column Headings for Functional SDs

The TERM. MOD entry shows that in the CP drawing, CPS FA44, the CP terminal to which this lead is connected has been assigned the identification GSCB00. This lead is located in the CPS FA44 drawing at coordinate A1 as shown in Fig. 20, Sheet 1. This TERM. MOD GSCB00 is also listed in the CP tabular SYMBOL 1, shown in Fig. 20, Sheet 2.

Composite Diagrams

2.14 The purpose of these diagrams is to provide the functional information normally conveyed in FSs, but which is absent from the IFDs. Composite diagrams provide this information for circuit understanding and are therefore an essential part of the FS documentation in the B section.

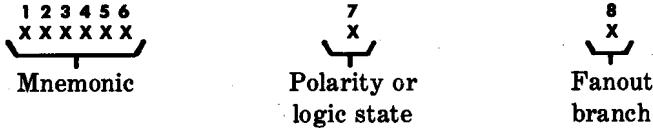
2.15 Composite Diagram Forms: Information in composite diagrams can take one of several forms, ranging from abbreviated diagrammatic functional representations to Boolean algebraic expressions. Diagrammatic representations of different makeup are the forms most commonly used for con-

veying the time-dependent functions of sequential (synchronous) circuits. Boolean algebraic expressions are restricted mainly to representing the combinational logic of the circuit segments of the larger sequential circuits. The composition of the diagrammatic part of the composite diagram can include some or all of the following specific types of diagrams and information: functional block diagrams; abbreviated logic diagrams, per se; timing diagrams; state diagrams; truth tables; and word descriptions. The composite diagram portion of the sample FS in Fig. 21 uses three of these types of information forms: a functional block diagram, an abbreviated logic diagram, and a word description. The functional block diagram, Composite Diagram 1 in this case, establishes the overall circuit functions of the call store address bus drivers. General functional grouping of leads used for accessing, enabling, and selection are indicated. In an abbreviated manner, Composite Diagram 2 shows the essential logic functions involved in the accessing, enabling, and bus selection functions of the FS circuitry. The single line representation used in this diagram is consistent with the abbreviated presentation of such information.

2.16 Circuit Operation: For each FS, a brief description of circuit objectives and operations, titled CIRCUIT OPERATION is provided either as part of or separate from composite diagram information as shown in Fig. 21. The text of this information is presented in a manner that will permit easy correlation with diagrammatic information in the related IFDs and composite diagrams.

2.17 State and Timing Diagrams: When circuitry depicted in an FS functions in a sequential mode, information in addition to that shown on the composite diagram, Fig. 21, will usually be shown. This additional information will define the specific input-output characteristics of the circuit. For this, state or timing diagrams, or both, are shown in addition to abbreviated logic and block diagrams. These additional diagrams are used to depict the succession of output states through which the circuit passes as its input signals vary. Also included are the internal state transitions that a circuit undergoes for each condition of circuit output. Tables of the truth-table type may also be used to supplement the information of the additional state and timing diagrams.

2.18 Designations, Character Significance: Component, lead, and symbol designations for the ESS systems and projects are limited to eight characters. The makeup and significance of character grouping within a designation are as follows:



The mnemonic part of a designation usually consists of from one to six characters, but may include as many as seven if the character for indicating fanout branching is not used. Multicharacter designations are usually in an alphanumeric format. The mnemonic part of the designation conveys functional information. The polarity or logic state character is either a 1 or a 0, depending on the state of a lead during its active condition. Positive logic interpretation of the 1 or 0 applies. The fanout branch character is used to distinguish between several leads with the same function (mnemonic).

2.19 B Section, Sheet Numbering: Sheet numbers of drawing sheets in the B section are made up of the FS number that may appear on one or more sheets and a double alpha suffix, depending on whether the sheets are part of the IFD, the connection list

table, or a composite diagram. For example, the first sheet of FS2 (of the IFDs) would be numbered B2AA. The double alpha suffixes used for the IFDs, the connection list tables, and composite diagrams are as follows:

IFDs—AA through AY and BA through BY

Connection list tables—CA through CY, DA through DY, EA through EY, and FA through FY

Composite diagrams—GA through GY, etc

B. A Section, Drawing Indexes

2.20 The A-section indexes facilitate location of circuitry components, leads, and options in the B, C, and G sections of a functional unit SD. There are five indexes, titled Sheet Index, Designation Mnemonics Index, Apparatus Index, Lead Index, and Option Index. As to their use in the functional unit SD, only the contents of the apparatus, designation mnemonics, and lead indexes will be covered in this document. The other indexes, when used, will conform with existing practices.

2.21 Designation Mnemonic Index: This index lists in alphanumeric order the mnemonic and the definition of all lead and component designations used in the SD. For lead designations, the FS number of the initial output is provided. For leads connecting to external circuits, the FS number of the first appearance of the lead designation is provided. Typical entries are shown in Fig. 19.

2.22 Apparatus Index: This is an index of CPs and similar components used in the circuit. Consistent with the fact that CPs are the most prevalent components in the newer ESS circuits, the apparatus indexes will usually consist mainly of one or more listings pertinent to CPs. Given, for example, the functional designation of a CP, the user of the SD can determine from the apparatus index where CP circuitry is represented in the B section (by FS and symbol number), where a CP is listed in an App Fig. of the C section, and where it is physically located in the equipment. Two kinds of tabular listings are used in the ESS SD apparatus indexes. One is for listing CPs by equipment location in numerical order and the other is for listing CPs by functional designation in alphanumeric order. See Fig. 3(a) and 3(b) for apparatus index examples.

EQPT LOC.	APP FIG.	
	NO.	SH NO.
CIRCUIT PACKS		
22-31	2	C3

Fig. 3(a)—Apparatus Index by Equipment Location

DESIG	LOCATION		
	FS/SYM	APP FIG.	EQPT
CIRCUIT PACKS (CP)			
LMO	3/7	2	22-31

Fig. 3(b)—Apparatus Index by Functional Designation

2.23 Lead Index: Headings for indexes of leads to external circuits will consist of titles (names) of the external circuits (eg. PROC PERIPH BUS CKT) listed in alphabetical order. Each lead will refer to an FS number and symbol number (FS/SYM), and a CAD number and sheet number (CAD/SHEET). Under each of the circuit names, leads are listed in alphanumeric order. [See Fig. 4(a).] When the lead designations of connecting circuits do not agree, the noncontrolling circuit lead index shall provide an additional designation column to show the required translation. [See Fig. 4(b).]

2.24 Option Indexes: These indexes indicate the documentation locations of optional components and circuitry.

C. C Section, Apparatus Figures

2.25 CP App Fig. Tabular Arrangement: By their arrangement, CP tables convey the relative physical locations of CPs from bottom to top and left

DESIGNATION	LOCATION	
	FS/SYM	CAD/SHEET
EXTERNAL CIRCUIT TITLE		
ABCOO	12/6	4/GB5

Fig. 4(a)—Lead Index With the Same External and Internal Lead Designations

DESIGNATION	LOCATION			
	EXTERNAL	INTERNAL	FS/SYM	CAD/SHEET
EXTERNAL CIRCUIT TITLE				
ABCOO	DEF00	17/3	4/GB7	

Fig. 4(b)—Lead Index With Different External and Internal Lead Designations

to right of the equipment bay or the frame housing them, as viewed from the equipment side. This location is shown as the first line entry in the table as EQPT LOC as shown in Fig. 22. For a typical entry, such as 42-47, the coordinate 42 indicates that CP CSA2519 is located in a shelf 42 inches up from the bottom of the bay or frame. Coordinate 47 indicates that this CP is located in the 47th slot from the left side of the bay or frame. Each App Fig. begins with the lowest shelf of the group of CP shelves comprising the App Fig. From such CP App Fig. tables, the physical disposition of all CPs within a bay or frame can be determined without consulting an equipment drawing.

2.26 CP Circuit Elements: When a CP consists of a single circuit element or entity, there is a single entry in the CP table that aligns with the circuit element letter A shown at the end of the table. CPs having more than one identifiable circuit element have additional entries corresponding to the number

of such circuit elements. These are shown in alignment with the table letters B, C, etc, as shown in Fig. 22. These circuit element letters are also the last or next-to-last line entries in IFD symbols.

2.27 Components: The location of components other than CPs is also given in the App Fig. by FS and symbol number.

D. D Section, Notes and Tables

2.28 In this section the usual circuit, equipment, and information notes are shown as required. Information likely to appear in functional unit SDs under each of these note categories is described in paragraphs 2.29 through 2.31.

2.29 Fusing Note, 101: In the table for this note, a reference may be made to a power distribution type of SD for information relating to the allocation of the on-circuit-frame primary fuses. Otherwise, entries in the table are made in accordance with existing practices.

2.30 Circuit Notes, General: With respect to other 100-series circuit notes such as the feature or option and record of changes notes, information content and arrangement is in accordance with existing practices.

2.31 Equipment Notes: These 200-series notes will usually specify such wiring requirements as cannot be indicated or conveyed in the IFDs and connection list tables. Among the requirements usually covered are those related to critical wiring. Typically, these can specify the wiring run limits over which a particular type of wire or coaxial cable is to be used.

2.32 Information Notes: The 300-series notes may contain a table of the CP codes and their lowest acceptable series number which may be used in the circuit. When required, this table is usually contained in Note 302 and worded as follows:

302. The following table lists all the circuit pack codes used in this circuit and their lowest acceptable series number. A circuit pack of a higher series number should not be used if coordination is required with an outstanding class A change.

<u>CP CODE</u>	<u>SERIES NUMBER</u>
----------------	----------------------

E. E Section, Sequence Charts (SCs)

2.33 General: An E section for SCs is usually included for the ESS synchronous sequential circuits such as are covered in a functional unit SD. Such SC information will consist of diagrammatic representations (DRs), timing charts (TCs), and internal state diagrams (ISDs) in the standard manner. SC information may be shown in some instances as part of the makeup of composite diagrams.

F. G Section, Cabling Diagrams (CADs)

2.34 General: In functional unit SDs, and in the newer ESS SDs, the G section is generally divided into two subsections, GA and GB. Subsection GA is for graphical manually-prepared CADs and GB is for tabular machine-prepared CADs. Graphical CADs are used in the ESS SDs only when connections to adjacent terminating devices vary frequently and in a manner not easily interpreted from a tabular-type presentation. Since graphical CADs, when used, will conform to standard practice, the remainder of **2. F. G Section, Cabling Diagrams (CADs)** will be devoted to explaining the arrangement and interpretation of the newer machine-prepared tabular CADs.

2.35 Machine-Prepared Tabular CADs: All tabular CADs are supplemented with graphical-equivalent representative notes at the beginning of the GB subsection. A typical tabular CAD with the usual headings and line entries is shown in Fig. 23. In Fig. 5, the headings and line entries of part of the Fig. 23 CAD are shown. The equivalent graphical representation of the tabular entries of Fig. 5 are shown in Fig. 6.

2.36 Tabular CAD Headings and Interpretation:

Immediately under the CAD number caption, a general heading for the entire CAD plus the associated App Fig. number is indicated (eg, LEVEL 065 TO 069 INTRAFRAME CABLING APP FIG. 3). Below this heading and above each of the three major tabular columns on a CAD sheet, as shown in Fig. 23, there is a subcaption for each set of columns of the tabular arrangement, such as is shown at the top of Fig. 5. The FROM CONNECTION and TO CONNECTION headings on the first line of this subcaption convey the equivalent of the "shop" and the "installer" information side, respectively, of CADs. The significance of the other parts of the subcaption can be seen from the equivalent graphical representation shown in Fig. 6. The JACK/TS below the subcaption

to the right in Fig. 5 indicates that the right side (shop side) of the CAD involves connections (wire runs) from a CP connector located at coordinate 72-28, to another CP connector located at coordinate 65-47, with no CP plugged into it. This connector serves as an intermediate connecting point device (staging area). Over the backplane pins of this connector, there is a Berg (female) connector designated J4, as shown in the subcaption. To this Berg connector a flex cable, CA141*, is attached, as shown in Fig. 5 and 6. The other end of this cable is terminated directly to the CP connector pins at location 69-47, as shown in Fig. 5 and 6. The particular lead designations and terminal numbers on CP connectors are also indicated as part of the tabular information. An entry in the subcaption of JACK/CP rather than JACK/TS would indicate the omission of an intermediate connecting point from location 72-28 to location 65-47. In this case, the initial CP Location could be, for example, at 65-47. The note in parentheses in the subcaption, to the right of JACK/TS, is a reference to the graphical equivalent representation shown at the beginning of the CAD section.

G. H Section, Block Diagrams (BDs)

2.37 General: When H sections for BDs are included in functional unit or other ESS SDs, they will be presented in the usual manner.

3. FRAME UNIT SDs

A. General

3.01 Frame unit SDs document the circuitry of units that are wired together in a frame. In many cases, a particular unit will be used repetitively in a frame, similar to the multiple use of a CP in a circuit unit. This being the case, the documentation in these SDs is arranged substantially the same as in functional unit SDs. The most significant area in which the two SD types differ is in the G-section documentation, as covered in paragraphs 3.03 and 3.04.

B. B Section

3.02 The more-than-one use of frame unit SDs in a frame may preclude the indication of connections to specific frame units within a frame. For this

reason, lead destinations to these other frame units are usually indicated in the B section with the notation TO CONN CKT.

C. G Section, Cabling Diagrams (CADs)

3.03 The principal difference in the G sections of frame unit SDs is that CAD1 is set aside to list all of the FS leads for which the destination TO CONN CKT is shown. The frame unit SD CAD1 format is similar to the tabular symbol presentation used in CP drawings, as shown in Fig. 20, Sheet 2. Under an overall CAD1 heading, the several circuitry subdivisions of a frame unit are identified with a subheading ELEMENT IDENTIFIER A, B, C, etc, plus a title, as shown in Fig. 24. Under each of these subcaptions is a tabular listing of the ELEMENT leads involved.

3.04 Unit Symbol, CAD1 Tabular Arrangement:

The specific tabular arrangement used in CAD1, below each of the ELEMENT IDENTIFIER and title subheadings, is shown in Fig. 7. In the example shown in this figure, entries in the ACCESS TERM. and FS TERM. columns differ. This indicates that, in this case, the intraframe leads from a frame unit CP terminate at a terminating device (a connector unused by a CP) at another location.

3.05 Unit Symbol, CAD1 Tabular Headings: Information covered by entries in the tabular columns of Fig. 7 is as follows:

COLUMN	EXPLANATION
TERM. MOD	Frame unit SD lead designation which is used as a terminal modifier at the frame SD level (similar to CP terminal modifier).
FUNC	Lead function: input, output, etc, as defined by frame unit SD.
ACCESS TERM.	Terminals on a frame unit terminating device to which input and output connections to the frame unit are made.

* When cable numbers are required, the WE-assigned numbers are used. For initial issue of the SD, if WE cable numbers are not available, BTL assignments are noted for reference only.

COLUMN	EXPLANATION
FS TERM.	FS backplane CP terminations of a unit from which connections are made to ACCESS TERMS. Inputs and outputs to the frame unit can also be made directly to or from FS TERMS, in which case the entries in the ACCESS and FS TERM. columns would be identical.
LOC FS/SYM	Location of FS TERM. given by FS and symbol number.
CAD	When leads also run to other connecting devices the CAD number of the connecting device is shown.
OPT/NOTES	Options are shown in parentheses to indicate that the connections shown are provided only by the option specified. Other entries in this column reference lead wiring requirements that are usually covered either in FSs with an indication of pairing or in a 200-series equipment note of the SD. A typical entry for indicating wire pairing would appear as P/ATSPBOG, indicating that the lead referenced in the TERM. MOD column is paired with the lead ATSPBOG.

3.06 Interunit CADs: Leads of frame units that connect externally to circuits outside of the frames in which they are housed are generally accounted for in the CADs of the associated frame SDs, as described in paragraph 4.10. Other external leads of frame units not covered in CADs of frame SDs would be shown in CAD2, 3, etc, of the frame unit SDs.

3.07 Intra-Unit CADs: CADs for frame unit intra-unit connections may also be included in the G section of frame unit SDs. This will occur when backplane wiring convenience-connecting devices are used which are not shown in the FSs of the B section.

D. A Section, Drawing Indexes

3.08 Over the title box on sheet A1, a USED ON table appears that lists the frame SDs in which references are made to the frame unit SD. Also included in this table is the name of the Bell Laboratories control location for the system or project, as shown in Fig. 8. Lead indexes are omitted from this type of SD because they are accounted for in the unit symbol CAD1. The used on table does not appear on SDs for Common Systems application.

4. FRAME SDs

A. General

4.01 The purpose of frame SDs is to document the connecting circuitry between the frame units within a frame. In this documentation, the interconnections in the backplane between frame units are comparable to those shown between CPs in functional unit SDs. Frame units are represented in the frame SD by the contents of one or more symbols. The frame SD documentation may also include the circuitry for frame auxiliaries such as power supplies and fuse alarms. This circuitry is presented in the same format used for functional unit SDs. The frame unit interconnecting circuitry is also presented in essentially the same format except for minor differences, which are covered in the following paragraphs.

B. B Section

General

4.02 Each FS in a frame SD consists of the same three parts as a functional unit SD: IFDs, connection list tables, and composite diagrams. The information in each of these parts as they apply to frame SDs is as follows:

- (a) **IFDs:** These diagrams indicate the backplane interconnections between frame units and any auxiliary circuitry.
- (b) **Connection List Tables:** These tables provide frame unit and other component terminal connection details for all IFD leads.
- (c) **Composite Diagrams:** These diagrams represent, in one or more composite forms, the circuit functions not readily apparent from IFDs alone. Same as paragraph 2.15.

CAD SUBCAPTION

--- TO CONNECTION ---				--- FROM CONNECTION ---					
DESTINATION	LEAD DESIG	METHOD	WIRE SYM	TERM.	LEAD DESIG	TERMINATION	TERM.	OPT	NOTE
..... J4				65-47 JACK / TS (NOTE 3)					
69-47CP-505	FPCPBAO	CA 141		305	FPCPBAO	72-28CP	316		
69-47CP-506	FPCCBAO	CA 141		306	FPCCBAO	72-28CP	311		
69-47CP-507	FPSPBAO	CA 141		307	FPSPBAO	72-28CP	216		
69-47CP-508	FPSCBAO	CA 141		308	FPSCBAO	72-28CP	211		
.....

Fig. 5—Typical Tabular CAD Headings and Line Entries

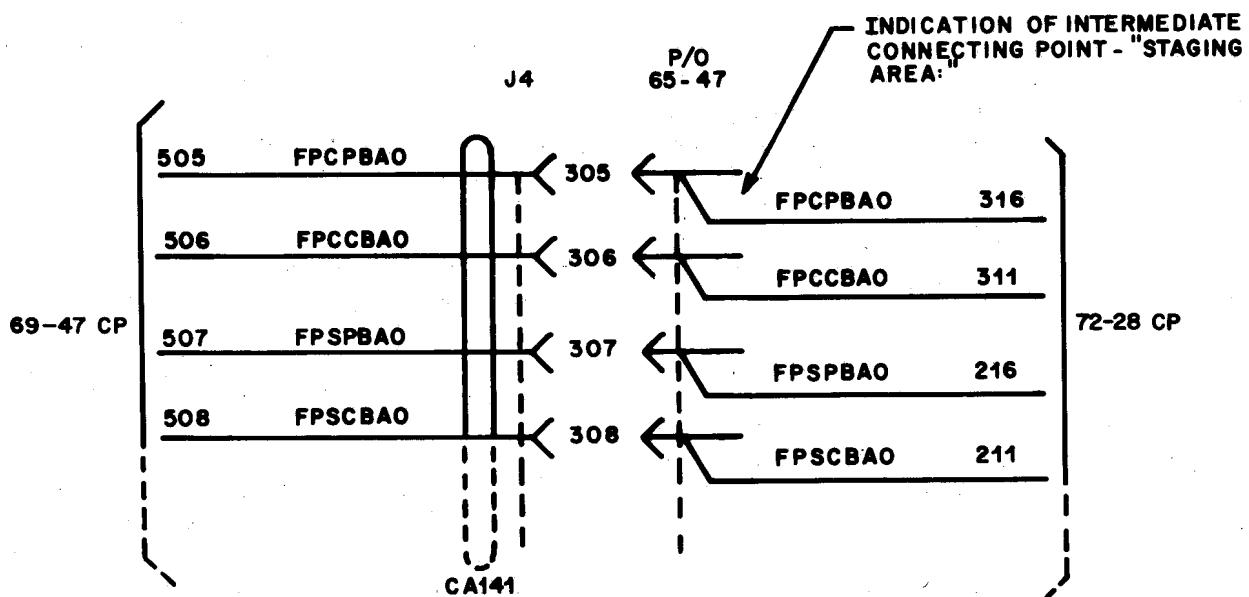


Fig. 6—Equivalent Graphical Representation of Entries in Tabular CAD of Fig. 13

ELEMENT IDENTIFIER A						
PERIPHERAL UNIT BUS 0						
TERM. MOD.	FUNC	ACCESS TERM.	FS TERM.	LOC FS/SYM	CAD	OPT/ NOTE
ATSP0AO	0	06-19-106	02-09-010	1/2		(X)
ATSP0BO	0	06-19-213	02-17-010	1/3		P/ATSP0B0G
ATSP1AO	0	06-19-107	02-19-110	1/4		203

TERM.
NO.

CONNECTING DEVICE
LOCATION ON FRAME
UNIT

Fig. 7—Frame Unit SD CAD1 Tabular Arrangement

Interconnecting and Flow Diagrams (IFDs)

4.03 IFDs indicate the connections between frame units and other components at the backplane level. The frame units themselves are represented with rectangular symbols and the backplane circuitry is shown with FS and symbol number destinations indicated at the stub ends of IFD symbol lines. Destinations to other circuits are also indicated at the ends of these lines. Signal flow direction is indicated on these lines with directional arrows. Connections between symbols of the same FS are also shown on the same IFD.

4.04 Symbols Numbers: Same as paragraph 2.04.

4.05 Frame SD Symbol Entries: In addition to symbol number entries in IFD symbols, there are the standard entries for rectangular symbols, as follows:

- (a) The functional name or description of the unit represented by the symbol.
- (b) The functional designation assigned to (a).
- (c) The location of the frame unit in the frame. This location is given by the coordinates that

locate the lower left-hand corner of the frame unit as viewed from the front.

- (d) The code number (equipment) of the frame unit. The SD number of the frame unit SD may also be shown in parentheses above the code.
- (e) The frame unit element identifier (see paragraph 2.06, frame unit is substituted for circuit pack).

Typical symbol entries corresponding to (a) through (e) are shown in Fig. 9 in their usual arrangement.

Connection List Tables

4.06 Connection list tables provide specific frame unit and other component terminal information not shown in the IFDs. For each IFD symbol within an FS, there is a separate connection list table. For each designated IFD lead, there is a corresponding lead designation entry in a connection list table of the same symbol number. The purpose of connection list tables is to provide near-end connection information for backplane leads terminating at specific frame unit or other component terminals. These tables also pro-

USED ON		
FRAME SD	PROJECT	CONT
SD - 5A###-04	1A PROCESSOR	IH
SD - 4A###-01	ESS NO. 4	IH
NOTICE - NOT FOR USE OR DISCLOSURE OUTSIDE THE BELL SYSTEM EXCEPT UNDER WRITTEN AGREEMENT		
DWG SIZE	ISSUE	
6S		
BELL LABORATORIES	SD - 5A###-01	-AI

E - 7410 (6-75)
PRINTED IN U.S.A.

Fig. 8—"Used On" Table on Sheet A1 of a Frame Unit SD

vide the far-end destination in the documentation, ie, the FS and symbol number at which a lead terminates. When the destination of a lead is to another SD, the title of the SD is given in the tables.

4.07 Connection List Table Headings: Connection list tables have overall headings corresponding to all of the line entries in the IFD symbols. A typical table heading and column entry arrangement is shown in Fig. 10.

4.08 Connection List Table Columns: Columns in these tables fall into two categories. The columns at the left of the table are for entries pertaining to the FS and are shown under the common heading FRAME INFO. The columns to the right pertain to frame unit information and are shown under the common heading UNIT INFO. The contents of each of the separate columns under these columns headings are described as follows:

---FRAME INFO---

COLUMN	EXPLANATION	COLUMN	EXPLANATION
LEAD DESIG	The same designated leads associated with a particular IFD symbol (input or output) are listed in this column in alphanumeric order. The first entry in this column appears after the last unused unit access terminal number entered in the TERM. column. Typical LEAD DESIG column entries are shown in Fig. 10.	DESTINATION	In this column, the FS-to-FS destinations shown in the IFDs are shown again on an individual lead basis. Following the slash line of this entry, the symbol of the FS involved is also shown. Destinations to other circuits are also indicated. Separate FS and symbol number entries are separated with commas, as shown in the last entry in Fig. 10. Option letters, when applicable, are shown in parentheses in front of each of the destinations for the options.
FUNC	The letters I or O are the usual entries in this column. They indicate whether a lead is essentially an input or output lead of a circuit element. When an output lead connects to one or more additional outputs, the letter combination OT is entered in the column. The letter T indicates that the transistor collectors of two or more gates are connected in a wire-node manner. (See also paragraph 2.12.)	NOTE	This entry is for reference to lead wiring requirements that are usually covered in FSs with the indication of pairing or in a 200-series equipment note of the SD. When reference is made in this column to a sheet note, the note will be shown directly below the table. A typical entry for indicating wire pairing would appear as P/3G042H1, indicating that the lead in the LEAD DESIG column is paired with lead 3G042H1.
TERM.	Access terminal numbers of the frame units are entered in this column. Used and unused terminals are listed, with the unused preceding the used terminals. The access terminal number is made up of the physical location of the terminal strip or connector on the frame unit and the terminal or pin number on the connecting device.	---	UNIT INFO---
WRG OPT	Entries in this column identify wiring which is connected only when the indicated option is specified. In some cases, wiring options are shown within parentheses in the DESTINATION column preceding the destination.	TERM. MOD	Entries in this column show the lead designation by which a frame unit termination is identified in a frame unit SD. This entry is also referred to as the terminal modifier or function Net Name at the frame unit level.
LOC		LOC	This is the TERM. MOD column companion entry that provides the FS and symbol number information to locate the designated frame unit termination in its frame unit SD.

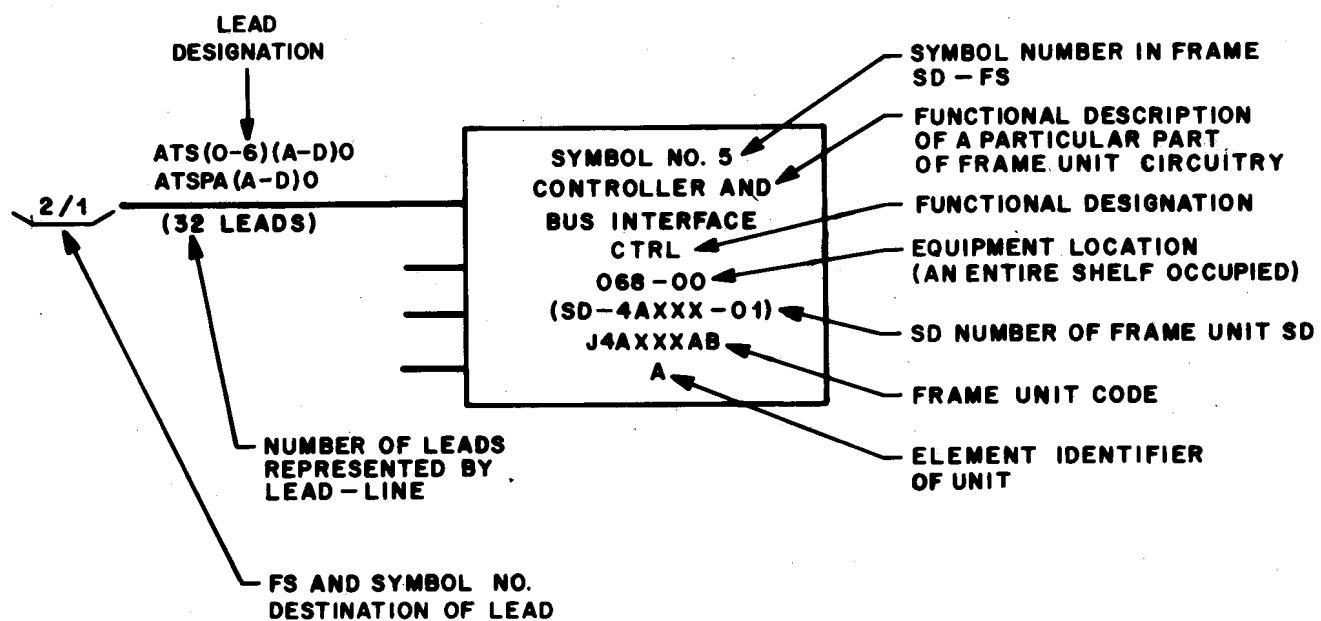


Fig. 9—Typical IFD Symbol Entries, Lead Line Designations, and One Method of Indicating Destinations of Lead Lines

C. C Section, App Fig.

4.09 In general, the content of an App Fig. in 2. C. C Section, Apparatus Figures pertaining to functional unit SDs also applies to frame SDs. App Fig. of frame SDs account mainly for the frame units represented in FSs of the B section of the frame SD. Also covered in these App Fig. are the CPs and other components in the remainder of the frame. The frame unit information in the App Fig. is in tabular form with an arrangement essentially the same as for CPs, as described in paragraph 2.26. The only notable difference concerns equipment location coordinates of frame units. Since frame units normally occupy the full width of a frame shelf, their locations are given by the coordinates of the lower lefthand corner of the frame unit as viewed from the front. In specifying frame unit coordinates with the lower left as the reference point, the X-coordinate*, for this reason, is usually -00. Typical frame unit entries in a frame SD App Fig. are shown in Fig. 11.

4.10 Duplicate Frame Units: Frame SDs, in which duplicate frame units are shown, have

components of these frame units listed in separate App. Fig., with the same basic number but distinguished with the suffix letter A, as in App. Fig. 1 and App. Fig. 1A.

D. G Section, CADs

4.11 The CADs in the G section of frame SDs account for all leads that leave the frame and that connect to external circuits. Also included in frame SD CADs are the connections, mainly via cables, between frame units within the frame. The format for all of this CAD information is generally the same as for functional unit SD CADs, described in **2. F. G Section, Cabling Diagrams (CADs)** and illustrated in Fig. 5, 6, and 23. Fig. 12 illustrates how CAD information is presented when CP terminations to an external circuit are from a CP that has a location in the frame other than in a frame unit. Fig. 13 shows another frame SD CAD representation. This is for the situation in which CP terminations of a frame unit terminate in a terminal strip on the frame.

E. A Section, Drawing Indexes

4.12 The frame-SD A-section indexes are essentially the same as those for functional unit SDs, described in **2. B. A Section, Drawing Indexes**. One

* The left-to-right coordinate.

SYMBOL NO. 5
CONTROLLER AND BUS INTERFACE

<u>DESIG</u>	<u>EQPT LOC</u>	<u>CODE</u>	<u>ELEM IDENT</u>	<u>OPT</u>
CTRL	068-00	J4AXXXAB	A	

----- PRAME INFO ----- ----- UNIT INFO -----

<u>LEAD DESIG</u>	<u>FUNC</u>	<u>TERM.</u>	<u>WRG OPT</u>	<u>DESTINATION</u>	<u>NOTE</u>	<u>TERM MOD</u>	<u>LOC</u>
.
.
ATSOAAO	O	02-19-100		2/1		ATSPAAO	17/8
ATSOABO	O	02-19-300		2/1		ATSPABO	17/8
ATSOACO	O	02-19-001		2/1		ATSPACO	17/8
ATSOADO	O	02-19-201		(Z)2/1,(Y) 3/2		ATSPADO	17/8

↓ ↓
OPTIONS

Fig. 10—Connection List Table and Column Headings for Frame SDs

APP FIG. 1

UNIT

<u>EQPT LOC</u>	044-00-----	068-00-----	<u>EQPT LOC</u>
<u>DESIG</u>	SW06-07-----	CTRL-----	<u>DESIG</u>
<u>EQPTCODE</u>	J4AXXXAE-----	J4AXXXAB-----	<u>EQPTCODE</u>
<u>OPTION</u>			<u>OPTION</u>
<u>ELEM IDENT</u>			<u>ELEM IDENT</u>
<u>CKT</u>	DESIG FS/SYM-----	DESIG FS/SYM-----	<u>CKT</u>
A	SW06-07 2/4-----	CTRL 2/5-----	A

Fig. 11—Typical Frame Unit Entries in a Frame SD App Fig.

--- TO CONNECTION --- --- FROM CONNECTION ---

<u>DESTINATION</u>	<u>LEAD DESIG.</u>	<u>METHOD</u>	<u>WIRE SYM</u>	<u>TERM.</u>	<u>LEAD DESIG</u>	<u>TERMINATION</u>	<u>TERM.</u>
.....	J2	062-04	JACK / CP (NOTE 6)
TO SMF CKT	OSASW40G			001	OSASW40G		
•	OSASW41G			002	OSASW41G		
•	•			•	•		
•	•			•	•		
•	•			•	•		



NOTES:

6. THE FOLLOWING SHOWS THE SYMBOLIC EQUIVALENT TABULAR PRESENTATION

J2
062-04 062-04CP

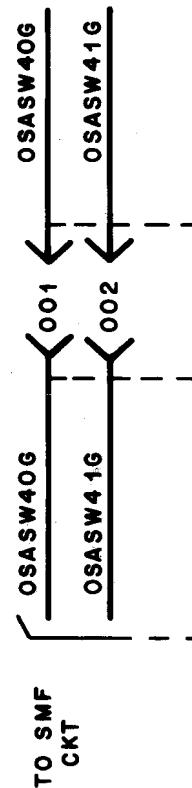


Fig. 12—CP Termination to External Circuit When CP Has a Frame Location Other Than in a Frame Unit—Tabular and Graphical Equivalent Representations Shown

TO CONNECTION ---

-- FROM CONNECTION - - -

<u>DESTINATION</u>	<u>LEAD DESIG</u>	<u>METHOD</u>	<u>WIRE SYM</u>	<u>TERM.</u>	<u>LEAD DESIG</u>	<u>TERMINATION</u>	<u>TERM.</u>
(NOTE 203)	DTESD10A				030	DTESD10A	048-00 UNIT
	DTESD20A				031	DTESD20A	048-00 UNIT
	*			*	*	*	*
	*			*	*	*	*
	*			*	*	*	*
		TSA			080-03	(NOTE 3)	

NOTES:

3. THE FOLLOWING SHOWS THE SYMBOLIC EQUIVALENT TABULAR PRESENTATION

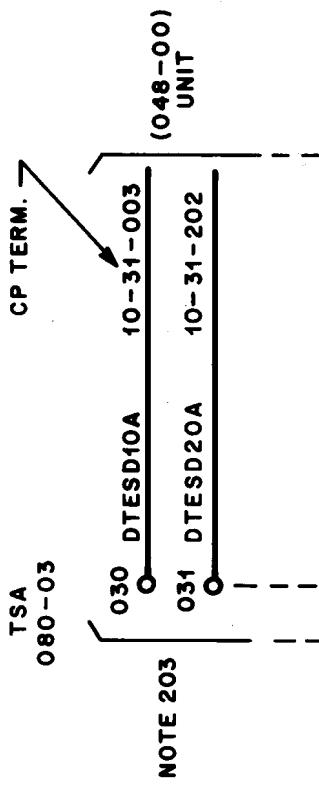


Fig. 13—CP Termination From Frame Unit to Terminal Strip on Frame—Tabular and Graphical Equivalent Representations Shown

DESIGNATION		FS/SYM LOC
ON UNIT (TERM. MOD)	ON FRAME	
CONTROLLER AND BUS INTERFACE CKT 000-00		
ATSPAAO B C D	ATSPAAO B C D	2/5
ATSPBAO B C D	ATSPBAO B C D	
SWITCH UNIT CKT 034-00		
ATSPAOO OB 1A 1B	ATSPAAO B C D	2/1
XMT0000 1 2 3 4 5 6 7	ASW0X00 1 2 3 4 5 6 7	3/1
SWITCH UNIT CKT 042-00		
ATSPAOO OB 1A 1B	ATSPBAO B C D	2/2

SAME FRAME UNIT REQUIRED MORE THAN ONCE IN A FRAME
 FRAME UNIT LEAD DESIGNATION (TERMINAL MODIFIER)
 CORRESPONDING FRAME LEAD DESIGNATION
 FRAME UNIT CIRCUIT NAME AND ITS EQUIPMENT LOCATION FROM BOTTOM OF FRAME

Fig. 14—Typical Intraframe Lead Index Illustrating Column Headings and Entries

difference is the listing of equipment J-coded frame units in an apparatus index. Another difference is the use of a special lead index for intraframe leads.

4.13 Apparatus Index: In this index, frame units are listed first under the heading UNIT. CPs are listed next and are followed by all other component categories in the usual alphabetical order.

4.14 Lead Indexes: Frame SDs have two lead indexes, the interframe lead index and the intraframe lead index. The interframe lead index serves the same purpose as a conventional lead index: it lists all of the leads externally connected to the frame. The external lead indexes shall have the same format as those used in functional unit SDs as specified in paragraph 2.23.

4.15 Intraframe Lead Indexes: An intraframe lead index is provided on a frame SD to correlate lead designations on frame unit SDs with lead designations on the frame SD. As shown in Fig. 14, intraframe lead indexes consist of tables with three principal columns, as follows:

(a) The ON-UNIT column lists frame unit SD lead designations that are referred to in the frame SD documentation as TERM. MODs (terminal modifiers).

(b) The ON-FRAME column lists designations corresponding to those in the ON-UNIT column assigned for identifying intraframe leads from a frame connectivity standpoint.

- (c) The FS/SYM LOC column lists the location of leads designated in the ON-FRAME column in terms of FS and SYMBOL numbers in the B section of the frame SD.

Intraframe lead indexes permit users of frame unit SDs to work with a frame SD with only frame unit lead designations that can be converted to frame lead designations. Illustrated in Fig. 14 is a situation in which the same frame unit is used more than once (duplicated) in a frame SD, namely the SWITCH UNIT CKT. The distinction between such similar units within this index is indicated by the addition of frame equipment locations after circuit unit names, eg, 034-00 and 042-00.

5. CIRCUIT PACK INFORMATION SDs (CPI SDs)

A. General

5.01 As indicated in paragraph 1.07, CPI SDs contain information applicable on a system or project basis. These SDs, therefore, provide a list of CPs used in a system or project, and the circuit documentation for the CMs and ICs used in a system. These SDs consist of four sections: A, D, J, and K. The A section sheet index content is generally the same as that covered in paragraph 2.21. The content of the remaining three sections is covered in paragraphs 5.02 through 5.04.

B. D Section, Notes and Tables

5.02 This section of the SD contains the IC reference information usually shown in the D section

CP - SD CROSS REFERENCE

SD - DRAWING NUMBER AND TITLE	CP CODE												
	FA1	FA2		FA10	FA12	FA13			FA28	FA30	FA31	FA32	FA33
SD-OA010-01 CENTRAL CONTROL	X	X		X	X					X	X	X	
SD-OA021-01 INPUT/OUTPUT			X		X			X	X				

Fig. 15—Typical Index of Circuit Pack Codes Shown in Section J of CPI Drawing

of an SD. The ICs covered in this SD section are those that have been used on the CPs and CMs of the system or project.

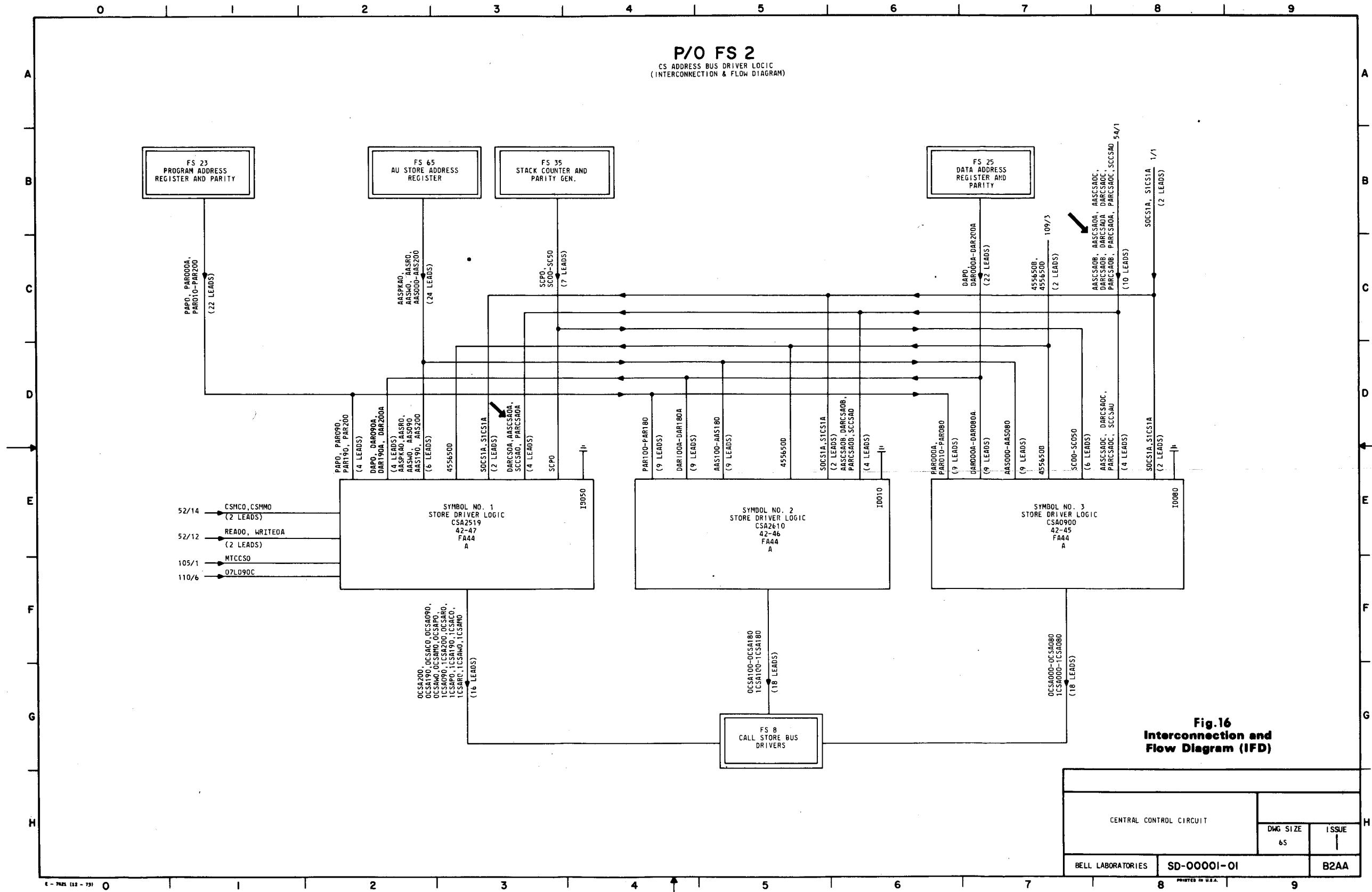
C. J Section, CPs

5.03 This section of the SD lists all the SDs of a system or project that contain references to CPs. The listing is by SD number with an adjacent listing of all of the apparatus codes of CPs referred to

in each SD (see Fig. 15). These CPs are documented in CPS drawings. See Fig. 20, Sheets 1 and 2 for typical CPS circuit documentation and tabular symbol sheets.

D. K Section, CMs

5.04 This section of the SD contains all of the documentation for the CMs used in the system or project.



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WRG OPT	DESTINATION	NOTE	NC	I	01010	302					NC	I	10020	306					NC	O	00000	002					NC	O	IB090	216					NC	O	IB060	211					NC	O	10040	309					NC	O	10010	304					NC	O	01000	102					NC	O	IA000	003					NC	O	ID090	316					NC	O	IC010	104					NC	O	00010	202					NC	O	IB000	203					NC	O	IA010	004					NC	O	IC000	103					NC	O	ID000	303					NC	O	10030	308					NC	O	IA090	016					NC	O	IB010	204					NC	O	IC090	116					NC	O	IC070	113					NC	O	IB070	213					NC	O	ID070	315					AASCSADA	I	GSCB00	107		54/1			AASPKAO	I	GSCB10	019		54/1			AASR0	I	IC100	118		65/6			AASW0	I	IC060	111		65/6			AAS090	I	IC020	106		65/2			AAS190	I	IC030	108		65/4			AAS200	I	IC040	109		65/5			CSMCO	I	IA070	013		52/14			CSMMO	I	IA080	015		52/14			DAP0	I	ID080	315		52/14			DARCSADA	I	IA100	018		25/1			DARCSADA	I	GSAH10	101		54/1			DAR090A	I	GSAH00	301		54/1			DAR190A	I	IA020	006		25/2			DAR190A	I	IA030	008		25/1			DAR200A	I	IA040	009		25/1			GRD042B GRD	I	GRD042B GRD	200					GRD042M2 GRD	I	GRD042M2 GRD	319					GRD042T1	I	GRD042T1	210					MTCCSO	I	IC080	115		105/1			MTCCSO	I	IB080	215		105/1			PAPO	I	IB100	218		23/1			PARCSADA	I	GSHB10	307		54/1			PARCSADA	I	GSHB00	312		54/1			PAR090	I	IB020	206		23/2			PAR190	I	IB030	208		23/1			PAR200	I	IB040	209		23/1			READ0	I	ID050	310		52/12			SCCSAO	I	IA050	010		52/12			SCCSAO	I	GSDB10	112		54/1			SCCSAO	I	GSDB00	001		54/1			AAS100	I	IC000	103		65/3			AAS110	I	IC010	104		65/3			AAS120	I	IC020	106		65/3			<table border="1"> <thead> <tr> <th></th> <th>LEAD</th> <th>DESIG</th> <th>FUNC</th> <th>TERM. 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P/O FS 2 CS ADDRESS BUS DRIVER LOGIC										
SYMBOL NO. 3 STORE DRIVER LOGIC										
A	SYMBOL NO. 3 STORE DRIVER LOGIC					SYMBOL NO. 3 (CONT) STORE DRIVER LOGIC				
A										
B	LEAD DESIG	EQPT LOC	CODE	ELEM IDENT	OPT	LEAD DESIG	EQPT LOC	CODE	ELEM IDENT	OPT
B										
C										
D										
E										
F										
G										
H										

31.25

0 1 2 3 4 5 6 7 8 9

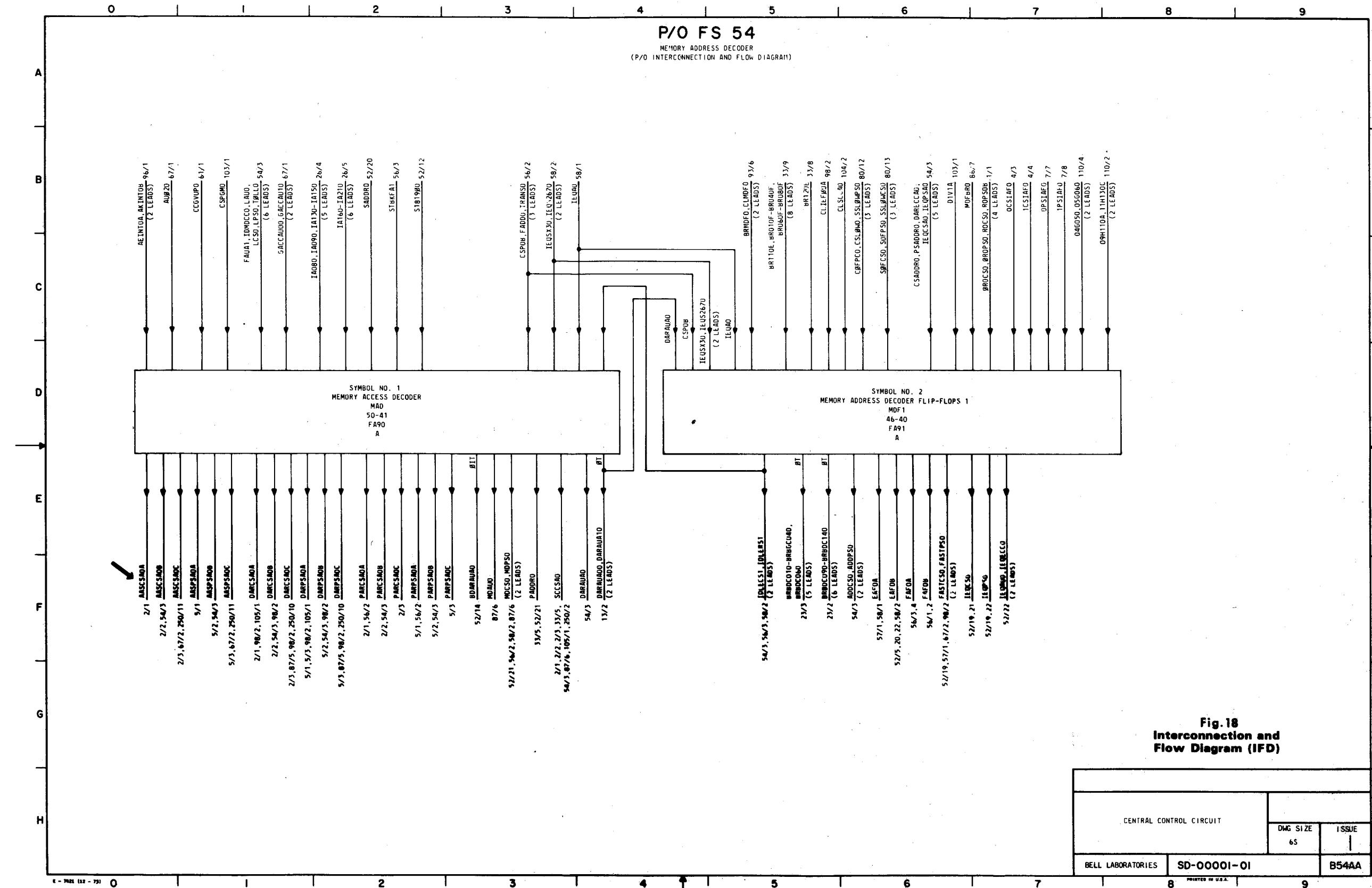
Fig. 17, Sheet 2
Connection List
Table - Cont

P/O FS 2
SYMBOL(S) 3

CENTRAL CONTROL CIRCUIT		DWG SIZE	ISSUE
		65	
BELL LABORATORIES	SD-00001-01	B2CB	

0 1 2 3 4 5 6 7 8 9

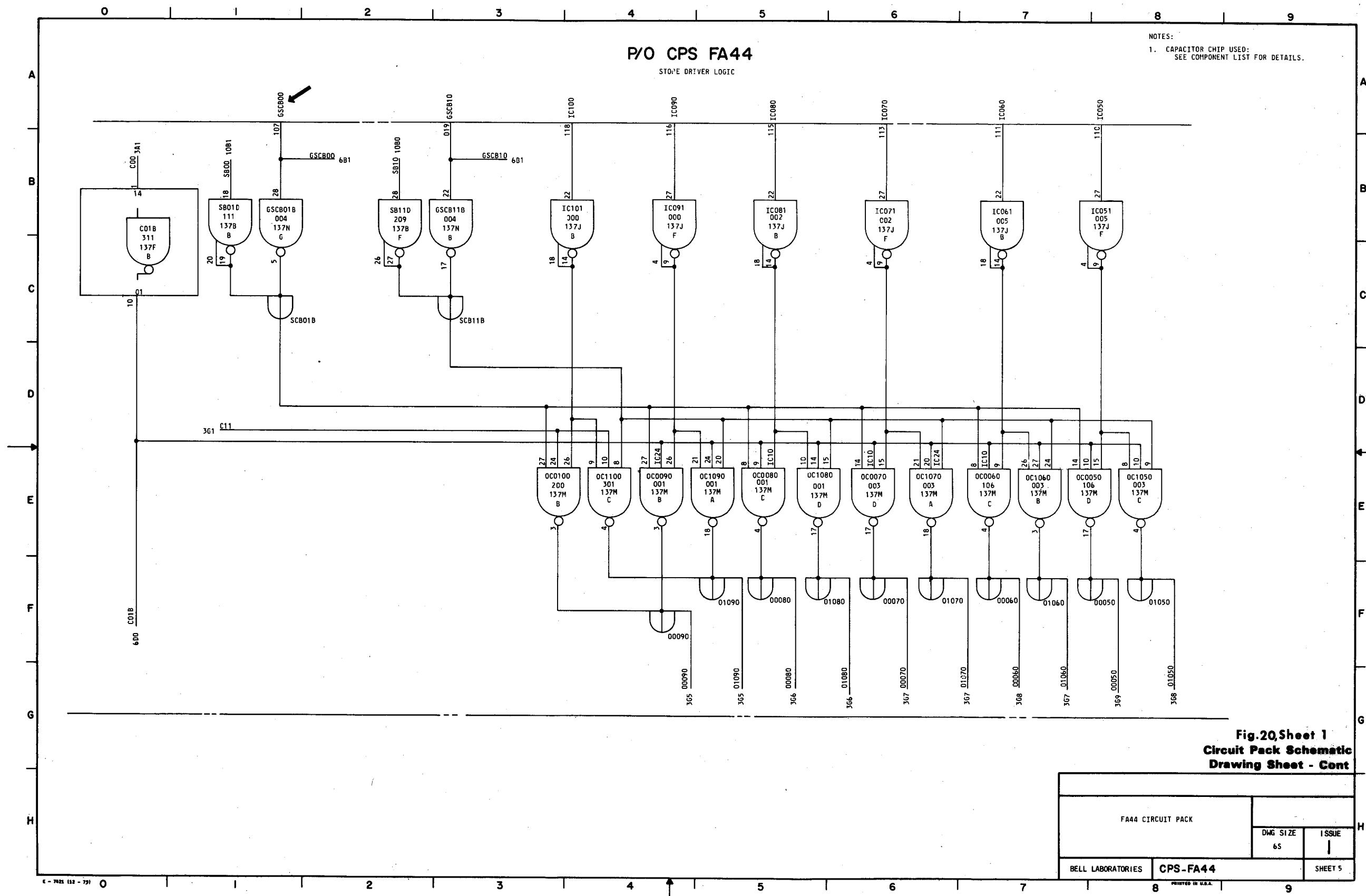
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Fig. 18
Interconnection and
Flow Diagram (IFD)

DESIGNATION MNEMONICS INDEX		
	MNEMONIC	FS NO.
A	AASCSA	54
		AUXILIARY UNIT SEQUENCER TO CS ADDRESS BUS
	AASPKA	65
		AUXILIARY UNIT STORE ADDRESS REGISTER - PARITY BIT
	AASR	65
		AUXILIARY UNIT STORE ADDRESS REGISTER - READ BIT
	AASH	65
		AUXILIARY UNIT STORE ADDRESS REGISTER - WRITE BIT
	AASXX	65
		AUXILIARY UNIT STORE ADDRESS REGISTER BIT XX (0 THRU 21)
B	CSMC	52
		CS CONTROL MODE BIT
	CSMM	52
		MAINTENANCE MODE BIT
	DARCSA	54
		SELECT DAR TO CS ADDRESS BUS
	DARXX	25
		DATA ADDRESS REGISTER BIT XX (00-24)
	MTCCS	105
		CALL STORE MAINTENANCE MODE CONTROL
	PAP	23
		PROGRAM ADDRESS PARITY
C	PARCSA	54
		SELECT PAR TO CSA
	PARXX	23
		PROGRAM ADDRESS REGISTER BIT XX (00-23)
	READ	52
		READ BIT ON ADDRESS
	SCCSA	54
		SELECT SC TO CS ADDRESS BUS
	SCP	35
		STACK COUNTER PARITY
	SCXX	35
		STACK COUNTER BIT XX (0 THRU 5)
	WRITE	52
		WRITE BIT ON ADDRESS
D	OCSAC	2
		CALL STORE ADDRESS BUS 0 - CODE BIT
	OCSAM	2
		CALL STORE ADDRESS BUS 0 - MODE BIT
	OCSAP	2
		CALL STORE ADDRESS BUS 0 - PARITY BIT
	OCSR	2
		CALL STORE ADDRESS BUS 0 - READ BIT
	OCSAW	2
		CALL STORE ADDRESS BUS 0 - WRITE BIT
	OCSAXX	2
		CALL STORE ADDRESS BUS 0 - BITS 00 THRU 20
E	1CSAC	2
		CALL STORE ADDRESS BUS 1 - CODE BIT
	1CSAM	2
		CALL STORE ADDRESS BUS 1 - MODE BIT
	1CSAP	2
		CALL STORE ADDRESS BUS 1 - PARITY BIT
	1CSR	2
		CALL STORE ADDRESS BUS 1 - READ BIT
	1CSAW	2
		CALL STORE ADDRESS BUS 1 - WRITE BIT
	1CSAXX	2
		CALL STORE ADDRESS BUS 1 - BITS 00 THRU 20
F	45S65	109
		ADDRESS BUS LOW JITTER CLOCK
G		
H		

Fig. 19
Designation Mnemonics
Index

CENTRAL CONTROL CIRCUIT		DWG SIZE 6S	ISSUE I
LABORATORIES	SD-00001-OI		A2



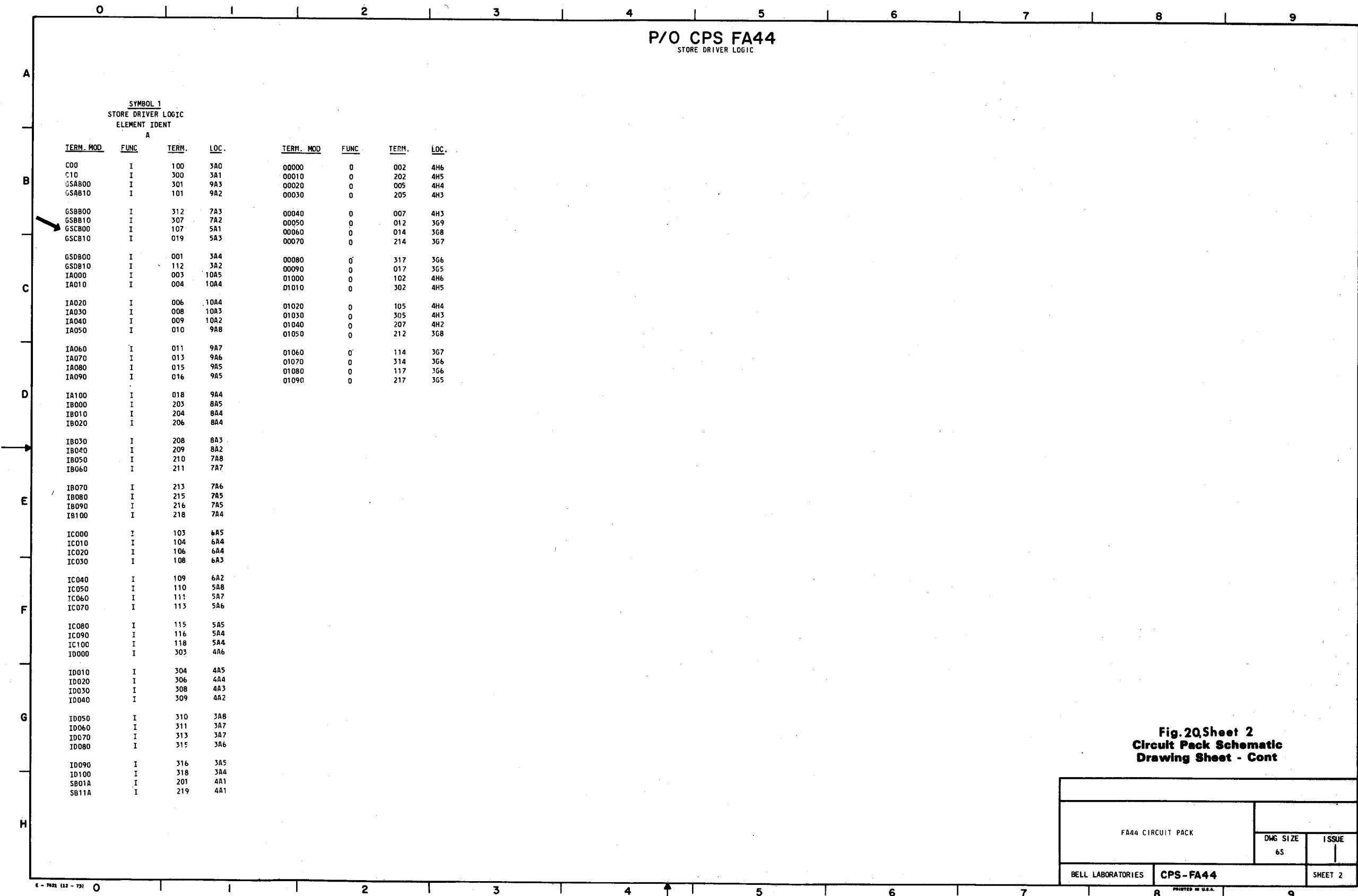
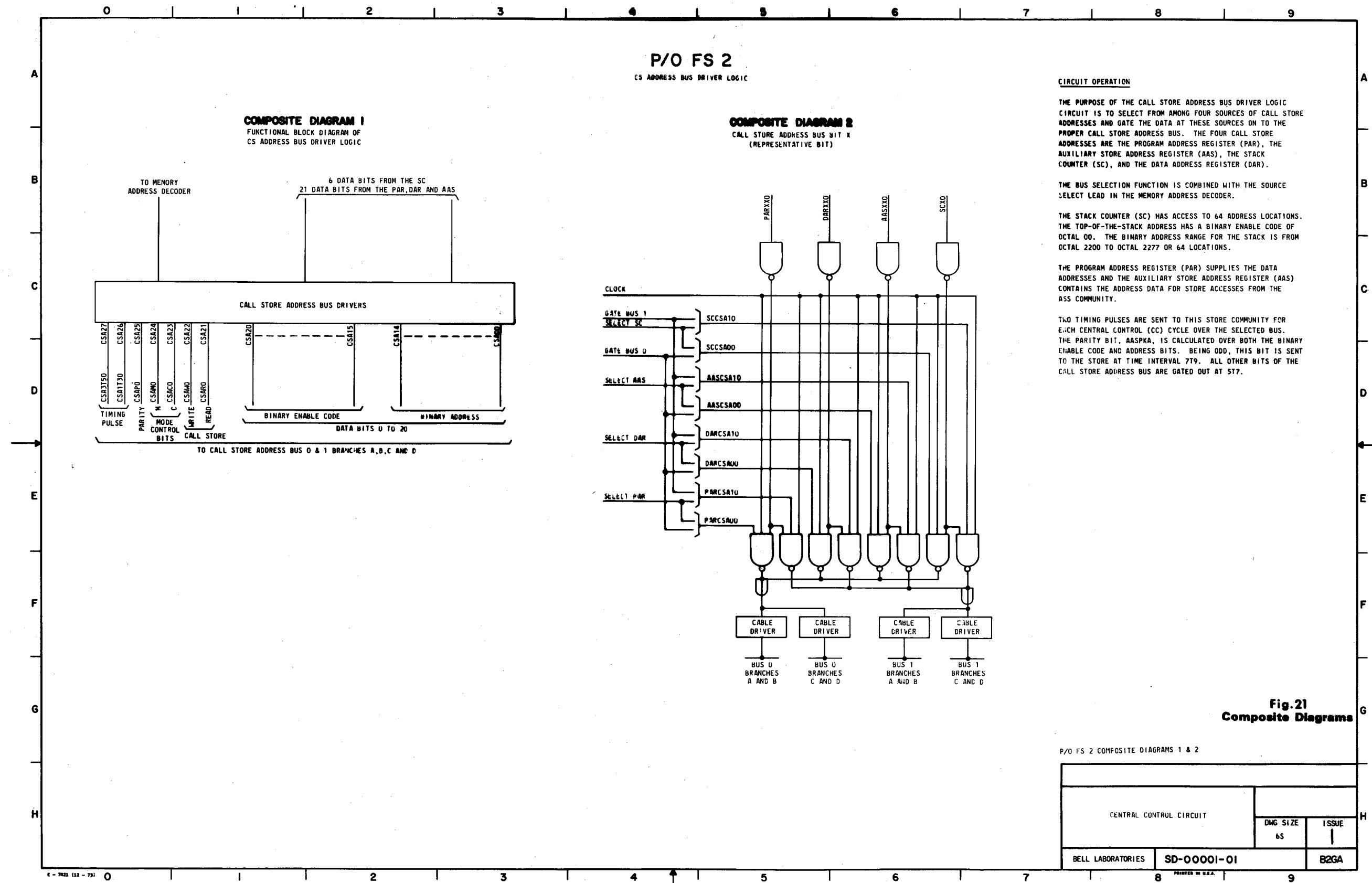
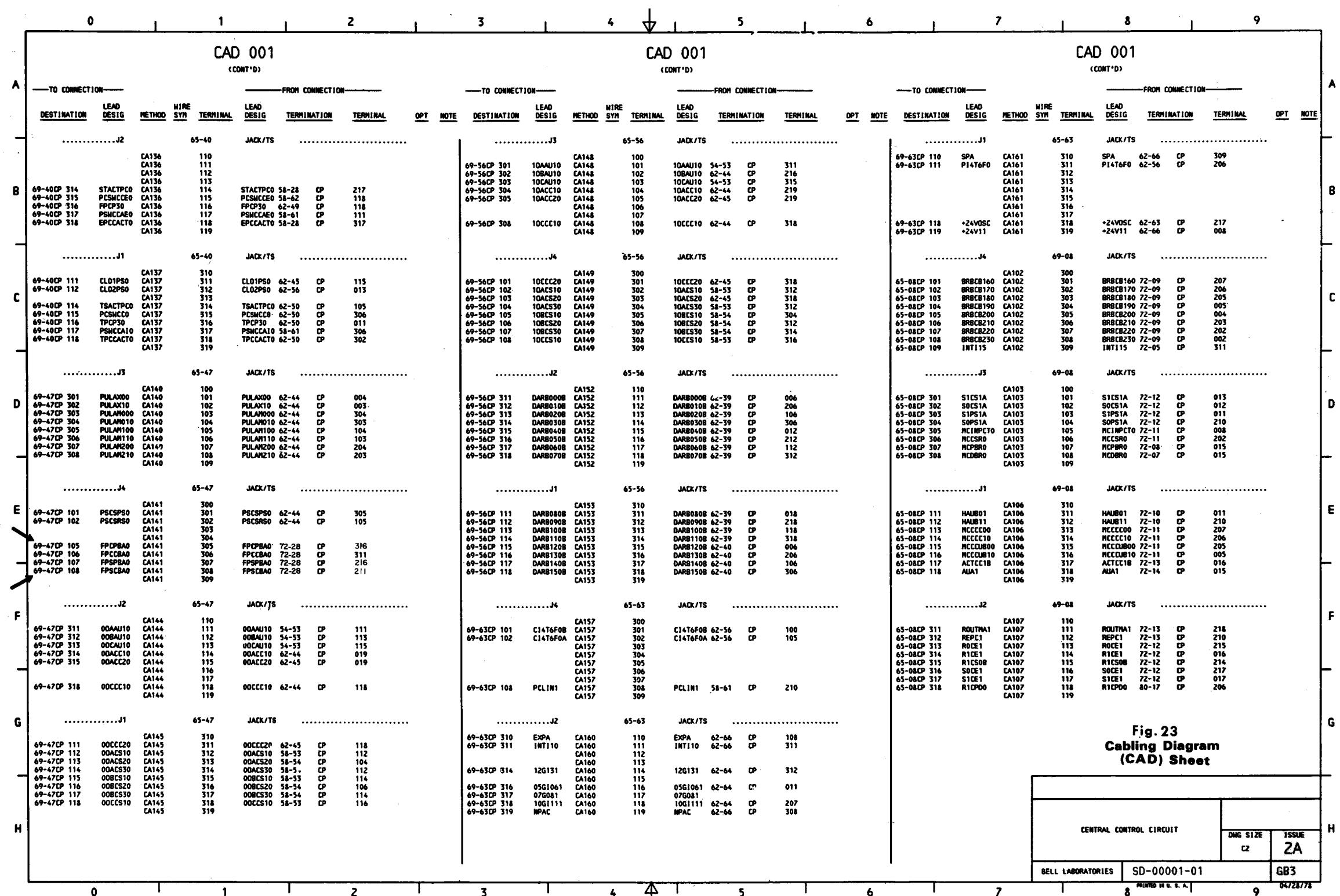


Fig. 2Q, Sheet 2
Circuit Pack Schematic
Drawing Sheet - Cont



	0	1	2	3	4	5	6	7	8	9
PART OF APP FIG. 2										
CIRCUIT PACK										
A	EQPT LOC DESIG EQPTCODE OPTION	42-12 AUWMISC FA48	42-13 PSW1400 FA48	42-14 PSW2620 FA48	42-15 CSW1400 FA48	42-16 CSW2615 FA48	42-23 FA154	42-24 FA154	42-25 FA154	42-26 FA154
B	ELEM IDENT	CKT	DESIG	FS/SYM	DESIG	FS/SYM	DESIG	FS/SYM	DESIG	FS/SYM
A	AUWMISC	12/2	PSW1400	6/2	PSW2620	6/1	CSW1400	3/1	CSW2615	3/2
B										
C										
D										
E										
F										
C	CIRCUIT PACK									
C	EQPT LOC DESIG EQPTCODE OPTION	42-32 BRP FA62	42-33 BR0500 FA61	42-34 BR2318 FA71	42-37 FA71	42-38 FA71	42-39 FA71	42-40 FA71	42-42 PSA0900 FA44	42-43 PSA2610 FA44
C	ELEM IDENT	CKT	DESIG	FS/SYM	DESIG	FS/SYM	DESIG	FS/SYM	DESIG	FS/SYM
A	BRP	33/5	BR0500	33/4	BR2318	33/1	AB2200 ABPR2	28/4 29/4	AB2301 ABPR1	28/3 29/3
B										
C										
D										
E										
F										
E	CIRCUIT PACK									
E	EQPT LOC DESIG EQPTCODE OPTION	42-48 AUAO900 FA48	42-49 AUAMISC FA48	42-54 FA72	42-55 FA72	42-56 FA72	42-57 FA72	42-59 FA114	42-60 0DB7 FA114	42-61 0DB2 FA117
E	ELEM IDENT	CKT	DESIG	FS/SYM	DESIG	FS/SYM	DESIG	FS/SYM	DESIG	FS/SYM
A	AUAO900	13/2	AUAMISC	13/1	HWR0500 B00024 0W0500	31/4 30/4 32/4	HWR1106 B00630 0W1106	31/3 30/3 32/3	HWR1712 B01236 0W1712	31/2 30/2 32/2
B										
C										
D										
E										
F										
F	CIRCUIT PACK									
F	EQPT LOC DESIG EQPTCODE OPTION	42-66 R042E1F1 FC21	46-05 R046A3B1 FC21	46-06 R046D1 FC22	46-08 PCB FB5	46-09 G3ARHG FA228	46-11 FA158	46-12 FA152	46-13 AUP FA155	46-14 AVEE FA155
F	ELEM IDENT	CKT	DESIG	FS/SYM	DESIG	FS/SYM	DESIG	FS/SYM	DESIG	FS/SYM
A	R042E1F1	113/82	R046A3B1	113/63	R046D1	117/65	PCB	113/97	G3ARHG	93/3
B										
C										
D										
E										
H										
CENTRAL CONTROL CIRCUIT										
DRAWING NO. SD-00001-01										ISSUE 1
BELL LABORATORIES										DWG SIZE 6S
PRINTED IN U.S.A.										C5

Fig. 22
Apparatus Figure (APP FIG.)
Circuit Pack Tables



**Fig. 23
Cabling Diagram
(CAD) Sheet**

CENTRAL CONTROL CIRCUIT		DIM SIZE C2	ISSUE ZA
BELL LABORATORIES	SD-00001-01	GB3	

	0	1	2	3	4	5	6	7	8	9												
CAD 1																						
A	ELEMENT IDENTIFIER			ELEMENT IDENTIFIER (CONT)			ELEMENT IDENTIFIER			ELEMENT IDENTIFIER (CONT)												
	A			A			B			B												
	PERIPHERAL UNIT BUS 0			PERIPHERAL UNIT BUS 0			TIME SLOT MEMORY ADDRESS BUS			TIME SLOT MEMORY ACCESS BUS												
B	TERM. MODIFIER	ACCESS FUNC	TERM. TERM.	FS TERM. FS/SYM	LOC TERM. CAD	OPT/ NOTE	TERM. MODIFIER	ACCESS FUNC	TERM. TERM. FS/SYM	LOC TERM. CAD	OPT/ NOTE	TERM. MODIFIER	ACCESS FUNC	TERM. TERM. FS/SYM	LOC TERM. CAD	OPT/ NOTE	TERM. MODIFIER	ACCESS FUNC	TERM. TERM. FS/SYM	LOC TERM. CAD	OPT/ NOTE	B
C	(INC() CCLCBR00 CPSC100	I I I	06-22-212 10-20-016 10-20-217	06-22-212 10-20-016 10-20-217	20/1 22/2 22/2		DBPP35AO DRPB0QSO DRPB0PA0	I O O	06-17-318 07-23-35 06-23-019	1/3 21/1 21/1		ATSPA0 ATSPAB0 ATSPAC0	O O O	02-19-100 02-19-300 02-19-001	02-19-100 02-19-300 02-19-001	17/8 17/8 17/8	ATS1AC0 ATS1AD0 ATS1BA0	O O O	02-22-001 02-22-201 02-22-002	02-22-001 02-22-201 02-22-002	17/2 17/2 17/2	B
D	CPSG10 CPSG106 CPSG100	O G I	10-20-019 10-20-018 10-20-314	10-20-019 10-20-018 10-20-314	22/2 22/2 22/2	P/CPSG10	DRPB0000 DRPB0010 DRPB0020	O O O	10-27-100 10-28-100 10-27-001	21/2 21/3 21/2		ATSPAD0 ATSPBA0 ATSPBB0	O O O	02-19-201 02-19-002 02-19-102	02-19-201 02-19-002 02-19-102	17/8 17/8 17/8	ATS1BB0 ATS1BC0 ATS1BD0	O O O	02-22-102 02-22-302 02-22-203	02-22-102 02-22-302 02-22-203	17/2 17/2 17/2	B
E	CPSMIB0G CPSMIB00 CPSMIB1G	G I G	09-27-02 09-27-03 09-28-00	10-27-003	21/2	P/CPSMIB00 P/CPSMIB10	DRPB0030 DRPB0040 DRPB0050	O O O	10-28-001 10-27-005 10-28-005	21/3 21/2 21/3		ATSPBC0 ATSPBDO ATSPCA0	O O O	02-19-302 02-19-203 02-19-303	02-19-302 02-19-203 02-19-303	17/8 17/8 17/8	ATS1CA0 ATS1CB0 ATS1CC0	O O O	02-22-303 02-22-004 02-22-104	02-22-303 02-22-004 02-22-104	17/2 17/2 17/2	C
F	CPSMIB10 CPSMIB2G CPSMIB20	I G I	09-28-01 09-27-10 09-27-11	10-28-003 10-27-002	21/3 21/2	P/CPSMIB20	DRPB0060 DRPB0070 DRPB0080	O O O	10-17-100 10-16-100 10-17-001	21/4 21/5 21/4		ATSPBC0 ATSPCC0 ATSPCD0	O O O	02-19-004 02-19-104 02-19-005	02-19-004 02-19-104 02-19-005	17/8 17/8 17/8	ATS1CD0 ATS1DA0 ATS1DB0	O O O	02-22-005 02-22-205 02-22-305	02-22-005 02-22-205 02-22-305	17/2 17/2 17/2	C
G	CPSM10 CPSM106 CPSM100	O G I	10-20-219 10-20-218 10-20-215	10-20-219 10-20-218 10-20-215	22/2 22/2 22/2	P/CPSM10	DRPB0090 DRPB0100 DRPB0110	O O O	10-16-001 10-17-005 10-16-005	21/5 21/4 21/5		ATSPD0 ATSPD00 ATSPDC0	O O O	02-19-205 02-19-305 02-19-006	02-19-205 02-19-305 02-19-006	17/8 17/8 17/8	ATS1DD0 ATS1DE0 ATS1EA0	O O O	02-22-006 02-22-106 02-22-213	02-22-006 02-22-106 02-22-213	17/2 17/2 17/2	D
H	CSYNC00 DBPE0040 DBPE0140	I I I	05-20-23 10-18-212 10-19-010	06-20-206 10-18-212 10-19-010	16/11 1/8 1/7		DRPB0120 DRPB0130 DRPB0140	O O O	10-26-100 10-25-100 10-26-001	21/6 21/7 21/6		ATSPD00 ATSPED0 ATSPPE0	O O O	02-19-106 02-19-213 02-19-313	02-19-106 02-19-213 02-19-313	17/8 17/8 17/8	ATS1EB0 ATS1EC0 ATS1ED0	O O O	02-22-313 02-22-014 02-22-114	02-22-313 02-22-014 02-22-114	17/2 17/2 17/2	E
	DBPE0240 DBPE0340 DBPE0440	I I I	10-25-212 10-25-114 10-25-114	10-25-212 10-26-114 10-25-114	1/6 1/5 1/6		DRPB0150 DRPB0160 DRPB0170	O O O	10-25-001 10-26-005 10-25-005	21/7 21/6 21/7		ATSPED0 ATSPF00 ATSPFA0	O O O	02-19-014 02-19-114 02-19-314	02-19-014 02-19-114 02-19-314	17/8 17/8 17/8	ATS1FA0 ATS1FB0 ATS1FC0	O O O	02-22-314 02-22-215 02-22-315	02-22-314 02-22-215 02-22-315	17/2 17/2 17/2	D
	DBPE0540 DBPE0640 DBPE0740	I I I	10-26-318 10-25-318 10-19-212	10-26-318 10-25-318 10-19-001	1/5 1/6 1/7		DRPB0180 DRPB0190 DRPB0200	O O O	10-19-100 10-18-100 10-19-001	21/8 21/9 21/8		ATSPF00 ATSPF00 ATSPFD0	O O O	02-19-215 02-19-315 02-19-016	02-19-215 02-19-315 02-19-016	17/8 17/8 17/8	ATS1FD0 ATS1GA0 ATS1GB0	O O O	02-22-016 02-22-116 02-22-017	02-22-016 02-22-116 02-22-017	17/2 17/2 17/2	D
	DBPE0840 DBPE0940 DBPE1040	I I I	10-18-114 10-19-114 10-18-318	10-18-114 10-19-114 10-18-318	1/8 1/7 1/8		DRPB0210 DRPB0220 DRPB0230	O O O	10-18-001 10-19-005 10-18-005	21/9 21/8 21/9		ATSPGA0 ATSPG00 ATSPGC0	O O O	02-19-116 02-19-017 02-19-217	02-19-116 02-19-017 02-19-217	17/8 17/8 17/8	ATS1GC0 AT11GD0 AT11HA0	O O O	02-22-217 02-22-317 02-22-118	02-22-217 02-22-317 02-22-118	17/2 17/2 17/2	E
	DBPE1140 DBPM0400 DBPEV40	I I I	10-19-318 10-18-010 10-25-010	10-19-318 10-18-010 10-25-010	1/7 1/8 1/6		EAPUFO0 HDUP1 HDUP1G	O I G	10-20-014 06-19-003 05-19-02	22/2 16/10 16/10	P/HDUP1	ATSPG00 ATSPH00 ATSPH00	O O O	02-19-317 02-19-118 02-19-318	02-19-317 02-19-118 02-19-318	17/8 17/8 17/8	ATS1HB0 AT11HC0 AT11HD0	O O O	02-22-318 02-22-019 02-22-219	02-22-318 02-22-019 02-22-219	17/2 17/2 17/2	E
	DBPP0040 DBPP0040 DBPP0140	I I I	10-26-212 10-27-012 10-28-012	10-26-212 10-27-012 10-28-012	1/5 1/1 1/2		HNM00 HNM00G HNM10	I G I	07-28-15 07-28-14 07-28-37	6/1 6/1 9/1		ATSPH00 ATSPH00 ATSOAA0	O O O	02-19-019 02-19-219 02-20-100	02-19-019 02-19-219 02-20-100	17/8 17/8 17/1	ATS2AA0 AT12AB0 AT12AC0	O O O	02-23-100 02-23-300 02-23-001	02-23-100 02-23-300 02-23-001	17/3 17/3 17/3	F
	DBPP0240 DBPP0340 DBPP0440	I I I	10-27-314 10-28-314 10-27-118	10-27-314 10-28-314 10-27-118	1/1 1/2 1/1		HNM10G HPE1 HPE1G	G I G	07-28-36 06-17-306 06-17-206	3/2 3/2 9/1	P/HNM10 P/HPE1	ATSOAB0 ATSOAC0 ATSOADO	O O O	02-20-300 02-20-001 02-20-201	02-20-300 02-20-001 02-20-201	17/1 17/1 17/1	ATS2ADO AT12B00 AT12B00	O O O	02-23-201 02-23-002 02-23-102	02-23-201 02-23-002 02-23-102	17/3 17/3 17/3	F
	DBPP0540 DBPP0640 DBPP0740	I I I	10-28-118 10-17-012 10-16-012	10-28-118 10-17-012 10-16-012	1/2 1/5 1/4		HP01 HP01G PPA(00)	I G I	06-17-305 06-17-304 10-41-311	3/1 22/1 22/1	P/HP01	ATSOBA0 ATSOBB0 ATSOBC0	O O O	02-20-002 02-20-102 02-20-302	02-20-002 02-20-102 02-20-302	17/1 17/1 17/1	ATS2BC0 AT12BD0 AT12CA0	O O O	02-23-302 02-23-203 02-23-303	02-23-302 02-23-203 02-23-303	17/3 17/3 17/3	F
	DBPP0840 DBPP0940 DBPP1040	I I I	10-17-314 10-16-314 10-17-118	10-17-314 10-16-314 10-17-118	1/3 1/4 1/3		PPA(01) PPB(00) PP															