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MAIL LOG - PROGRAM THEORY
VOLUME I

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M A I L L O G

PROGRAM THEORY

VOL. I

NASA CONTRACTOR REPORT

DANNY K. HARRIS

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A program theory, containing routine descriptions, detailed flowcharts, complete data base design, external software definitions, and special software support routines, for a computerized documentation control and file management system called Mail Log.

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PREFACE

During the research development and operational phases of the Scout Project, large quantities of documentation are generated to describe analytical studies, and correspondence from mission definition through postflight analysis. These documents take the form of engineering reports, drawings, analyses, procedures, specifications, test results, and contractual reports.

Retrieval of these documents is based upon a Project Office assigned code number which denotes a file cabinet and approximate location within that cabinet. Therefore, knowledge of the filing system code number is necessary for retrieval.

The Scout Project Automatic Data System, SPADS, was developed as a single entry multiple cross-reference filing system. It was implemented to improve the overall management efficiency by:

a) reducing the number of man hours required to retrieve data from the files

b) providing for full data availability with quick retrieval during vehicle anomaly investigations

c) answering inquiries from NASA Headquarters and outside agencies for information on a Scout vehicle

d) helping alleviate a rapidly growing storage problem.

The MAIL LOG portion of this automated data system satisfies the above criteria. This program, with its multiple cross-reference capability, operates in conjunction with and amplification of the existing filing system.

1.0 INTRODUCTION

This document provides the program theory used to obtain the software package, MAIL LOG, developed for the Scout Project Automatic Data System, SPADS. The program is written in FORTRAN for the PRIME 300 computer system located in Building 1192-E at NASA, Langley Research Center. This 16 bit mini-computer has a 64K word virtual memory and a 256K word physical memory. To complete the SPO's computer configuration, a 60 mega-byte disk is used for storage of all software and corresponding data files. Magnetic tape is used for a daily back-up and for physical archiving.

The MAIL LOG program has four modes of operation as shown in Figure 1.1:

1) INPUT - putting new records into the data base
2) REVISE - changing or modifying existing records in the data base
3) SEARCH - finding special records existing in the data base
4) ARCHIVE - store or put away existing records in the data base

The output includes special printouts of records in the data base and results from the INPUT and SEARCH MODES.

Documentation of the MAIL LOG program consists of two other manuals:

1) Users Manual - 'MAIL LOG PROGRAM OPERATING INSTRUCTIONS'; CR

2) Summary Manual - 'MAIL LOG PROGRAM SUMMARY AND SPECIFICATIONS'; CR

The MAIL LOG data base consists of three main subfiles (as shown in Figure 1.2);

1) Incoming and Outgoing Mail Correspondence

2) Design Information Releases (DIR) and Reports

3) Drawings and Engineering orders (E.O.)

SPADS

MAIL LOG

Modes of Operation

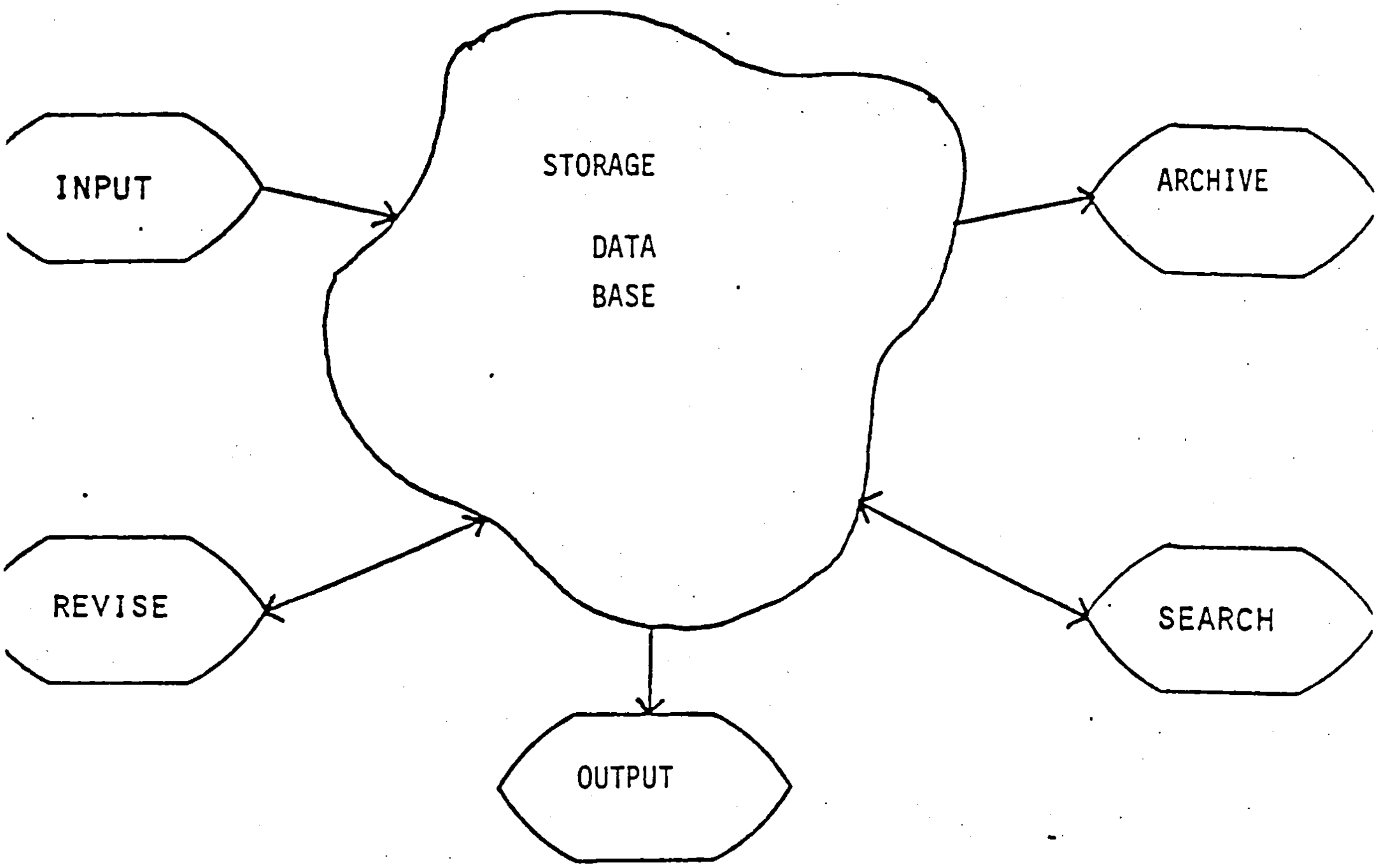


FIGURE 1.1

SPADS
MAIL LOG
Subfiled Data Base

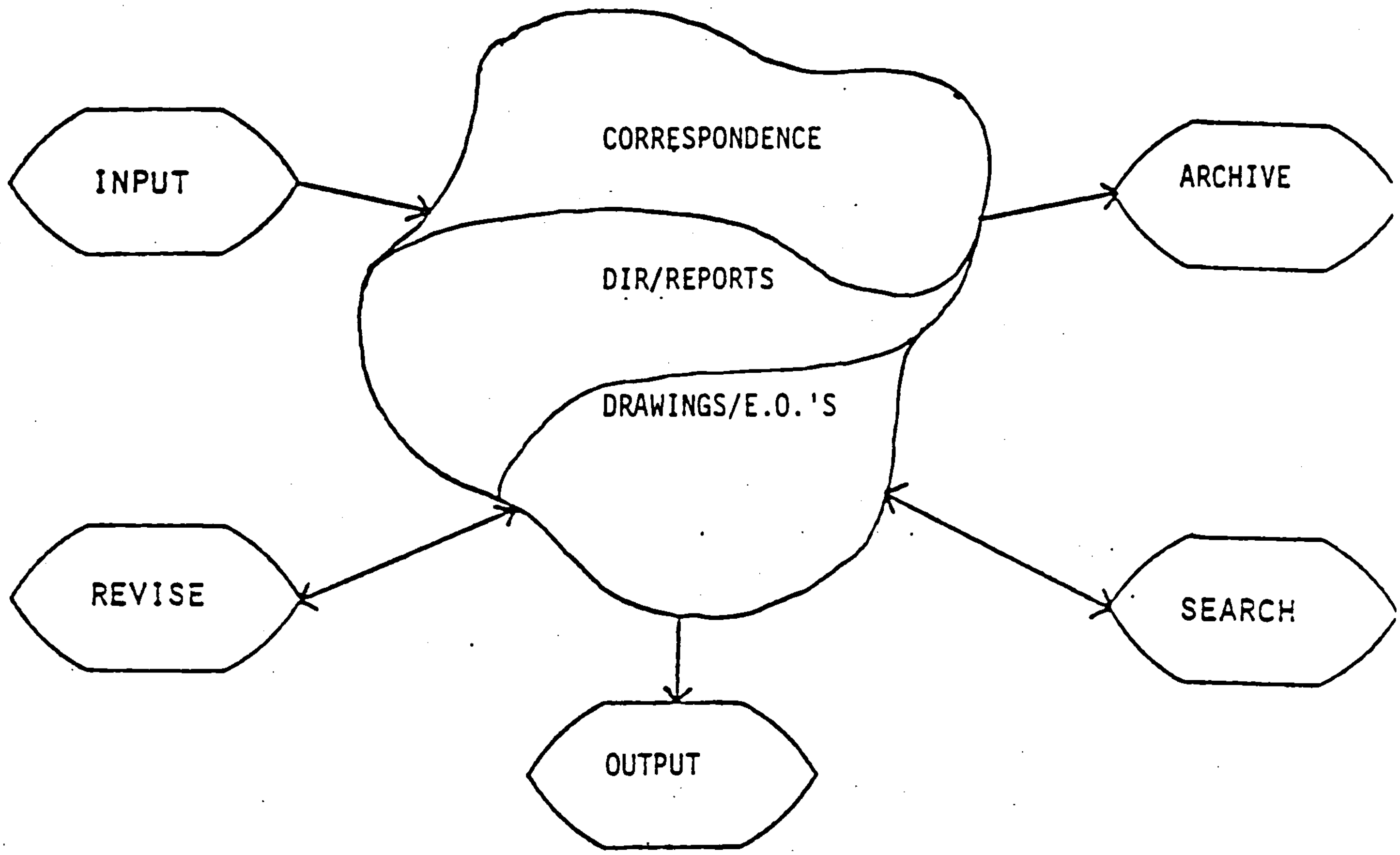


FIGURE 1.2

2.0 DEFINITIONS

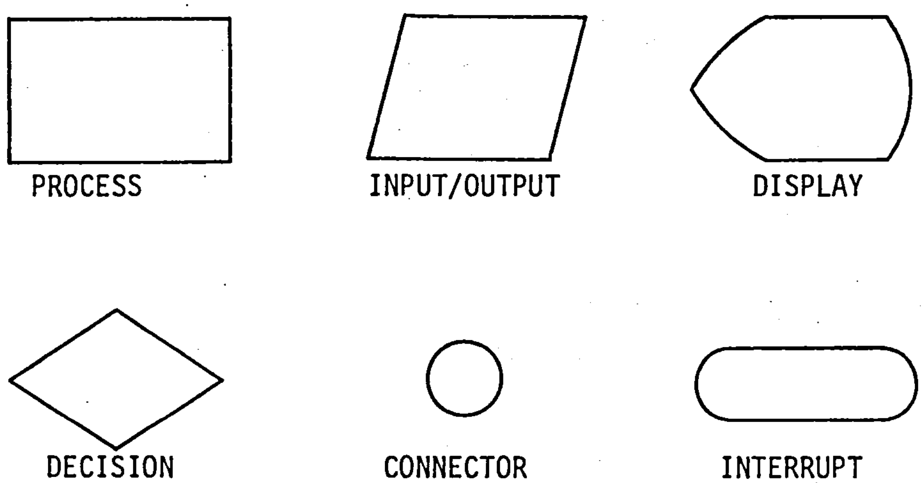
2.1 TERMS, ACRONYMS, AND ABBREVIATIONS

Terms, acronyms, and abbreviations used within these documents are defined in GLOSSARY OF TERMS, Appendix A.

2.2 FLOWCHART CONVENTIONS

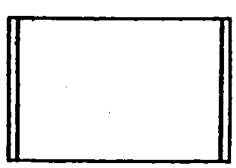
Flowcharting conventions for this manual consist of the following:

(a) Standard IBM flowcharting symbols will be used for all diagrams.

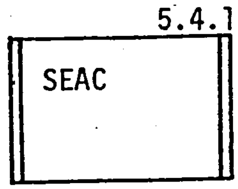


(b) Logic always flows from top to bottom and from left to right on all pages.

(c) All subroutines will be designated by a double sided procedure box.

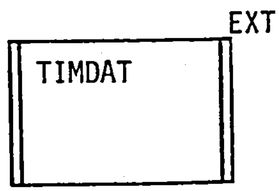


(d) A figure number is utilized as the symbol identification for all subroutines within the set of flowcharts. By removing the 5 from each number, the description section number is given.

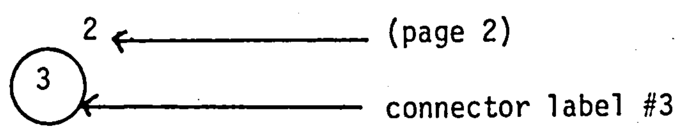


For example: Description for Figure 5.4.1 is found in Section 4.1

(e) The abbreviation EXT. is utilized as the symbol identification for all predefined or system software routines external to the set of flowcharts.

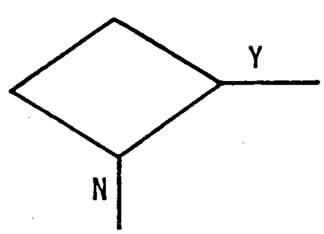


(f) Cross referencing connectors are accomplished at the outconnectors only. The page number to the upper right of the outconnector represents the page number of the flowchart where the associated inconnector is located.

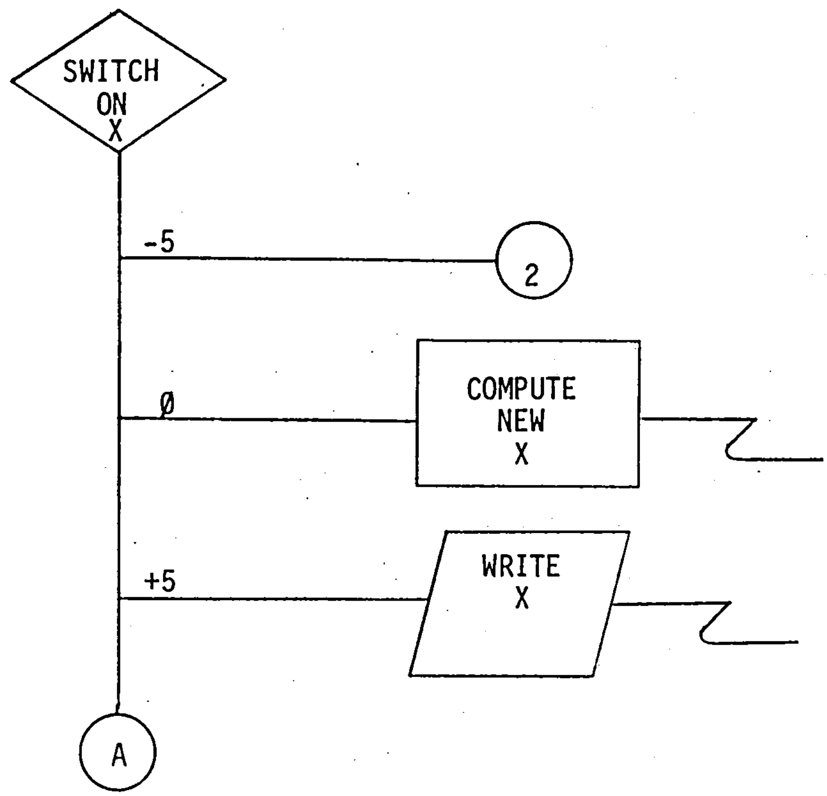


(g) Converging or branching connectors will be designated by a number. Continuation of in-line instructions will be designated with a letter.

(h) All decisions will branch with the YES path to the right and the NO path down. Decision comments will be stated to the positive question; this is done even though the corresponding code is written to the negative.



(i) Multiple decisions branching in sequence will be symbolized as one decision block commented SWITCH.



(j) Each flow diagram will be followed by its corresponding code which will use the following conventions:

(1) CALL to system or program routines will only designate the routine name.

(2) Format statements will not be given.

(3) The IF on decision statements will not be given.

(4) GO TO's, CALL EXIT's, and RETURN's will not be designated.

(5) Blocks representing multiple statements will separate each command with a semicolon.

3.0 GENERAL PROGRAM DESCRIPTION

This section provides a description of the MAIL LOG basic operating procedures and main subfile routines.

3.1 BASIC OPERATING PROCEDURES

The purpose of this section is to provide a description and terminal interaction the user must perform in order to LOGIN to the PRIME computer system, enter the SPADS MAIL LOG program, and exit MAIL LOG program. Note that all user actions are terminated with a carriage return; designated by the key marked RETURN on the terminal.

3.1.1 LOGIN

There are two methods to enter the SPADS computer system: LOGIN XXX and LOGIN SYSTEM. Either method allows the user to access any active program on SPADS. Both require the user to enter the program selection MAIL LOG as shown in section 3.1.2. User action is designated within a rectangle. XXX represents the user initials; N is the terminal location number; HR and MN is the time the user entered the system in hours and minutes; and MMDDYY is the month, day, and year.

```
LOGIN XXX
XXX    (N) LOGGED IN AT HR'MN   MMDDYY
```

3.1.1.1 LOGIN XXX

This login (where XXX is the user's ID) allows the user to perform any search and obtain the resulting outputs within the MAIL LOG subfiles. Clearance for some user ID's allow entrance into the INPUT and REVISE operation modes. No user has clearance to execute the ARCHIVE MODE.

3.1.1.2 LOGIN SYSTEM

This login allows the user to perform any search and obtain the resulting outputs within the MAIL LOG subfiles. It also allows the ARCHIVE MODE to be entered and executed. No clearance is given to execute the INPUT or REVISE MODES.

3.1.2 PROGRAM ENTRY

After system LOGIN is completed, the user must specify the program selection MAIL LOG as follows:

```
THE FOLLOWING IS A LIST OF CURRENT APPLICATIONS
PLEASE INDICATE YOUR APPLICATION/PROJECT BY SELECTING THE APPROPRIATE KEY

APPLICATION/PROJECT        KEY

CHANGE REQUEST             CHG
SCHEDULE 15000             150
SCHEDULE 15100             151
ANALYSIS I                 ANAL
MAIL LOG                   MAIL
ELOPE                      ELOP
PROGRAM DEVELOPMENT        DEV
SOFTWARE MAINT             SOMA
MISCELLANEOUS              MISC

PLEASE ENTER THE APPROPRIATE KEY

MAIL

MAIL
```

3.1.2.1 OPENING HEADER

This attaches to the F_MAIL UFD and resumes the running of the main MAIL LOG enter program, BFILE.

```
WELCOME TO SPADS

MAIL LOG FILE

DO YOU WISH TO WORK WITH THE DIR/REPORT DATA --- ENTER DIR
                         OR DRAWING DATA     --- ENTER DRAW
                         OR DAILY CORRESPONDENCE --- COR
                         OR QUIT                 --- QU
```

In order for the user to select one of the four modes of operation, one of three main data base subfiles must first be designated as follows:

DRAW

This attaches the user to the F_DRAW UFD and resumes operation of the *DRAW program. Likewise, if DIR was selected, *DIR program would be resumed on the F_DIR UFD. If COR was selected, the user remains on the F_MAIL UFD and continues as normal.

3.1.2.2 OPTION MODES

PLEASE CHOOSE ONE OF THE FOLLOWING:

MODE	KEY
INPUT	INP
REVISE	REV
SEARCH	SEA
ARCHIVE	ARC
QUIT	QUIT

3.1.3 PROGRAM EXIT

To leave the program the user must enter QUIT as shown below:

```
PLEASE CHOOSE ONE OF THE FOLLOWING:
MODE                     KEY
INPUT                    INP
REVISE                   REV
SEARCH                   SEA
ARCHIVE                  ARC
QUIT                     QUIT
QUIT
```

This provides program exit and returns the user to the program entry level on the F_MAIL UFD.

```
DO YOU WISH TO WORK WITH THE DIR/REPORT DATA --- ENTER DIR
                          OR DRAWING DATA     --- ENTER DRAW
                          OR DAILY CORRESPONDENCE --- COR
                          OR QUIT                 --- QU

QU

OK,
```

3.2 MAIL CORRESPONDENCE MAIN

This routine provides the executive operations and main program entry for the MAIL LOG program. It also contains the necessary routines to handle the Correspondence subfile. The program is called BFILE and is located within the F_MAIL UFD. If the user selects the Correspondence subfile, a USER file is built containing the user ID, time, date, and terminal location. Then the user may proceed with one of four (4) modes of operation within the Correspondence subfiles. When a user quits operation within the Correspondence subfiles, return to the executive main entry selection mode is made. The user again has the option of operating with the DIR/REPORT, DRAWING, or CORRESPONDENCE data. If either of the first two (2) areas of the data base are selected, the executive routine attaches the user to the appropriate UFD, F_DIR or F_DRAW respectively. See Sections 3.3 and 3.4 for further information regarding these main routines. Flowchart Figure 5.3-1 depicts the CORRESPONDENCE MAIN.

3.3 DESIGN INFORMATION RELEASE/REPORT MAIN

This routine provides the executive operation and main program entry for the DIR/REPORT data subfile. This program is called *DIR and is located within the F_DIR UFD. Upon entry into this program, a USER file is built containing the user ID, time, date, and terminal location. The user then may proceed with one of four (4) modes of operation within the DIR/REPORT subfile. A 'QUIT' at this level will send executive control back to the F_MAIL UFD. This is accomplished by resuming the BFILE program. Operation then proceeds as described in Section 3.2. Flowchart Figure 5.3-2 depicts the DIR/REPORT MAIN.

3.4 DRAWING/ENGINEERING ORDER MAIN

This routine provides the executive operation and main program entry for the DRAWING/E.O. data subfiles. This program is called *DRAW and is located within the F_DRAW UFD. Upon entry into this program, a USER file is built containing the user ID, time, date, and terminal location. The user then may proceed with one (1) of four (4) modes of operation within the DRAWING/E.O. subfile. A 'QUIT' at this level will send executive control back to the F_MAIL UFD. This is accomplished by resuming the BFILE program. Operation then proceeds as described in Section 3.2. Flowchart Figure 5.3-3 depicts the DRAWING/E.O. MAIN.

4.0 SUBROUTINE DESCRIPTION

This section provides descriptions of all subroutines used by MAIL CORRESPONDENCE, DESIGN INFORMATION RELEASE/REPORT, and DRAWING/ENGINEERING ORDER subfile programs.

4.1 MAIL CORRESPONDENCE

4.1.1 INPTC

This subroutine is the input routine for the SPADS MAIL LOG Correspondence subfile. The Correspondence data record for each document consists of up to sixteen (16) data items as shown in Figure 6.2.1.1. Following each complete document entry, all items are displayed on the terminal to be checked for errors at this time. After a document record has been declared correct, the specific subfile must be designated in which this document is to be stored. If all documents can not be entered in one (1) input session, the user has a WAIT option which allows the daily input to be continued at a later time. This continuation is declared upon re-entering the INPUT MODE. If the WAIT option is taken by mistake and there are no other documents to be entered, recovery is accomplished by declaring this is NOT a continuation upon re-entry into the INPUT MODE. When this has been done the user now has three (3) options from which to choose:

a) Start a New Entry (NEW)
b) Spool Last Output Again (LAST)
c) Spool New Data Entered (DATA)

Option (c) DATA will spool to the high speed printer a sorted output of all documents entered for that daily input session.

When a daily input session is complete, this output is normally spooled to the printer in two (2) formats: a complete record output and a brief or partial record output. If a computer or printer malfunction occurs during this output, another copy may be obtained by re-entering the INPUT MODE as previously described and selecting option (b) LAST. Flowchart Figure 5.4.1-1 depicts the INPUT MODE of the Correspondence subfile.

4.1.2 REVSC

This subroutine is the revise routine for the SPADS MAIL LOG Correspondence subfile. To revise or delete a document, the input date and daily counter code comprise the unique identifier for its location. Additional time can be saved if the user also knows in which of the six (6) correspondence data subfiles the document is stored. When the desired document record is found, it will be displayed on the terminal for verification. If not the correct record, search for the document will continue. After the revision has been made the document record is again displayed on the terminal for user edification.

The REVISE MODE also can give the user manual revise or delete capability for documents in the ACTION DUE file. Flowchart Figure 5.4.1-2 depicts the REVISE MODE of the Correspondence subfile.

4.1.3 SEAC

This subroutine is the search routine for the SPADS MAIL LOG Correspondence subfile.

Of the sixteen (16) possible data items within a document record, eleven (11) are searchable. The resulting outputs from these searches vary from five (5) to eight (8) data items. See Figure 6.2.1.2. All searches except for the ACTION DUE DATE search have a multiple subfile selection capability in which any single or combination of the six subfiles may be used. The ACTION DUE DATE search automatically searches all six (6) subfiles. There is a specialized ALL search which outputs all document records in a specified subfile or combination of subfiles. However, it is not recommended that the general user call for the search ALL option.

The searches may also be assigned for a particular time frame. If no time frame is selected, the first valid date becomes the earliest date in the data base and the last valid date defaults to 12-31-99. Of course, the ACTION DUE DATE, DOCUMENT DATE, and INPUT DATE searches do not use the time framing capability. However, the DOCUMENT and INPUT DATE searches can retrieve entire month's or an entire year's worth of data by entering 00. For example, entering 110078 would result in finding all the documents within the data base in the eleventh month, November, for the year 1978. Likewise, an entry of 000078 would retrieve all documents for the year 1978. See Figure 6.2.1.3.

Flowchart Figure 5.4.1-3 depicts the SEARCH MODE of the Correspondence subfile.

4.1.4 ARCC

This subroutine is the archive routine for the SPADS MAIL LOG Correspondence subfile. To archive a document not only is the input date and daily counter code needed, but also the specific data subfile in which it is located. After these requirements have been satisfied, a pause of 15 to 50 seconds occurs for the system to update all files involved.

All archived document records are placed in a file called INACTS, except for those records stored in the TRANSMITTAL data subfile. These records are archived to a file called INACTL, because of their extra data item, DESCRIPTION. Flowchart Figure 5.4.1-4 depicts the ARCHIVE MODE of the Correspondence subfile.

4.1.5 SHOWC

This subroutine is used to display an entire data record on the terminal for the INPUT or REVISE MODE . Each data item is numbered in order to verify the document record as either correctly input or the correct record to be revised or deleted. Flowchart Figure 5.4.1-5 depicts the flow diagram for this subroutine.

4.1.6 INPSC

This subroutine is used by the INPUT or REVISE MODES to input or change specific data items within a document record. Flowchart Figure 5.4.1-6 depicts the flow diagram for this subroutine.

4.1.7 OPEN

This subroutine is used to open all six (6) data subfiles for read and write functions. Flowchart Figure 5.4.1-7 depicts the flow diagram for this subroutine.

4.1.8 CLOSE

This subroutine is used to close all six (6) data subfiles which are open for read and write functions. Flowchart Figure 5.4.1-8 depicts the flow diagram for this subroutine.

4.1.9 WHERE

This subroutine is used by the REVISE or SEARCH MODES to determine how many and which data subfiles are to be opened for searching purposes. These selected subfiles are then opened for the SEARCH MODE of operation. Flowchart Figure 5.4.1-9 depicts the flow diagram for this subroutine.

4.1.10 BRAKET

This subroutine is used by the SEARCH MODE to determine a first and last valid date for a time framed type of search. Defaults are 0-0-0 and 12-31-99 for the first and last valid dates, respectively. Flowchart Figure 5.4.1-10 depicts the flow diagram for this subroutine.

4.1.11 ALC

This subroutine is called by the SEARCH MODE to perform a PRINT ALL type of search. This routine may search any one or combination of subfiles. The break key is inhibited during this search. When the file(s) have been finished, this routine automatically spools the formatted output file to the high speed printer. Flowchart Figure 5.4.1-11 depicts the flow diagram for this subroutine.

4.1.12 RESEA

This subroutine is called by the SEARCH MODE to perform a RESPONSIBLE ENGINEER type of search. This routine formats document records found and builds an output file with headers. When the file(s) have been finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.1-12 depicts the flow diagram for this subroutine.

4.1.13 WHO

This subroutine is called by the SEARCH MODE to perform a WHO TO/ ADDRESSEE type of search. This routine formats document records found and builds an output file with headers. When the file(s) have been finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.1-13 depicts the flow diagram for this subroutine.

4.1.14 DDAT

This subroutine is called by the SEARCH MODE to perform an INPUT DATA DATE type of search.

This INPUT DATE search does not use the time framing capability. However, the INPUT DATE search can retrieve entire month's or an entire year's worth of data by entering 00. For example, entering 110078 would result in finding all the documents within the data base in the eleventh month, November, for the year 1978. Likewise, an entry of 000078 would retrieve all documents for the year 1978. See Figure 6.2.1.3.

Flowchart Figure 5.4.1-14 depicts the flow diagram for this subroutine.

4.1.15 CNUM

This subroutine is called by the SEARCH MODE to perform a CONTRACT NUMBER type of search. This routine formats document records found and builds an output file with headers. When the file(s) have been finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.1-15 depicts the flow diagram for this subroutine.

4.1.16 CWAID

This subroutine is called by the SEARCH MODE to perform a WORK AUTHORIZATION/ID CODE type of search. This procedure may perform partial searches using the W.A. Number only or W.A. Number in conjunction with the first two (2) letters of the ID Code. This routine formats document records found and builds an output file with headers. When the file(s) have been finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.1-16 depicts the flow diagram for this subroutine.

4.1.17 AUSEA

This subroutine is called by the SEARCH MODE to perform an AUTHOR/ SOURCE type of search. This routine formats document records found and builds an output file with headers. When the file(s) have been finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.1-17 depicts the flow diagram for this subroutine.

4.1.18 DLSEA

This subroutine is called by the SEARCH MODE to perform a DOCUMENT/ LETTER NUMBER type of search. This procedure may perform partial searches as long as the desired parameter is four (4) characters in length. This routine formats document records found and builds an output file with headers. When the file(s) have been finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.1-18 depicts the flow diagram for this subroutine.

4.1.19 DATC

This subroutine is called by the SEARCH MODE to perform the DOCUMENT DATE type of search. This DOCUMENT DATE search does not use the time framing capability. However, the DOCUMENT DATE search can retrieve entire month's or an entire year's worth of data by entering 00. For example, entering 110078 would result in finding all the documents within the data base in the eleventh month, November, for the year 1978. Likewise, an entry of 000078 would retrieve all documents for the year 1978. See Figure 6.2.1.3.

Flowchart Figure 5.4.1-19 depicts the flow diagram for this subroutine.

4.1.20 SUBJ

This subroutine is called by the SEARCH MODE to perform the SUBJECT TITLE search. This procedure allows up to four (4) of the seven (7) possible words in the subject to be searched. As each subject is found containing the desired word, the entire subject is displayed on the terminal. If none are found, the user may restart this subroutine or return to the SEARCH MODE as normally done when the file(s) are finished. When the final word has been searched, document records found will be formatted to an output file with headers. Flowchart Figure 5.4.1-20 depicts the flow diagram for this routine.

4.1.21 MSTAT

This subroutine is called by the SEARCH MODE to perform a MAIL STATUS type of search. If the desired mail status is legal, the search is performed. This routine formats document records found and builds an output file with headers. When the file(s) are finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.1-21 depicts the flow diagram for this subroutine.

4.1.22 ADAT

This subroutine is called by the SEARCH MODE to perform the ACTION DUE DATE search. This procedure has two options: a complete listing of document records with an action due or search for document records within five (5) days or past due using the current date as reference. This routine formats document records found and builds an output file with headers. During this search the break key is inhibited. When the ACTION DUE subfile is finished, this routine automatically spools the output file to the high speed printer. Flowchart Figure 5.4.1-22 depicts the flow diagram for this subroutine.

4.1.23 CKIR

This subroutine is used by the REVISE MODE to check the data item selected. If MAIL STATUS, data item number one, is selected, a validity check is made to verify that the correct item was indicated. A valid or invalid flag is set according to user response and logic flow returns to the calling routine. Flowchart Figure 5.4.1-23 depicts the flow diagram for this subroutine.

4.1.24 RDSUB

This subroutine is used by the SEARCH MODE to read the selected subfile(s) desired for the specific data item search. When all subfiles are finished, a read complete flag is set. Flowchart Figure 5.4.1-24 depicts the flow diagram for this subroutine.

4.1.25 SCRNHD

This subroutine is used by the SEARCH MODE to format and display on the terminal the appropriate header for each data item search. Flowchart Figure 5.4.1-25 depicts the flow diagram for this subroutine.

4.1.26 SCRNPT

This subroutine is used by the SEARCH MODE to format and display on the terminal the appropriate data items for a document record which was found. If many document records are found during a search and it is observed that needed information will soon disappear from the screen, the user may temporarily stop terminal display by depressing the space bar. Terminal display may be restarted by depressing the 'Q' key. This routine also increments the number of documents found counter. Flowchart Figure 5.4.1-26 depicts the flow diagram for this subroutine.

4.1.27 HARDHD

This subroutine is used by the SEARCH MODE to format for the output file the appropriate header for each data item search. This header is presented on each page of the output file. Flowchart Figure 5.4.1-27 depicts the flow diagram for this subroutine.

4.1.28 HARDPT

This subroutine is used by the SEARCH MODE to format for the output file the appropriate data items for a document record which was found during a specific data item search. Flowchart Figure 5.4.1-28 depicts the flow diagram for this subroutine.

4.1.29 UPDATE

This subroutine is used by the INPUT MODE to delete or change document records in the ACTION DUE DATE subfile. The updating of this file is determined by checks on specified words in the subject of the referencing document. Flowchart Figure 5.4.1-29 depicts the flow diagram for this subroutine.

4.2 DESIGN INFORMATION RELEASE/REPORT

4.2.1 INPTDR

This subroutine is the input routine for the SPADS MAIL LOG DIR/REPORT subfile. The DIR/REPORT data record for each document consists of up to nine (9) data items. See Figure 6.2.2.1. The first item entered is the DIR/REPORT Number. The file is then checked for a previous entry containing this number. If the number is found, the user has the option to enter the REVISE MODE. Normally, changes are required only to two (2) data items: (8) Revision and (9) Revision Date. Following each completed document entry, all items are displayed on the terminal. Flowchart Figure 5.4.2-1 depicts the INPUT MODE of the DIR/REPORT subfile.

4.2.2 SEADR

This subroutine is the search routine for the SPADS MAIL LOG DIR/REPORT subfile.

Of the nine (9) possible data items within a DIR/REPORT record, all but one, REVISION, are searchable. It should also be noted that the Revision Date is searched during a DATE search. This allows the DATE search to check only the most recent date associated with a document. See Figure 6.2.2.2. The DATE search has the capability of retrieving an entire month's or year's worth of data by entering 00 for the day or month. For example, entering 110078 would result in finding all the documents within the data base in the eleventh month, November, for the year 1978. Likewise, an entry of 000078 would retrieve all documents for the year 1978.

There is a specialized ALL search which outputs all documents in the DIR/REPORT subfile. This ALL search has an optional output along with the normal output consisting of the entire nine (9) item record. This optional output only displays the number of documents found on the terminal and automatically spools to the high speed printer the DIR Number and Revision.

The VEHICLE search also has a special quality. A group of vehicles may be found by using the first and last valid vehicle options. For example, if a user declares the first valid vehicle as 198 and is searching for vehicle number 200, not only would all documents containing vehicle 200 be found, but also those with numbers 198S, 199S, and 200S; where S represents all subsequent vehicles. Default for the first valid vehicle number is zero (0) whereas, the last valid vehicle number becomes 999.

Flowchart Figure 5.4.2-2 depicts the SEARCH MODE of the DIR/REPORT subfile.

4.2.3 REVSDR

This subroutine is the revise routine for the SPADS MAIL LOG DIR/REPORT subfile.

The only information needed in order to revise or delete a DIR or Report is the DIR or REPORT Number. Note that the REVISE MODE may be entered in two (2) ways: a direct REVISE command or thru an INPUT MODE option. If a DIR or REPORT is entered and found already to be in the file, the user may change to the REVISE MODE for modification of old data items.

Otherwise, when the desired document record is found, it will be displayed on the terminal for verification. If it is not the correct record, search for the document will continue. After the revision has been made, the document record is again displayed on the terminal for user edification. Flowchart Figure 5.4.2-3 depicts the REVISE MODE of the DIR/REPORT subfile.

4.2.4 ARCDR

This subroutine is the archive routine for the SPADS MAIL LOG DIR/REPORT subfile.

The necessary information needed in order to archive a DIR or Report is the DIR Number. The user may also designate how many documents to be archived at one session. The file in which all archived records are placed is called INACT. Flowchart Figure 5.4.2-4 depicts the ARCHIVE MODE of the DIR/REPORT subfile.

4.2.5 SHOWDR

This subroutine is used to display an entire data record on the terminal for the INPUT or REVISE MODES. Each data item is numbered in order to verify the data record as either correctly input or the correct record to be revised or deleted. Flowchart Figure 5.4.2-5 depicts the flow diagram for this subroutine.

4.2.6 INPSDR

This subroutine is used by the INPUT or REVISE MODES to input or change specific data items within a data record. Flowchart Figure 5.4.2-6 depicts the flow diagram for this subroutine.

4.2.7 ALDR

This subroutine is called by the SEARCH MODE to perform a PRINT ALL type of search. This routine has two (2) options: a complete listing of DIR/REPORT records containing the entire data record or a partial listing only containing the DIR/REPORT Number and REVISION. When the entire data record option is used, all nine (9) data items are displayed on the terminal and formatted for output. During the partial search only multiples of 50 are displayed on the terminal. During this search the break key is inhibited.

When the DIR/REPORT data file is finished, this routine automatically spools the output file to the high speed printer. Flowchart Figure 5.4.2-7 depicts the flow diagram for this subroutine.

4.2.8 TITDR

This subroutine is called by the SEARCH MODE to perform the TITLE search. This procedure allows up to four (4) of the seven (7) possible words in the title to be searched. As each title is found containing the desired word, the entire title is displayed on the terminal. If none are found, the user may restart this subroutine or return to the SEARCH MODE which is normally done when the data file is finished. When the final word has been searched, the entire data record of document records found will be formatted to an output file and displayed on the terminal. Flowchart Figure 5.4.2-8 depicts the flow diagram for this subroutine.

4.2.9 DIRN

This subroutine is called by the SEARCH MODE to perform the DIR/REPORT NUMBER type of search. If the desired number is not located, a special Not Found message is displayed on the terminal. When the search is finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.2-9 depicts the flow diagram for this subroutine.

4.2.10 DATDR

This subroutine is called by the SEARCH MODE to perform the DOCUMENT DATE type of search. The DATE search has the capability of retrieving an entire month's or year's worth of data by entering 00 for the day or month. For example, entering 110078 would result in finding all the documents within the data base in the eleventh month, November, for the year 1978. Likewise, an entry of 000078 would retrieve all documents for the year 1978. Flowchart Figure 5.4.2-10 depicts the flow diagram for this subroutine.

4.2.11 WANUM

This subroutine is called by the SEARCH MODE to perform a WORK AUTHORIZATION/ID CODE type of search. This procedure may perform partial searches using the W.A. Number only or W.A. Number in conjunction with the first two (2) letters of the ID Code. This routine formats document records found and builds an output file. When the file has been finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.2-11 depicts the flow diagram for this subroutine.

4.2.12 SYSDR

This subroutine is called by the SEARCH MODE to perform a SYSTEM search. This routine formats document records found and builds an output file. When the file has been finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.2-12 depicts the flow diagram for this subroutine.

4.2.13 CONN

This subroutine is called by the SEARCH MODE to perform a CONTRACT NUMBER type of search. This procedure uses the CONTRACT TABLE, CTAB, to find the W.A. Number/ID Code associated with the desired Contract Number. See Section 6.3.2 for further information concerning the CTAB Table. The routine now performs a modified W.A. NUMBER/ID CODE type of search. See Section 4.2.11 for a description of this search. Flowchart Figure 5.4.2-13 depicts the flow diagram for this subroutine.

4.2.14 VEHN

This subroutine is called by the SEARCH MODE to perform a VEHICLE NUMBER type of search. The VEHICLE search also has a special quality. A group of vehicles may be found by using the first and last valid vehicle options. For example, if a user declares the first valid vehicle as 198 and is searching for vehicle number 200, not only would all documents containing vehicle 200 be found, but also those with numbers 198S, 199S, and 200S; where S represents all subsequent vehicles. Default for the first valid vehicle number is zero (0) whereas, the last valid vehicle number becomes 999.

When the file has been finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.2-14 depicts the flow diagram for this subroutine.

4.2.15 FMAIN

This subroutine is used by the SEARCH MODE to format and display on the terminal the entire data record found during a specific data item search. This procedure also formats the data record for the output file to be spooled on the high speed printer. The Contract Number is found in the CONTRACT TABLE, CTAB, by search for the W.A. Number/ID Code. See Section 6.3.2 for further information concerning the CTAB Table.

If many document records are found during a search and it is observed that needed information will soon disappear from the screen, the user may temporarily stop terminal display by depressing the space bar. Terminal display may be restarted by depressing the 'Q' key. Flowchart Figure 5.4.2-15 depicts the flow diagram for this subroutine.

4.2.16 CMAIN

This subroutine is used by the SEARCH MODE to format and display on the terminal the entire data record found during a CONTRACT NUMBER search, 4.2.13. This procedure also formats the data record for the output file to be spooled on the high speed printer.

If many document records are found during a search and it is observed that needed information will soon disappear from the screen, the user may temporarily stop terminal display by depressing the space bar. Terminal display may be restarted by depressing the 'Q' key. Flowchart Figure 5.4.2-16 depicts the flow diagram for this subroutine.

4.3 DRAWING/ENGINEERING ORDER

4.3.1 INPTDW

This subroutine is the input routine for the SPADS MAIL LOG DRAWING/E.O. subfile. The DRAWING subfile data record consists of eleven (11) data items. If the drawing contains more than one (1) sheet, an additional sheet record consisting of five (5) data items is kept for each sheet in the SHEET subfile. See Figure 6.2.3.1. The ENGINEERING ORDER subfile data record consists of six (6) data items. See Figure 6.2.3.3. The main body of data for these three (3) subfiles are sent from Dallas rather than manually input. Unfortunately, vehicle system and section and engineering order titles are not available in the original Dallas Data Base. However, these fields may be entered in manually input Drawings and E.O.'s.

The INPUT MODE has two (2) optional operations:

(1) E.O. - input of new engineering orders.

(2) Drawings and E.O.'s - input of new drawings along with their referenced E.O.'s.
During option number 2, entry of referenced E.O.'s, option number 1 is automatically performed if the E.O.'s are new to the data base.

Entry of new engineering orders may result in one (1) of three (3) terminal messages if the drawing sheet already has three (3), four (4), or more E.O.'s referenced. Flowchart Figure 5.4.3-1 depicts the INPUT MODE of the DRAWING/E.O. subfile.

4.3.2 REVSDW

This subroutine is the revise routine for the SPADS MAIL LOG DRAWING/E.O. subfile. The only information necessary in order to revise or delete a drawing or engineering order is the Drawing Number or E.O. Number. When the desired record is found, it will be displayed on the terminal for verification. If it is not the correct record, search for the desired record will continue. After the revision has been made the entire record is again displayed on the terminal for user edification.

The REVISE MODE may change the revision of a sheet. During this modification, all engineering orders referenced by that drawing sheet are automatically deleted. The REVISE MODE may also be used an an Input operation by adding a new sheet(s) to any existing drawing.

Flowchart Figure 5.4.3-2 depicts the REVISE MODE of the DRAWING/E.O. subfile.

4.3.3 SEADW

This subroutine is the search routine for the SPADS MAIL DRAWING/E.O. subfile.

Of the eleven (11) data items within the DRAWING subfile, nine (9) are searchable. The resulting output from these searches always consists of six (6) data items. See Figure 6.2.3.2. The ENGINEERING ORDER subfile consists of six (6) item records, of which only two (2) are searchable. The resulting output from these two (2) searches consists of up to all six (6) data items. It should be noted that Revision Date is output in place of the E.O. Date when an E.O. has a revision. This allows only the most recent date to be displayed. See Figure 6.2.3.4.

Due to the data base source for drawings coming from Dallas and manual input, three (3) searches have limited capability: SYSTEM, SECTION, and DATE. The SYSTEM and SECTION searches are only usable for those drawings which are manually input. However, some Dallas drawing data will contain this information within the title. Therefore, a TITLE search can be used if either the SYSTEM or SECTION searches are found unsuccessful. The DATE search is also limited in that all Dallas drawing data will have the same date. This date represents the latest information update received from Dallas. Nevertheless, the DATE search has the capability of retrieving an entire month's or year's worth of data by entering 00 for the day or month. For example, entering 110078 would result in finding all drawings within the data base in the eleventh month, November, for the year 1978. Likewise, an entry of 000078 would retrieve all documents for the year 1978.

There are two (2) specialized searches: REVISION ACTION DUE and PRINT ALL. REVISION ACTION DUE search finds all drawings containing sheets which reference five (5) or more engineering orders. The PRINT ALL search has two (2) options: (1) Output all drawings and their referenced E.O.'s or (2) Output all engineering orders in the data base.

The VEHICLE search also has some special qualities. First, the user may search for all drawings related to a certain vehicle, or search for all engineering orders related to a certain vehicle. Second, a group of vehicles may be found by using the first and last valid vehicle options. For example, if a user declares the first valid vehicle as 198 and is searching for vehicle number 200, not only would all records containing vehicle 200 be found, but also those with numbers 198S, 199S, and 200S; where S represents all subsequent vehicles. Default for the first valid vehicle number is zero (0); whereas, the last valid vehicle number becomes 999.

Another search also has the drawing and engineering order options. This is the E.O. NUMBER search. The user may search the ENGINEERING ORDER subfile for a specific E.O. Number or search the DRAWING subfile for all drawings referencing a specific E.O. Number. For an outline of all search capabilities see Figure 6.2.3.5.

Flowchart Figure 5.4.3-3 depicts the SEARCH MODE of the DRAWING/E.O. subfile.

4.3.4 ARCDW

This subroutine is the archive routine for the SPADS MAIL LOG DRAWING/E.O. subfile. The only information needed in order to archive a drawing is the Drawing Number. The user may designate how many drawings are to be archived at one (1) session. Actual drawing data archived is placed in a file called INACTD. If the drawing contains more than one (1) sheet, the SHEET subfile is automatically updated. Sheet drawing data is stored in a file called INACTS.

Engineering order data records are automatically archived. E.O.'s unreferenced by any drawings are placed in a file called INACTE. Flowchart Figure 5.4.3-4 depicts the ARCHIVE MODE of the DRAWING/E.O. subfile.

4.3.5 SHOWEO

This subroutine is used to display the entire ENGINEERING ORDER data record on the terminal for the INPUT or REVISE MODES. Each data item is numbered in order to verify the data record as either correctly input or the correct record to be revised or deleted. Flowchart Figure 5.4.3-5 depicts the flow diagram for this subroutine.

4.3.6 SHOWDW

This subroutine is used to display an entire DRAWING data record from both the DRAW and SHEET subfiles. This entire data record is displayed on the terminal during the INPUT or REVISE MODES. Each data item is numbered in order to verify the data record as either correctly input or the correct record to be revised or deleted. Flowchart Figure 5.4.3-6 depicts the flow diagram for this subroutine.

4.3.7 INPSE

This subroutine is used by the INPUT or REVISE MODES to input or change specific data items within the ENGINEERING ORDER data subfile. Flowchart Figure 5.4.3-7 depicts the flow diagram for this subroutine.

4.3.8 INPSDW

This subroutine is used by the INPUT or REVISE MODES to input or change specific data items within the DRAWING and SHEET data subfiles. Revision of SHEET data records is performed by this routine, whereas, SHEET data Input is performed by another subroutine described in 4.3.9. Flowchart Figure 5.4.3-8 depicts the flow diagram for this procedure.

4.3.9 INPSS

This subroutine is used by the INPUT MODE to enter SHEET subfile data items. If referenced E.O.'s are new to the data base, the user may enter the Engineering Order Input routine described in 4.3.7. Flowchart Figure 5.4.3-9 depicts the flow diagram for this procedure,

4.3.10 FIXSHT

This subroutine is used by the REVISE MODE to prepare the SHEET data subfile for the input of a new sheet for a specified drawing. Flowchart Figure 5.4.3-10 depicts the flow diagram for this subroutine.

4.3.11 SHTADD

This subroutine is used by the REVISE MODE to input new data items in the SHEET subfile corresponding to a new sheet for a specified drawing. This procedure is performed in conjunction with FIXSHT described in 4.3.10. Flowchart Figure 5.4.3-11 depicts the flow diagram for this subroutine.

4.3.12 NEOADD

This subroutine is used by the INPUT or REVISE MODES to add a new ENGINEERING ORDER to a sheet of a specified drawing. Entry of new engineering orders may result in one (1) of three (3) terminal messages if the drawing sheet already has three (3), four (4), or more E.O.'s referenced. Flowchart Figure 5.4.3-12 depicts the flow diagram for this subroutine.

4.3.13 HEADER

This subroutine is used by the SEARCH MODE to format for the output file the appropriate header for each data item search. This header is presented on each page of the output file. Flowchart Figure 5.4.3-13 depicts the flow diagram for this subroutine.

4.3.14 MAIND

This subroutine is used by the SEARCH MODE to format and display on the terminal the appropriate DRAWING data items for each data record which was found during a REVISION ACTION DUE type of search. This procedure also formats the data items for the output file to be spooled on the high speed printer.

If many document records are found during a search and it is observed that needed information will soon disappear from the screen, the user may temporarily stop terminal display by depressing the space bar. Terminal display may be restarted by depressing the 'Q' key. Flowchart Figure 5.4.3-14 depicts the flow diagram for this subroutine.

4.3.15 DMAIN

This subroutine is used by the SEARCH MODE to format and display on the terminal the appropriate DRAWING data items for each data record which was found. This procedure also formats the data items for the output file to be spooled on the high speed printer.

If many document records are found during a search and it is observed that needed information will soon disappear from the screen, the user may temporarily stop terminal display by depressing the space bar. Terminal display may be restarted by depressing the 'Q' key. Flowchart Figure 5.4.3-15 depicts the flow diagram for this subroutine.

4.3.16 TITDW

This subroutine is called by the SEARCH MODE to perform the TITLE search. This procedure allows up to four (4) of the seven (7) possible words in the title to be searched. As each title is found containing the desired word, the entire title is displayed on the terminal. If none are found, the user may restart this subroutine or return to the SEARCH MODE which is normally done when the data file is finished. When the final word has been searched, the appropriate data items of each DRAWING data record found will be formatted to an output file and displayed on the terminal. Flowchart Figure 5.4.3-16 depicts the flow diagram for this subroutine.

4.3.17 ALDW

This subroutine is called by the SEARCH MODE to perform a PRINT ALL type of search. This routine has two (2) options: a complete listing of all Drawing data including Engineering Orders or a listing of Engineering Orders only. During this search the break key is inhibited. Each DRAWING or ENGINEERING ORDER data record is formatted for the output file and displayed on the terminal. When the designated subfiles are finished, this routine automatically spools the output file to the high speed printer. Flowchart Figure 5.4.3-17 depicts the flow diagram for this subroutine.

4.3.18 ACTDUE

This subroutine is called by the SEARCH MODE to perform the REVISION ACTION DUE type of search. This procedure searches the DRAWING and SHEET subfiles for all Drawing data sheets referencing five (5) or more Engineering Orders. Those drawing sheets found which contain the correct number of E.O's are formatted for the output file and displayed on the terminal. During this search the break key is inhibited. When all DRAWING data records have been checked, this routine automatically spools the output file to the high speed printer. Flowchart Figure 5.4.3-18 depicts the flow diagram for this subroutine.

4.3.19 DRAWN

This subroutine is called by the SEARCH MODE to perform the DRAWING NUMBER type of search. If the desired number is not located, a special Not Found message is displayed on the terminal. When the search is finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.3-19 depicts the flow diagram for this subroutine.

4.3.20 DATDW

This subroutine is called by the SEARCH MODE to perform the DRAWING DATE type of search. The DATE search has the capability of retrieving an entire month's or year's worth of data by entering 00 for the day or month. For example, entering 110078 would result in finding all the documents within the data base in the eleventh month, November, for the year 1978. Likewise, an entry of 000078 would retrieve all documents for the year 1978. Flowchart Figure 5.4.3-20 depicts the flow diagram for this subroutine.

4.3.21 SYSDW

This subroutine is called by the SEARCH MODE to perform a SYSTEM search. This routine formats drawings found and builds an output file. When the file has been finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.3-21 depicts the flow diagram for this subroutine.

4.3.22 VEHND

This subroutine is called by the SEARCH MODE to perform a VEHICLE NUMBER type of search. This procedure has two (2) options: all the Drawings or all the Engineering Orders related to a vehicle, or set of vehicles. The Vehicle search also has a special quality. A group of vehicles may be found by using the first and last valid vehicle options. For example, if a user delcares the first valid vehicle as 198 and is searching for vehicle number 200, not only would all documents containing vehicle 200 be found, but also those with numbers 198S, 199S, and 200S; where S represents all subsequent vehicles. Default for the first valid vehicle number is zero (0) whereas, the last valid vehicle number becomes 999.

Flowchart Figure 5.4.3-22 depicts the flow diagram for this subroutine.

4.3.23 SECTN

This subroutine is called by the SEARCH MODE to perform a SECTION search. This routine formats drawings found and builds an output file. When the file has been finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.3-23 depicts the flow diagram for this subroutine.

4.3.24 CODE

This subroutine is called by the SEARCH MODE to perform a VENDOR CODE type of search. This procedure checks the first three (3) numbers of each drawing number for a designated code. All drawings found with this vendor code are formatted for the output file and displayed on the terminal. When the file has been finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.3-24 depicts the flow diagram for this subroutine.

4.3.25 EONN

This subroutine is called by the SEARCH MODE to perform the ENGINEERING ORDER NUMBER type of search. This procedure has two options: locating a specific Engineering Order within the E.O. data subfile or search the DRAWING data subfiles for all sheets referencing a specific Engineering Order. If the first option is taken and the desired E.O. is not located on the E.O. subfile, a special **Not Found** message is displayed on the terminal. Regardless of the option, the routine formats for the output file and displays on the terminal the appropriate data items for data records found. When the search is finished, this routine returns to the SEARCH MODE. Flowchart Figure 5.4.3-25 depicts the flow diagram for this subroutine.

4.4 GENERAL SUBROUTINES

4.4.1 IDENT

This subroutine is used by the three (3) main subfile entrance routines to record the user identification, time and date of entry, and the terminal used. The file used to store this information is called USER in each of the three (3) program UFD's. Flowchart Figure 5.4.4-1 depicts the flow diagram for this subroutine.

4.4.2 TINPUT

This subroutine is used to perform the basic Title Input for all three (3) subfiles. This procedure is used in the INPUT MODE to build a seven (7) word, ten (10) characters per word searchable title. It is also called during the REVISE MODE to change an existing title. The routine is also used to build a compatible word for which to perform the TITLE search. Flowchart Figure 5.4.4-2 depicts the flow diagram for this subroutine.

4.4.3 RDCOM

This subroutine is used by the Title Input routine, 4.4.2, to construct the title one (1) character at a time. Editor checks are made for eraser, kill, and new line characters. Flowchart Figure 5.4.4-3 depicts the flow diagram for this subroutine.

4.4.4 GETWRD

This subroutine is used by the Title Input routine, 4.4.2, to build the searchable title in seven (7) words, ten (10) characters per word. Flowchart Figure 5.4.4-4 depicts the flow diagram for this subroutine.

4.4.5 GETWD

This subroutine is used by the Title Input routine, 4.4.2, to preserve and store the title as input. This title is used for output formatting. Flowchart Figure 5.4.4-5 depicts the flow diagram for this subroutine.

4.4.6 GETCON

This subroutine is used by the MAIL CORRESPONDENCE and DIR/REPORT subfile programs to fetch a Contract Number from the CONTRACT TABLE, CTAB. This process is performed by searching the table for a given Work Authorization Number/ID Code. See Section 6.2.3 for further information concerning the CTAB Table. If the search if unsuccessful, a special Not Found message is stored in place of the Contract Number and displayed on the terminal. Flowchart Figure 5.4.4-6 depicts the flow diagram for this subroutine.

4.4.7 IDUSER

This subroutine is used by the ARCHIVE MODE routine to check the user identification for a valid entry. If the user identification is not SYSTEM, a special invalid user message is displayed on the terminal. A special message is also sent to the system terminal to record the improper entry attempt into the ARCHIVE MODE. Flowchart Figure 5.4.4-7 depicts the flow diagram for this subroutine.

5.0 FLOWCHARTS

5.1 MAIN ENTRIES

5.1.1 MAIL CORRESPONDENCE

Figure 5.3-1 is the flowchart for the MAIL LOG Program and MAIL CORRESPONDENCE subfile main entry routine.

5.1.2 DESIGN INFORMATION RELEASE/REPORT

Figure 5.3-2 is the flowchart for the DIR/REPORT subfile main entry routine.

5.1.3 DRAWING/ENGINEERING ORDER

Figure 5.3-3 is the flowchart for the DRAWING/E.O. subfile main entry routine.

5.2 SUBROUTINES

5.2.1 MAIL CORRESPONDENCE

Figures 5.4.1-1 thru 5.4.1-29 are the flowcharts for the MAIL CORRESPONDENCE subfile subroutines.

5.2.2 DESIGN INFORMATION RELEASE/REPORT

Figures 5.4.2-1 thru 5.4.1-16 are the flowcharts for the DIR/REPORT subfile subroutines.

5.2.3 DRAWING/ENGINEERING ORDER

Figures 5.4.3-1 thru 5.4.3-25 are the flowcharts for the DRAWING/E.O. subfile subroutines.

5.2.4 GENERAL

Figures 5.4.4-1 thru 5.4.4-7 are the flowcharts for the MAIL LOG program general subroutines.

5.3 FLOWCHART FIGURES FOR MAIN ENTRIES

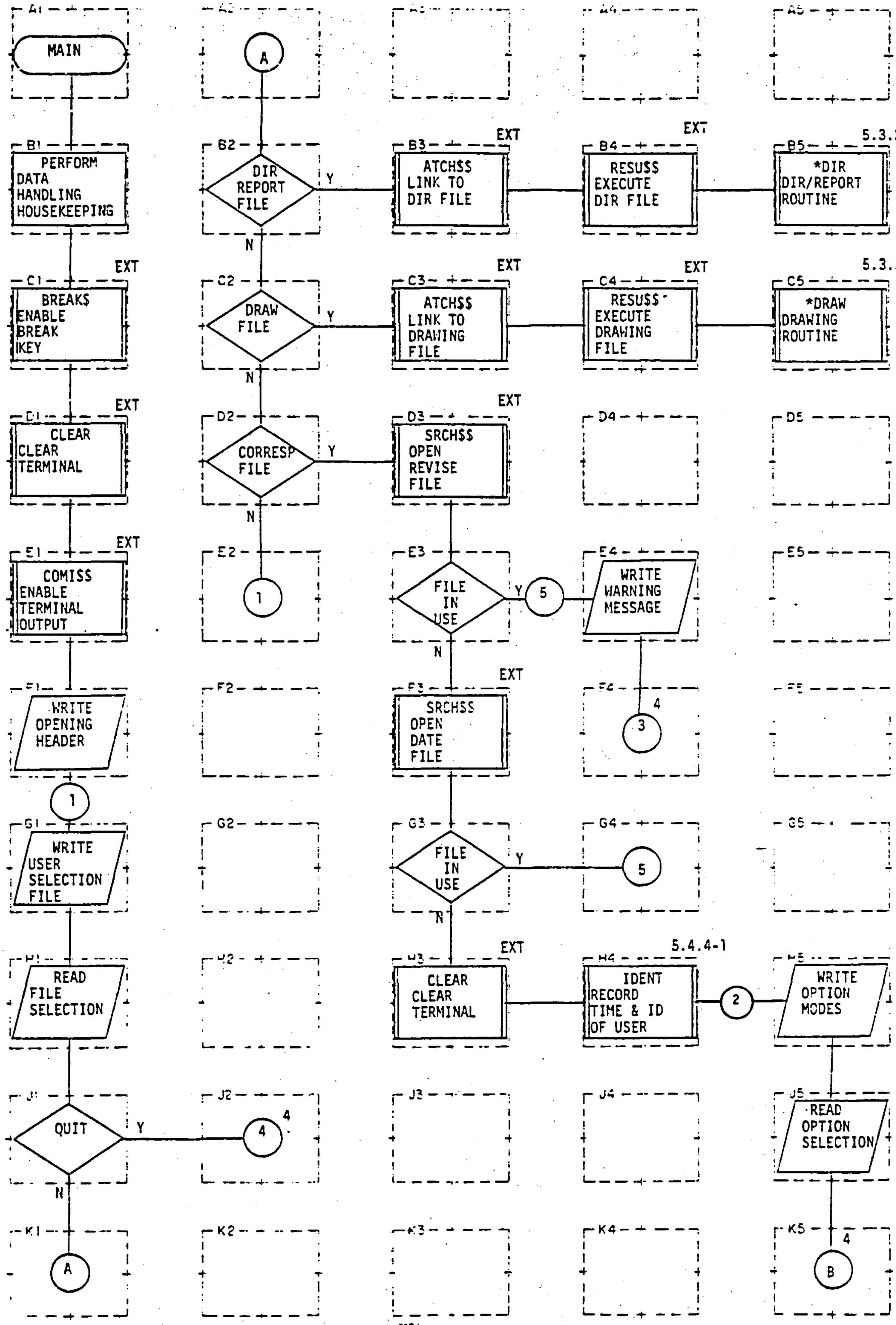


Figure 5.3-1

Page (1 of 5)

```
A1
B1  $INSERT SYSCOM>KEYS.F; COMMON/CDAT/CO; INTEGER*2; DOUBLE PRECISION
C1  BREAK$(.FALSE.)
D1  CLEAR
E1  COMI$$('TTY',3,12,IC)
F1  WRITE (1,100)    See section 3.1.2.1 page 8
G1  WRITE (1,125)    See section 3.1.2.1 page 8
H1  READ (1,11) IOPT
J1  (IOPT.EQ.'QU')
K1
A2
B2  (IOPT .NE.'DI')
C2  (IOPT.EQ.'DR')
D2  (IOPT.EQ.'CO')
E2
F2
G2
H2
J2
K2
A3
B3  ATCH$$('F_DIR',5, K$ALLD,IPAS,K$IMFD+K$SETH,IC)
C3  ATCH$$('F_DRAW',6,K$ALLD,IPAS,K$IMFD+K$SETH,IC)
D3  SRCH$$(K$RDWR+K$NDAM,'REVS',6,4,1,IC)
E3  (IC.NE.0)
```

Figure 5.3.-1 Page (2 of 5)

F3 SRCH$$(K$RDWR+K$NDAM,'DATE',6,6,1,IC)

G3 (IC.NE.0)

H3 CLEAR

J3

K3

A4

B4 RESU$$('*DIR',4)

C4 RESU$$('*DRAW',5)

D4

E4 WRITE (1,1001) ('SORRY - THE MAIL LOG IS CURRENTLY IN USE PLEASE TRY AGAIN LATER')

F4

G4

H4 IDENT

J4

K4

A5

B5 SEE B4

C5 SEE B5

D5

E5

F5

G5

H5 WRITE (1,2) See section 3.1.2.2 page 9

J5 READ (1,11)IOPT

K5

Figure 5.3-1 Page (3 of 5)

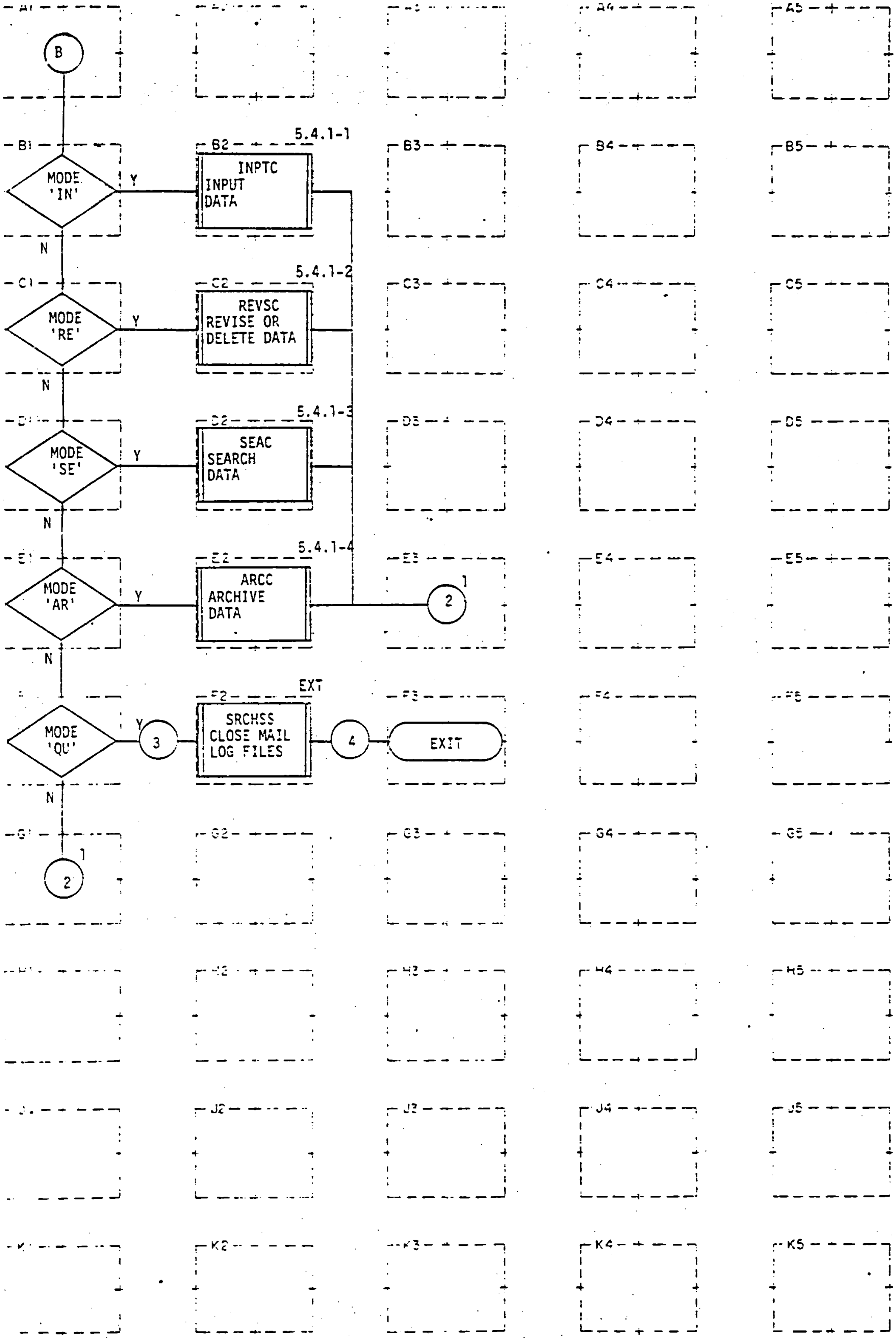


Figure 5.3-1

Page (4 of 5)

A1

B1 (IOPT.EQ.'IN')

C1 (IOPT.EQ.'RE')

D1 (IOPT.EQ.'SE')

E1 (IOPT.EQ.'AR')

F1 (IOPT.EQ.'QU')

G1

H1

J1

K1

A2

B2 INPTC

C2 REVSC

D2 SEAC

E2 ARCC

F2 SRCH$$(K$CLOS,'REVS',6,0,0,0); SRCH$$(K$CLOS,'DATE',6,0,0,0)

G2

H2

J2

K2

A3

B3

C3

D3

E3

Figure 5.3-1 Page (5 of 5)

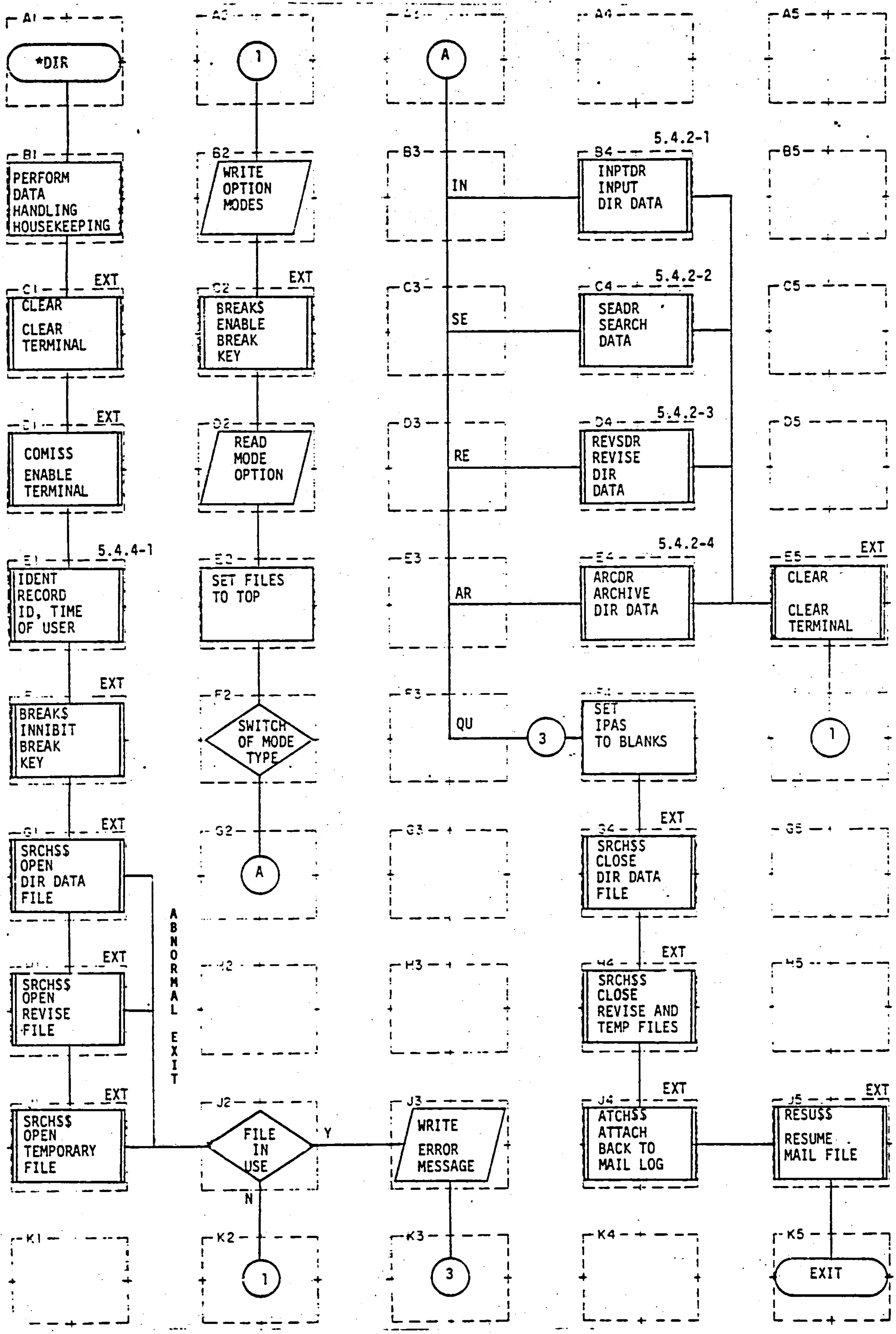


Figure 5.3-2

Page (1 of 3)

```
A1
B1      $INSERT COMMON: $INSERT SYSCOM KEYS.F; INTEGER*2
C1      CLEAR
D1      COMI$$ ('TTY',6,12,IC)
E1      IDENT
F1      BREAK$(.TRUE.)
G1      SRCH$$(K$RDWR+K$NDAM,'DIR',6,2,IT,IC)
H1      SRCH$$(K$RDWR+K$NDAM,'REVS',6,4,IT,IC)
J1      SRCH$$(K$RDWR+K$NDAM,'TEMP',6,6,IT,IC)
K1
A2
B2      WRITE(1,3)   See section 3.1.2.2 page 9
C2      BREAK$(.FALSE.)
D2      READ(1,4)IDES
E2      REWIND8; REWIND 10
F2
G2
H2
J2      (IC.NE.0)
K2
A3
B3
C3
D3
E3
```

Figure 5.3-2 Page (2 of 3)

```
F3
G3
H3
J3    WRITE(1,1002) ('DIR FILE IS IN USE - PLEASE TRY LATER')
K3
A4
B4    (IDES.EQ.'IN')  INPTDR
C4    (IDES.EQ.'SE')  SEADR
D4    (IDES.EQ.'RE')   REVSDR
E4    (IDES.EQ.'AR')  ARCDR
F4    (IDES.EQ.'QU'); IPAS(1)=' '; IPAS(2)=' '; IPAS(3)=' '
G4    SRCH$$(K$CLOS,'DIR',6,0,0,0)
H4    SRCH$$(K$CLOS,'REVS',6,0,0,0); SRCH$$(K$CLOS,'TEMP',6,0,0,0)
J4    ATCH$$('F_MAIL',6,K$ALLD,IPAS,K$IMFD+K$SETH,IC)
K4
A5
B5
C5
D5
E5    CLEAR
F5
G5
H5
J5    RESU$$('BFILE',5)
K5
```

Figure 5.3-2 Page (3 of 3)

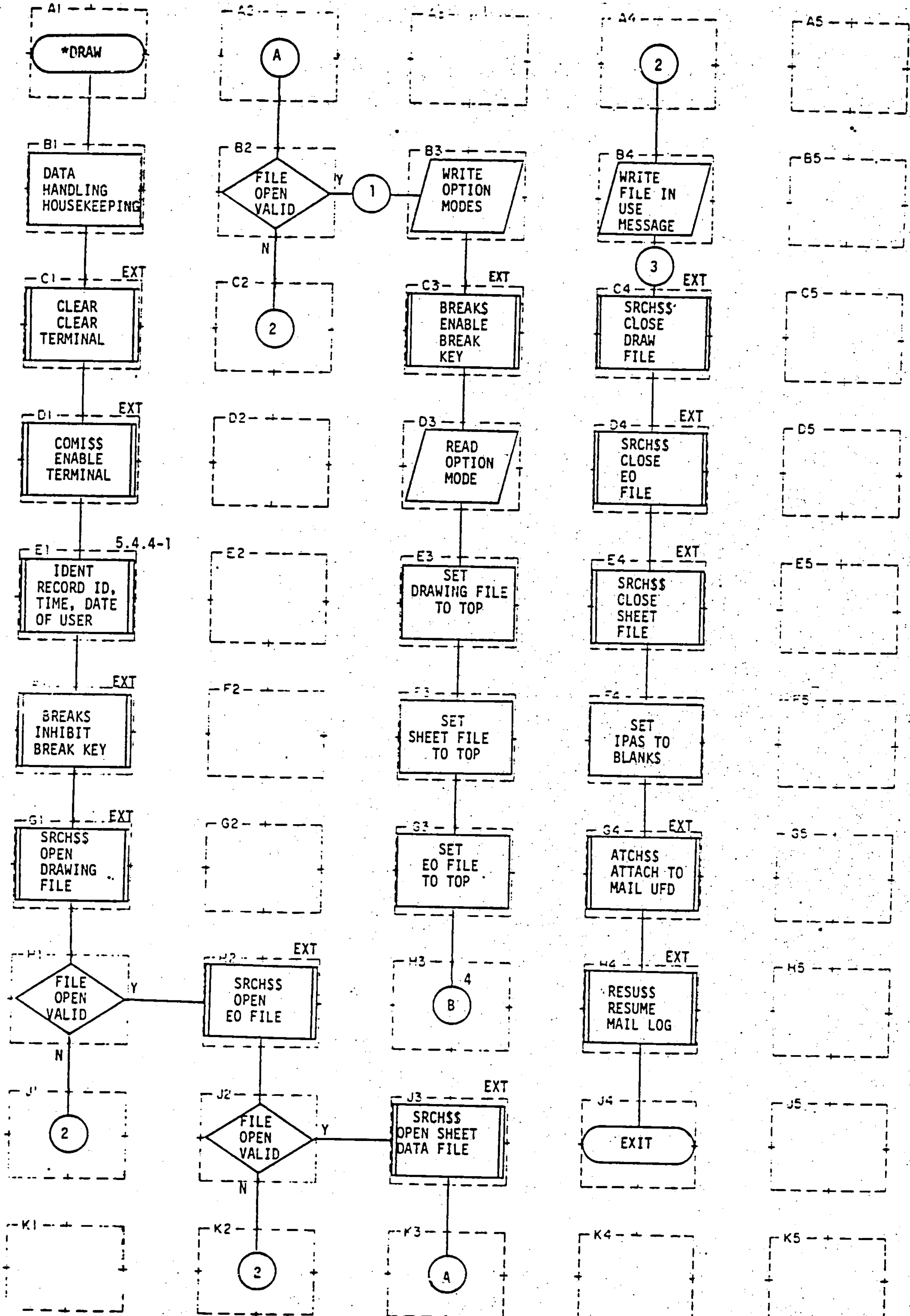

*DRAW
DATA HANDLING HOUSEKEEPING
CLEAR CLEAR TERMINAL
COMI$$ ENABLE TERMINAL
5.4.4-1
IDENT RECORD ID, TIME, DATE OF USER
BREAKS INHIBIT BREAK KEY
SRCH$$ OPEN DRAWING FILE
FILE OPEN VALID
Y
N
SRCHSS OPEN EO FILE
FILE OPEN VALID
SRCH$$ OPEN SHEET DATA FILE
A
WRITE OPTION MODES
BREAKS ENABLE BREAK KEY
READ OPTION MODE
SET DRAWING FILE TO TOP
SET SHEET FILE TO TOP
SET EO FILE TO TOP
B
WRITE FILE IN USE MESSAGE
SRCH$$ CLOSE DRAW FILE
SRCH$$ CLOSE EO FILE
SRCH$$ CLOSE SHEET FILE
SET IPAS TO BLANKS
ATCH$$ ATTACH TO MAIL UFD
RESU$$ RESUME MAIL LOG
EXIT

Figure 5.3-3

```
A1
B1   $INSERT COMMON; $INSERT SYSCOM > KEYS.F; INTEGER*2
C1   CLEAR
D1   COMI$$ ('TTY', 6,12,IC)
E1   IDENT
F1   BREAK$ (.TRUE.)
G1   SRCH$$(K$RDWR+K$NDAM,'DRAW',6,2,1,IC)
H1   (IC.NE.0)
J1
K1
A2
B2   (IC.NE.0)
C2
D2
E2
F2
G2
H2   SRCH$$(K$RDWR+K$NDAM,'EO',6,14,1,IC)
J2   (IC.NE.0)
K2
A3
B3   WRITE(1,3)  See section 3.1.2.2 page 9
C3   BREAK$(.FALSE.)
D3   READ(1,4)IDES
E3   REWIND 6
```

Figure 5.3-3

Page (2 of 6)

```
F3   REWIND 12
G3   REWIND 18
H3
J3   SRCH$$(K$RDWR+K$NDAM,'SHEET',6,7,1,IC)
K3
A4
B4   WRITE(1,1002) ('DRAW FILE IS IN USE - PLEASE TRY LATER')
C4   SRCH$$(K$CLOS,'DRAW',6,0,0,0)
D4   SRCH$$(K$CLOS,'EO',6,0,0,0)
E4   SRCH$$(K$CLOS,'SHEET',6,0,0,0)
F4   IPAS(1)=' '; IPAS(2)=' ';IPAS(3)=' '
G4   ATCH$$('F_MAIL',6,K$ALLD,IPAS,K$IMFD+K$SETH,IC)
H4   RESU$$('BFILE',5)
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.3-3

Page (3 of 6)

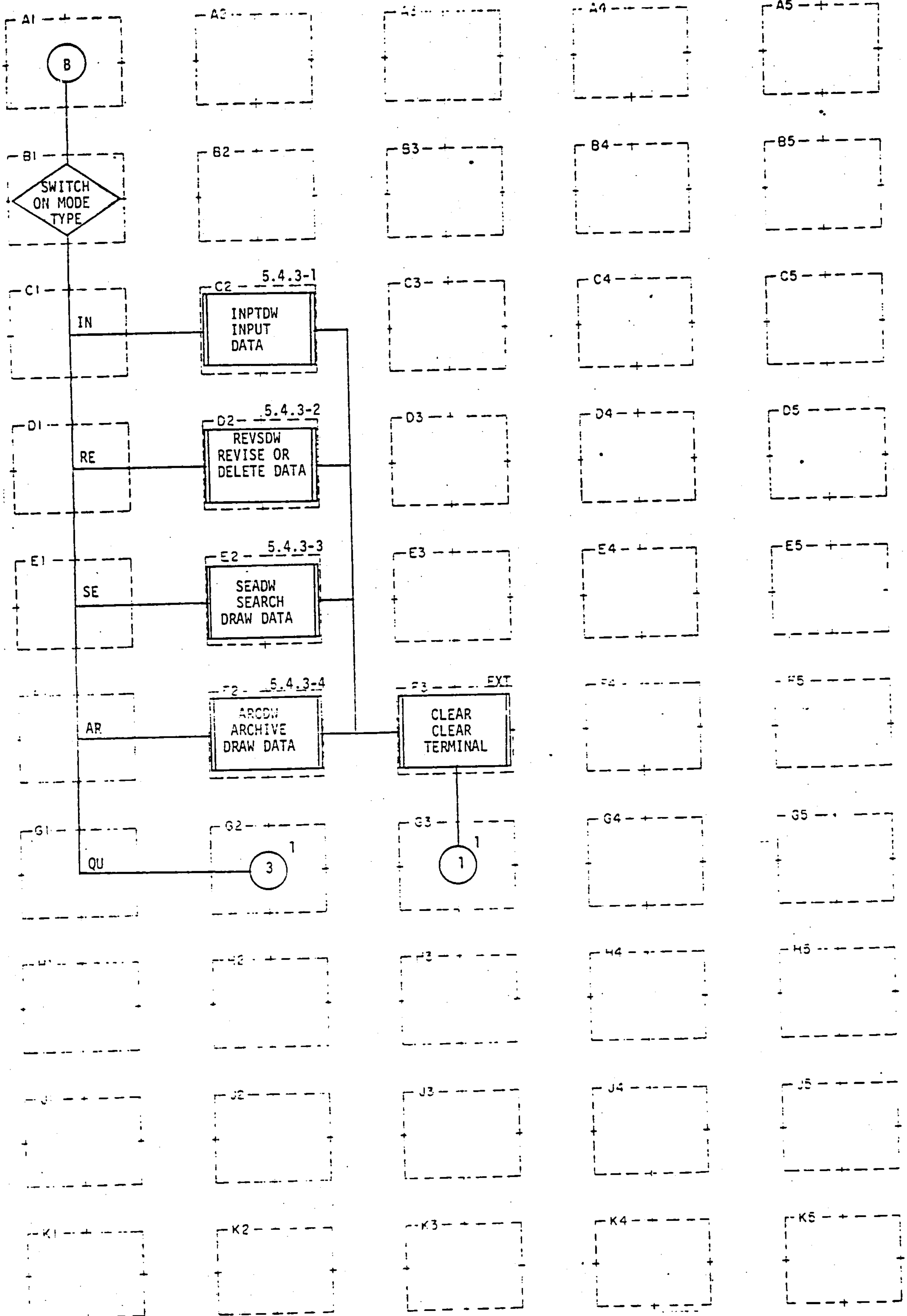


Figure 5.3-3

Page (4 of 6)

A1	
B1	see C1 thru G1
C1	(IDES.EQ.'IN')
D1	(IDES.EQ.'SE')
E1	(IDES.EQ.'RE')
F1	(IDES.EQ.'AR')
G1	(IDES.EQ.'QU')
H1	
J1	
K1	
A2	
B2	
C2	INPTDW
D2	REVSDW
E2	SEADW
F2	ARCDW
G2	
H2	
J2	
K2	
A3	
B3	
C3	
D3	
E3	

Figure 5.3-3

Page (5 of 6)

F3 CLEAR

G3

H3

J3

K3

A4

B4

C4

D4

E4

F4

G4

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.3-3

5.4 FLOWCHART FIGURES FOR SUBROUTINES

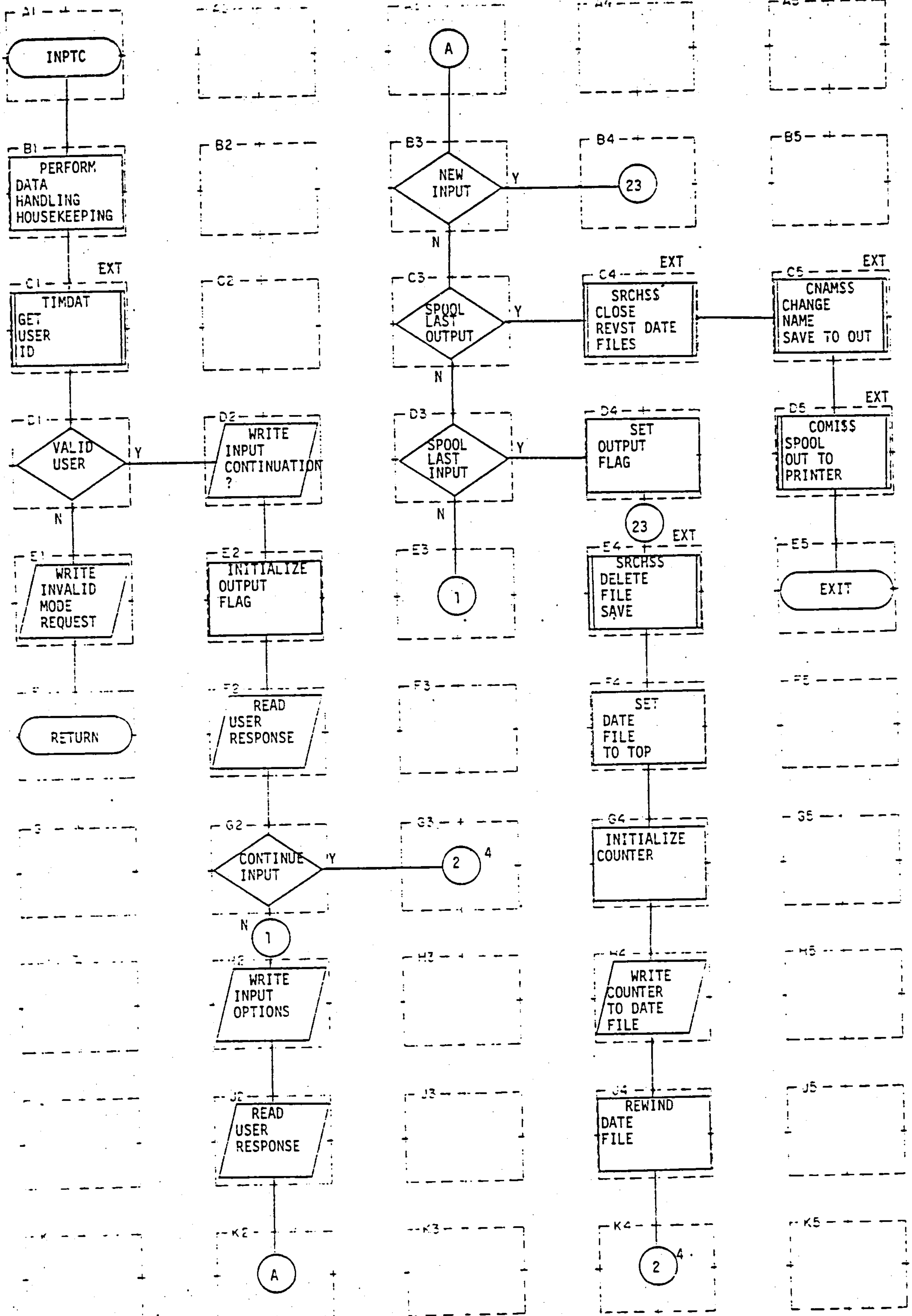


Figure 5.4.1-1

Page (1 of 21)

```
A1

B1    $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*4; *2

C1    TIMDAT(A,15)

D1    (A(13).EQ.'JW'.OR.A(13).EQ.'NH'.OR.A(13).EQ.'RJ'.OR.A(13).EQ.
      'DK'.OR.A(13).EQ.'GM')

E1    WRITE (1,4) ('SORRY, YOU ARE NOT VALIDATED TO USE THIS MODE.')

F1

G1

H1

J1

K1

A2

B2

C2

D2    WRITE (1,11) ('IS THIS A CONTINUATION OF INPUT (YES OR NO)')

E2    JOUT = 0

F2    READ (1,10) IOPT

G2    (IOPT.EQ.'YE'); (IOPT.NE.'NO')

H2    WRITE (1,14)  SEE SECTION 4.1.1 page 12

J2    READ (1,10) IOPT

K2

A3

B3    (IOPT.EQ.'NE')

C3    (IOPT.EQ.'LA')

D3    (IOPT.EQ.'DA')

E3
```

Figure 5.4.1-1 Page (2 of 21)

F3

G3

H3

J3

K3

A4

B4

C4 SRCH$$(K$CLOS,'REVS',6,0,0,0); SRCH$$(K$CLOS,'DATE',6,0,0,0)

D4 JOUT = 1

E4 SRCH$$(K$DELE,'SAVE',6,0,0,0)

F4 REWIND 10

G4 COUNTR = 0

H4 WRITE (10,16) COUNTR

J4 REWIND 10

K4

A5

B5

C5

D5 COMIS$('SOUT',4,12,IC)

E5

F5

G5

H5

J5

K5

Figure 5.4.1-1 Page (3 of 21)

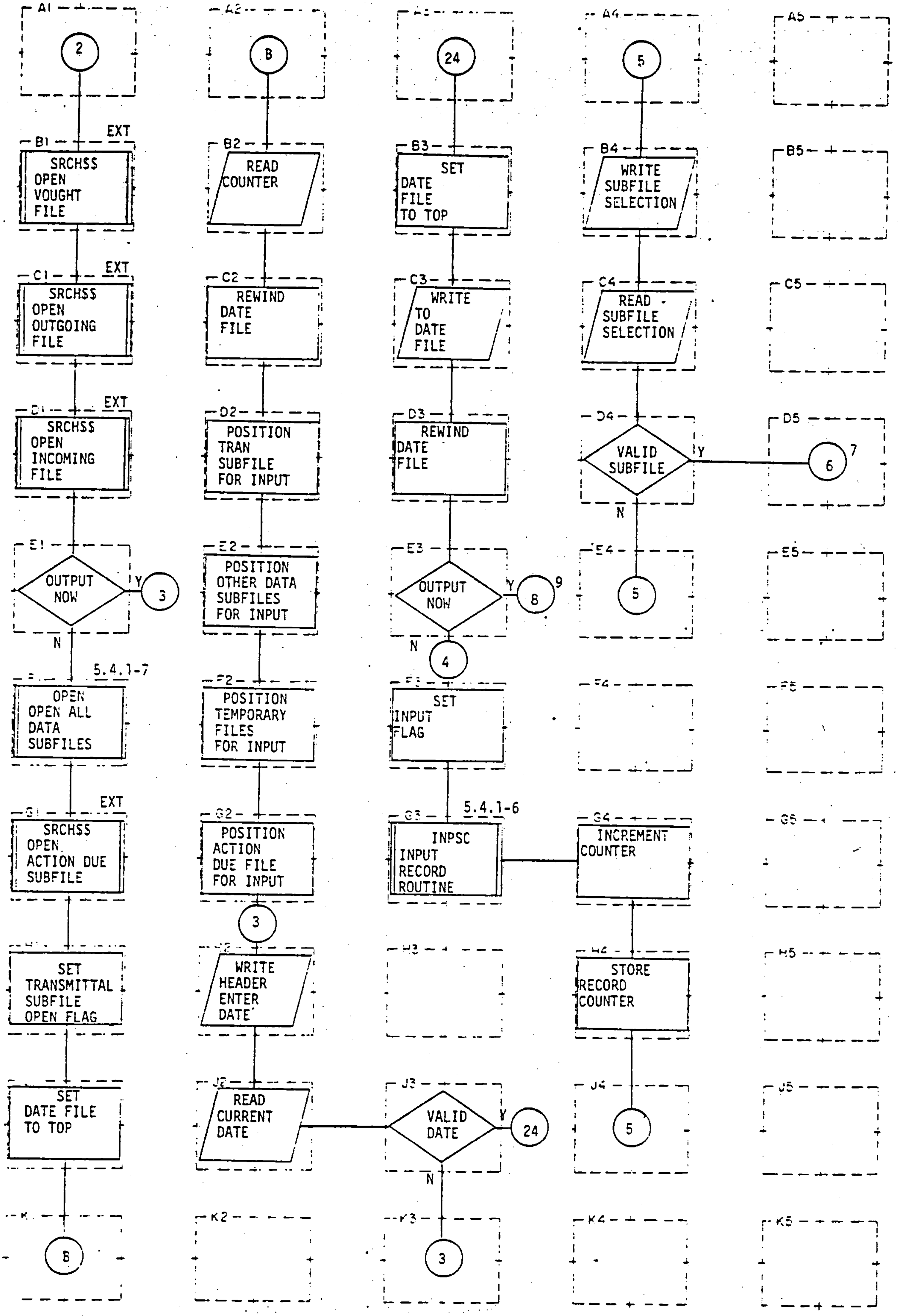

A1
2
A2
B
A3
24
A4
5
A5
B1
EXT
SRCHSS OPEN VOUGHT FILE
B2
READ COUNTER
B3
SET DATE FILE TO TOP
B4
WRITE SUBFILE SELECTION
B5
C1
EXT
SRCHSS OPEN OUTGOING FILE
C2
REWIND DATE FILE
C3
WRITE TO DATE FILE
C4
READ SUBFILE SELECTION
C5
D1
EXT
SRCHSS OPEN INCOMING FILE
D2
POSITION TRAN SUBFILE FOR INPUT
D3
REWIND DATE FILE
D4
VALID SUBFILE
Y
N
D5
6
7
E1
OUTPUT NOW
Y
3
N
E2
POSITION OTHER DATA SUBFILES FOR INPUT
E3
OUTPUT NOW
Y
8
9
N
4
E4
5
E5
5.4.1-7
F1
OPEN OPEN ALL DATA SUBFILES
F2
POSITION TEMPORARY FILES FOR INPUT
F3
SET INPUT FLAG
F4
F5
G1
EXT
SRCHSS OPEN ACTION DUE SUBFILE
G2
POSITION ACTION DUE FILE FOR INPUT
3
G3
5.4.1-6
INPSC INPUT RECORD ROUTINE
G4
INCREMENT COUNTER
G5
H1
SET TRANSMITTAL SUBFILE OPEN FLAG
H2
WRITE HEADER ENTER DATE
H3
H4
STORE RECORD COUNTER
H5
J1
SET DATE FILE TO TOP
J2
READ CURRENT DATE
J3
VALID DATE
Y
24
N
J4
5
J5
K1
B
K2
K3
3
K4
K5

Figure 5.4.1-1

```
A1

B1    SRCH$$(K$RDWR+K$NDAM,'VC',3,14,1,IC)

C1    SRCH$$(K$RDWR+K$NDAM,'OM',3,13,1,IC)

D1    SRCH$$(K$RDWR+K$NDAM,'IM',3,12,1,IC)

E1    (JOUT.EQ.1)

F1    OPEN

G1    SRCH$$(K$RDWR+K$NDAM,'ACTD',6,5,1,IC)

H1    ITRSP = 1

J1    REWIND 10

K1

A2

B2    READ (10,16) COUNTR

C2    REWIND 10

D2    READ (6, END = 2000)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,
      CONT,ADD,TWX,FSC,NRE,DDT

E2    DO 2010 IN = 11,15; READ (IN,END = 2010)MS,ATHR,DD,TO,DLN,SUB,PTIT,
      ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,FSC,NRE

F2    DO 2005 IN = 16,18; READ (IN,END = 2005)MS,ATHR,DD,TO,DLN,SUB,PTIT,
      ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,FSC,NRE

G2    READ (9,END = 2060)ATHR,DLN,PTIT,IDD,COUNT,ADD,FSC,NRE

H2    WRITE (1,20); WRITE (1,30)('FIRST - PLEASE ENTER THE CURRENT INPUT DATE')

J2    READ (1,40,ERR = 1001) IM,ID,IY

K2

A3

B3    REWIND 10

C3    WRITE (10,17) IM,ID,IY,COUNTR

D3    REWIND 10

E3    (JOUT.EQ.1)
```

Figure 5.4.1-1

Page (5 of 21)

F3 R = 0

G3 INPSC

H3

J3 (IM.GT.12.OR.ID.GT.31); (IY.EQ.0.OR.IM.EQ.0.OR.ID.EQ.0)

K3

A4

B4 WRITE (1,1003)

C4 READ (1,1004,ERR = 1002) IFILE

D4 (IFILE.LE.0.OR.IFILE.GT.6)

E4

F4

G4 COUNTR = COUNTR + 1

H4 COUNT = COUNTR

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.1-1 Page (6 of 21)

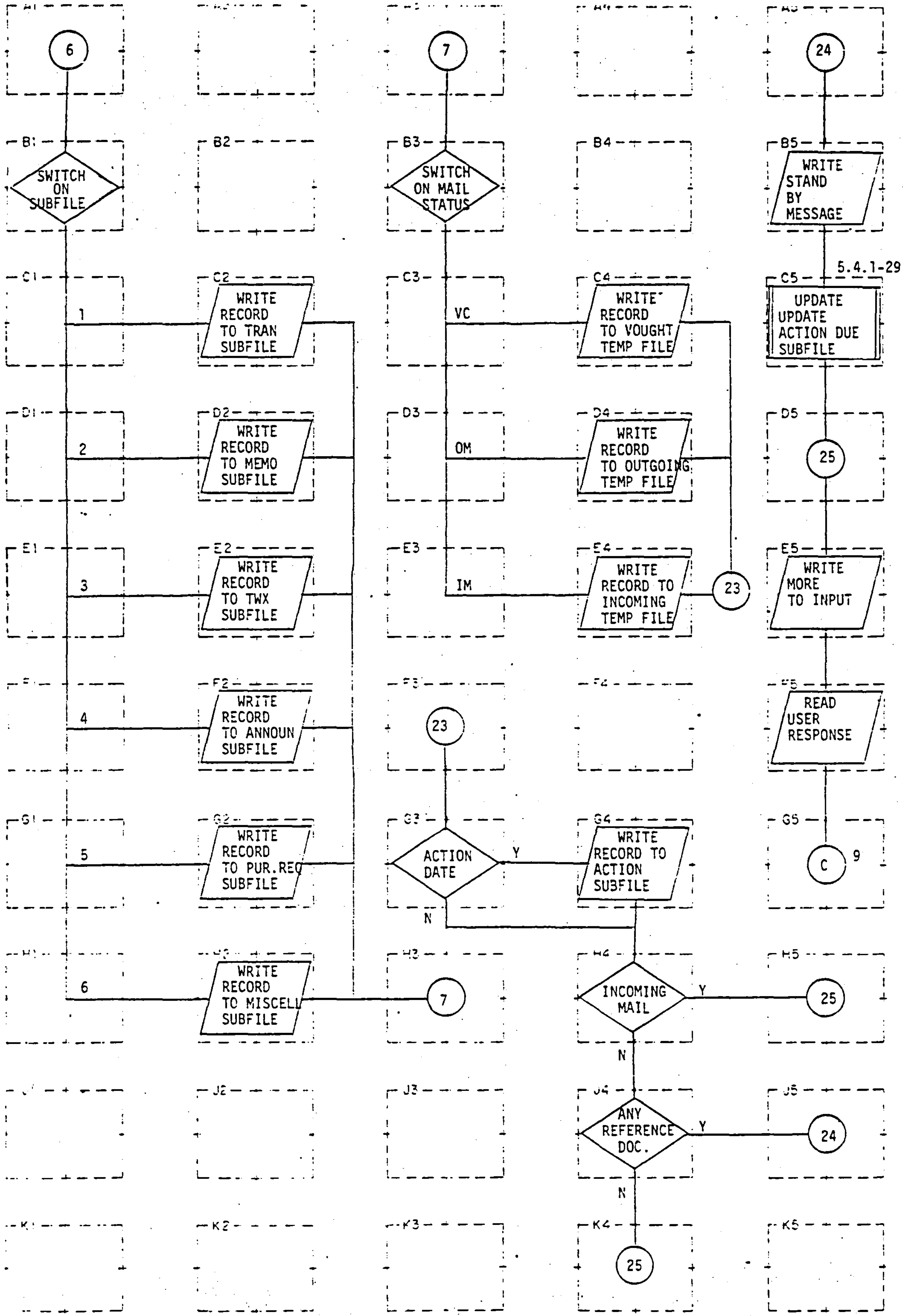


Figure 5.4.1-1

Page (7 of 21)

A1

B1 (IFILE.EQ.1)

C1 (IFILE.EQ.2)

D1 (IFILE.EQ.3)

E1 (IFILE.EQ.4)

F1 (IFILE.EQ.5)

G1 (IFILE.EQ.6)

H1

J1

K1

A2

B2

C2 WRITE (6) MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,ADD,TWX
FSC,NRE,DDT

D2 WRITE (11) MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,
FSC,NRE

E2 WRITE (12) MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,
FSC,NRE

F2 WRITE (13) MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,
FSC,NRE

G2 WRITE (14) MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,
FSC,NRE

H2 WRITE (15) MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,
FSC,NRE

J2

K2

A3

B3

C3 (MS.EQ.'VC')

D3 (MS.EQ.'OM')

E3 (MS.EQ.'IM')

Figure 5.4.1-1

F3

G3 (ADD(1).NE.0)

H3

J3

K3

A4

B4

C4 WRITE (18) MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,
FSC,NRE,DDT

D4 WRITE (17) MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,
FSC,NRE,DDT

E4 WRITE (16) MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,
FSC,NRE,DDT

F4

G4 WRITE (9) ATHR,DLN,PTIT,IDD,COUNT,ADD,FSC,NRE

H4 (MS.EQ.'IM')

J4 DO 3000I = 1,6; DO 3001J = 1,5; (TWX(I,J).NE.' ')

K4

A5

B5 WRITE (1,3020)

C5 UPDATE

D5

E5 WRITE (1,70)

F5 READ (1,10)IOPT

G5

H5

J5

K5

Figure 5.4.1-1

Page (9 of 21)

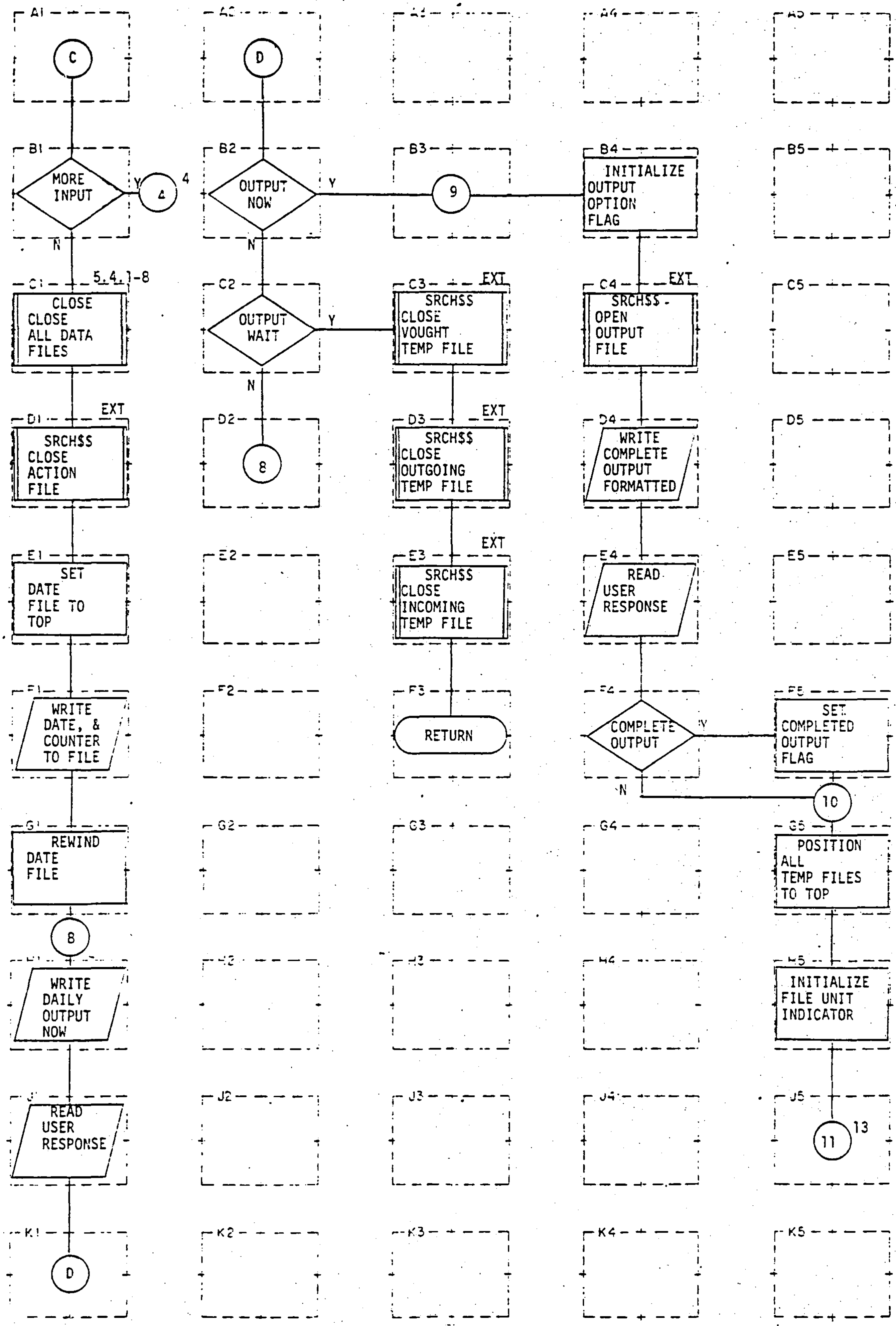


Figure 5.4.1-1

Page (10 of 21)

```
A1
B1    (IOPT.EQ.'YE'); (IOPT.NE.'NO')
C1    CLOSE
D1    SRCH$$(K$CLOS,'ACTD',6,0,0,0)
E1    REWIND 10
F1    WRITE (10,17) IM,ID,IY,COUNTR
G1    REWIND 10
H1    WRITE (1,112)
J1    READ (1,10)IOPT
K1
A2
B2    (IOPT.EQ.'NO')
C2    (IOPT.NE.'WA')
D2
E2
F2
G2
H2
J2
K2
A3
B3
C3    SRCH$$(K$CLOS,'VC',3,0,0,0)
D3    SRCH$$(K$CLOS,'OM',3,0,0,0)
E3    SRCH$$(K$CLOS,'IM',3,0,0,0)
```

Figure 5.4.1-1

```
F3
G3
H3
J3
K3
A4
B4    IHARD = 0
C4    SRCH$$(K$RDWR+K$NSAM,'OUT',6,3,0,0)
D4    WRITE (1,50)
E4    READ (1,10)IOPT
F4    (IOPT.EQ.'NO'); (IOPT.NE.'YE')
G4
H4
J4
K4
A5
B5
C5
D5
E5
F5    IHARD = 1
G5    REWIND 18; REWIND 17; REWIND 16
H5    IN = 15
J5
K5
```

Figure 5.4.1-1

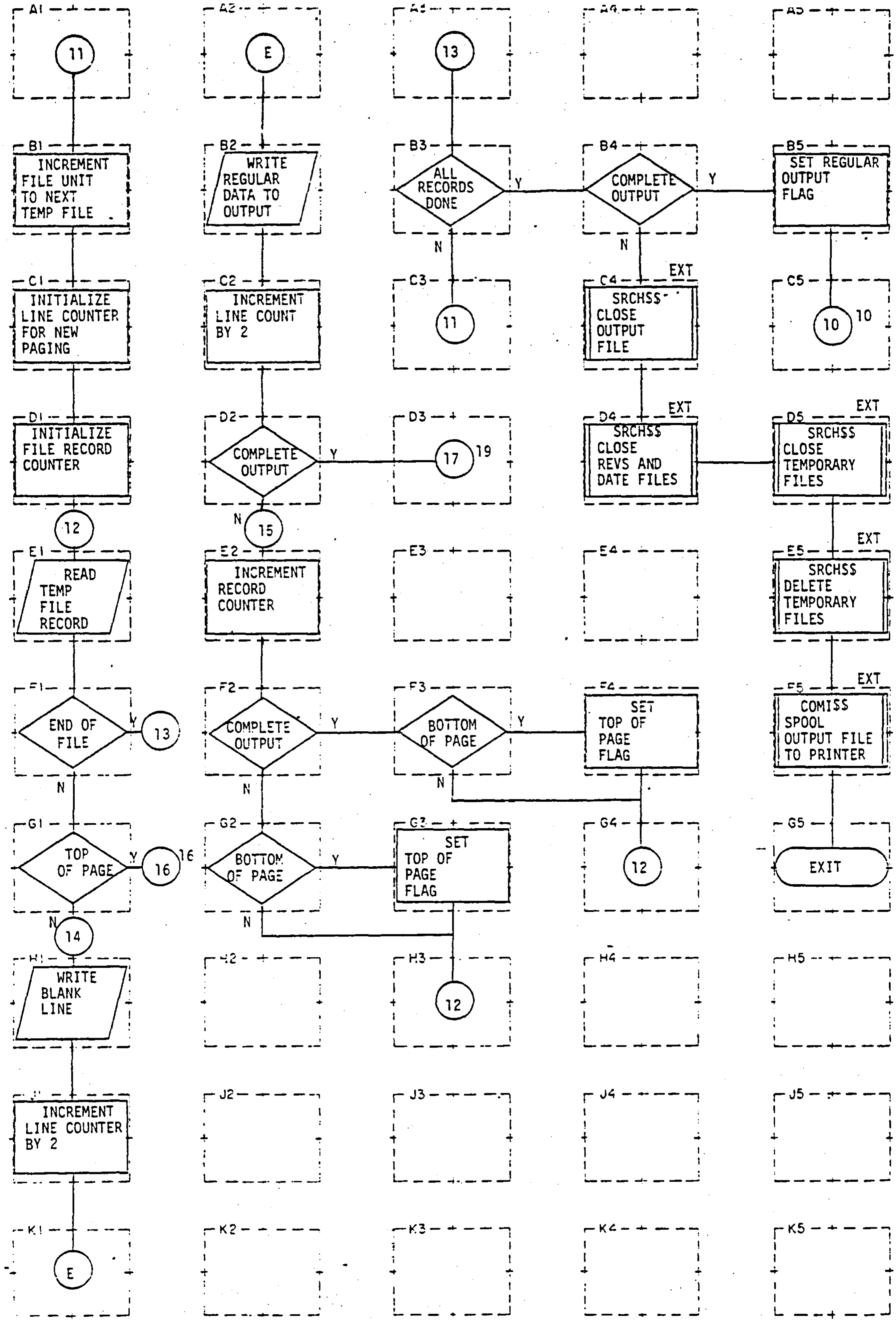


Figure 5.4.1-1

Page (13 of 21)

A1

B1 IN = IN + 1

C1 IPAGE = 0

D1 ICOUNT = 1

E1 READ (IN,END = 1090)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,
CONT,ADD,TWX,FSC,NRE,DDT

F1 SEE E1

G1 (IPAGE.NE.0)

H1 WRITE (7,140)

J1 IPAGE = IPAGE + 2

K1

A2

B2 WRITE (7,150)ICOUNT,PTIT,DD,FSC,ATHR,TO,ROUT,DLN

C2 IPAGE = IPAGE + 2

D2 (IHARD.EQ.0)

E2 ICOUNT = ICOUNT + 1

F2 (IHARD.NE.0)

G2 (IPAGE.GE.47)

H2

J2

K2 -

A3

B3 (IN.NE.18)

C3

D3

E3

Figure 5.4.1-1 Page (14 of 21)

F3	(IPAGE.GE.40)
G3	IPAGE = 0
H3	
J3	
K3	
A4	
B4	(IHARD.EQ.0)
C4	SRCH$$(K$CLOS,'OUT',6,0,0,0)
D4	SRCH$$(K$CLOS,'DATE',6,0,0,0); SRCH$$(K$CLOS,'REVS',6,0,0,0)
E4	
F4	IPAGE = 0
G4	
H4	
J4	
K4	
A5	
B5	IHARD = 0
C5	
D5	SRCH$$(K$CLOS,'VC',3,0,0,0); SRCH$$(K$CLOS,'OM',3,0,0,0); SRCH$$(K$CLOS,'IM',3,0,0,0)
E5	SRCH$$(K$DELE,'VC',3,0,0,0); SRCH$$(K$DELE,'OM',3,0,0,0); SRCH$$(K$DELE,'IM',3,0,0,0)
F5	COMI$$('OUTS',4,12,IC)
G5	
H5	
J5	
K5	

Figure 5.4.1-1

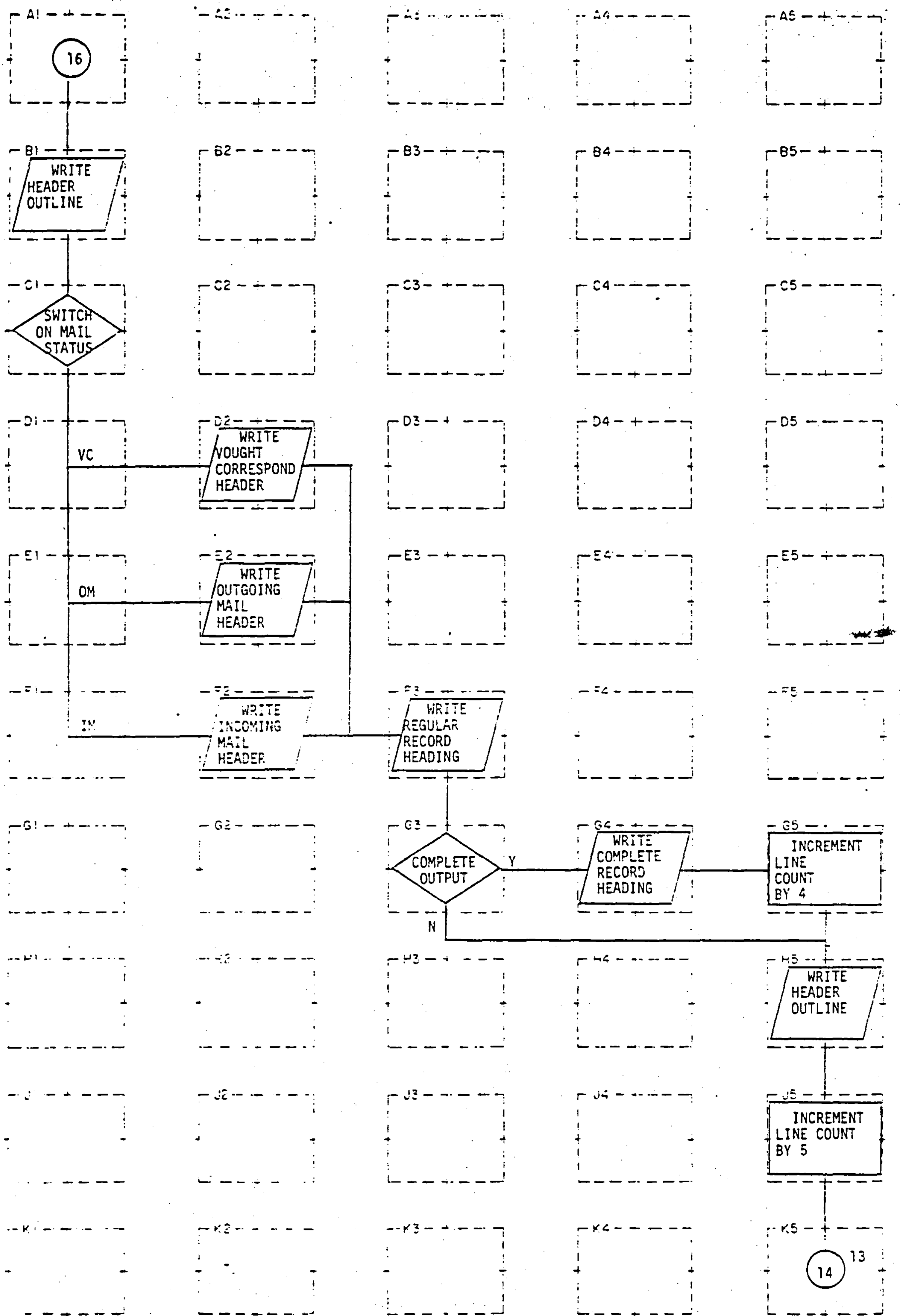


Figure 5.4.1-1

Page (16 of 21)

A1

B1 WRITE (7,80)

C1

D1 (IN.EQ.18)

E1 (IN.EQ.17)

F1 (IN.EQ.16)

G1

H1

J1

K1

A2

B2

C2

D2 WRITE (7,90) IM,ID,IY

E2 WRITE (7,100) IM,ID,IY

F2 WRITE (7,110) IM,ID,IY

G2

H2

J2

K2

A3

B3

C3

D3

E3

Figure 5.4.1-1

Page (17 of 21)

F3 WRITE (7,120)

G3 (IHARD.EQ.0)

H3

J3

K3

A4

B4

C4

D4

E4

F4

G4 WRITE (7,130)

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5 IPAGE = IPAGE + 4

H5 WRITE (7,85)

J5 IPAGE = IPAGE + 5

K5

Figure 5.4.1-1

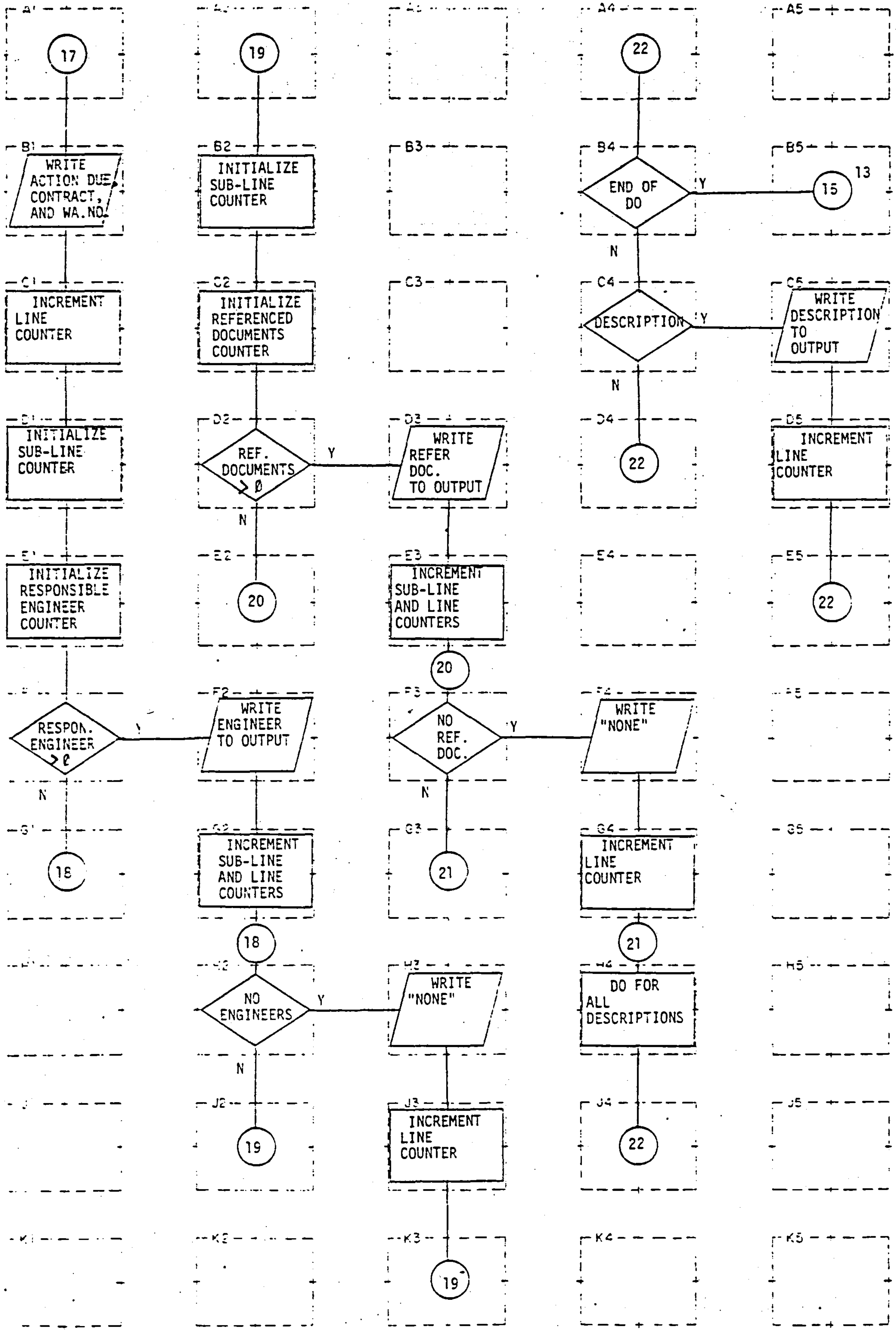


Figure 5.4.1-1

Page (19 of 21)

```
A1
B1  WRITE (7,160) ADD,CWA,CONT
C1  IPAGE = IPAGE + 1
D1  ILINE = 0
E1  KRE = 0
F1  DO 1301L = 1,3; (NRE(1,L).NE.'  ') KRE = KRE + 1; (KRE.EQ.0)
G1
H1
J1
K1
A2
B2  ILINE = 0
C2  KTW = 0
D2  DO 1200M = 1,6; DO 1202N = 1,5; (TWX(M,N).NE'  ') KTW =KTW + 1; (KTW.EQ.0)
E2
F2  WRITE (7,170) (NRE(1,L), L = 1,3)
G2  ILINE = ILINE + 1; IPAGE = IPAGE + 1
H2  (ILINE.NE.0)
J2
K2
A3
B3
C3
D3  WRITE (7,1205) (TWX(M,N),N = 1,5)
E3  ILINE = ILINE +1; IPAGE = IPAGE + 1
```

Figure 5.4.1-1 Page (20 of 21)

```
F3   (ILINE.NE.0)

G3

H3   WRITE (7,175)

J3   IPAGE = IPAGE + 1

K3

A4

B4   Performed by H4

C4   DO1401J=1,21; (DDT(I,J).NE.'  ') KDD=KDD+1; (KDD.EQ.0)

D4

E4

F4   WRITE (7,1210)

G4   IPAGE = IPAGE + 1

H4   DO 1400 I = 1,30

J4

K4

A5

B5

C5   WRITE (7,180) (DDT(I,J),J = 1,21)

D5   IPAGE = IPAGE + 1

E5

F5

G5

H5

J5

K5
```

Figure 5.4.1-1 Page (21 of 21)

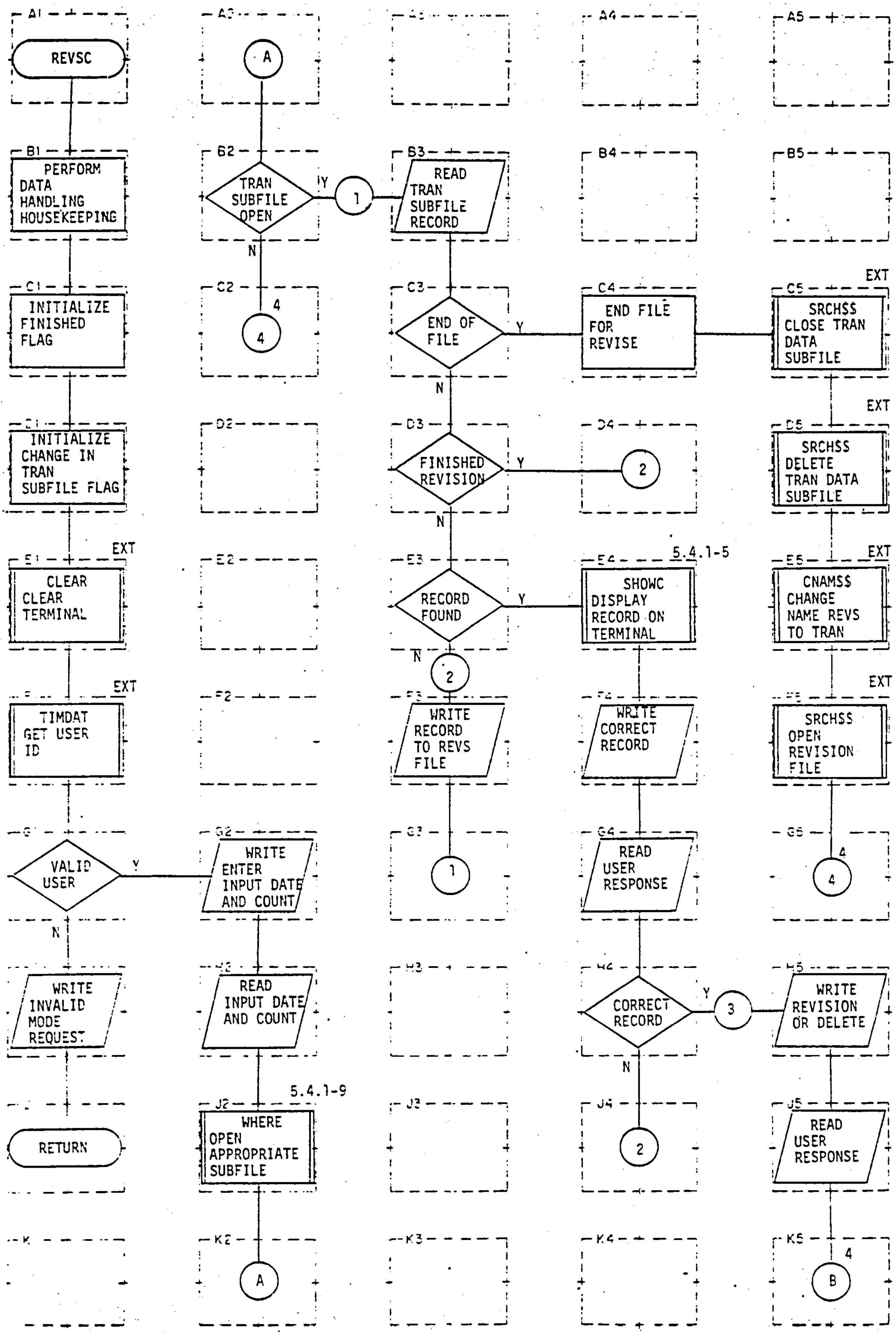


Figure 5.4.1-2

Page (1 of 12)

```
A1

B1

C1    $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*4; *2

D1    FINISH=0

E1    IA=0

F1    CLEAR

G1    TIMDAT(A,15)

H1    (A(13).EQ.'JW'.OR.A(13).EQ.'NH'.OR.A(13).EQ.'RJ'.OR.A(13).EQ.'DK')

J1    WRITE(1,4) ('SORRY, YOU ARE NOT VALIDATED TO USE THIS MODE')

K1

A2

B2

C2    (ITRSP.EQ.0)

D2

E2

F2

G2

H2    WRITE(1,1)

J2    READ(1,2,ERR=3) D,ICOUN

K2    WHERE

A3

B3

C3    READ(6,END=200)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,
      CWA,CONT,ADD,TWX,FSC,NRE,DDT

D3    SEE B3

E3    (FINISH.EQ.1)
      (ICOUN.NE.COUNT); DO110I=1,3; (IDD(I).NE.D(I))
```

Figure 5.4.1-2 Page (2 of 12)

```
F3   WRITE(8)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,
     FSC,NRE,DDT

G3

H3

J3

K3

A4

B4

C4   END FILE 8

D4

E4   SHOWC

F4   WRITE(1,1700)

G4   READ(1,50)IOPT

H4   (IOPT.EQ.'NO'); (IOPT.NE.'YE')

J4

K4

A5

B5

C5   SRCH$$(K$CLOS,'TRAN',6,0,0,0)

D5   SRCH$$(K$DELE,'TRAN',6,0,0,0)

E5   CNAM$$('REVS',6,'TRAN',6,IC)

F5   SRCH$$(K$RDWR+K$NDAM,'REVS',6,4,1,IC)

G5

H5   WRITE(1,2100)

J5   READ(1,50)IOPT

K5
```

Figure 5.4.1-2 Page (3 of 12)

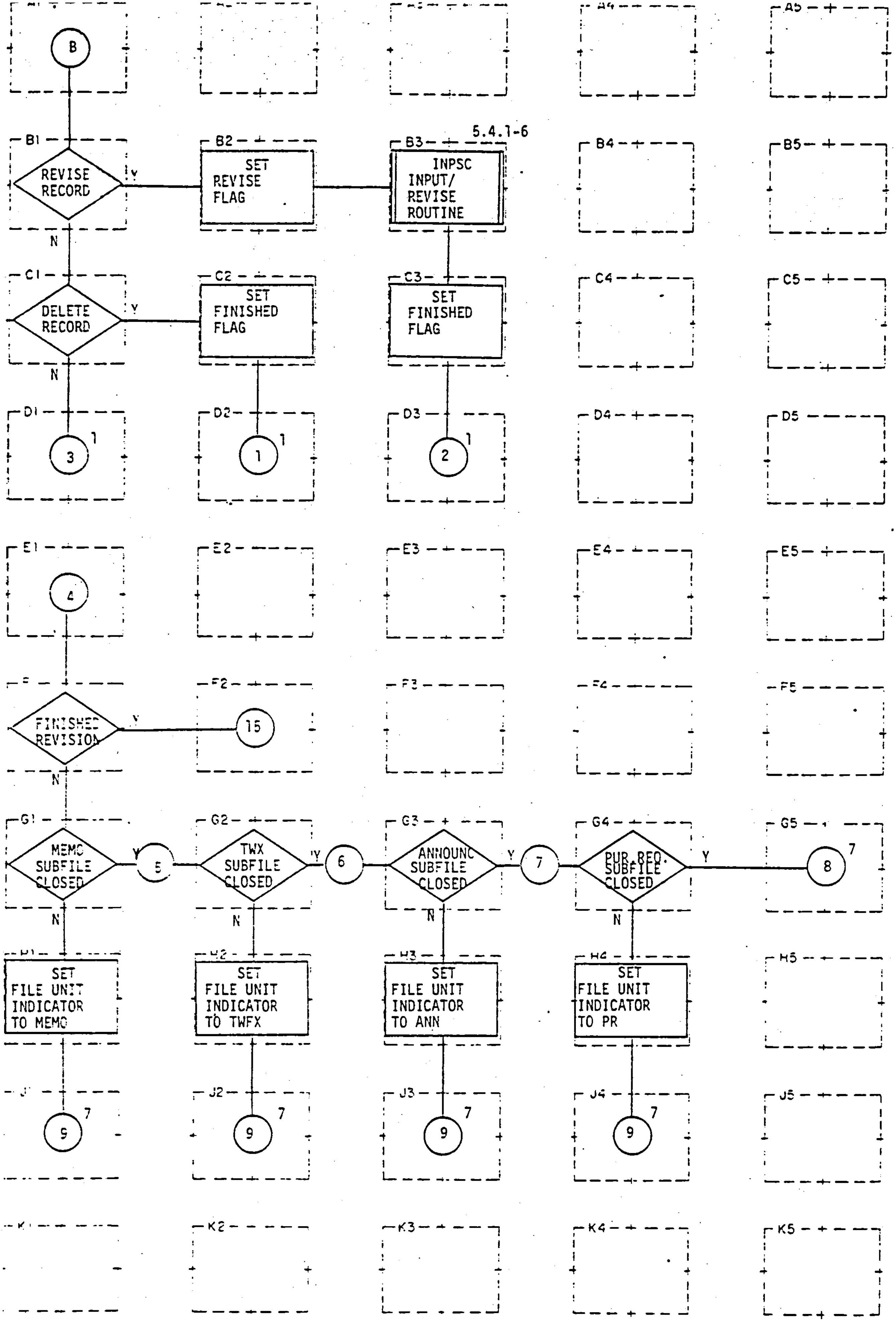


Figure 5.4.1-2

Page (4 of 12)

A1

B1 (IOPT.EQ.'RE')

C1 (IOPT.NE.'DE')

D1

E1

F1 (FINISH.EQ.1)

G1 (IMELE.EQ.0)

H1 IN=11

J1

K1

A2

B2 R=1

C2 FINISH=1

D2

E2

F2

G2 (ITWFX.EQ.0)

H2 IN=12

J2

K2

A3

B3 INPSC

C3 FINISH=1

D3

E3

Figure 5.4.1-2 Page (5 of 12)

F3

G3 (IANN.EQ.0)

H3 IN=13

J3

K3

A4

B4

C4

D4

E4

F4

G4 (IPR.EQ.0)

H4 IN=14

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.1-2 Page (6 of 12)

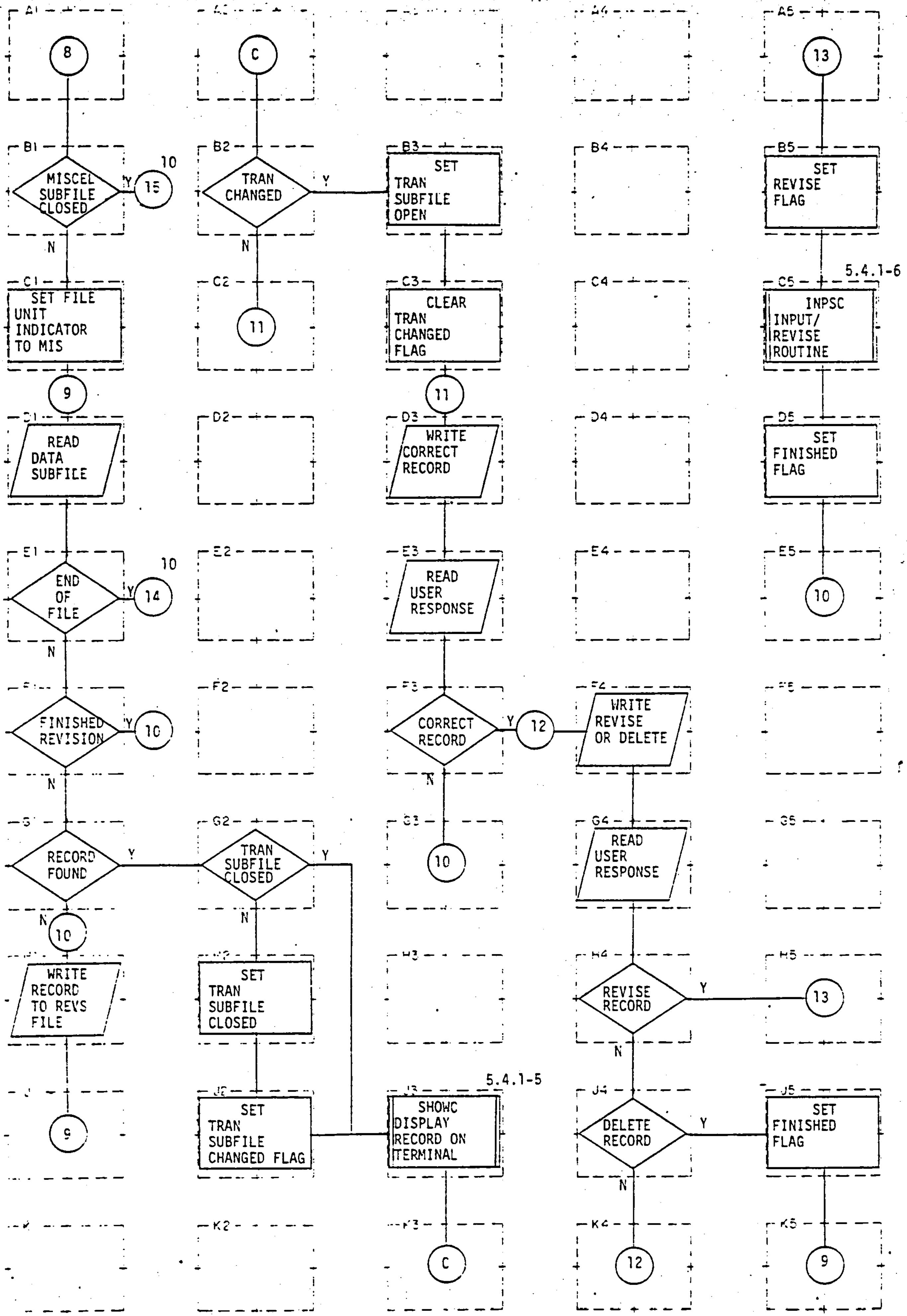


Figure 5.4.1-2

Page (7 of 12)

A1

B1 (IMIS.EQ.0)

C1 IN=15

D1 READ(IN,END=201)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,
CONT,ADD,TWX,FSC,NRE

E1 SEE D1

F1 (FINISH.EQ.1)

G1 (COUNT.NE.ICOUNT); DO111I=1,3; (IDD(I).NE.D(I))

H1 WRITE(8)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,ADD,
TWX,FSC,NRE

J1

K1

A2

B2 (IA.EQ.0)

C2

D2

E2

F2

G2 (ITRSP.EQ.0)

H2 ITRSP=0

J2 IA=0

K2

A3

B3 ITRSP=1

C3 IA=0

D3 WRITE(1,1700)

E3 READ(1,50)IOPT

Figure 5.4.1-2

F3 (IOPT.EQ.'NO'); (IOPT.NE.'YE')

G3

H3

J3 SHOWC

K3

A4

B4

C4

D4

E4

F4 WRITE(1,2100)

G4 READ(1,50)IOPT

H4 (IOPT.EQ.'RE')

J4 (IOPT.NE.'DE')

K4

A5

B5 R=1

C5 INPSC

D5 FINISH=1

E5

F5

G5

H5

J5 FINISH=1

K5

Figure 5.4.1-2

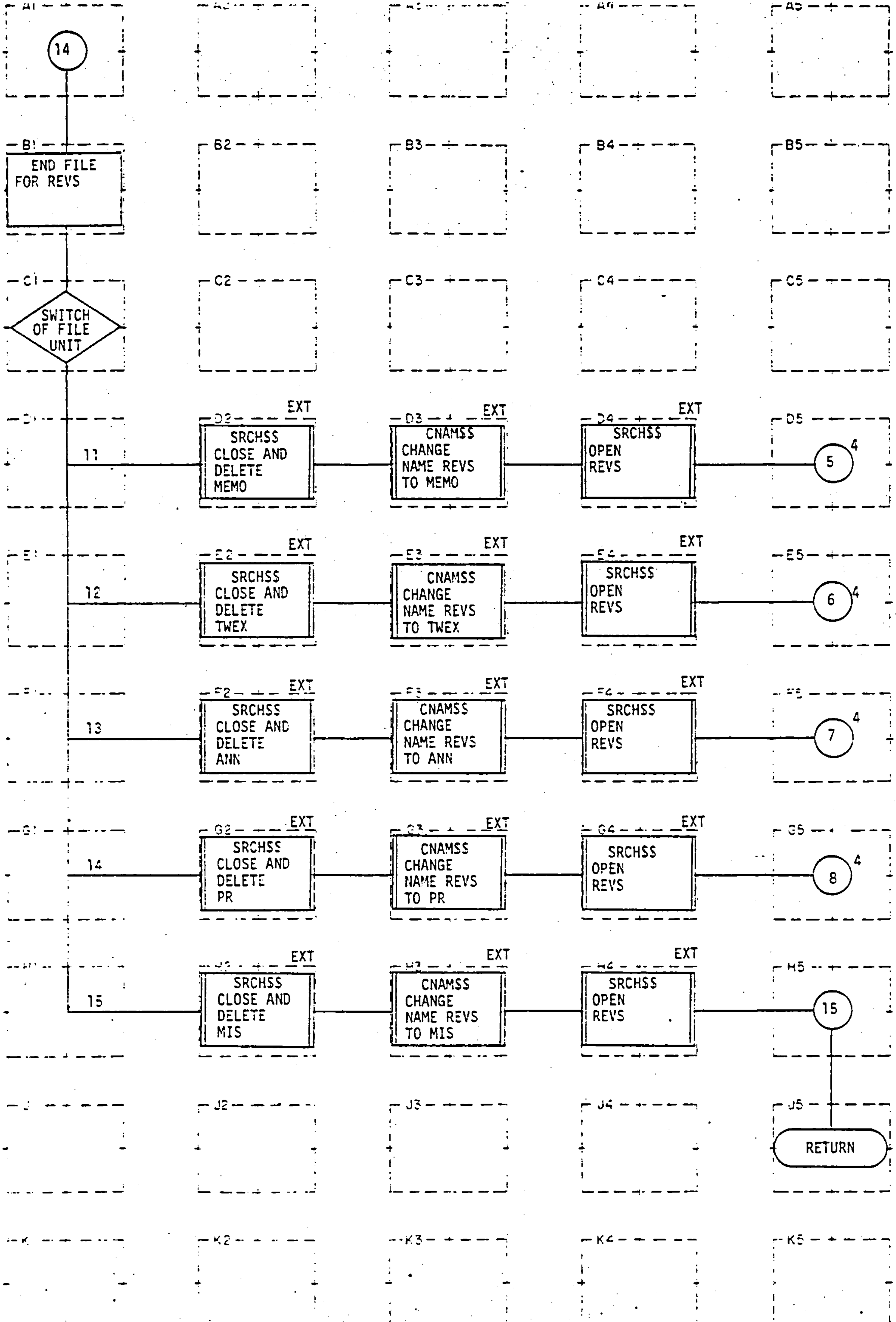


Figure 5.4.1-2

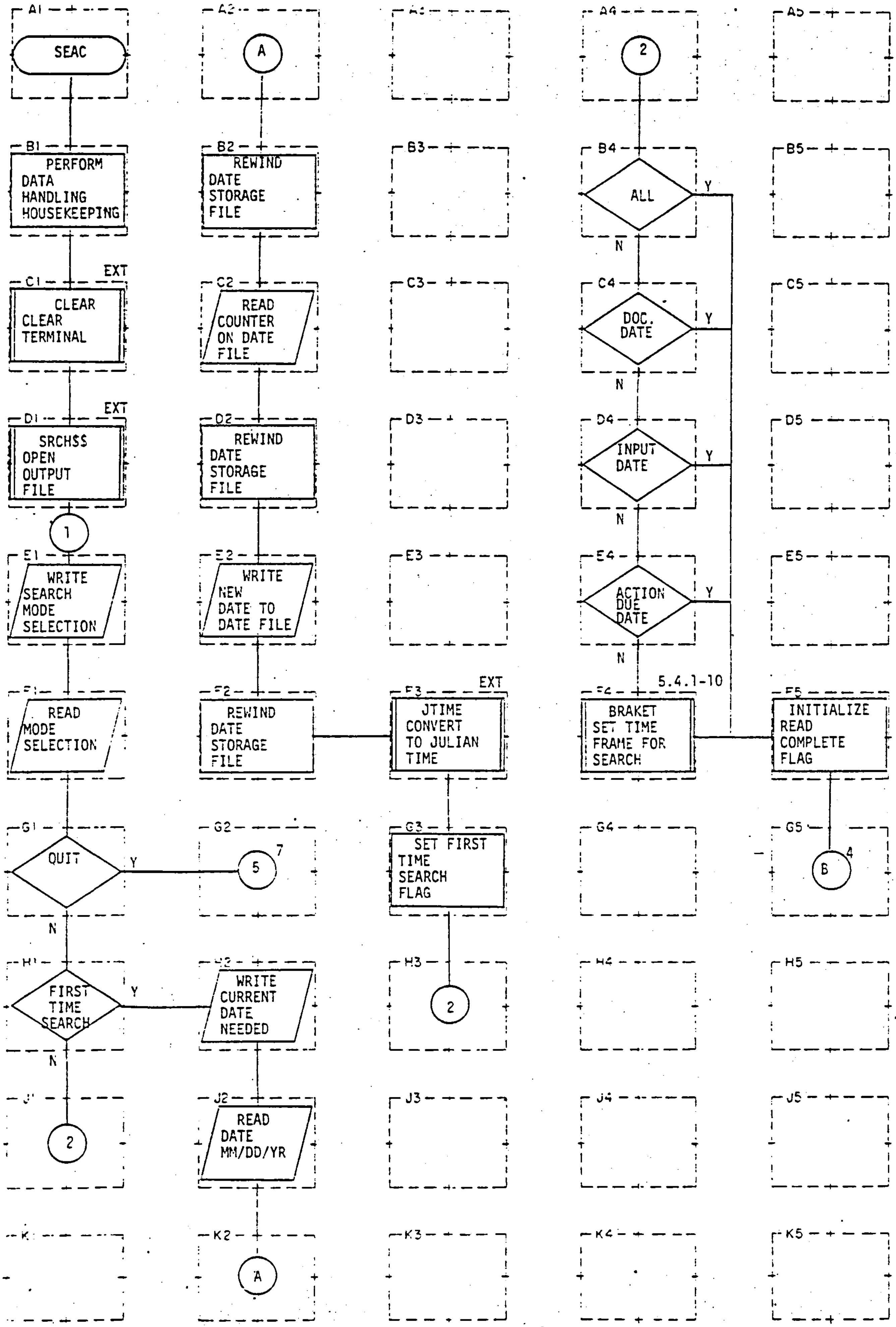
Page (10 of 12)

```
A1
B1  ENDFILE 8
C1
D1  (IN.EQ.11)
E1  (IN.EQ.12)
F1  (IN.EQ.13)
G1  (IN.EQ.14)
H1  (IN.EQ.15)
J1
K1
A2
B2
C2
D2  SRCH$$(K$CLOS,'MEMO',6,0,0,0); SRCH$$(K$DELE,'MEMO',6,0,0,0)
E2  SRCH$$(KSCLOS,'TWFX',6,0,0,0); SRCH$$(K$DELE,'TWFX',6,0,0,0)
F2  SRCH$$(K$CLOS,'ANN',6,0,0,0); SRCH$$(KSDELE,'ANN',6,0,0,0)
G2  SRCH$$(K$CLOS,'PR',6,0,0,0); SRCH$$(K$DELE,'PR',6,0,0,0)
H2  SRCH$$(K$CLOS,'MIS',6,0,0,0); SRCH$$(K$DELE,'MIS',6,0,0,0)
J2
K2
A3
B3
C3
D3  CNAM$$('REVS',6,'MEMO',6,IC)
E3  CNAM$$('REVS',6,'TWFX',6,IC)
```

Figure 5.4.1-2 Page (11 of 12)

```
F3   CNAM$$('REVS',6,'ANN',6,IC)
G3   CNAM$$('REVS',6,'PR',6,IC)
H3   CNAM$$('REVS',6,'MIS',6,IC)
J3
K3
A4
B4
C4
D4   SRCH$$(K$RDWR+K$NDAM,'REVS',6,4,1,IC)
E4   SRCH$$(K$RDWR+K$NDAM,'REVS',6,4,1,IC)
F4   SRCH$$(K$RDWR+K$NDAM,'REVS',6,4,1,IC)
G4   SRCH$$(K$RDWR+K$NDAM,'REVS',6,4,1,IC)
H4   SRCH$$(K$RDWR+K$NDAM,'REVS',6,4,1,IC)
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.1-2 Page (12 of 12)



A1
SEAC
B1
PERFORM DATA HANDLING HOUSEKEEPING
C1
EXT
CLEAR
CLEAR TERMINAL
D1
EXT
SRCH$S
OPEN OUTPUT FILE
1
E1
WRITE SEARCH MODE SELECTION
F1
READ MODE SELECTION
G1
QUIT
Y
N
H1
FIRST TIME SEARCH
Y
N
J1
2
K1
A2
A
B2
REWIND DATE STORAGE FILE
C2
READ COUNTER ON DATE FILE
D2
REWIND DATE STORAGE FILE
E2
WRITE NEW DATE TO DATE FILE
F2
REWIND DATE STORAGE FILE
G2
5
7
H2
WRITE CURRENT DATE NEEDED
J2
READ DATE MM/DD/YR
K2
A
A3
B3
C3
D3
E3
F3
EXT
JTIME
CONVERT TO JULIAN TIME
G3
SET FIRST TIME SEARCH FLAG
H3
2
J3
K3
A4
2
B4
ALL
Y
N
C4
DOC. DATE
Y
N
D4
INPUT DATE
Y
N
E4
ACTION DUE DATE
Y
N
5.4.1-10
F4
BRAKET
SET TIME FRAME FOR SEARCH
G4
H4
J4
K4
A5
B5
C5
D5
E5
F5
INITIALIZE
READ COMPLETE FLAG
G5
B
4
H5
J5
K5

Figure 5.4.1-3

```
A1  $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*4; *2
B1  CLEAR
C1  SRCH$$(K$RDWR+K$NSAM,'OUT',6,3,0,0)
D1  WRITE (1,1)
E1  READ(1,3)IDES
F1  (IDES(1).EQ.'QU')
G1  (IRR.EQ.1)
H1
J1
K1
A2
B2  REWIND 10
C2  READ(10,2005) COUNTR
D2  REWIND 10
E2  WRITE (10,2003)IM,ID,IY,COUNTR
F2  REWIND 10
G2
H2  WRITE (1,2001)
J2  READ (1,2002,ERR=50) IM,ID,IY
K2
A3
B3
C3
D3
E3
```

Figure 5.4.1-3 Page (2 of 9)

F3 JTIME(IY,IM,ID,0,0,0,CD)

G3 IRR=1

H3

J3

K3

A4

B4 (IDES(1),NE.'AL'.AND.IDES(1).NE.'DO',AND.IDES(1).NE.'ID'.AND.

C4 IDES(1).NE.'AD')

D4 SEE B4-C4

E4 SEE B4-C4

F4 BRAKET

G4

H4

J4

K4

A5

B5

C5

D5

E5

F5 IREAD=0

G5

H5

J5

K5

Figure 5.4.1-3 Page (3 of 9)

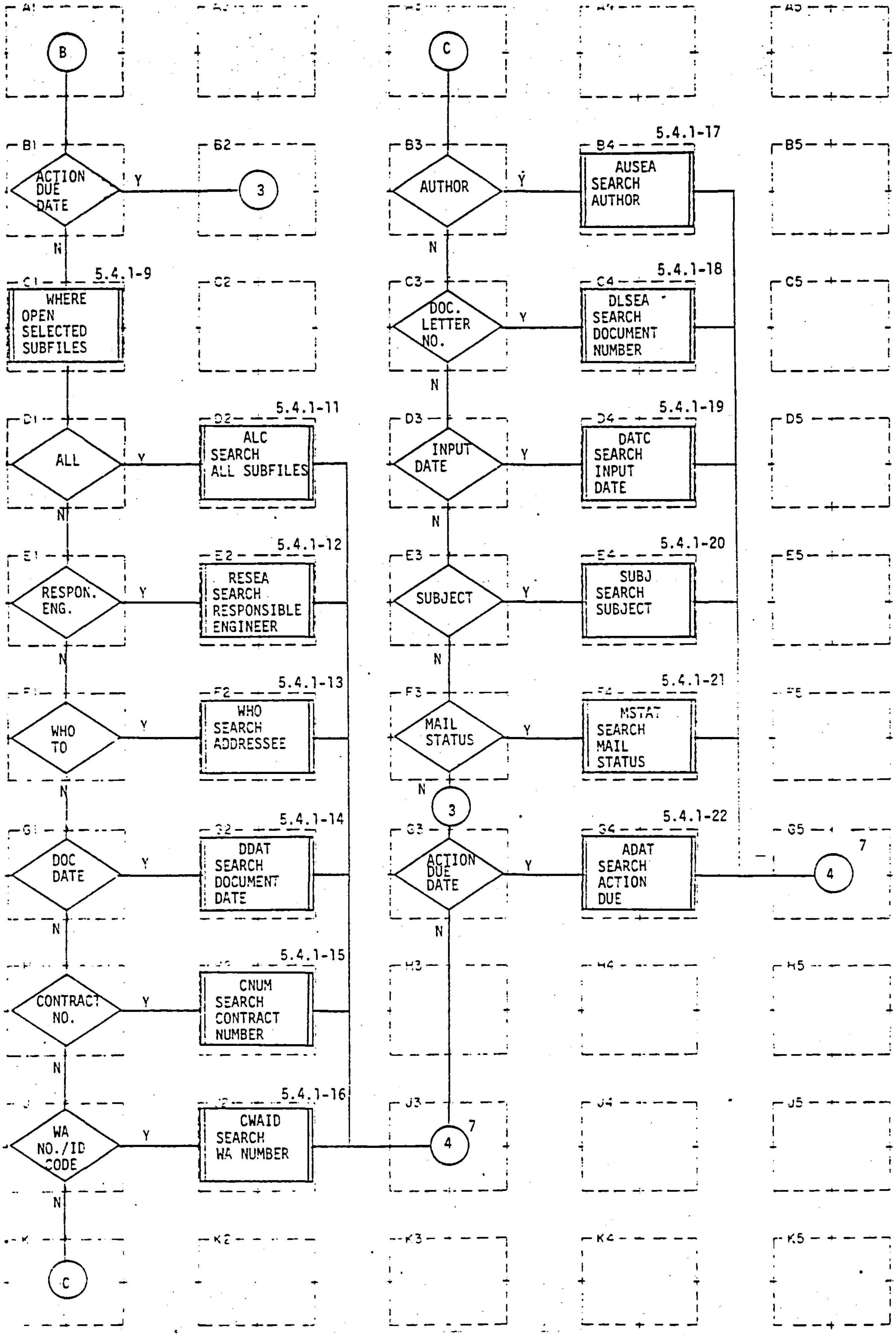


Figure 5.4.1-3

Page (4 of 9)

A1	
B1	(IDES(1).EQ.'AD')
C1	WHERE
D1	(IDES(1).EQ.'AL')
E1	(IDES(1).EQ.'NR')
F1	(IDES(1).EQ.'TO')
G1	(IDES(1).EQ.'DO')
H1	(IDES(1).EQ.'CO')
J1	(IDES(1).EQ.'CW')
K1	
A2	
B2	
C2	
D2	ALC
E2	RESEA
F2	WHO
G2	DDAT
H2	CNUM
J2	CWAID
K2	
A3	
B3	(IDES(1).EQ.'AU')
C3	(IDES(1).EQ.'DL')
D3	(IDES(1).EQ.'ID')
E3	(IDES(1).EQ.'SU')

Figure 5.4.1-3

Page (5 of 9)

F3 (IDES(1).EQ.'MS')

G3 (IDES(1).EQ.'AD')

H3

J3

K3

A4

B4 AUSEA

C4 DLSEA

D4 DATC

E4 SUBJ

F4 MSTAT

G4 ADAT

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.1-3 Page (6 of 9)

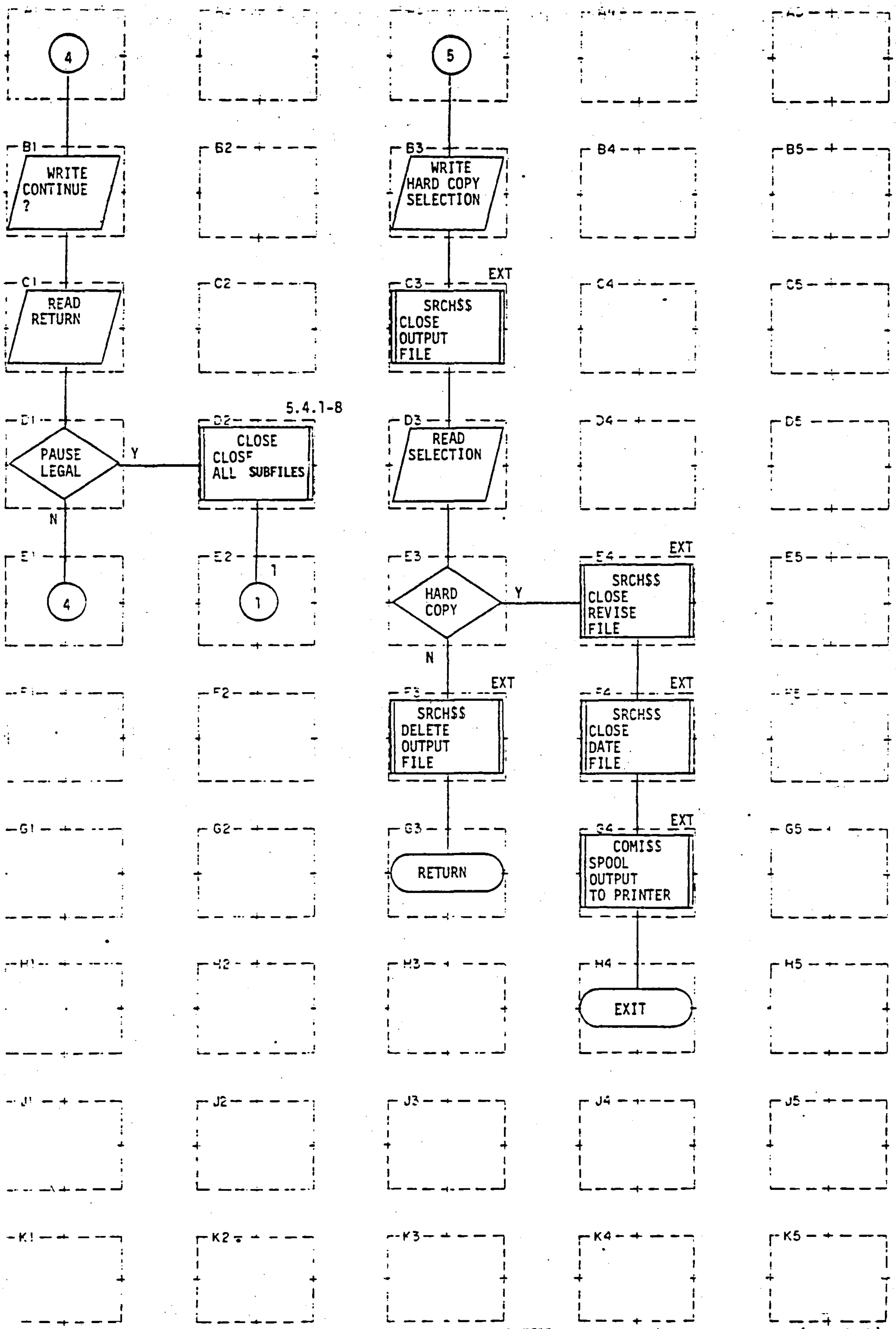


Figure 5.4.1-3

Page (7 of 9)

```
A1
B1  WRITE (1,101)
C1  READ (1,3) IDES
D1  (IDES(1).NE.'  ')
E1
F1
G1
H1
J1
K1
A2
B2
C2
D2  CLOSE
E2
F2
G2
H2
J2
K2
A3
B3  WRITE (1,11)
C3  SRCH$$(K$CLOS,'OUT',6,0,0,0)
D3  READ(1,5) IOPT
E3  (IOPT.EQ.'YE'); (IOPT.NE.'NO')
```

Figure 5.4.1-3 Page (8 of 9)

F3 SRCH$$(K$DELE,'OUT',6,0,0,0)

G3

H3

J3

K3

A4

B4

C4

D4

E4 SRCH$$(K$CLOS,'REVS',6,0,0,0)

F4 SRCH$$(K$CLOS,'DATE',6,0,0,0)

G4 COMI$$('SOUT',4,12,IC)

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.1-3 Page (9 of 9)

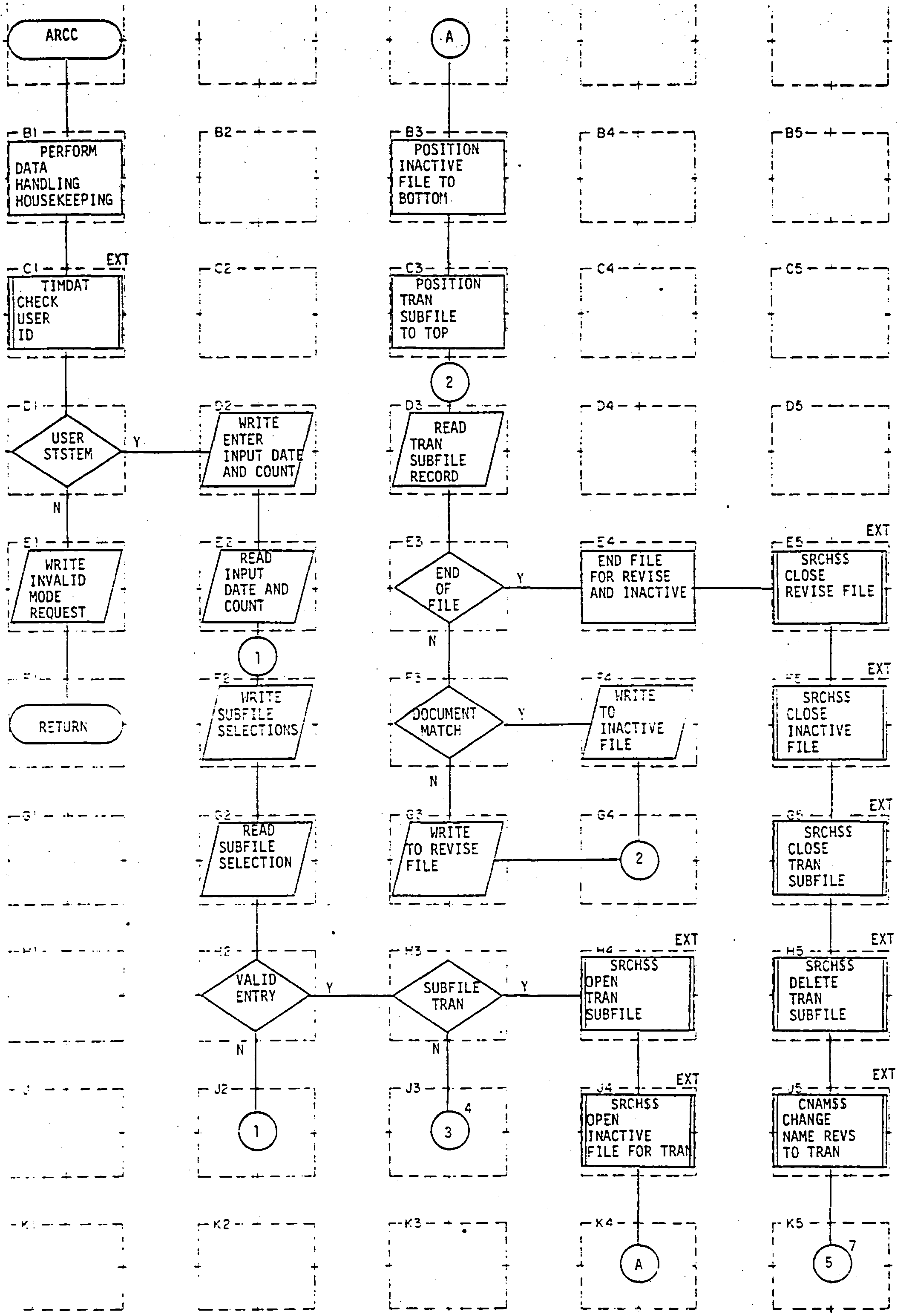


Figure 5.4.1-4

Page (1 of 9)

A1

B1 $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*4; *2

C1 TIMDAT(A,15)

D1 (A(13).NE.'SY')

E1 WRITE (1,701) ('SORRY YOU ARE NOT VALIDATED TO USE THIS ROUTINE.')

F1

G1

H1

J1

K1

A2

B2

C2

D2 WRITE (1,1)

E2 READ(1,2,ERR=3)D,ICOUN

F2 WRITE (1,11)

G2 READ (1,12)IANS

H2 (IANS.GT.6.OR.IANS.LT.1)

J2

K2

A3

B3 READ(9,END=20)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,
ADD,TWX,FSC,NRE,DDT

C3 REWIND 6

D3 READ(6,END=200)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,
ADD,TWX,FSC,NRE,DDT

E3 SEE D3

Figure 5.4.1-4 Page (2 of 9)

F3 (COUNT.NE.ICOUN); DO 110I=1,3; (IDD(I).NE.D(I))

G3 WRITE(8)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,ADD,TWX,FSC, NRE,DDT

H3 (IANS.GE.2)

J3

K3

A4

B4

C4

D4

E4 END FILE 8; END FILE 9

F4 WRITE(9)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,ADD,TWX, FSC,NRE,DDT

G4

H4 SRCH$$(K$RDWR+K$NDAM,'TRAN',6,2,1,IC)

J4 SRCH$$(K$RDWR+K$NDAM,'INACTL',6,5,1,IC)

K4

A5

B5

C5

D5

E5 SRCH$$(K$CLOS,'REVS',6,0,0,0)

F5 SRCH$$(K$CLOS,'INACTL',6,0,0,0)

G5 SRCH$$(K$CLOS,'TRAN',6,0,0,0)

H5 SRCH$$(K$DELE,'TRAN',6,0,0,0)

J5 CNAM$$('REVS',6,'TRAN',6,IC)

K5

Figure 5.4.1-4 Page (3 of 9)

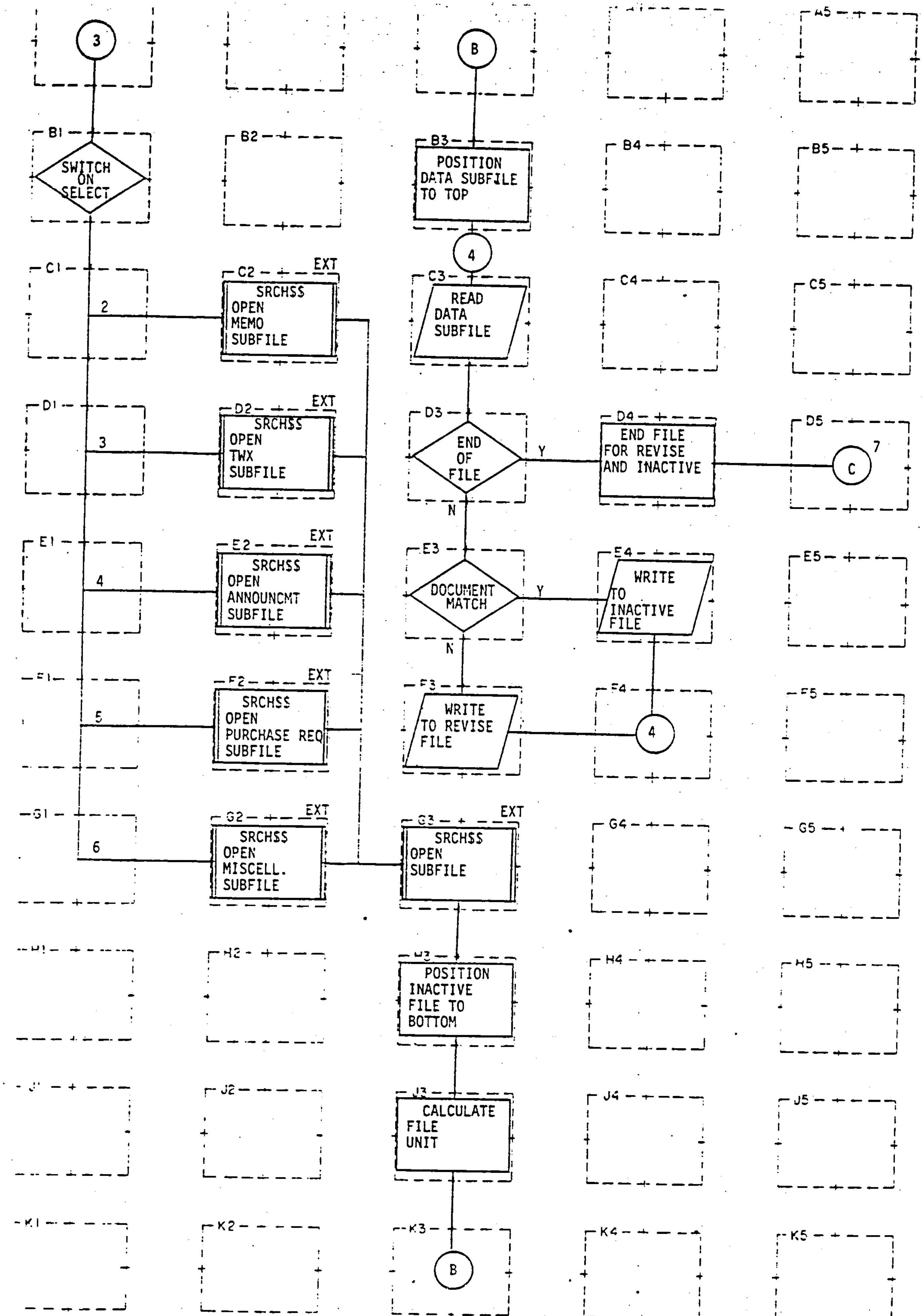


Figure 5.4.1-4

Page (4 of 9)

A1

B1

C1 (IANS.EQ.2)

D1 (IANS.EQ.3)

E1 (IANS.EQ.4)

F1 (IANS.EQ.5)

G1 (IANS.EQ.6)

H1

J1

K1

A2

B2

C2 SRCH$$(K$RDWR+K$NDAM,'MEMO',6,7,1,IC)

D2 SRCH$$(K$RDWR+K$NDAM,'TWFX',6,8,1,IC)

E2 SRCH$$(K$RDWR+K$NDAM,'ANN',6,9,1,IC)

F2 SRCH$$(K$RDWR+K$NDAM,'PR',6,10,1,IC)

G2 SRCH$$(K$RDWR+K$NDAM,'MIS',6,11,1,IC)

H2

J2

K2

A3

B3 REWIND IN

C3 READ(IN,END=450)MS,ATHR,DD,TO,DLN,SUB.PTIT,ROUT,IDD,COUNT,CWA,CONT,
ADD,TWX,FSC,NRE

D3 SEE C3

E3 (COUNT.NE.ICOUN); DO390I=1,3; (IDD(I).NE.D(I))

Figure 5.4.1-4 Page (5 of 9)

```
F3   WRITE(8)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,ADD,
     TWX,FSC,NRE

G3   SRCH$$(K$RDWR+K$NDAM,'INACTS',6,5,1,IC)

H3   READ(9,END=320)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,
     CONT,ADD,TWX,ESC,NRE

J3   IN=IANS+9

K3

A4

B4

C4

D4   END FILE 8; END FILE 9

E4   WRITE(9)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,ADD,
     TWX,FSC,NRE

F4

G4

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5
```

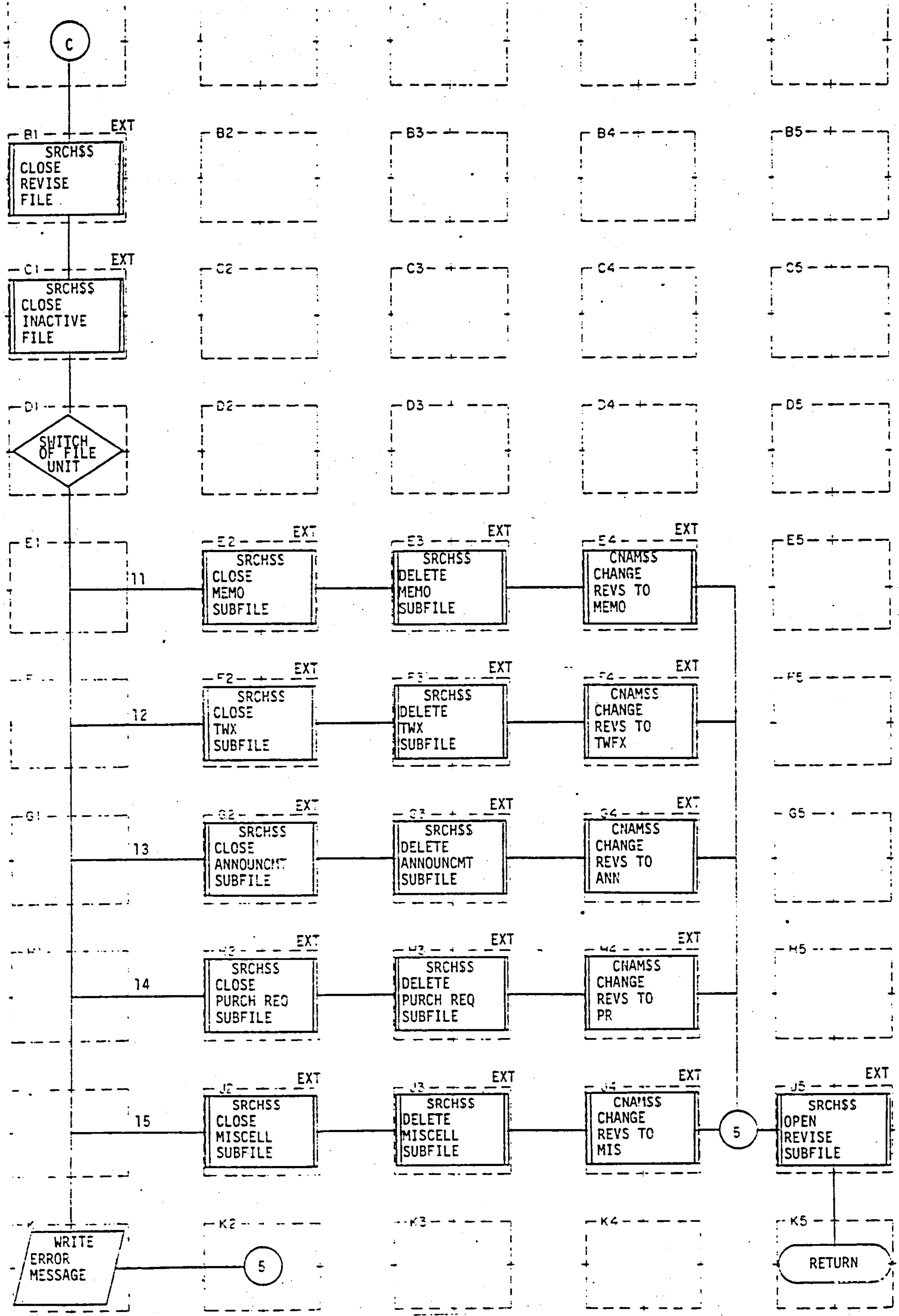


Figure 5.4.1-4

Page (7 of 9)

```
A1
B1  SRCH$$(K$CLOS,'REVS',6,0,0,0)
C1  SRCH$$(K$CLOS,'INACTS',6,0,0,0)
D1
E1  (IN.NE.11)
F1  (IN.NE.12)
G1  (IN.NE.13)
H1  (IN.NE.14)
J1  (IN.NE.15)
K1  WRITE(1,480) ('AN ERROR IN FILE MANAGEMENT SYSTEM HAS OCCURRED!')
A2
B2
C2
D2
E2  SRCH$$(K$CLOS,'MEMO',6,0,0,0)
F2  SRCH$$(K$CLOS,'TWFX',6,0,0,0)
G2  SRCH$$(K$CLOS,'ANN',6,0,0,0)
H2  SRCH$$(K$CLOS,'PR',6,0,0,0)
J2  SRCH$$(K$CLOS,'MIS',6,0,0,0)
K2
A3
B3
C3
D3
E3  SRCH$$(K$DELE,'MEMO',6,0,0,0)
```

Figure 5.4.1-4

F3 SRCH$$(K$DELE,'TWFX',6,0,0,0)

G3 SRCH$$(K$DELE,'ANN',6,0,0,0)

H3 SRCH$$(K$DELE,'PR',6,0,0,0)

J3 SRCH$$(K$DELE,'MIS',6,0,0,0)

K3

A4

B4

C4

D4

E4 CNAM$$('REVS',6,'MEMO',6,IC)

F4 CNAM$$('REVS',6,'TWFX',6,IC)

G4 CNAM$$('REVS',6,'ANN',6,IC)

H4 CNAM$$('REVS',6,'PR',6,IC)

J4 CNAM$$('REVS',6'MIS',6,IC)

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5 SRCH$$(K$RDWR+K$NDAM,'REVS',6,4,1,IC)

K5

Figure 5.4.1-4 Page (9 of 9)

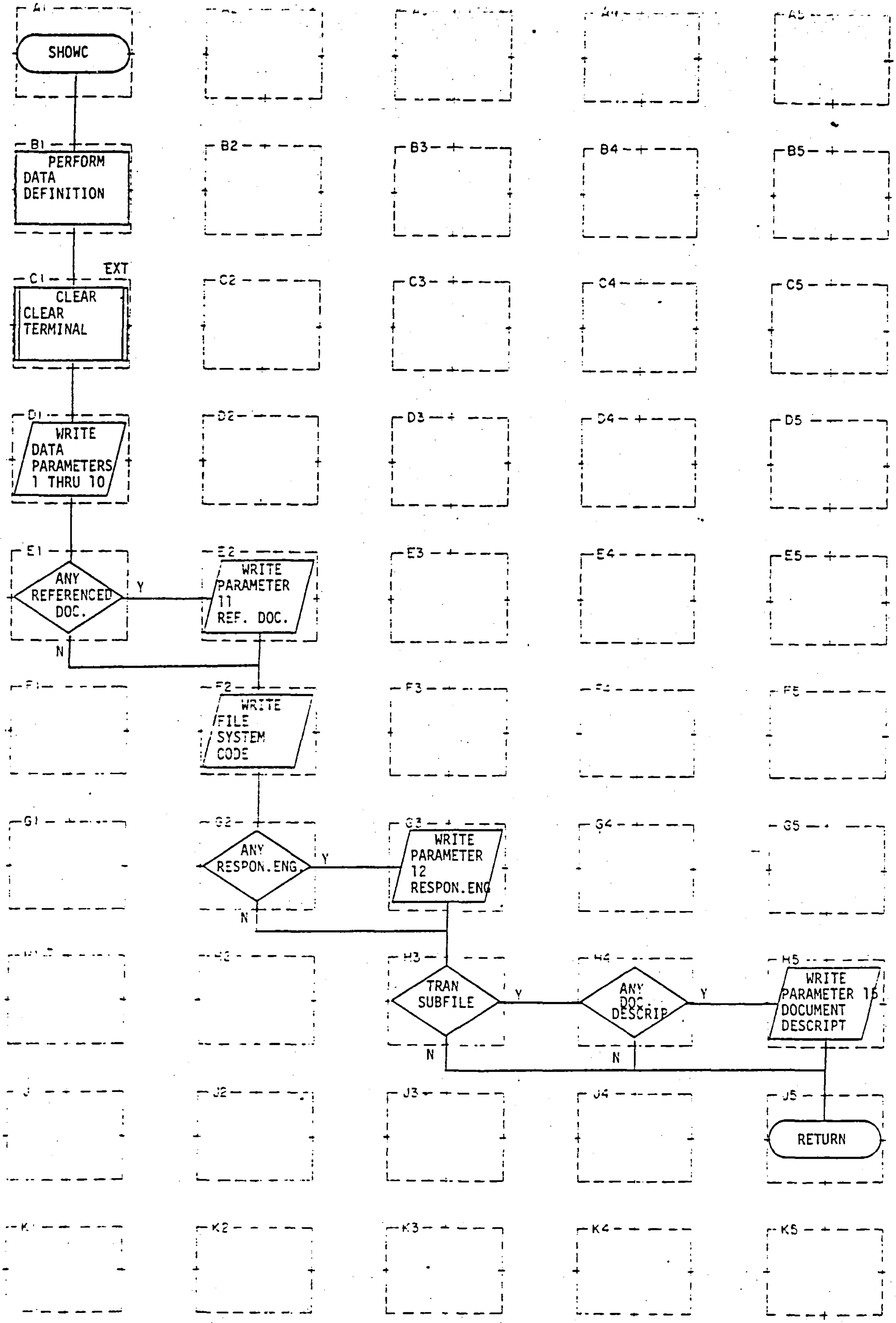


Figure 5.4.1-5

Page (1 of 3)

A1

B1 $INSERT COMMON

C1 CLEAR

D1 WRITE(1,10)MS,ATHR,DD,TO,DLN,SUB,ROUT,IDD,CWA,CONT,ADD

E1 DO810M=1,6; KTW=0; DO820N=1,5; (TWX(M,N).NE.' ');
KTW=KTW+1; (KTW.EQ.0)

F1

G1

H1

J1

K1

A2

B2

C2

D2

E2 WRITE(1,800); WRITE(1,850) (TWX(M,N),N=1,5)

F2 WRITE(1,1000)FSC

G2 KRE=0; DO1400L=1,3; (NRE(1,L).NE.' '); KRE=KRE+1; (KRE.EQ.0)

H2

J2

K2

A3

B3

C3

D3

E3

Figure 5.4.1-5 Page (2 of 3)

F3

G3 WRITE(1,1200); WRITE(1,270) (NRE(1,L),L=1,3)

H3 (ITRSP.EQ.0)

J3

K3

A4

B4

C4

D4

E4

F4

G4

H4 DO 1500I=1,30; KDD=0; DO1600J=1,21; (DDT(I,J).NE.' '); KDD=
KDD+1; (KDD.EQ.0)

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5 WRITE(1,1100); WRITE(1,180) (DDT(I,J),J=1,21)

J5

K5

Figure 5.4.1-5

Page (3 of 3)

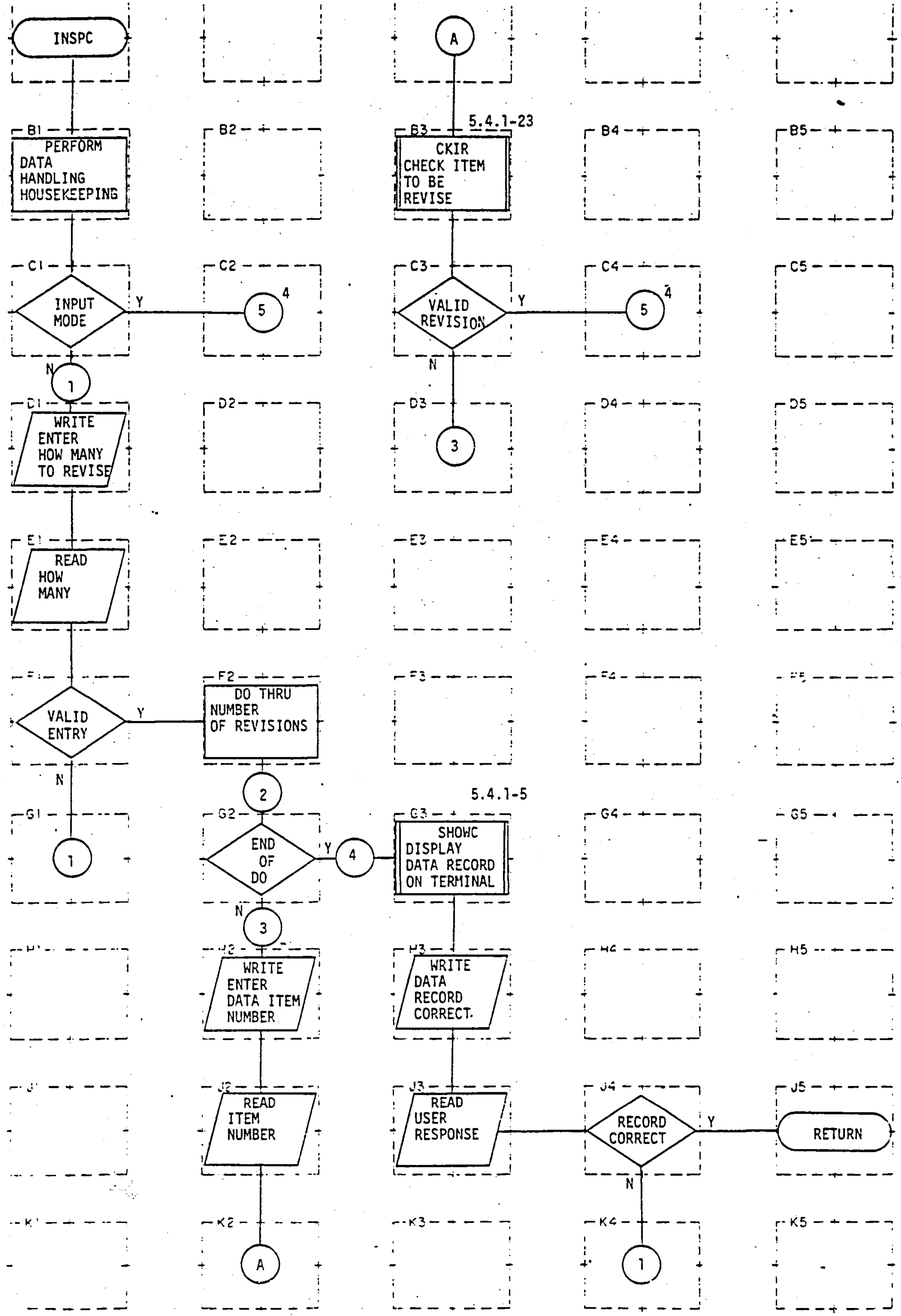


Figure 5.4.1-6

Page (1 of 21)

A1

B1 $INSERT COMMON; INTEGER*4; *2

C1 (R.EQ.0)

D1 WRITE(1,1)

E1 READ(1,10,ERR=2)IKNT

F1 (IKNT.LT.0); (IKNT.GT.14)

G1

H1

J1

K1

A2

B2

C2

D2

E2

F2 DO 9999 LP = 1,IKNT,1

G2 performed by F2

H2 WRITE (1,3)

J2 READ(1,10,ERR=5)IR

K2

A3

B3 CKIR(IR,I)

C3 (I.GT.0)

D3

E3

Figure 5.4.1-6

Page (2 of 21)

F3

G3 SHOWC

H3 WRITE(1,2303)

J3 READ(1,2300)IOPT

K3

A4

B4

C4

D4

E4

F4

G4

H4

J4 (IOPT.EQ.'RE'); (IOPT.NE.'CO')

K4

A5

B5

C5

D5

E5

F5

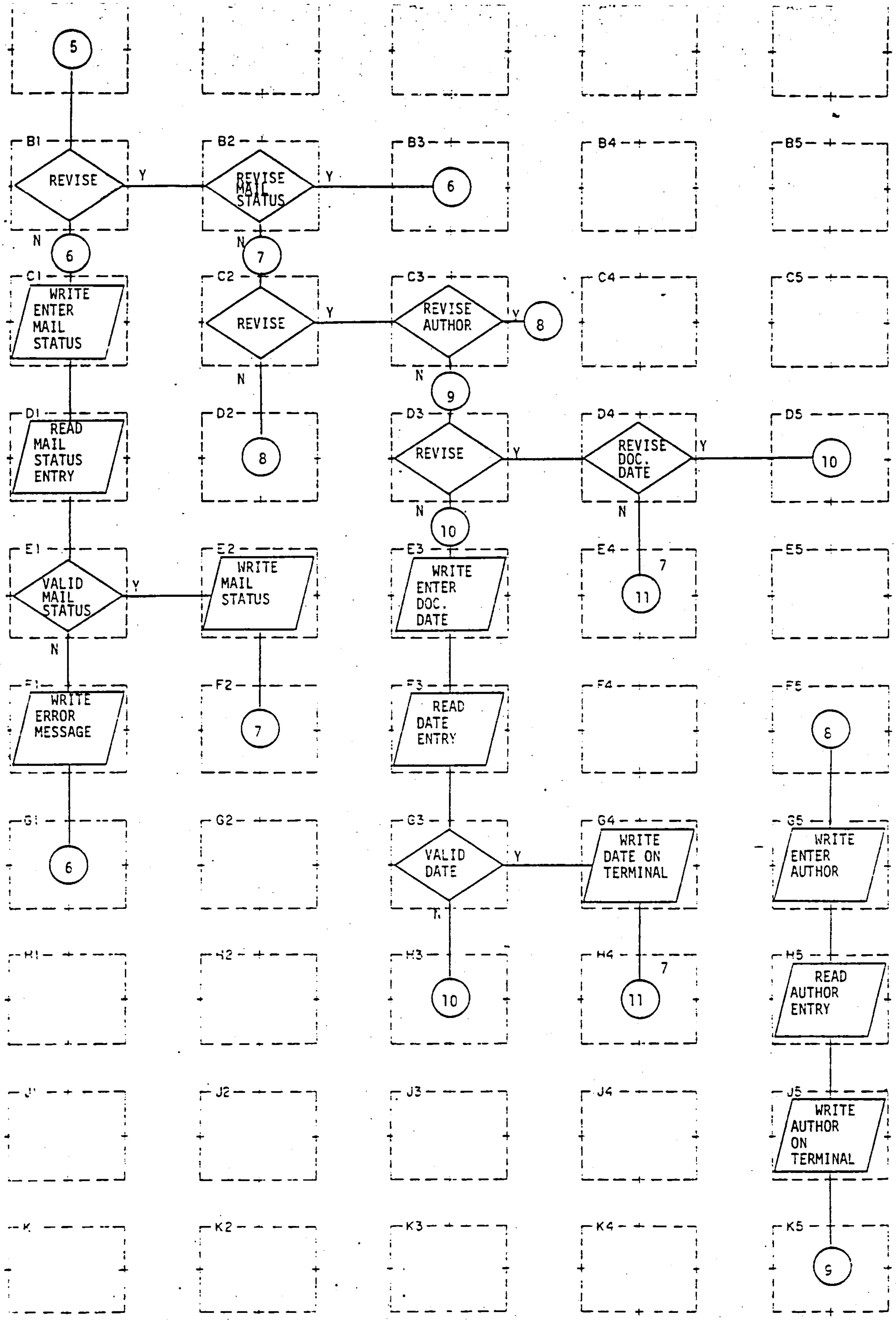
G5

H5

J5

K5

Figure 5.4.1-6 Page (3 of 21)



5
B1
REVISE
Y
N
B2
REVISE MAIL STATUS
Y
N
B3
6
B4
B5
6
7
C1
WRITE ENTER MAIL STATUS
C2
REVISE
Y
N
C3
REVISE AUTHOR
Y
N
8
C4
C5
9
D1
READ MAIL STATUS ENTRY
D2
8
D3
REVISE
Y
N
D4
REVISE DOC. DATE
Y
N
D5
10
10
E1
VALID MAIL STATUS
Y
N
E2
WRITE MAIL STATUS
E3
WRITE ENTER DOC. DATE
E4
11
7
E5
F1
WRITE ERROR MESSAGE
F2
7
F3
READ DATE ENTRY
F4
F5
8
G1
6
G2
G3
VALID DATE
Y
G4
WRITE DATE ON TERMINAL
G5
WRITE ENTER AUTHOR
H1
H2
H3
10
H4
11
7
H5
READ AUTHOR ENTRY
J1
J2
J3
J4
J5
WRITE AUTHOR ON TERMINAL
K1
K2
K3
K4
K5
9

Figure 5.4.1-6

A1

B1 (R.EQ.1.AND.IR.NE.1)

C1 WRITE(1,101)

D1 READ(1,104,ERR=103)MS

E1 (MS.EQ.'VC'); (MS.EQ.'IM'); (MS.EQ.'OM')

F1 WRITE(1,106)MS

G1

H1

J1

K1

A2

B2 SEE B1

C2 (R.EQ.1.AND.IR.NE.2)

D2

E2 WRITE(1,104)MS

F2

G2

H2

J2

K2

A3

B3

C3 SEE C2

D3 (R.EQ.1.AND.IR.NE.3)

E3 WRITE(1,302)

Figure 5.4.1-6

```
F3   READ (1,303,ERR=301)DD
G3   (DD(1).GT.12); (DD(2).GT.31)
H3
J3
K3
A4
B4
C4
D4   SEE D3
E4
F4
G4   WRITE(1,303)DD
H4
J4
K4
A5
B5
C5
D5
E5
F5
G5   WRITE(1,202)
H5   READ(1,203,ERR=201)ATHR
J5   WRITE(1,203)ATHR
K5
```

Figure 5.4.1-6 Page (6 of 21)

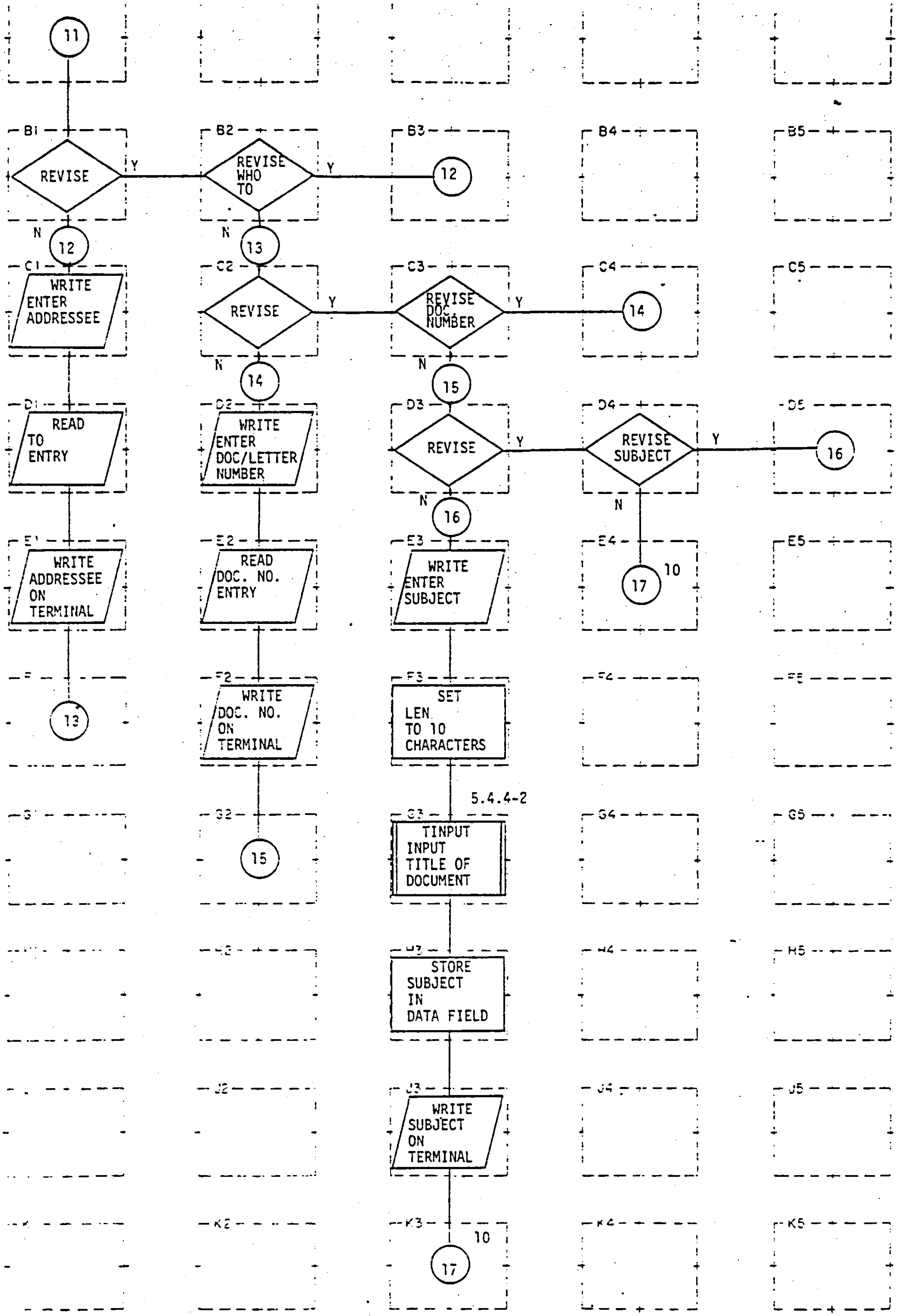


Figure 5.4.1-6

Page (7 of 21)

A1 (R.EQ.1.AND.IR.NE.4)

B1 WRITE(1,402)

C1 READ(1,403,ERR=401)TO

D1 WRITE(1,403)TO

E1

F1

G1

H1

J1

K1

A2

B2 SEE B1

C2 (R.EQ.1.AND.IR.NE.5)

D2 WRITE(1,502)

E2 READ(1,503,ERR=501)DLN

F2 WRITE(1,503)DLN

G2

H2

J2

K2

A3

B3

C3 SEE C2

D3 (R.EQ.1.AND.IR.NE.6)

E3 WRITE(1,602)

Figure 5.4.1-6 Page (8 of 21)

F3 LEN=10

G3 TINPUT(TIT,LEN)

H3 DO610IJ=1,21; SUB(IJ)=TIT(IJ)

J3 WRITE(1,603)SUB

K3

A4

B4

C4

D4 SEE D3

E4

F4

G4

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.1-6

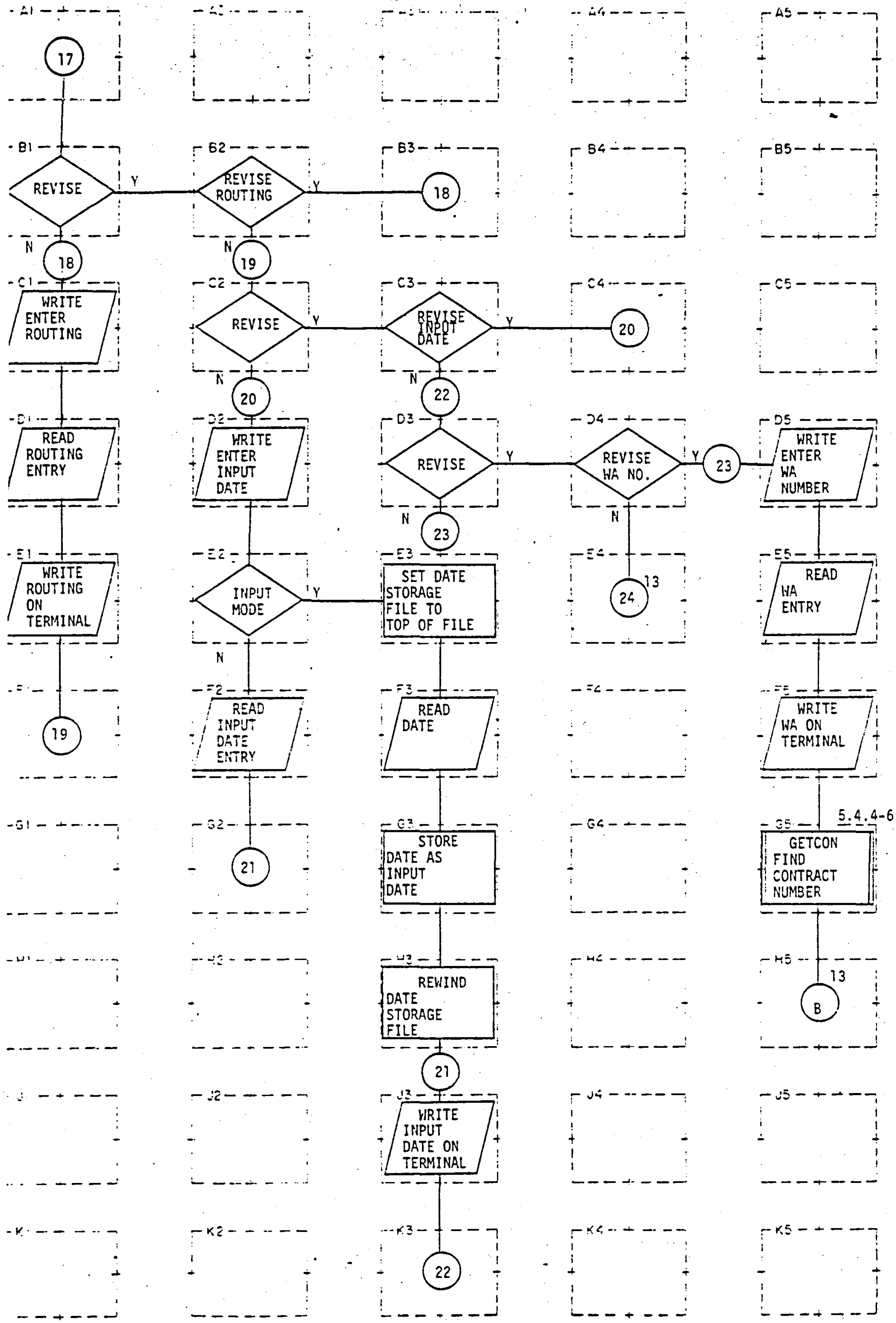


Figure 5.4.1-6

Page (10 of 21)

A1

B1 (R.EQ.1.AND.IR.NE.7)

C1 WRITE(1,702)

D1 READ(1,703,ERR=701)ROUT

E1 WRITE(1,703)ROUT

F1

G1

H1

J1

K1

A2

B2 SEE B1

C2 (R.EQ1.AND.IR.NE.8)

D2 WRITE(1,802)

E2 (R.EQ.0)

F2 READ(1,803,ERR=801)IDD

G2

H2

J2

K2

A3

B3

C3 SEE C2

D3 (R.EQ.1.AND.IR.NE.9)

E3 REWIND 10

Figure 5.4.1-6

F3 READ(10,803)IM,ID,IY

G3 IDD(1)=IM; IDD(2)=ID; IDD(3)=IY

H3 REWIND 10

J3 WRITE (1,803)IDD

K3

A4

B4

C4

D4 SEE D3

E4

F4

G4

H4

J4

K4

A5

B5

C5

D5 WRITE (1,902)

E5 READ(1,903,ERR=902)CWA

F5 WRITE(1,903)CWA

G5 GETCON

H5

J5

K5

Figure 5.4.1-6

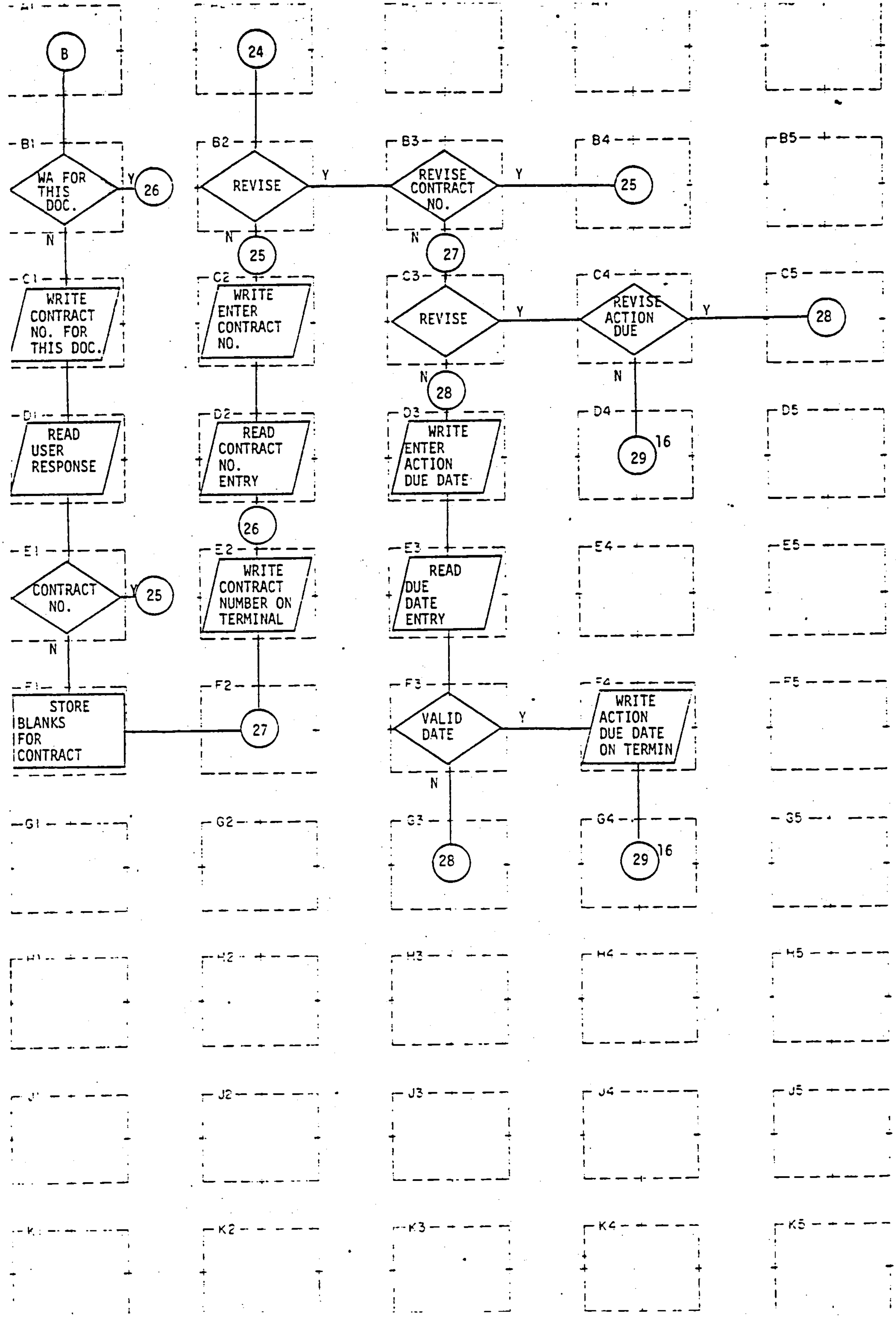


Figure 5.4.1-6

Page (13 of 21)

```
A1
B1   (CON(1).NE.'  ')
C1   WRITE(1,910)
D1   READ(1,2300,ERR=909)IOPT
E1   (IOPT.EQ.'YE'); (IOPT.NE.'NO')
F1   DO1060I=1,5; CONT(I)=CON(I)
G1
H1
J1
K1
A2
B2   (R.EQ.1.AND.IR.NE.10)
C2   WRITE(1,952)
D2   READ(1,953,ERR=951)CONT
E2   WRITE(1,953) CONT
F2
G2
H2
J2
K2
A3
B3   SEE B2
C3   (R.EQ.1.AND.IR.NE.11)
D3   WRITE(1,1102)
E3   READ(1,1103,ERR=1101)ADD
```

Figure 5.4.1-6

Page (14 of 21)

F3 (ADD(1).GT.12); (ADD(2).GT.31)

G3

H3

J3

K3

A4

B4

C4 SEE C3

D4

E4

F4 WRITE(1,1103)ADD

G4

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.1-6

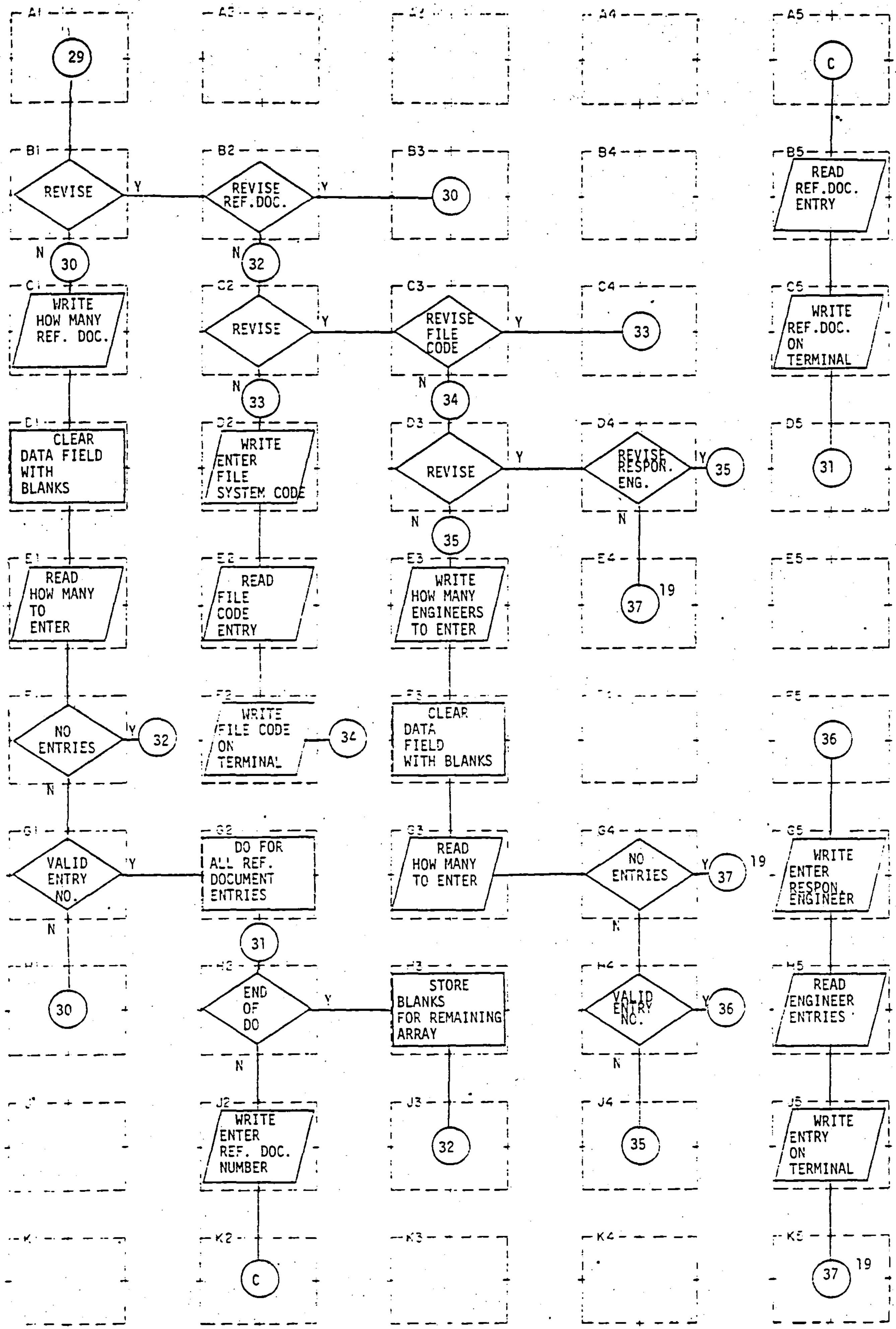

A1
29
A5
C
B1
REVISE
Y
N
30
B2
REVISE REF.DOC.
Y
N
32
B3
30
B4
B5
READ REF.DOC. ENTRY
C1
WRITE HOW MANY REF. DOC.
C2
REVISE
Y
N
33
C3
REVISE FILE CODE
Y
N
34
C4
33
C5
WRITE REF.DOC. ON TERMINAL
D1
CLEAR DATA FIELD WITH BLANKS
D2
WRITE ENTER FILE SYSTEM CODE
D3
REVISE
Y
N
35
D4
REVISE RESPON. ENG.
Y
N
35
D5
31
E1
READ HOW MANY TO ENTER
E2
READ FILE CODE ENTRY
E3
WRITE HOW MANY ENGINEERS TO ENTER
E4
37
19
E5
NO ENTRIES
Y
N
32
F2
WRITE FILE CODE ON TERMINAL
34
F3
CLEAR DATA FIELD WITH BLANKS
F5
36
G1
VALID ENTRY NO.
Y
N
G2
DO FOR ALL REF. DOCUMENT ENTRIES
31
G3
READ HOW MANY TO ENTER
G4
NO ENTRIES
Y
N
37
19
G5
WRITE ENTER RESPON. ENGINEER
30
H2
END OF DO
Y
N
H3
STORE BLANKS FOR REMAINING ARRAY
VALID ENTRY NO.
Y
N
36
H5
READ ENGINEER ENTRIES
J2
WRITE ENTER REF. DOC. NUMBER
J3
32
J4
35
J5
WRITE ENTRY ON TERMINAL
K2
C
K3
K4
K5
37
19

Figure 5.4.1-6

A1	
B1	(R.EQ.1.AND.IR.NE.12)
C1	WRITE(1,1204)
D1	LOOP1=0; DO1210IA=1,6; DO1211IC=1,5; TWX(IA,IC)=' '
E1	READ(1,1220,ERR=1202)LOOP1
F1	(LOOP1.EQ.0)
G1	(LOOP1.GT.6)
H1	
J1	
K1	
A2	
B2	SEE B1
C2	(R.EQ.1.AND.IR.NE.13)
D2	WRITE(1,1302)
E2	READ(1,1303,ERR=1301)FSC
F2	WRITE(1,1303)FSC
G2	DO1260II=1,LOOP1
H2	Performed by G2
J2	WRITE (1,1262)
K2	
A3	
B3	
C3	SEE C2
D3	(R.EQ.1.AND.IR.NE.14)
E3	WRITE(1,1401)

Figure 5.4.1-6

F3 LOOP1=0; DO1408ID=1,3; NRE(1,IB)= ' '

G3 READ(1,1402,ERR=1403) LOOP1

H3

J3

K3

A4

B4

C4

D4 SEE D3

E4

F4

G4 (LOOP1.EQ.0)

H4 (LOOP1.GT.3)

J4

K4

A5

B5 READ(1,1265) (TWX(II,J),J=1,5)

C5 WRITE(1,1265) (TWX(II,J),J=1,5)

D5

E5

F5

G5 WRITE(1,1404)

H5 READ(1,1405) (NRE(1,J),J=1,3)

J5 WRITE(1,1405) (NRE(1,J),J=1,3)

K5

Figure 5.4.1-6

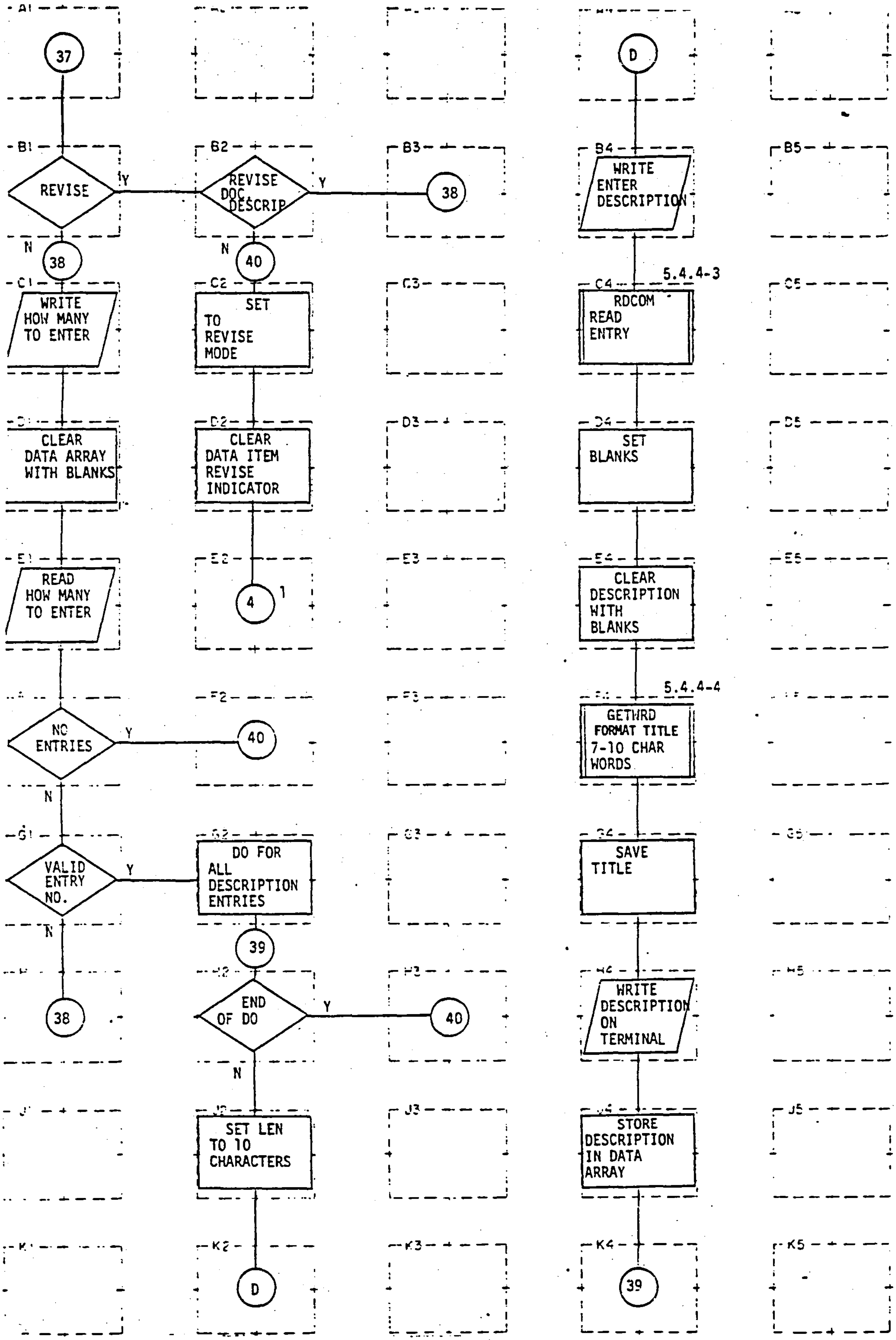


Figure 5.4.1-6

Page (19 of 21)

A1

B1 (R.EQ.1.AND.IR.NE.15)

C1 WRITE(1,1502)

D1 DO1510IK=1,30; DO1511IL=1,21; DDT(IK,IL)=' '

E1 READ(1,1503,ERR=1501)ILP

F1 (ILP.EQ.0)

G1 (ILP.EQ.30)

H1

J1

K1

A2

B2 SEE B1

C2 R=1

D2 IR=0

E2

F2

G2 DO1504IJ=1,ILP

H2 Performed by G2

J2 LEN=10

K2

A3

B3

C3

D3

E3

Figure 5.4.1-6

```
F3
G3
H3
J3
K3
A4
B4    WRITE(1,1505)
C4    RDCOM(BUF)
D4    BLNK= '  '
E4    DO1521I=1,21; TIT(I)=BLNK; ARRAY(1)=BLNK; ARRAY(2)=BLNK; ARRAY(3)=BLNK
F4    GETWRD(BUF,ARRAY,LEN)
G4    TIT(I)=ARRAY(1); TIT(I+1)=ARRAY(2); TIT(I+2)=ARRAY(3); TIT(I+3)=ARRAY(4)
H4    WRITE(1,1506) (TIT(I),I=1,21)
J4    I18=21; DO2507J=1,I18; DDT(IJ,J)='  '; DDT(IJ,J)=TIT(J); TIT(J)='  '
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.1-6 Page (21 of 21)

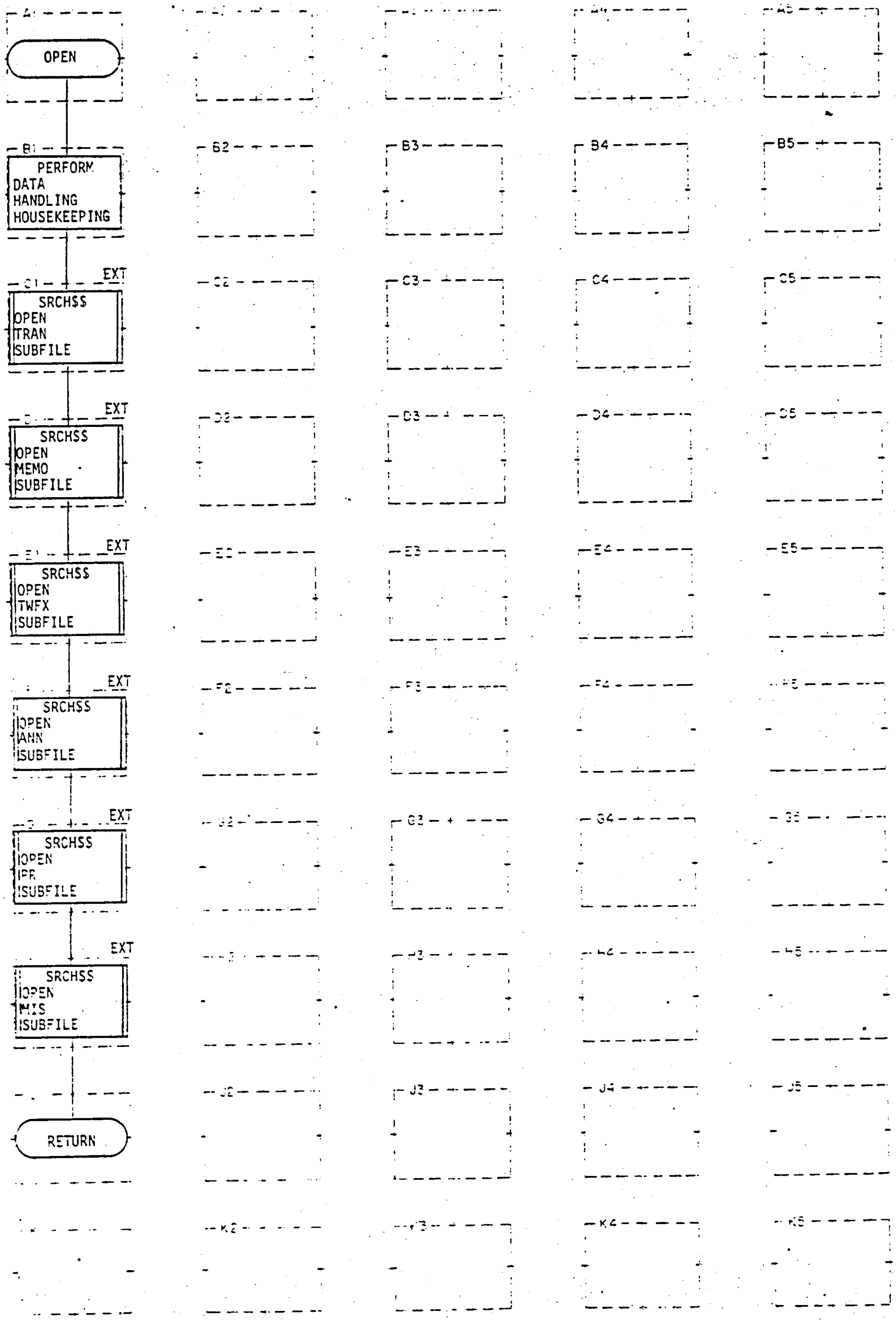


Figure 5.4.1-7

Page (1 of 2)

```
A1
B1   $INSERT SYSCOM>KEYS.F
C1   SRCH$$(K$RDWR+K$NDAM,'TRAN',6,2,1,IC)
D1   SRCH$$(K$RDWR+K$NDAM,'MEMO',6,7,1,IC)
E1   SRCH$$(K$RDWR+K$NDAM,'TWFX',6,8,1,IC)
F1   SRCH$$(K$RDWR+K$NDAM,'ANN',6,9,1,IC)
G1   SRCH$$(K$RDWR+K$NDAM,'PR',6,10,1,IC)
H1   SRCH$$(K$RDWR+K$NDAM,'MIS',6,11,1,IC)
J1
K1
A2
B2
C2
D2
E2
F2
G2
H2
J2
K2
A3
B3
C3
D3
E3
```

Figure 5.4.1-7 Page (2 of 2)

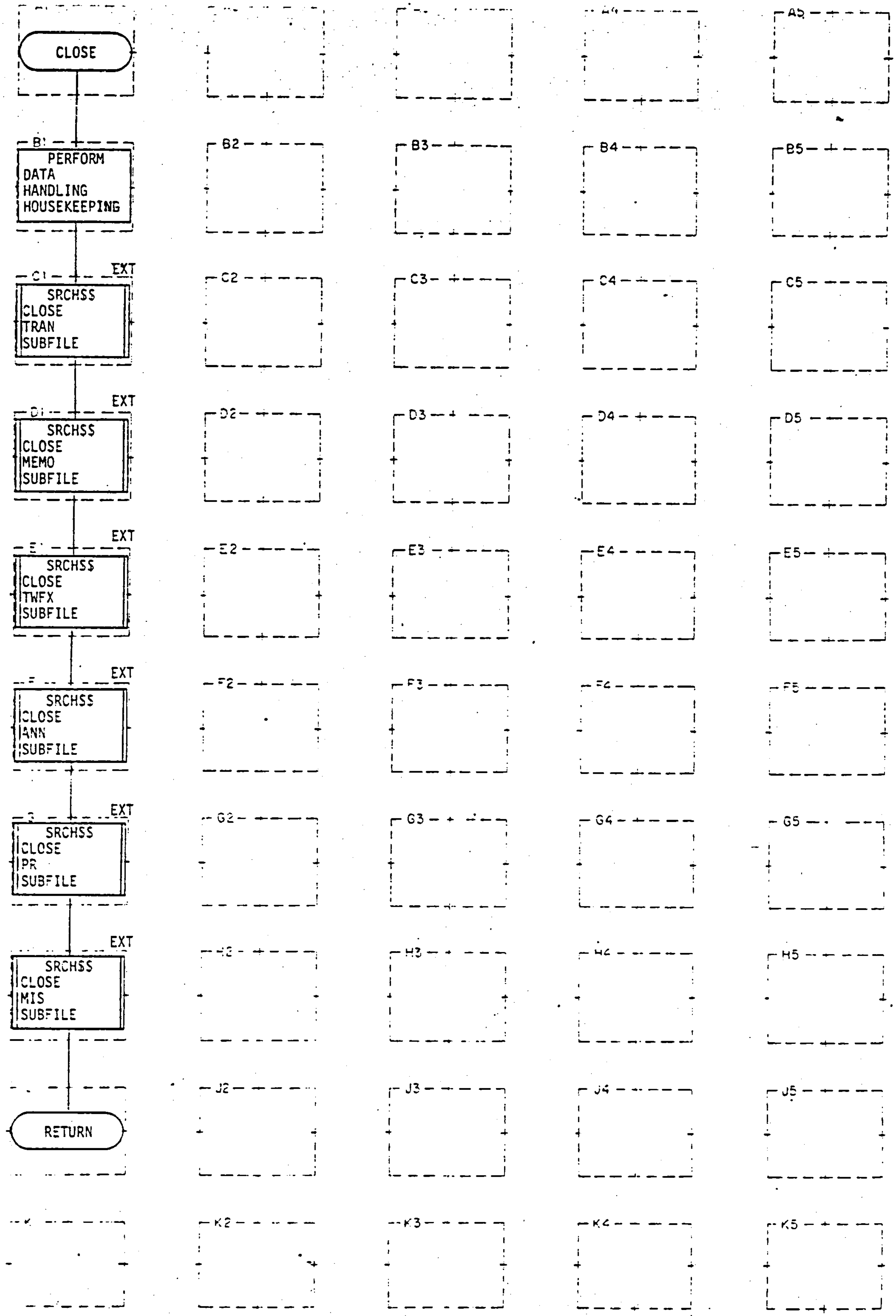


Figure 5.4.1-8

Page (1 of 2)

```
A1
B1   $INSERT SYSCOM> KEYS.F
C1   SRCH$$(K$CLOS,'TRAN',6,0,0,0)
D1   SRCH$$(K$CLOS,'MEMO',6,0,0,0)
E1   SRCH$$(K$CLOS,'TWFX',6,0,0,0)
F1   SRCH$$(K$CLOS,'ANN',6,0,0,0)
G1   SRCH$$(K$CLOS,'PR',6,0,0,0)
H1   SRCH$$(K$CLOS,'MIS',6,0,0,0)
J1
K1
A2
B2
C2
D2
E2
F2
G2
H2
J2
K2
A3
B3
C3
D3
E3
```

Figure 5.4.1-8 Page (2 of 2)

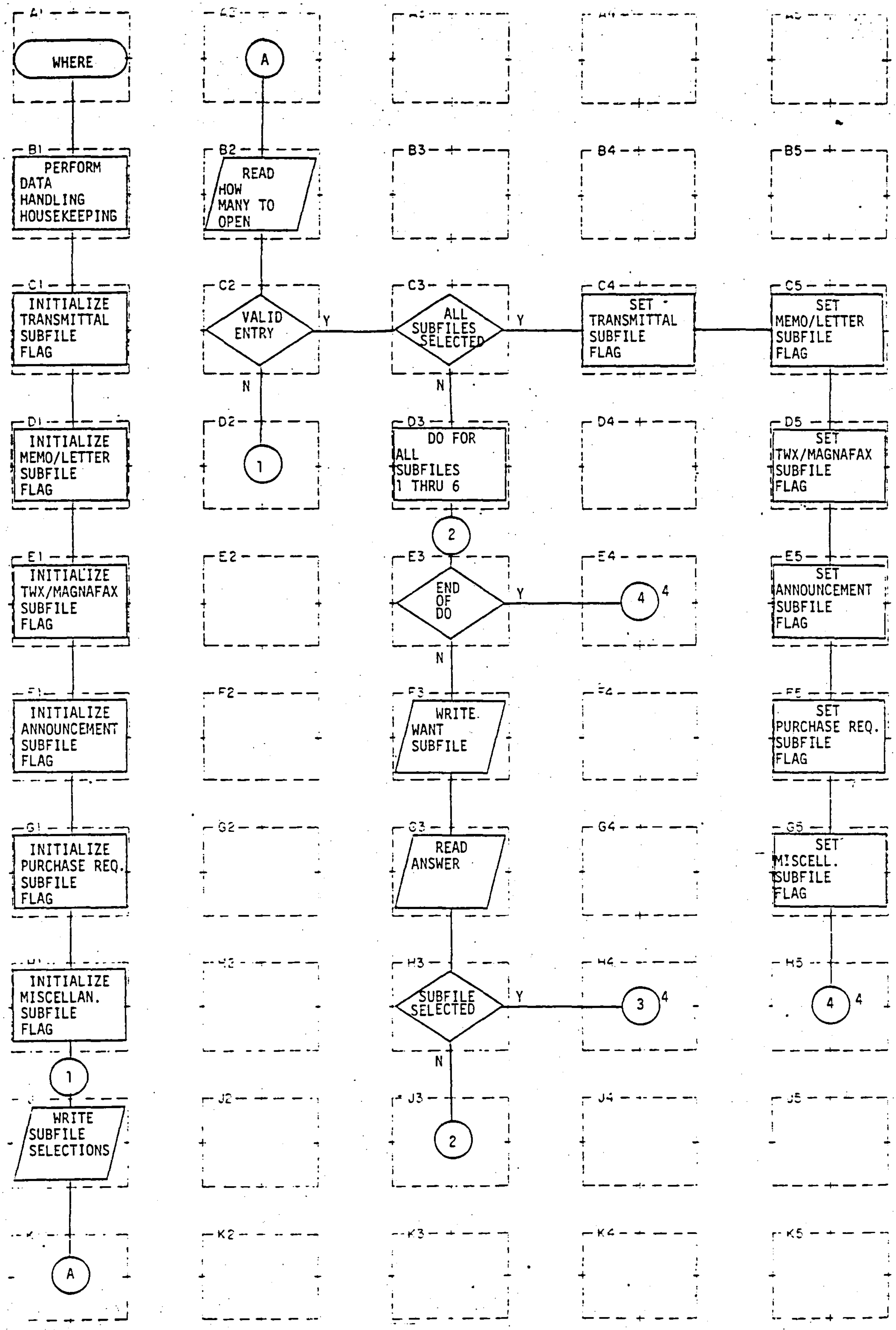


Figure 5.4.1-9

Page (1 of 6)

A1

B1 $INSERT COMMON; $INSERT SYSCOM >KEYS.F; INTEGER*2

C1 ITRSP=0

D1 IMELE=0

E1 ITWFX=0

F1 IANN=0

G1 IPR=0

H1 IMIS=0

J1 WRITE(1,100)

K1

A2

B2 READ(1,110,ERR=10)IFILE

C2 (IFILE.LE.0.OR.IFILE.GT.6)

D2

E2

F2

G2

H2

J2

K2

A3

B3

C3 (IFILE.EQ.6)

D3 DO 200 I =1,6

E3 Performed by D3

Figure 5.4.1-9 Page (2 of 6)

F3 WRITE(1,120)I

G3 READ(1,130,ERR=115)IOPT

H3 (IOPT.EQ.'NO'); (IOPT.NE.'YE')

J3

K3

A4

B4

C4 ITRSP=1

D4

E4

F4

G4

H4

J4

K4

A5

B5

C5 IMELE=1

D5 ITWFX=1

E5 IANN=1

F5 IPR=1

G5 IMIS=1

H5

J5

K5

Figure 5.4.1-9 Page (3 of 6)

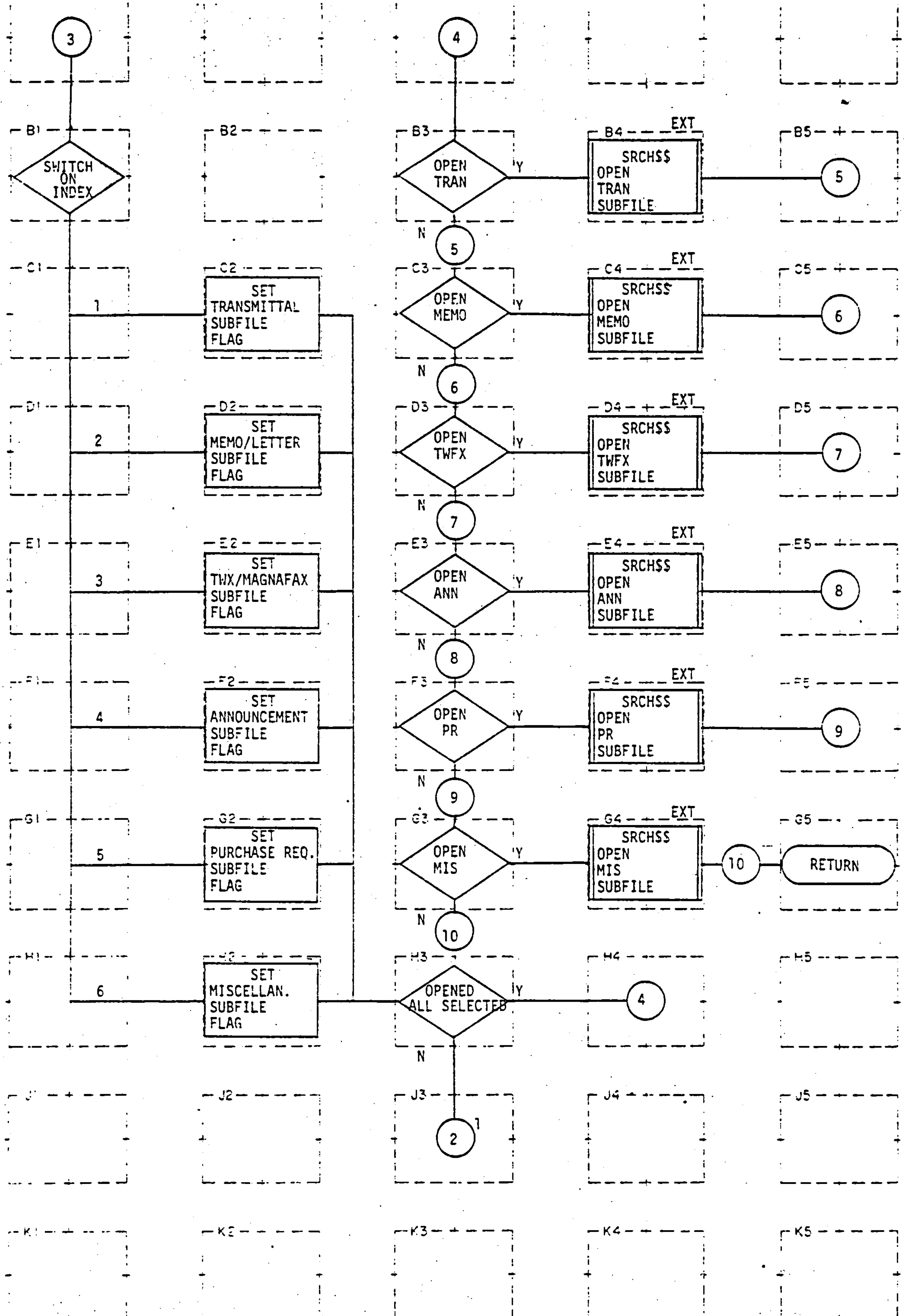


Figure 5.4.1-9

Page (4 of 6)

A1

B1

C1 (I.EQ.1)

D1 (I.EQ.2)

E1 (I.EQ.3)

F1 (I.EQ.4)

G1 (I.EQ.5)

H1 (I.EQ.6)

J1

K1

A2

B2

C2 ITRSP=1

D2 IMELE=1

E2 ITWFX=1

F2 IANN=1

G2 IPR=1

H2 IMIS=1

J2

K2

A3

B3 (ITRSP.EQ.1)

C3 (IMELE.EQ.1)

D3 (ITWFX.EQ.1)

E3 (IANN.EQ.1)

Figure 5.4.1-9

Page (5 of 6)

F3 (IPR.EQ.1)

G3 (IMIS.EQ.1)

H3 (IFILE.EQ.ITRSP+IMELE+ITWFX+IANN+IPR+IMIS)

J3

K3

A4

B4 SRCH$$(K$RDWR+K$NDAM,'TRAN',6,2,1,IC)

C4 SRCH$$(K$RDWR+K$NDAM,'MEMO',6,7,1,IC)

D4 SRCH$$(K$RDWR+K$NDAM,'TWFX',6,8,1,IC)

E4 SRCH$$(K$RDWR+K$NDAM,'ANN',6,9,1,IC)

F4 SRCH$$(K$RDWR+K$NDAM,'PR',6,10,1,IC)

G4 SRCH$$(K$RDWR+K$NDAM,'MIS',6,11,1,IC)

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.1-9 Page (6 of 6)

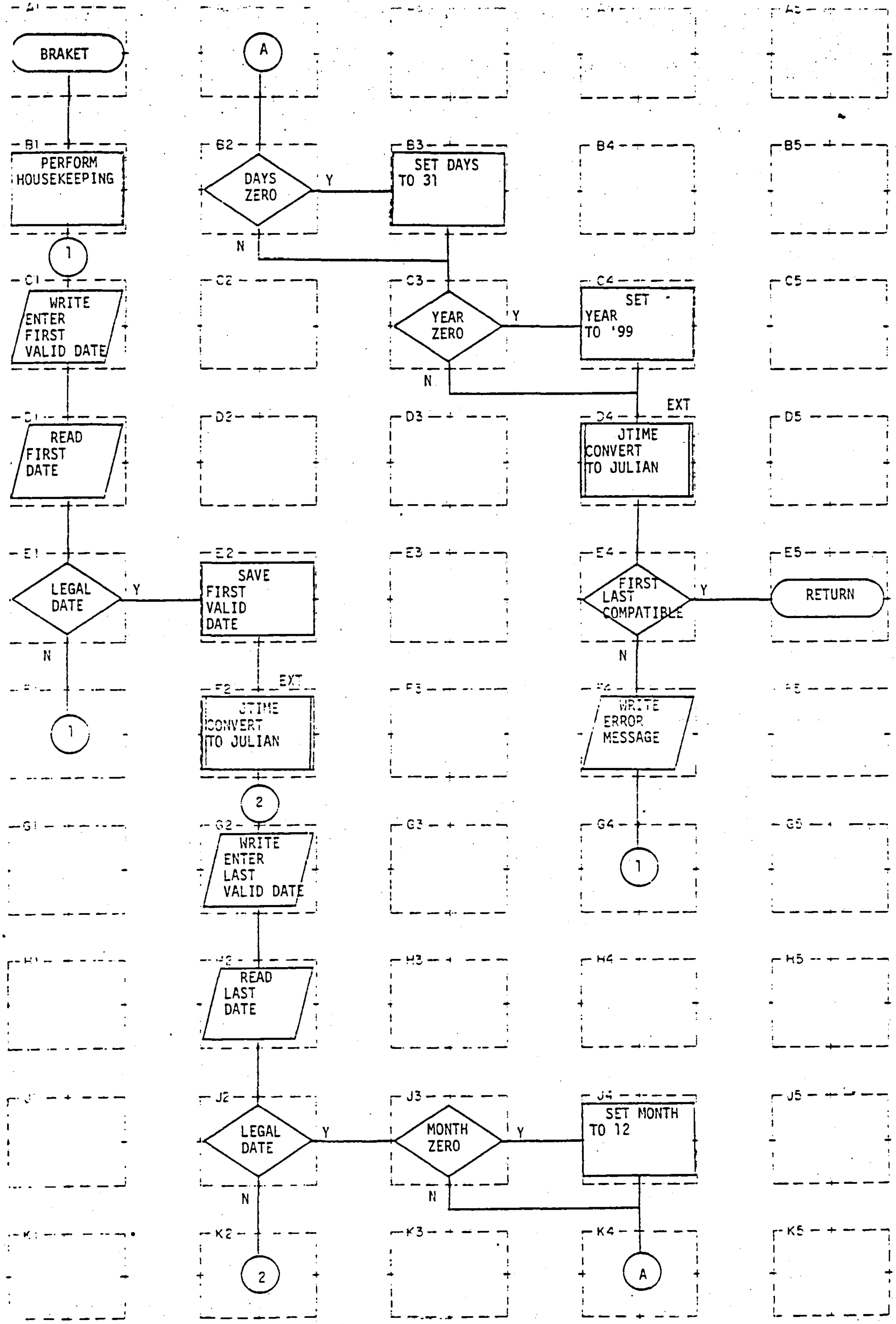


Figure 5.4.1-10

```
A1
B1    $INSERT COMMON
C1    WRITE(1,881)
D1    READ(1,882,ERR=880)FVD
E1    (FVD(1).GT.12.OR.FVD(2).GT.31)
F1
G1
H1
J1
K1
A2
B2    (LVD(2).EQ.0)
C2
D2
E2    IM=FVD(1); ID=FVD(2); IY=FVD(3)
F2    JTIME(IY,IM,ID,0,0,0,TJ); TFVD=TJ
G2    WRITE(1,884)
H2    READ(1,882,ERR=885)LVD
J2    (LVD(1).GT.12.OR.LVD(2).GT.31)
K2
A3
B3    LVD(2)=31
C3    (LVD(3).EQ.0)
D3
E3
```

Figure 5.4.1-10 Page (2 of 3)

```
F3
G3
H3
J3    (LVD(1).EQ.0)
K3
A4
B4
C4    LVD(3)=99; IM=LVD(1); ID=LVD(2); IY=LVD(3)
D4    JTIME(IY,IM,ID,0,0,0,TJ); TLVD=TJ
E4    (TLVD.GE.TFVD)
F4    WRITE(1,887)
G4
H4
J4    LVD(1)=12
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.1-10 Page (3 of 3)

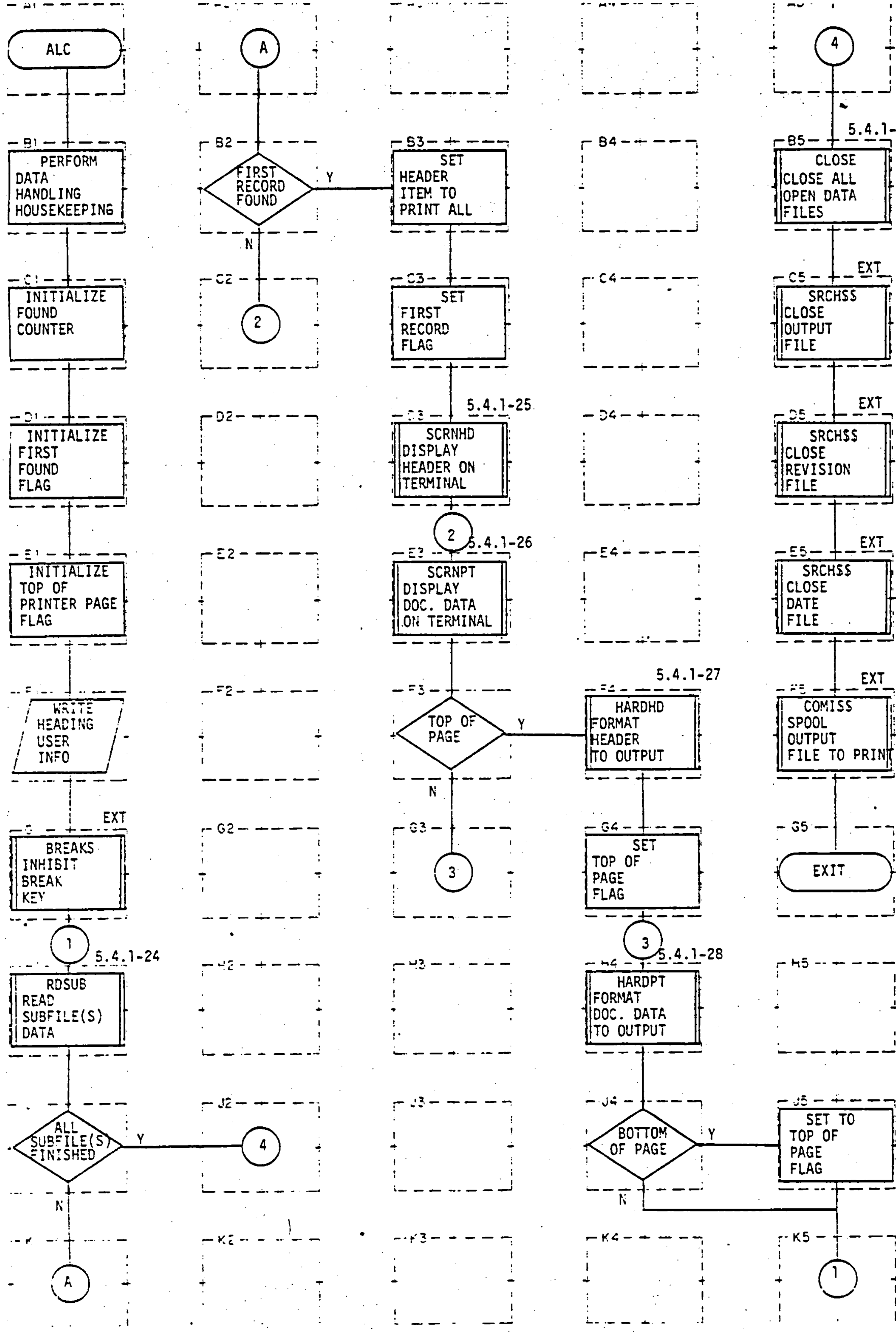


Figure 5.4.1-11

Page (1 of 3)

```
A1
B1   $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*2
C1   KNT=0
D1   IPAGE=0
E1   IPRINT=0
F1   WRITE(1,1)
G1   BREAK$(.TRUE.)
H1   RDSUB
J1   (IREAD.EQ.1)
K1
A2
B2   (IPAGE.NE.0)
C2
D2
E2
F2
G2
H2
J2
K2
A3
B3   ITEM=50
C3   IPAGE=1
D3   SCRNHD(ITEM)
E3   SCRNPT(ITEM)
```

Figure 5.4.1-11 Page (2 of 3)

F3	(IPRINT.NE.0)
G3	
H3	
J3	
K3	
A4	
B4	
C4	
D4	
E4	
F4	HARDHD(ITEM)
G4	IPRINT=1
H4	HARDPT(ITEM)
J4	(KNT/22.EQ.KNT/22.)
K4	
A5	
B5	CLOSE
C5	SRCH$$(K$CLOS,'OUT',6,0,0,0)
D5	SRCH$$(K$CLOS,'REVS',6,0,0,0)
E5	SRCH$$(K$CLOS,'DATE',6,0,0,0)
F5	COMI$$('SOUT',4,12,IC)
G5	
H5	
J5	IPRINT=0
K5	

Figure 5.4.1-11

Page (3 of 3)

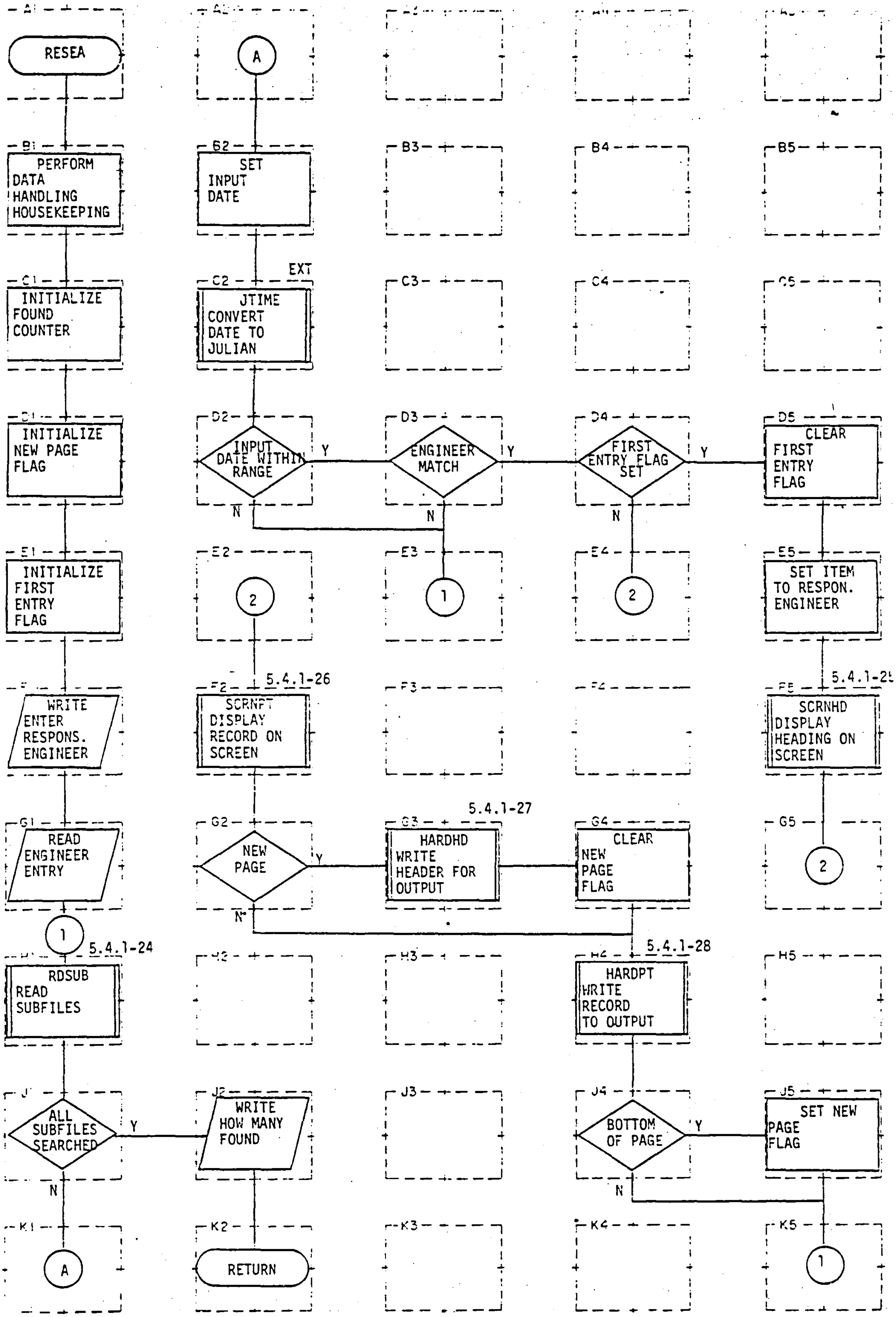


Figure 5.4.1-12

A1

B1 $INSERT COMMON; INTEGER*2

C1 KNT=0

D1 IPAGE=0

E1 IPRINT=0

F1 WRITE(1,1)

G1 READ(1,2,ERR=3)DRE

H1 RDSUB

J1 (IREAD.EQ.1)

K1

A2

B2 IM=IDD(1); ID=IDD(2); JY=IDD(3)

C2 JTIME(IY,IM,ID,0,0,0,TIM)

D2 (TFVD.LT.TIM.AND.TIM.LE.TLVD)

E2

F2 SCRNPT(ITEM)

G2 (IPRINT.NE.0)

H2

J2 WRITE(1,300); WRITE(1,250)KNT,DRE

K2

A3

B3

C3

D3 DO11J=1,3; (DRE.EQ.NRE(1,J))

E3

Figure 5.4.1-12 Page (2 of 3)

F3
G3 HARDHD(ITEM)
H3
J3
K3
A4
B4
C4
D4 (IPAGE.NE.0)
E4
F4
G4 IPRINT=1
H4 HARDPT
J4 (KNT/14.EQ.KNT/14.)
K4
A5
B5
C5
D5 ITEM=14
E5 IPAGE=1
F5 SCRNHD(ITEM)
G5
H5 IPRINT=0
J5
K5

Figure 5.4.1-12 Page (3 of 3)

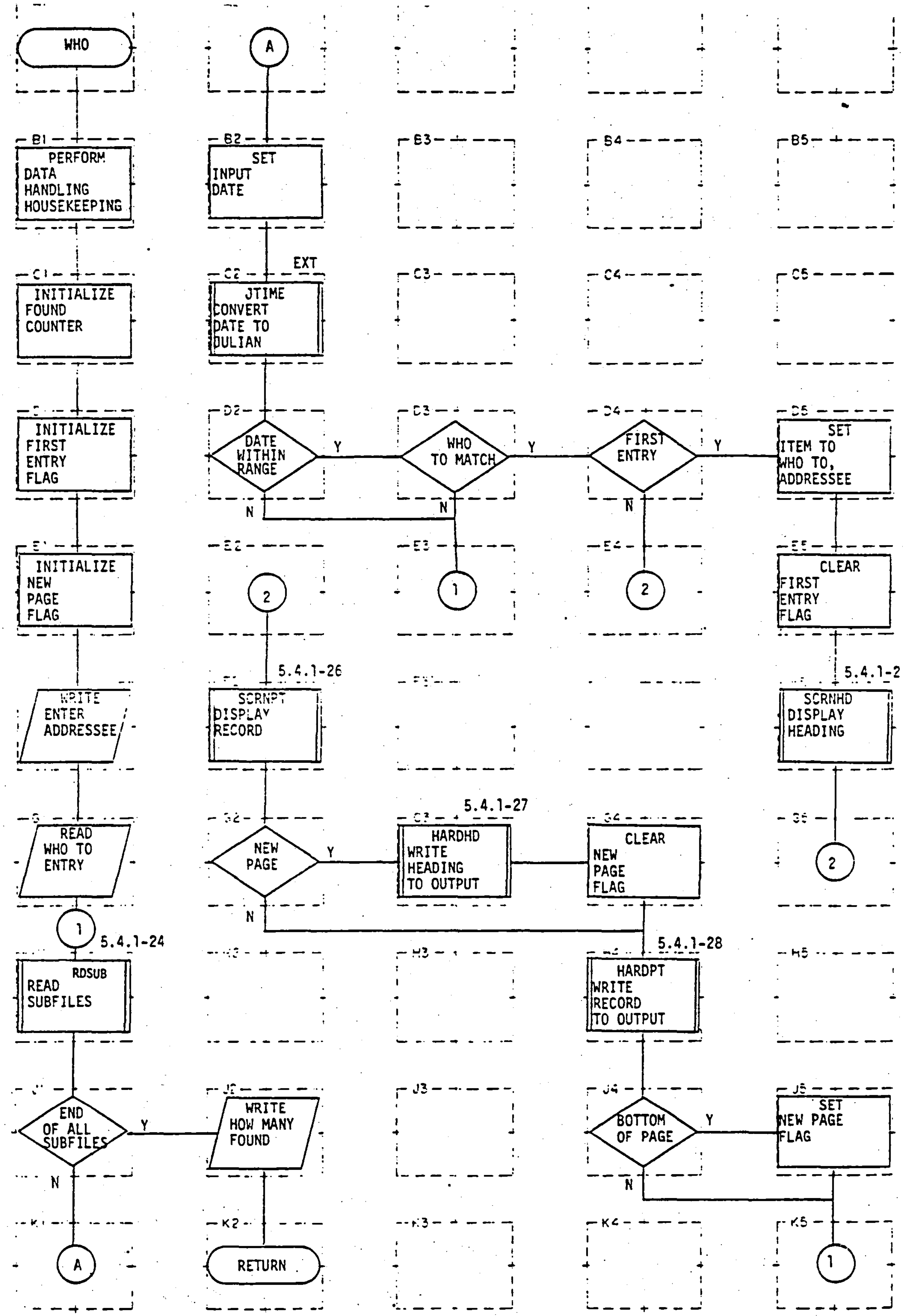


Figure 5.4.1-13

Page (1 of 3)

A1	
B1	$INSERT COMMON; INTEGER*2
C1	KNT=0
D1	IPAGE=0
E1	IPRINT=0
F1	WRITE(1,1)
G1	READ(1,2,ERR=3)DTO
H1	RDSUB
J1	(IREAD.EQ.1)
K1	
A2	
B2	IM=IDD(1); ID=IDD(2); JY=IDD(3)
C2	JTIME(IY,IM,ID,0,0,0,TIM)
D2	(TFVD.LT.TIM.AND.TIM.LE.TLVD)
E2	
F2	SCRNPT(ITEM)
G2	(IPRINT.NE.0)
H2	
J2	WRITE(1,300); WRITE(1,250) KNT,DTO
K2	
A3	
B3	
C3	
D3	DO101I=1,8; (TO(I).NE.DTO(I))
E3	

Figure 5.4.1-13 Page (2 of 3)

F3	
G3	HARDHD(ITEM)
H3	
J3	
K3	
A4	
B4	
C4	
D4	(IPAGE.NE.0)
E4	
F4	
G4	IPRINT=1
H4	HARDPT(ITEM)
J4	(KNT/14.EQ.KNT/14.)
K4	
A5	
B5	
C5	
D5	ITEM=4
E5	IPAGE=1
F5	SCRNHD(ITEM)
G5	
H5	IPRINT=0
J5	
K5	

Figure 5.4.1-13 Page (3 of 3)

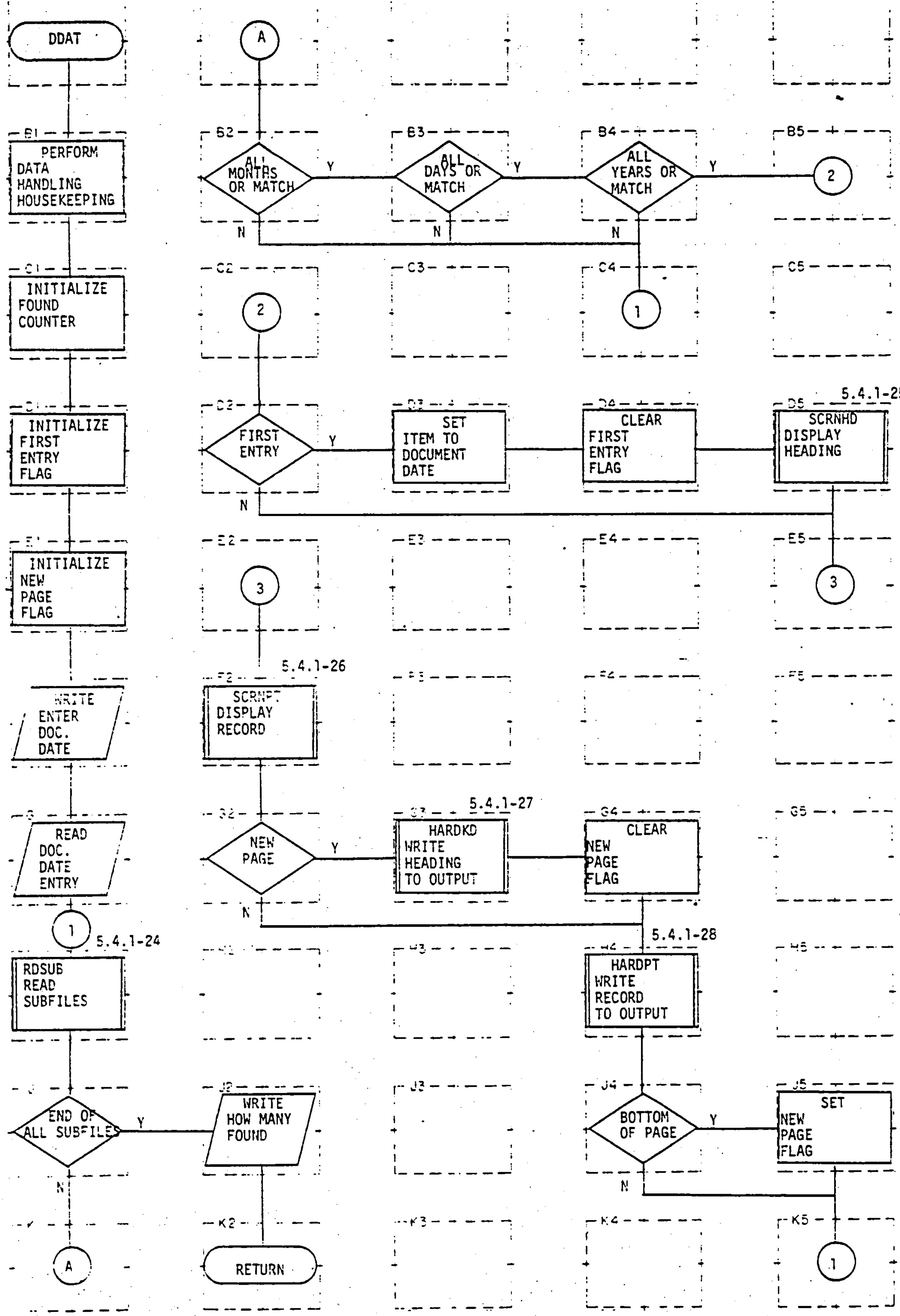


Figure 5.4.1-14

Page (1 of 3)

A1	
B1	$INSERT COMMON; INTEGER*2
C1	KNT=0
D1	IPAGE=0
E1	IPRINT=0
F1	WRITE(1,11)
G1	READ(1,22,ERR=11)DDD
H1	RDSUB
J1	(IREAD.EQ.1)
K1	
A2	
B2	(DDD(1).EQ.0.OR.DDD(1).EQ.DD(1))
C2	
D2	(IPAGE.NE.0)
E2	
F2	SCRNPT(ITEM)
G2	(IPRINT.NE.0)
H2	
J2	WRITE(1,300); WRITE(1,250)KNT,DDD
K2	
A3	
B3	(DDD(2).EQ.0.OR.DDO(2).EQ.DD(2))
C3	
D3	ITEM=3
E3	

Figure 5.4.1-14 Page (2 of 3)

F3	
G3	HARDHD(ITEM)
H3	
J3	
K3	
A4	
B4	(DDD(3).EQ.0.OR.DDD(3).EQ.DD(3))
C4	
D4	IPAGE=1
E4	
F4	
G4	IPRINT=1
H4	HARDPT(ITEM)
J4	(KNT/14.EQ.KNT/14.)
K4	
A5	
B5	
C5	
D5	SCRNHD(ITEM)
E5	
F5	
G5	
H5	IPRINT=0
J5	
K5	

Figure 5.4.1-14 Page (3 of 3)

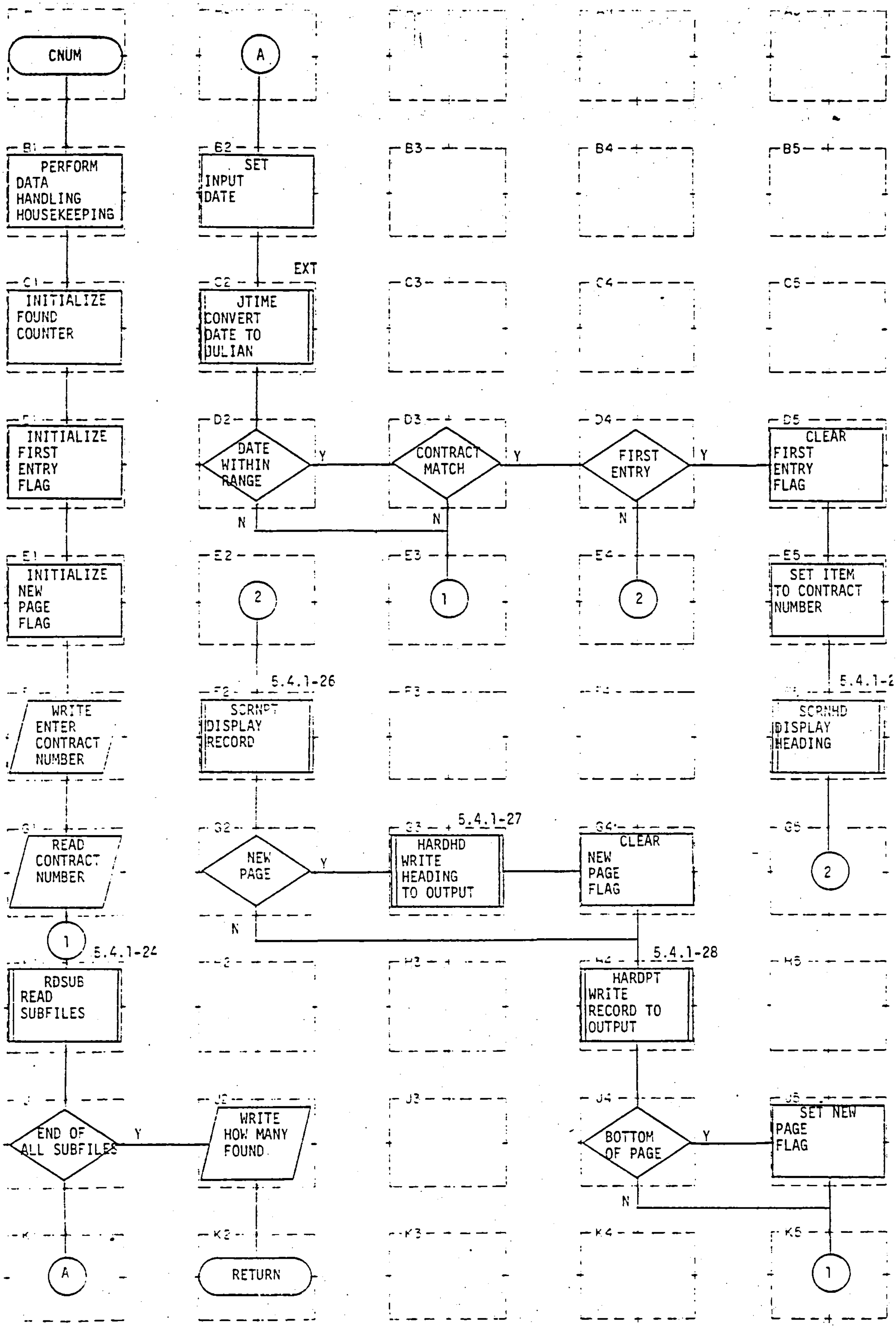


Figure 5.4.1-15

Page (1 of 3)

```
A1
B1   $INSERT COMMON; INTEGER*2
C1   KNT=0
D1   IPAGE=0
E1   IPRINT=0
F1   WRITE(1,1)
G1   READ(1,2,ERR=3)DW
H1   RDSUB
J1   (IREAD.EQ.1)
K1
A2
B2   IM=IDD(1); ID=IDD(2); IY=IDD(3)
C2   JTIME(IY,IM,ID,0,0,0,TIM)
D2   (TFVD.LT.TIM.AND.TIM.LE.TLVD)
E2
F2   SCRNPT(ITEM)
G2   (IPRINT.NE.0)
H2
J2   WRITE(1,300); WRITE(1,250)KNT,DW
K2
A3
B3
C3
D3   DO 660 I=1,5;   (DW(I).NE.CONT(I))
E3
```

Figure 5.4.1-15 Page (2 of 3)

F3	
G3	HARDHD(ITEM)
H3	
J3	
K3	
A4	
B4	
C4	
D4	(IPAGE.NE.0)
E4	
F4	
G4	IPRINT=1
H4	HARDPT(ITEM)
J4	(KNT/14.EQ.KNT/14.)
K4	
A5	
B5	
C5	
D5	ITEM=10
E5	IPAGE=1
F5	SCRNHD(ITEM)
G5	
H5	IPRINT=0
J5	
K5	

Figure 5.4.1-15 Page (3 of 3)

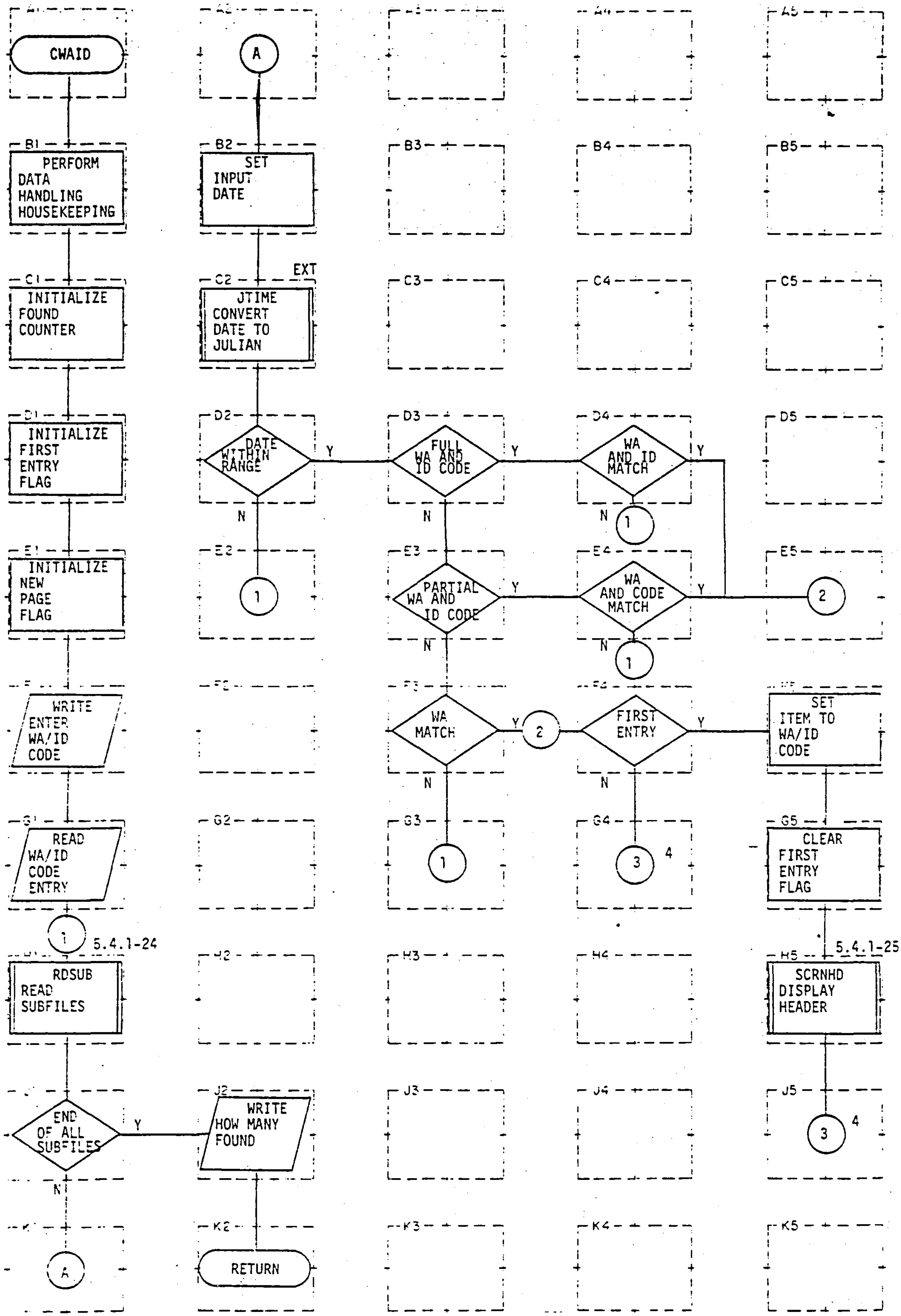


Figure 5.4.1-16

Page (1 of 6)

A1

B1 $INSERT COMMON; INTEGER*2

C1 KNT=0

D1 IPAGE=0

E1 IPRINT=0

F1 WRITE(1,1)

G1 READ(1,2,ERR=3)WA

H1 RDSUB

J1 (IREAD.EQ.1)

K1

A2

B2 IM=IDD(1); ID=IDD(2); IY=IDD(3)

C2 JTIME(IY,IM,ID,0,0,0,TIM)

D2 (TFVD.LT.TIM.AND.TIM.LE.TLVD)

E2

F2

G2

H2

J2 WRITE(1,300); WRITE(1,250) KNT,WA

K2

A3

B3

C3

D3 (WA(4).NE. ' ')

E3 (WA(3).NE. ' ')

Figure 5.4.1-16 Page (2 of 6)

```
F3   DO30I=1,2; (WA(I).NE.CWA(I))
G3
H3
J3
K3
A4
B4
C4
D4   DO10I=1,4; (WA(I).NE.(WA(I))
E4   DO50I=1,3; (WA(I).NE.CWA(I))
F4   (IPAGE.NE.0)
G4
H4
J4
K4
A5
B5
C5
D5
E5
F5   ITEM=9
G5   IPAGE=1
H5   SCRNHD(ITEM)
J5
K5
```

Figure 5.4.1-16 Page (3 of 6)

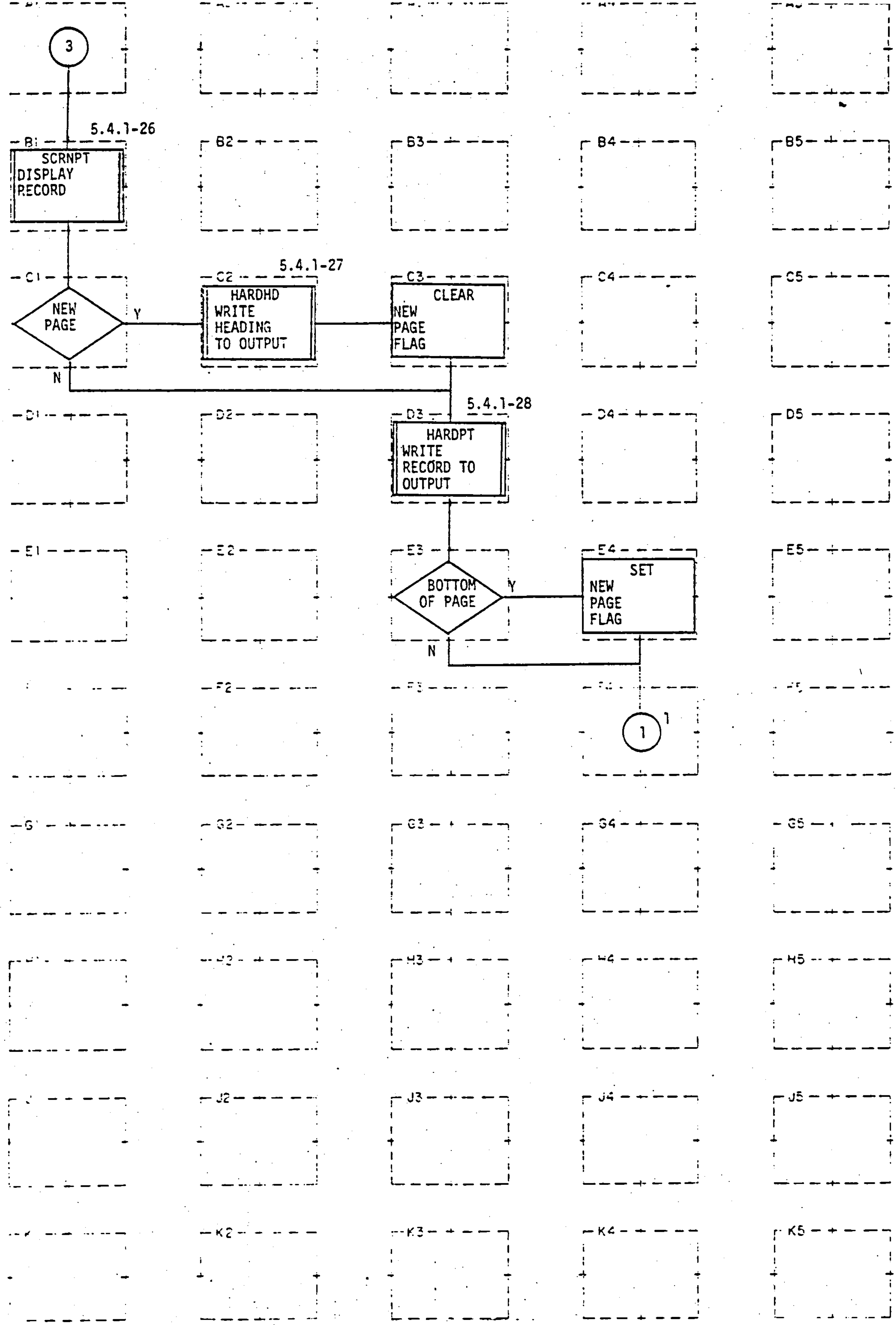


Figure 5.4.1-16

A1

B1 SCRNPT (ITEM)

C1 (IPRINT.NE.0)

D1

E1

F1

G1

H1

J1

K1

A2

B2

C2 HARDHD(ITEM)

D2

E2

F2

G2

H2

J2

K2

A3

B3

C3 IPRINT=1

D3 HARDPT (ITEM)

E3 (KNT/14.EQ.KNT/14.)

Figure 5.4.1-16 Page (5 of 6)

F3	
G3	
H3	
J3	
K3	
A4	
B4	
C4	
D4	
E4	IPRINT=0
F4	
G4	
H4	
J4	
K4	
A5	
B5	
C5	
D5	
E5	
F5	
G5	
H5	
J5	
K5	

Figure 5.4.1-16 Page (6 of 6)

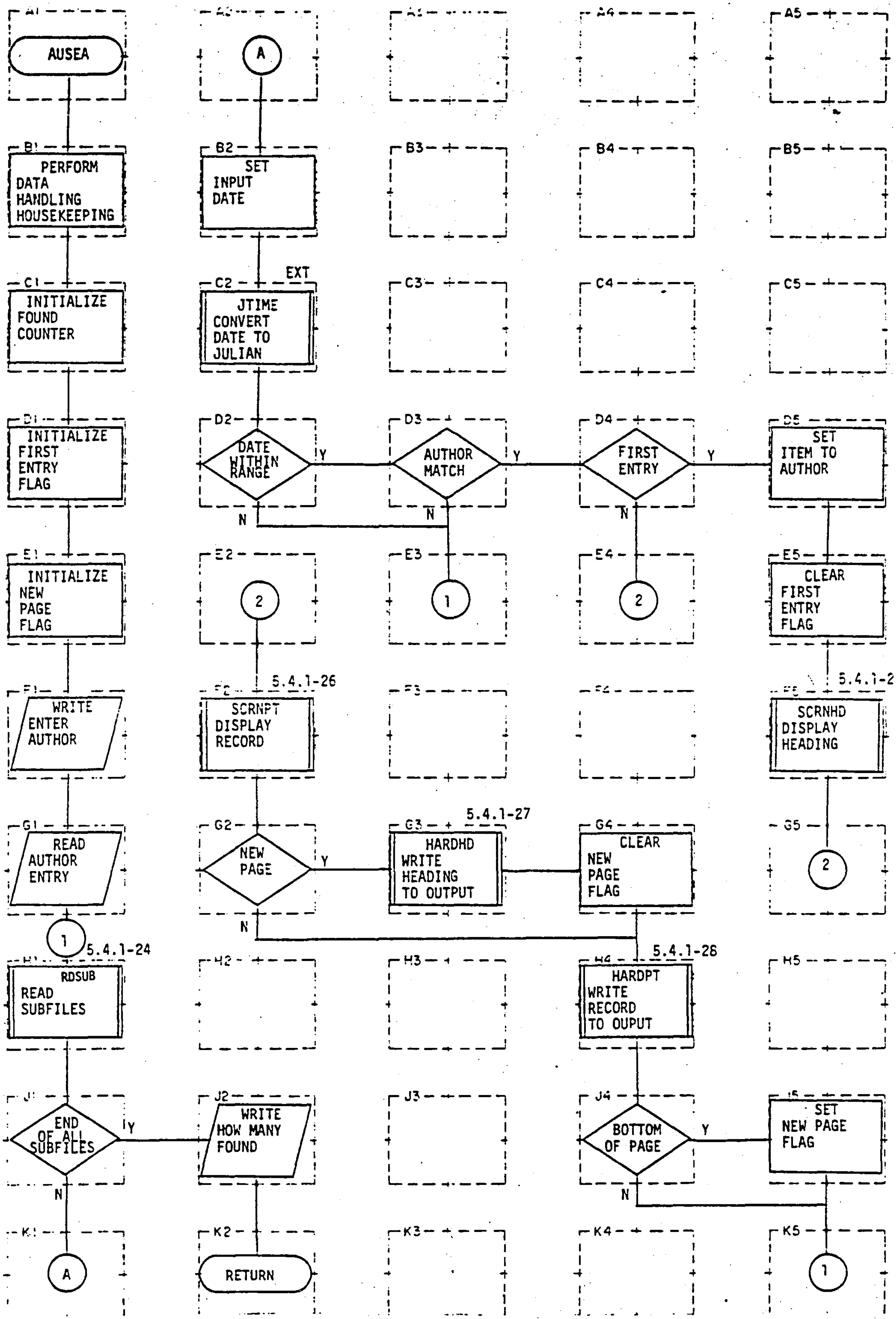


Figure 5.4.1-17

Page (1 of 3)

```
A1
B1   $INSERT COMMON; INTEGER*2
C1   KNT=0
D1   IPAGE=0
E1   IPRINT=0
F1   WRITE (1,1)
G1   READ (1,2,ERR=3) DA
H1   RDSUB
J1   (IREAD.EQ.1)
K1
A2
B2   IM=IDD(1); ID=IDD(2); IY=IDD(3)
C2   JTIME(IY,IM,ID,0,0,0,TIM)
D2   (TFVD.LT.TIM.AND.TIM.LE.TLVD)
E2
F2   SCRNPT(ITEM)
G2   (IPRINT.NE.0)
H2
J2   WRITE(1,300); WRITE(9,1250)KNT,DA
K2
A3
B3
C3
D3   DO101I=1,7; (ATHR(I).NE.DA(I))
E3
```

Figure 5.4.1-17 Page (2 of 3)

F3

G3 HARDHD(ITEM)

H3

J3

K3

A4

B4

C4

D4 (IPAGE.NE.0)

E4

F4

G4 IPRINT=1

H4 HARDPT(ITEM)

J4 (KNT/14.EQ.KNT/14.)

K4

A5

B5

C5

D5 ITEM=2

E5 IPAGE=1

F5 SCRNHD(ITEM)

G5

H5 IPRINT=0

J5

K5

Figure 5.4.1-17 Page (3 of 3)

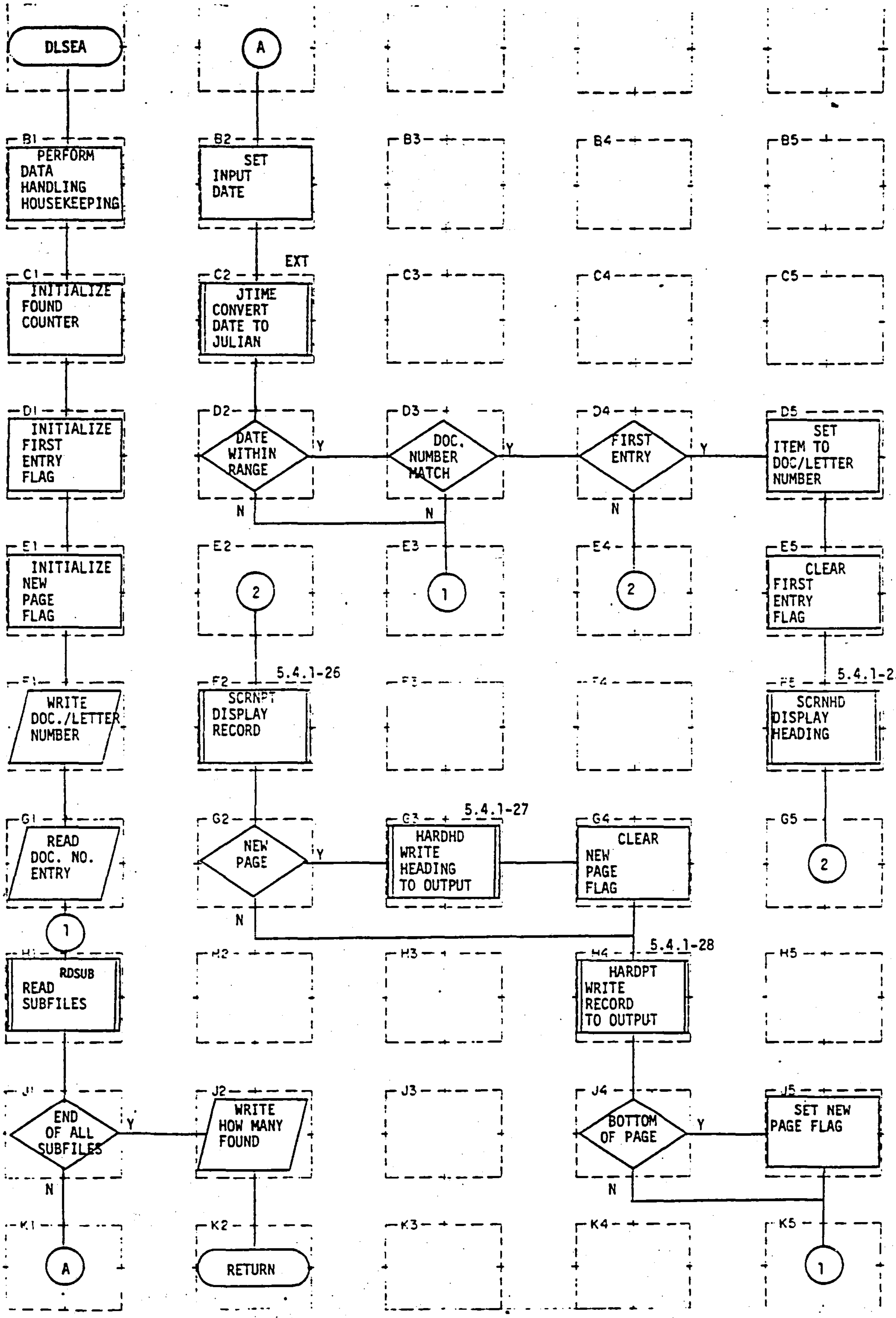


Figure 5.4.1-18

Page (1 of 3)

```
A1
B1    $INSERT COMMON; INTEGER*2
C1    KNT=0
D1    IPAGE=0
E1    IPRINT=0
F1    WRITE (1,1)
G1    READ (1,2,ERR=3)DL
H1    RDSUB
J1    (IREAD.EQ.1)
K1
A2
B2    IM=IDD(1); ID=IDD(2); IY=IDD(3)
C2    JTIME(IY,IM,ID,0,0,0,TIM)
D2    (TFVD.LT.TIM.AND.TIM.LE.TLVD)
E2
F2    SCRNPT(ITEM)
G2    (IPRINT.NE.0)
H2
J2    WRITE (1,300); WRITE (1,250) KNT,DL
K2
A3
B3
C3
D3    DO 101I=1,5; (DL(I).NE.DLN(I))
E3
```

Figure 5.4.1-18 Page (2 of 3)

F3	
G3	HARDHD(ITEM)
H3	
J3	
K3	
A4	
B4	
C4	
D4	(IPAGE.NE.0)
E4	
F4	
G4	IPRINT=1
H4	HARDPT(ITEM)
J4	(KNT/14.EQ.KNT/14.)
K4	
A5	
B5	
C5	
D5	ITEM=5
E5	IPAGE=1
F5	SCRNHD(ITEM)
G5	
H5	IPRINT=0
J5	
K5	

Figure 5.4.1-18 Page (3 of 3)

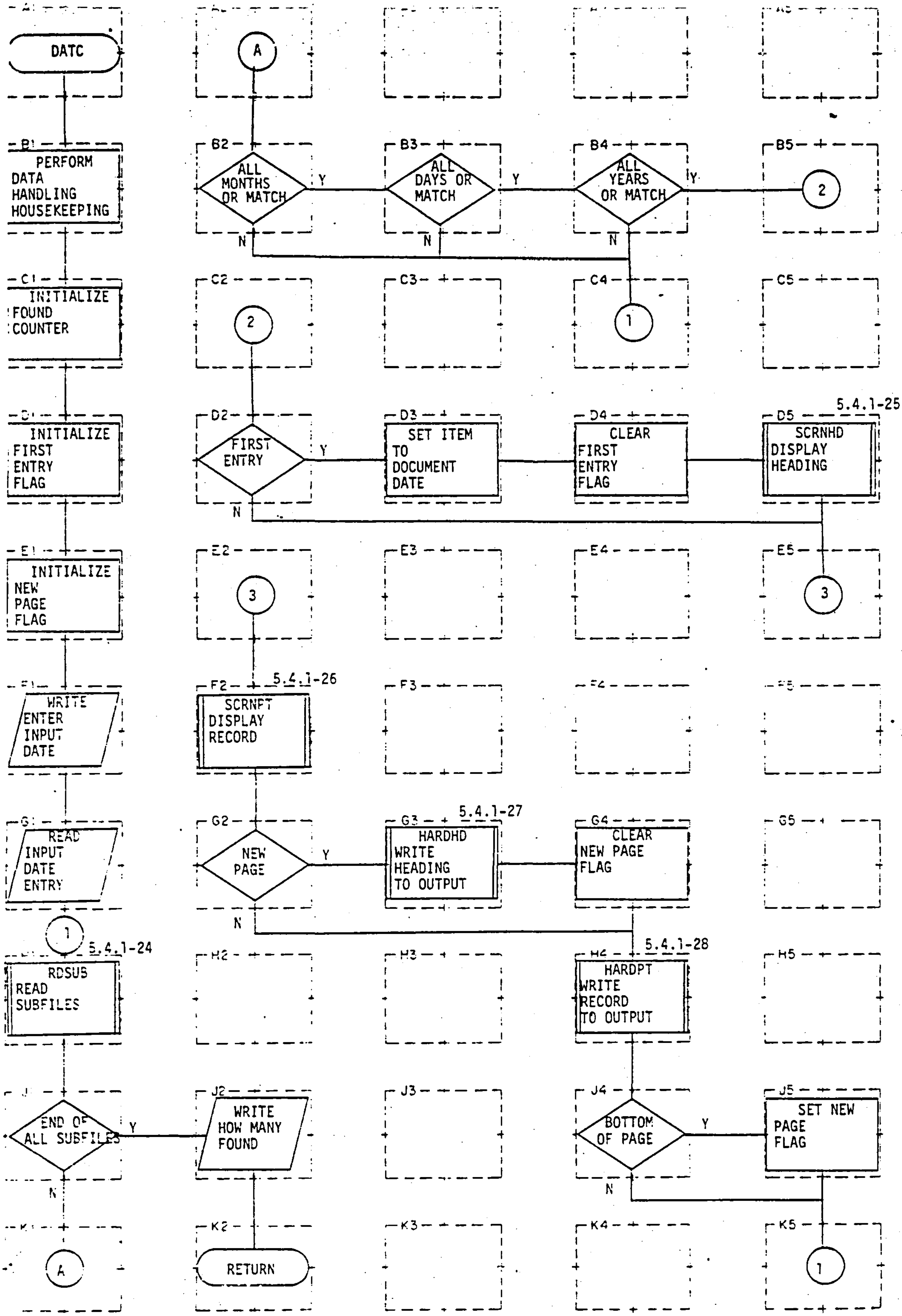


Figure 5.4.1-19

Page (1 of 3)

```
A1
B1    $INSERT COMMON; INTEGER*2
C1    KNT=0
D1    IPAGE=0
E1    IPRINT=0
F1    WRITE (1,11)
G1    READ (1,22,ERR=11) D
H1    RDSUB
J1    (IREAD.EQ.1)
K1
A2
B2    (D(1).EQ.0.OR.D(1).EQ.IDD(1))
C2
D2    (IPAGE.NE.0)
E2
F2    SCRNPT (ITEM)
G2    (IPRINT.NE.0)
H2
J2    WRITE (1,300); WRITE (1,250) KNT,D
K2
A3
B3    (D(2).EQ.0.OR.D(2).EQ.IDD(2)
C3
D3    ITEM = 8
E3
```

Figure 5.4.1-19 Page (2 of 3)

F3

G3 HARDHD(ITEM)

H3

J3

K3

A4

B4

C4

D4 IPAGE = 1

E4

F4

G4 IPRINT = 1

H4 HARDPT(ITEM)

J4 (KNT/14.EQ.KNT/14.)

K4

A5

B5

C5

D5 SCRNHD(ITEM)

E5

F5

G5

H5 IPRINT = 0

J5

K5

Figure 5.4.1-19 Page (3 of 3)

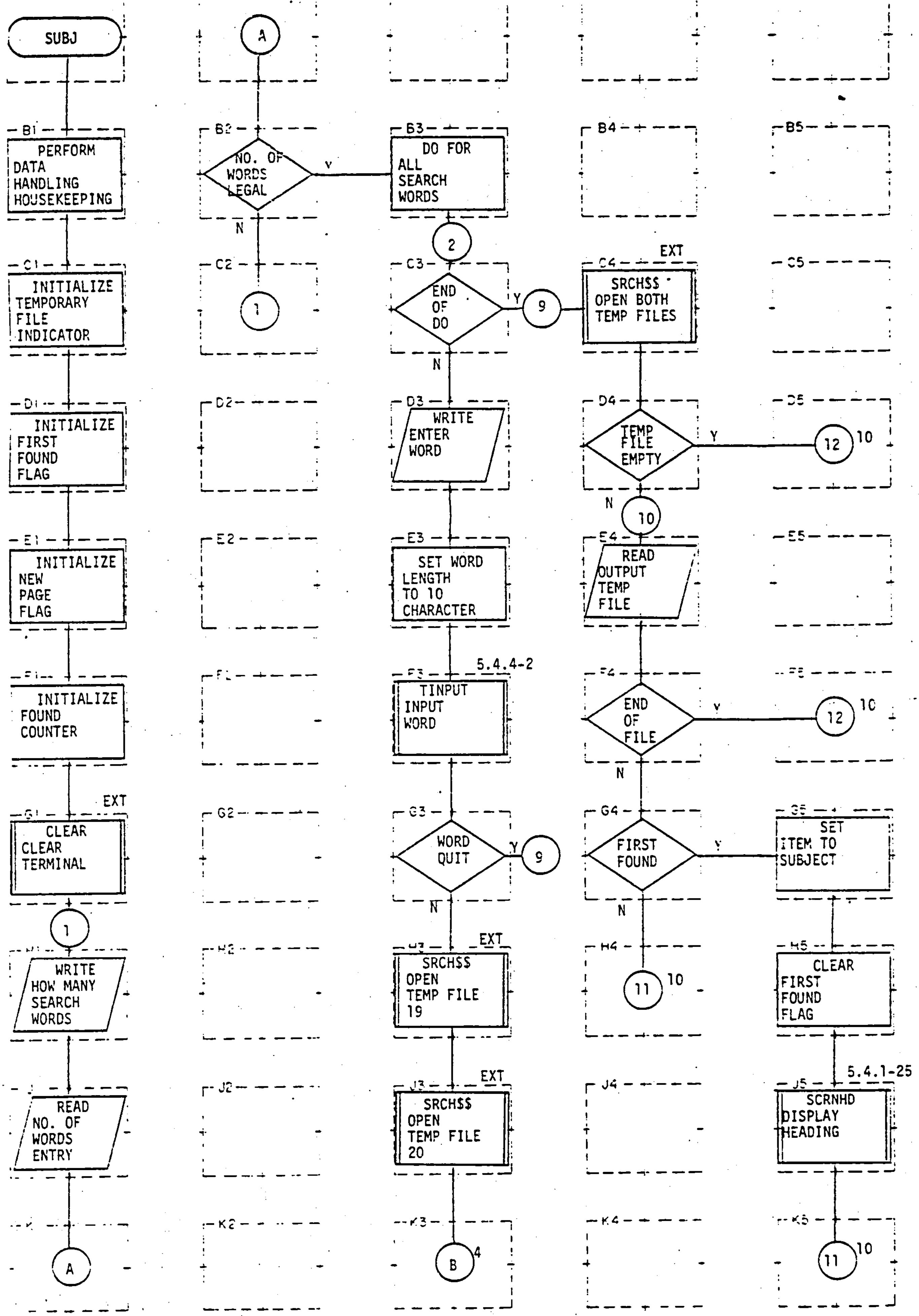


Figure 5.4.1-20

Page (1 of 12)

```
A1
B1    $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*4; *2
C1    T1 = 0
D1    IPAGE = 0
E1    IPRINT = 0
F1    KNT = 0
G1    CLEAR
H1    WRITE (1,2)
J1    READ (1,8,ERR=1001)ICON
K1
A2
B2    (ICON.LT.1); (ICON.GT.4)
C2
D2
E2
F2
G2
H2
J2
K2
A3
B3    DO 1000 LOOP = 1, ICON
C3    Performed by B3
D3    WRITE (1,1)
E3    LEN = 10
```

Figure 5.4.1-20 Page (2 of 12)

```
F3   TINPUT (IT,LEN)

G3   (IT(1).EQ.'QUIT')

H3   SRCH$$(K$RDWR+K$NDAM,'T1',2,15,1,IC)

J3   SRCH$$(K$RDWR+K$NDAM,'T2',2,16,1,IC)

K3

A4

B4

C4   SRCH$$(K$RDWR+K$NDAM,'T1',2,15,1,IC); SRCH$$(K$RDWR+K$NDAM,'T2',
     2,16,1,IC)

D4   (DOC.LT.1)

E4   READ (IO,END=1020)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,
     ADD,TWX,FSC,NRE

F4   See E4

G4   (IPAGE.NE.0)

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5   ITEM = 6

H5   IPAGE = 1

J5   SCRNHD (ITEM)

K5
```

Figure 5.4.1-20 Page (3 of 12)

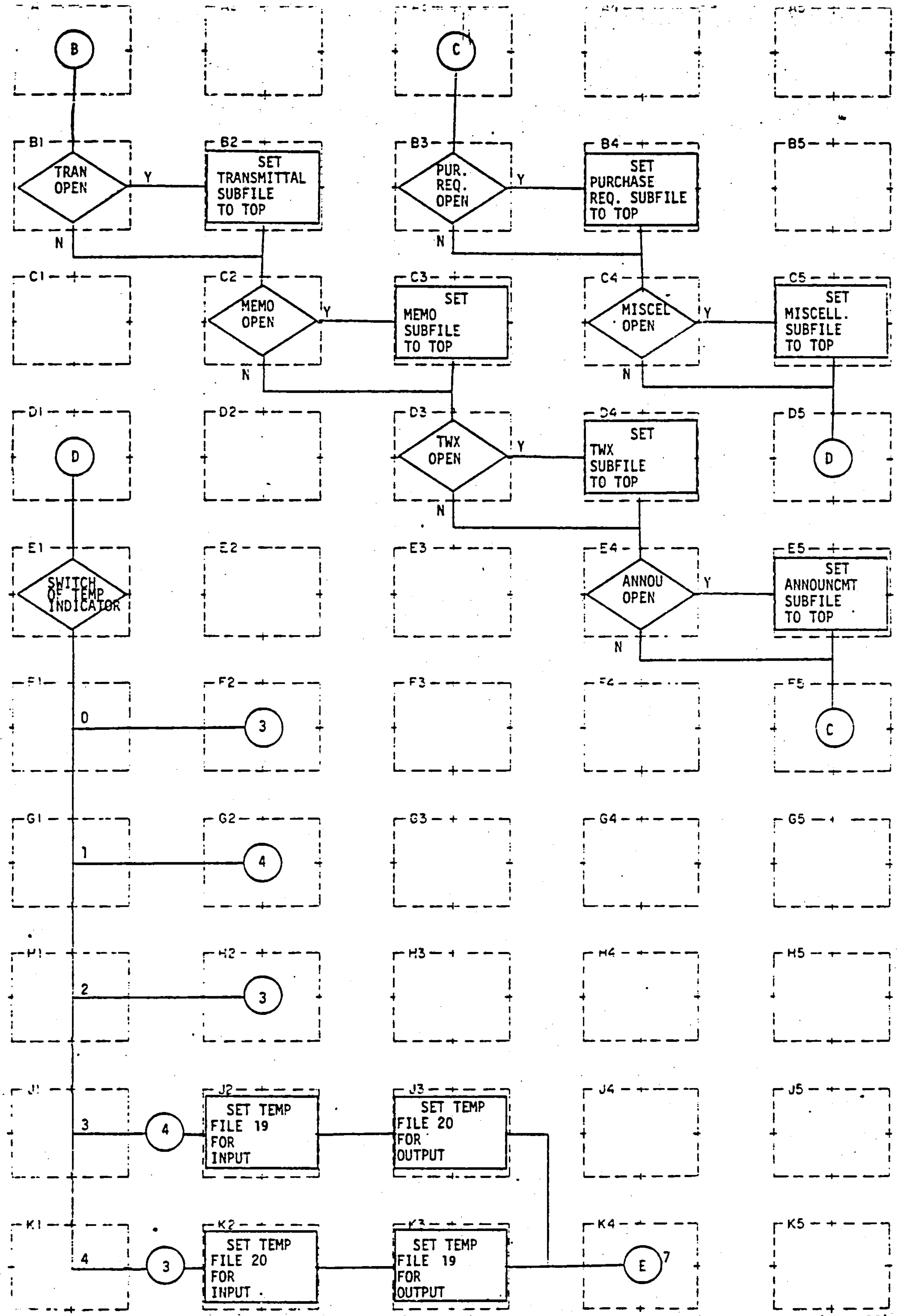


Figure 5.4.1-20

A1

B1 (ITRSP.EQ.1)

C1

D1

E1

F1 (T1.EQ.0)

G1 (T1.EQ.1)

H1 (T1.EQ.2)

J1 (T1.EQ.3)

K1 (T1.EQ.4)

A2

B2 REWIND 6

C2 (IMELE.EQ.1)

D2

E2

F2

G2

H2

J2 IN = 19

K2 IN = 20

A3

B3 (IPR.EQ.1)

C3 REWIND 11

D3 (ITWFX.EQ.1)

E3

Figure 5.4.1-20 Page (5 of 12)

F3

G3

H3

J3 ID = 20

K3 ID = 19

A4

B4 REWIND 14

C4 (IMIS.EQ.1)

D4 REWIND 12

E4 (IANN.EQ.1)

F4

G4

H4

J4

K4

A5

B5

C5 REWIND 15

D5

E5 REWIND 13

F5

G5

H5

J5

K5

Figure 5.4.1-20 Page (6 of 12)

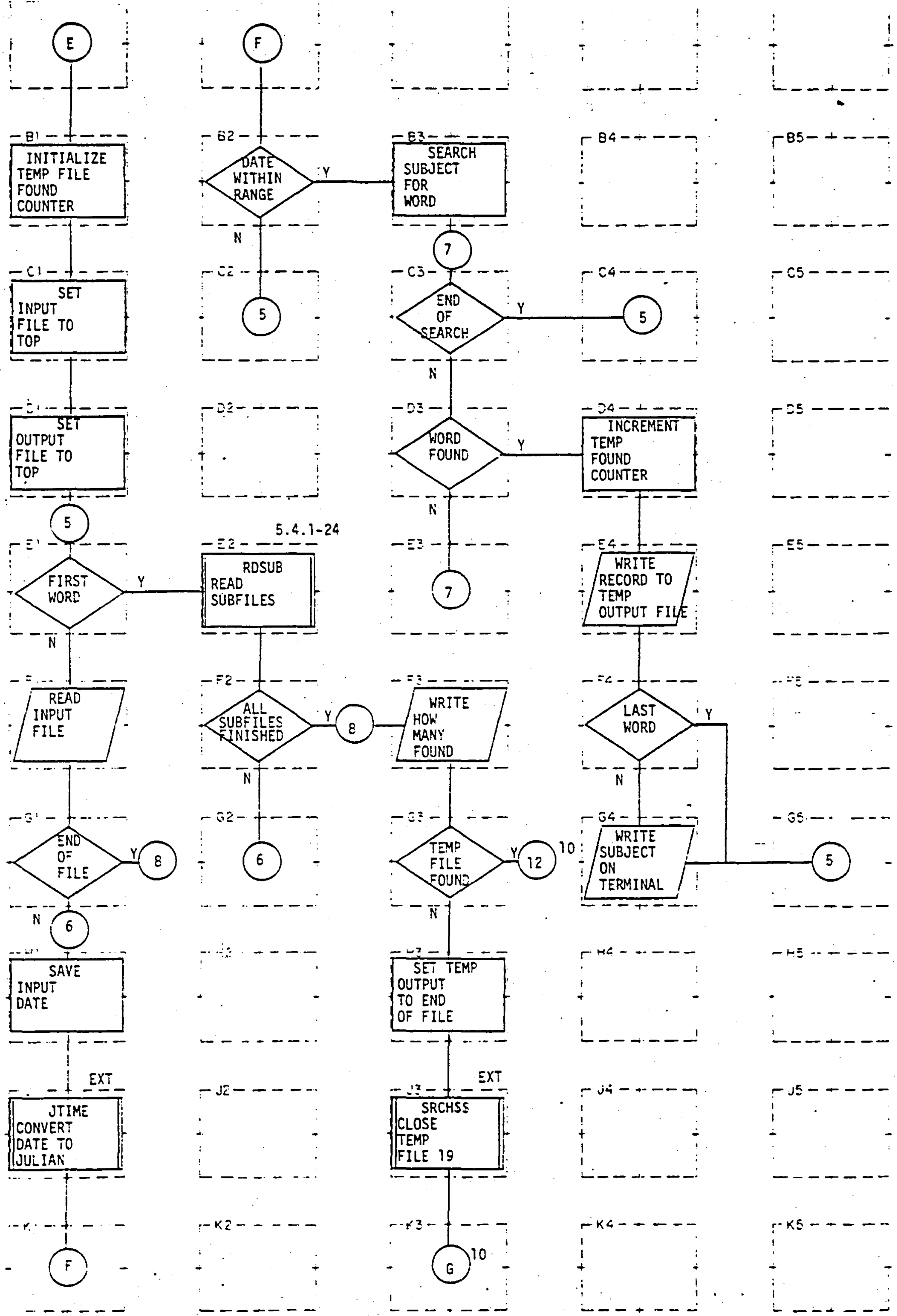


Figure 5.4.1-20

Page (7 of 12)

A1

B1 DOC = 0

C1 REWIND IN

D1 REWIND IO

EL (T1.NE.0)

F1 READ (IN,END = 100) MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,
CONT,ADD,TWX,FSC,NRE

G1 SEE F1

H1 IM = IDD(1); ID = IDD(2); IY=IDD(3)

J1 JTIME(IY,IM,ID,0,0,0,TIM)

K1

A2

B2 (TFVP.LT.TIM.AND.TIM.LE.TLVD)

C2

D2

E2 RDSUB

F2 (IREAD.EQ.1)

G2

H2

J2

K2

A3

B3 BLNK = ' '; DO3I=1,21; (SUB(I).EQ.BLNK); (SUB(I).NE.IT(1))

C3 SEE B3

D3 (SUB(I+1).EQ.BLNK); (IT(2).EQ.BLNK); (SUB(I+1).EQ.IT(2))

E3

Figure 5.4.1-20

```
F3    WRITE (1,1030) DOC,(IT(I),I = 1,3)
G3    (DOC.EQ.0)
H3    END FILE IO
J3    SRCH$$(K$CLOS,'T1',2,0,0,0)
K3
A4
B4
C4
D4    DOC = DOC+1
E4    WRITE (I)) MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CNA,CONT,ADD,TWX,
      FSC,NRE
F4    (LOOP.EQ.ICON)
G4    WRITE (1,10) SUB
H4
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.1-20 Page (9 of 12)

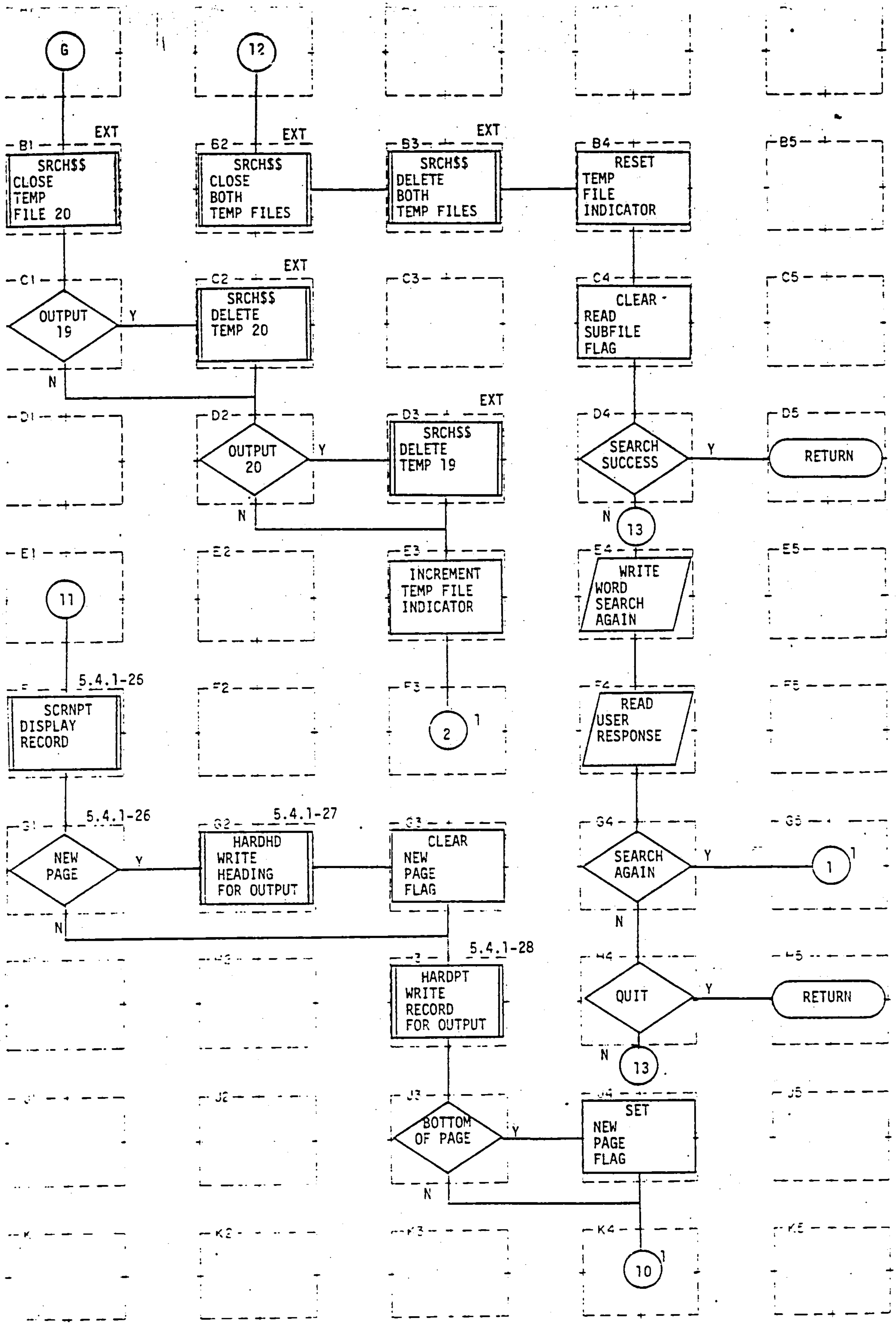


Figure 5.4.1-20

Page (10 of 12)

A1

B1 SRCH$$(K$CLOS,'T2',2,0,0,0)

C1 (IO.EQ.19)

D1

E1

F1 SCRNPT(ITEM)

G1 (IPRINT.NE.0)

H1

J1

K1

A2

B2 SRCH$$(K$CLOS,'T1',2,0,0,0); SRCH$$(K$CLOS,'T2',2,0,0,0)

C2 SRCH$$(K$DELE,'T2',2,0,0,0)

D2 (IO.EQ.20)

E2

F2

G2 HARDHD(ITEM)

H2

J2

K2

A3

B3 SRCH$$(K$DELE,'T1',2,0,0,0); SRCH$$(K$DELE,'T2',2,0,0,0)

C3

D3 SRCH$$(K$DELE,'T1',2,0,0,0)

E3 T1 = T1+1

Figure 5.4.1-20 Page (11 of 12)

```
F3
G3    IPRINT = 1
H3    HARDPT (ITEM)
J3    (KNT/14.EQ.KNT/14.)
K3
A4
B4    T1 = 0
C4    IREAD = 0
D4    (DOC.NE.0)
E4    WRITE (1,2000)
F4    READ (1,2001,ERR=1999)IOPT
G4    (IOPT.EQ.'YE')
H4    (IOPT.NE.'NO')
J4    IPRINT = 0
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.1-20 Page (12 of 12)

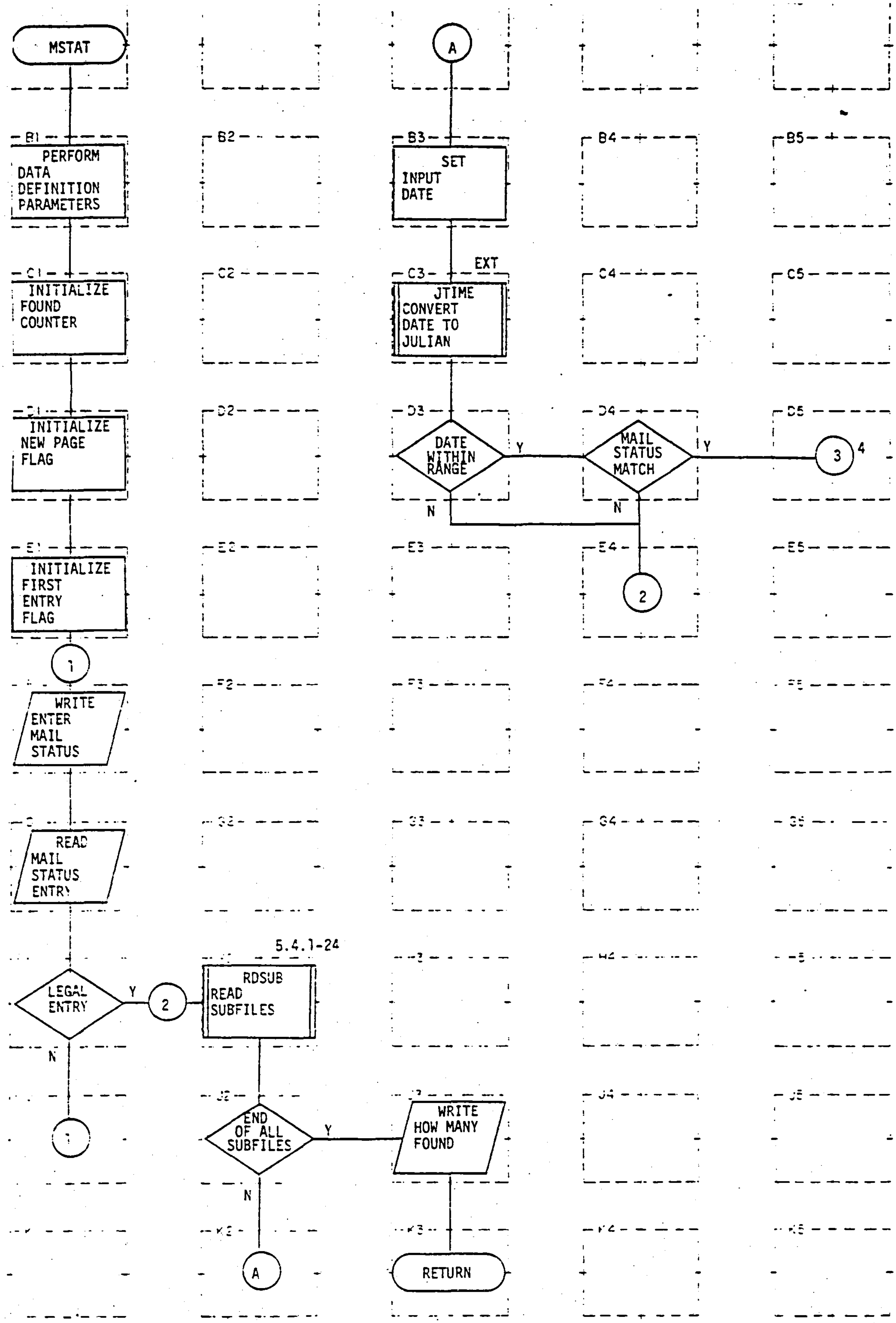


Figure 5.4.1-21

Page (1 of 6)

```
A1
B1   $INSERT COMMON; INTEGER*2
C1   KNT = 0
D1   IPRINT = 0
E1   IPAGE = 0
F1   WRITE (1,1)
G1   READ (1,3,ERR = 10) DM
H1   (DM.EQ.'IM'); (DM.EW.'OM') ; (DM.EQ.'VC'); WRITE (1,4) DM
J1
K1
A2
B2
C2
D2
E2
F2
G2
H2   RDSUB
J2   (IREAD.EQ.1)
K2
A3
B3   IM = IDD(1); ID = IDD(2); IY= IDD(3)
C3   JTIME (IY,IM,ID,0,0,0,TJUL)
D3   (TJUL.LT.TFVD); (TJUL.GT.TLVD)
E3
```

Figure 5.4.1-21 Page (2 of 6)

```
F3
G3
H3
J3   WRITE (1,300); WRITE (1,201) KNT,DM
K3
A4
B4
C4
D4   (MS.NE.DM)
E4
F4
G4
H4
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.1-21 Page (3 of 6)

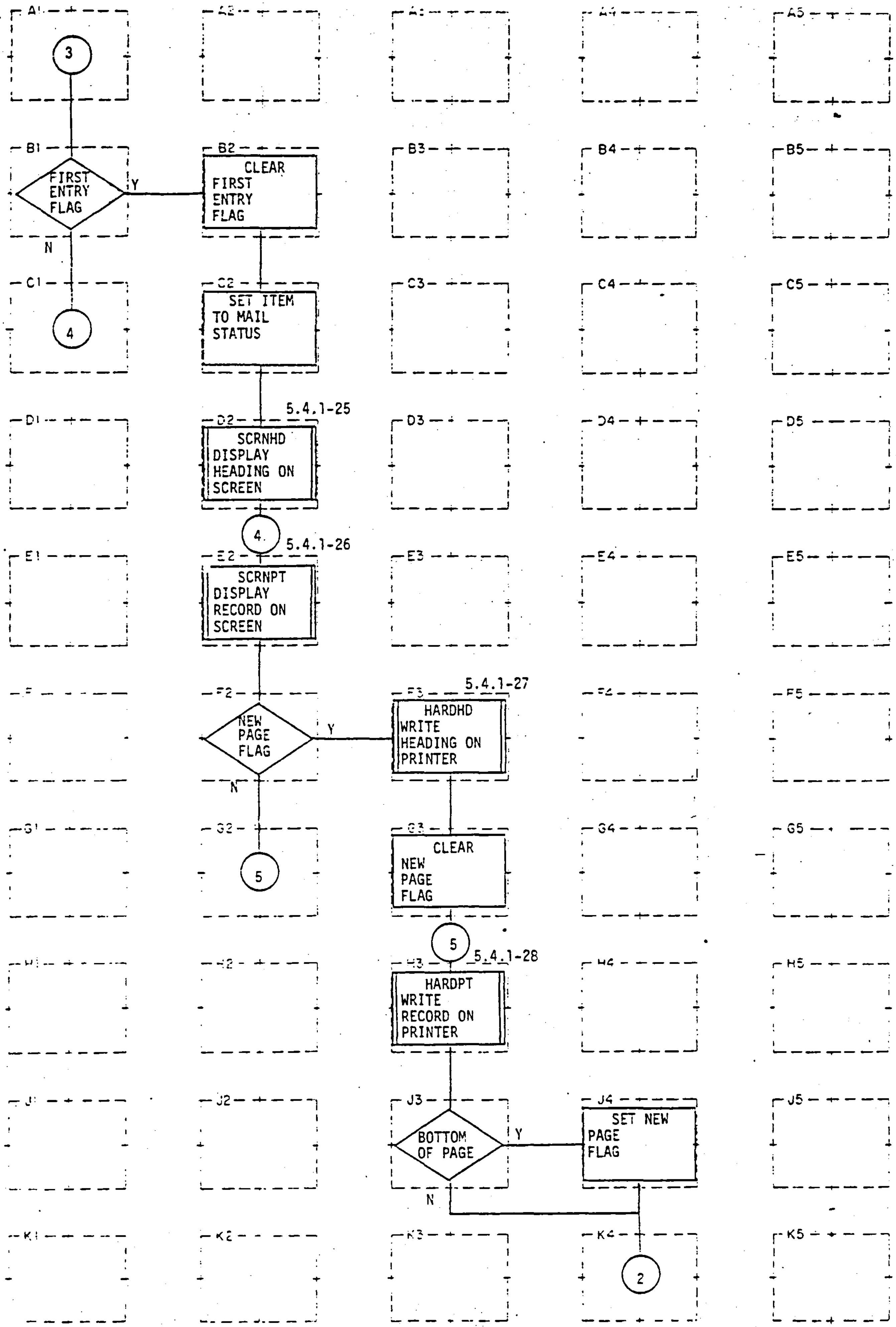


Figure 5.4.1-21

Page (4 of 6)

A1

B1 (IPAGE.NE.0)

C1

D1

E1

F1

G1

H1

J1

K1

A2

B2 IPAGE = 1

C2 ITEM = 1

D2 SCRNHD (ITEM)

E2 SCRNPT (ITEM)

F2 (IPRINT.NE.0)

G2

H2

J2

K2

A3

B3

C3

D3

E3

Figure 5.4.1-21 Page (5 of 6)

F3 HARDHD (ITEM)

G3 IPRINT = 1

H3 HARDPT (ITEM)

J3 (KNT/14.EQ.KNT/14.)

K3

A4

B4

C4

D4

E4

F4

G4

H4

J4 IPRINT = 0

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.1-21 Page (6 of 6)

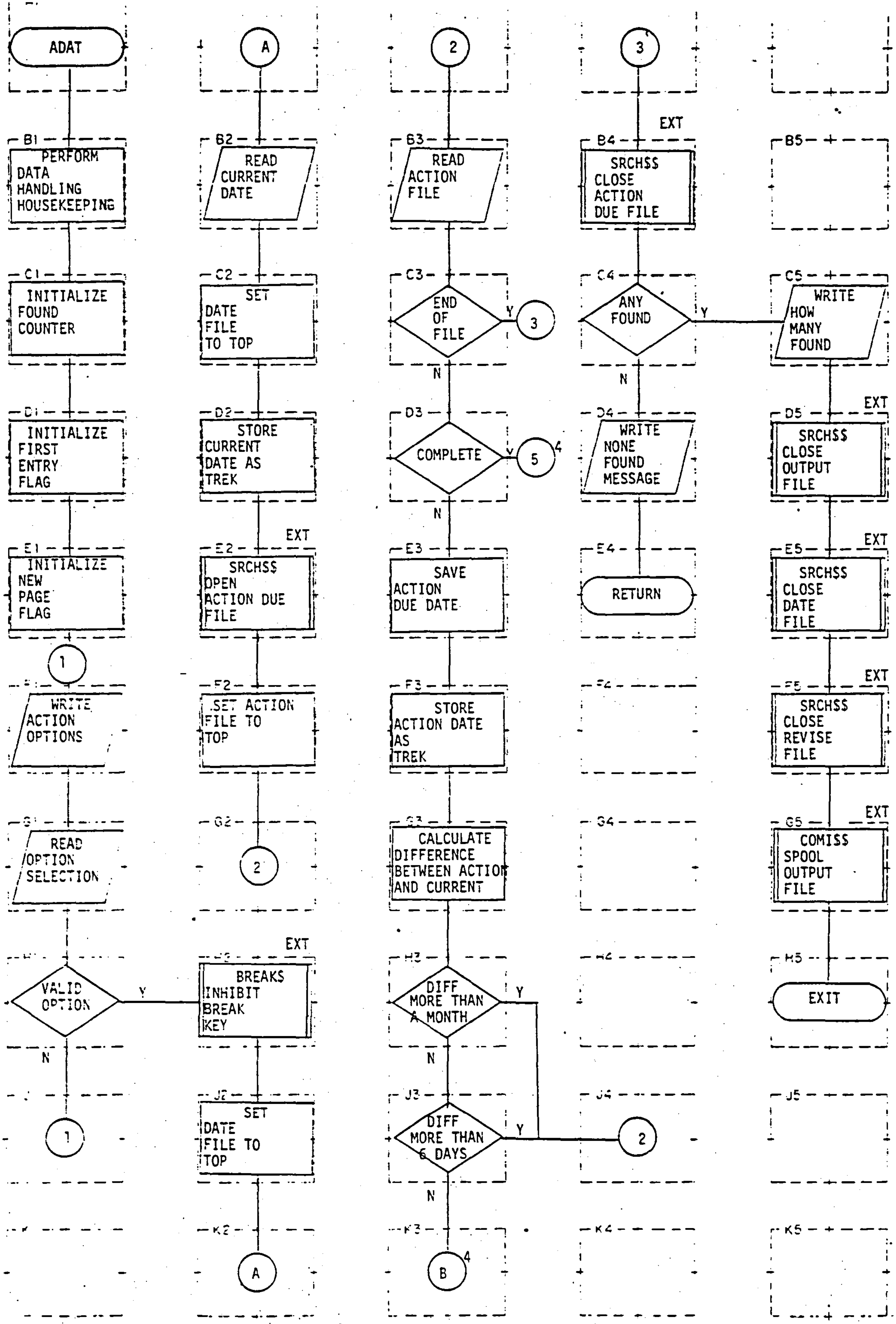


Figure 5.4.1-22

Page (1 of 6)

```
A1
B1   $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*2
C1   KNT = 0
D1   IPAGE = 0
E1   IPRINT = 0
F1   WRITE (1,1); WRITE (1,10)
G1   READ (1,15,ERR = 5) IOPT
H1   (IOPT.LE.0.OR.IOPT.GE.3)
J1
K1
A2
B2   READ (10,1111) IM,ID,IY
C2   REWIND 10
D2   ICURR(1) = IY; ICURR(2) = IM; ICURR(3) = ID
E2   SRCH$$ (K$RDWR + K$NDAM,'ACTD', 6,5, 1, IC)
F2   REWIND 9
G2
H2   BREAK$ (.TRUE.)
J2   REWIND 10
K2
A3
B3   READ (9,END = 200)ATHR,DLN,PTIT,IDD,COUNT,ADD,FSC,NRE
C3   Performed by B3
D3   (IOPT.EQ.1)
E3   IM = ADD(1); ID = ADD (2); IY = ADD (3)
```

Figure 5.4.1-22 Page (2 of 6)

```
F3  IACT(1)=IY; IACT(2)=IM; IACT(3)=ID
G3  IDIFF(1)=IACT(1)-ICURR(1); IDIFF(2)=IACT(2)-ICURR(2); IDIFF(3)=IACT(3)-ICURR(3)
H3  (IDIFF(1).GT.0.OR.IDIFF(2).GT.1)
J3  (IDIFF(1).EQ.0.AND.IDIFF(2).EQ.1.AND.IDIFF(3).GE.6)
K3
A4
B4  SRCH$$(K$CLOS,'ACTD',6,0,0,0)
C4  (KNT.EQ.0)
D4  WRITE (1,301)
E4
F4
G4
H4
J4
K4
A5
B5
C5  WRITE (1,201)KNT
D5  SRCH$$(K$CLOS,'OUT',6,0,0,0)
E5  SRCH$$(K$CLOS,'DATE',6,0,0,0)
F5  SRCH$$(K$CLOS,'REVS',6,0,0,0)
G5  COMI$$('SOUT',4,12,IC)
H5
J5
K5
```

Figure 5.4.1-22 Page (3 of 6)

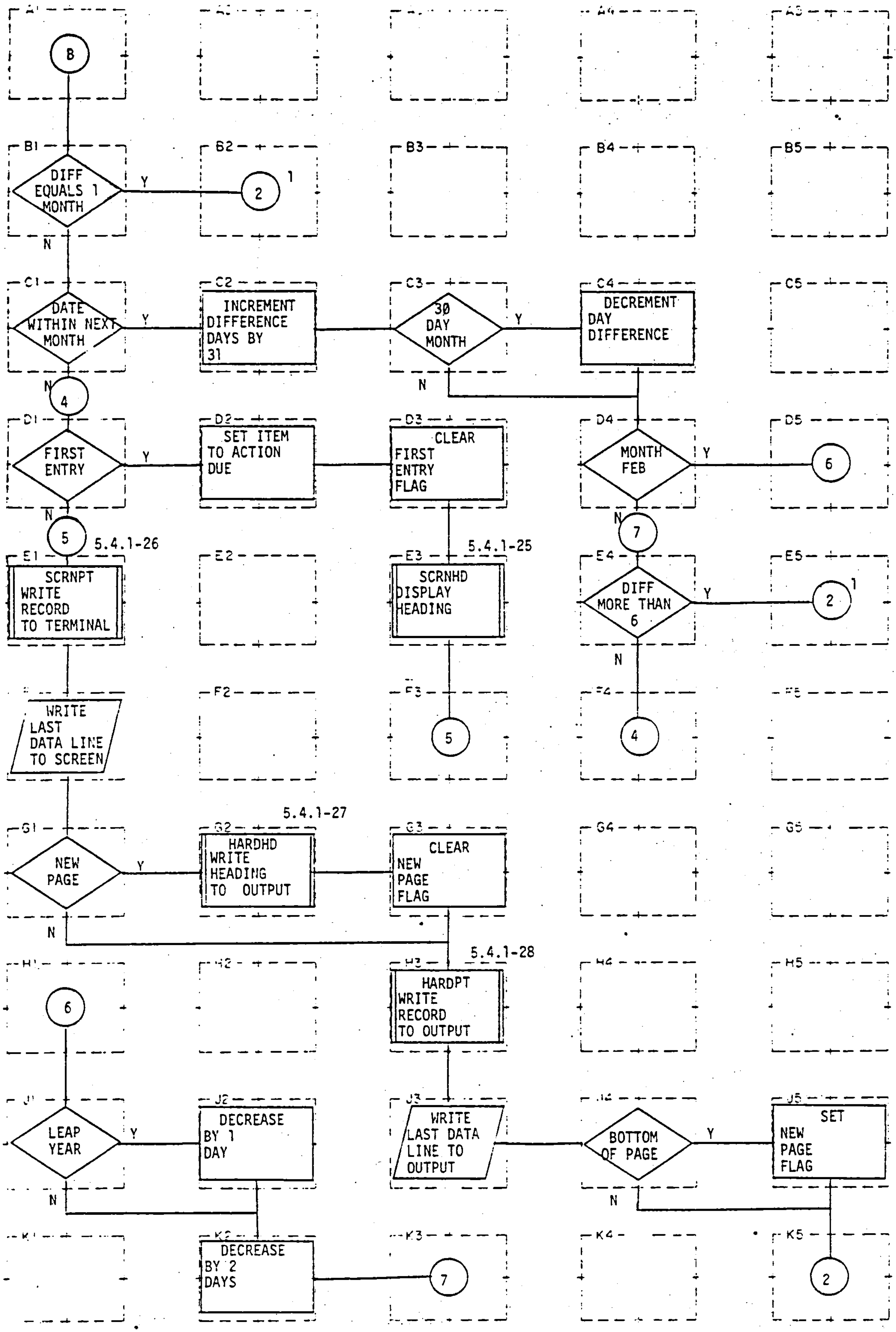


Figure 5.4.1-22

A1

B1 (IDIFF(1).EQ.o.AND.IDIFF(2).EQ.1.AND.IDIFF(3).GE.0)

C1 (IDIFF(1).EQ.0.AND.IDIFF(2).EQ.1)

D1 (IPAGE.NE.0)

E1 SCRNPT (ITEM)

F1 WRITE (1,2000)ATHR,NRE,ADD

G1 (IPRINT.NE.0)

H1

J1 (ICURR(1)/4.NE.ICURR(1)/4.)

K1

A2

B2

C2 IDIFF(3) = IDIFF (3) + 31

D2 ITEM = 11

E2

F2

G2 HARDHD(ITEM)

H2

J2 IDIFF(3) = IDIFF(3)-1

K2 IDIFF(3) = IDIFF(3)-Z

A3

B3

C3 (ICURR(2).EQ.4.OR.ICURR(2).EQ.6.OR.ICURR(2).EQ.9.OR.ICURR(2).EQ.11)

D3 IPAGE = 1

E3 SCRNHD(ITEM)

Figure 5.4.1-22 Page (5 of 6)

F3

G3 IPRINT = 1

H3 HARDPT

J3 WRITE (7,2001)ATHR,NRE,ADD

K3

A4

B4

C4 IDIFF(3) = IDIFF(3)-1

D4 (ICURR(2),NE.2)

E4 (IDIFF(3).GE.6)

F4

G4

H4

J4 (KNT/14.EQ.KNT/14.)

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5 IPRINT = 0

K5

Figure 5.4.1-22 Page (6 of 6)

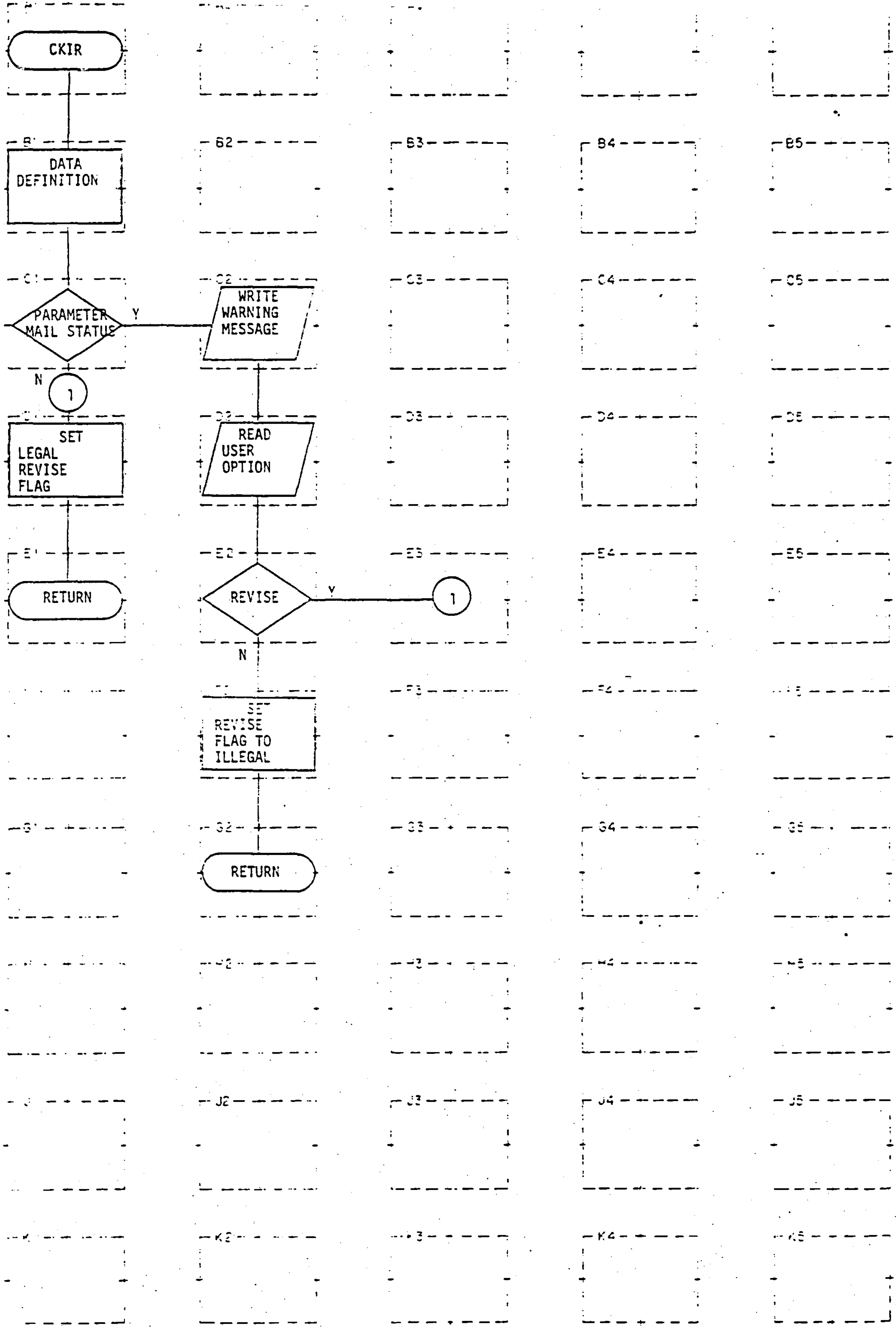


Figure 5.4.1-23

Page (1 of 2)

A1

B1 INTEGER*2

C1 (IR.EQ.1)

D1 I = 1

E1

F1

G1

H1

J1

K1

A2

B2

C2 WRITE (1,101)

D2 READ (1,10) IAN

E2 (IAN.EQ.'YE'); (IAN.NE.'NO')

F2 I = 0

G2

H2

J2

K2

A3

B3

C3

D3

E3

Figure 5.4.1-23

Page (2 of 2)

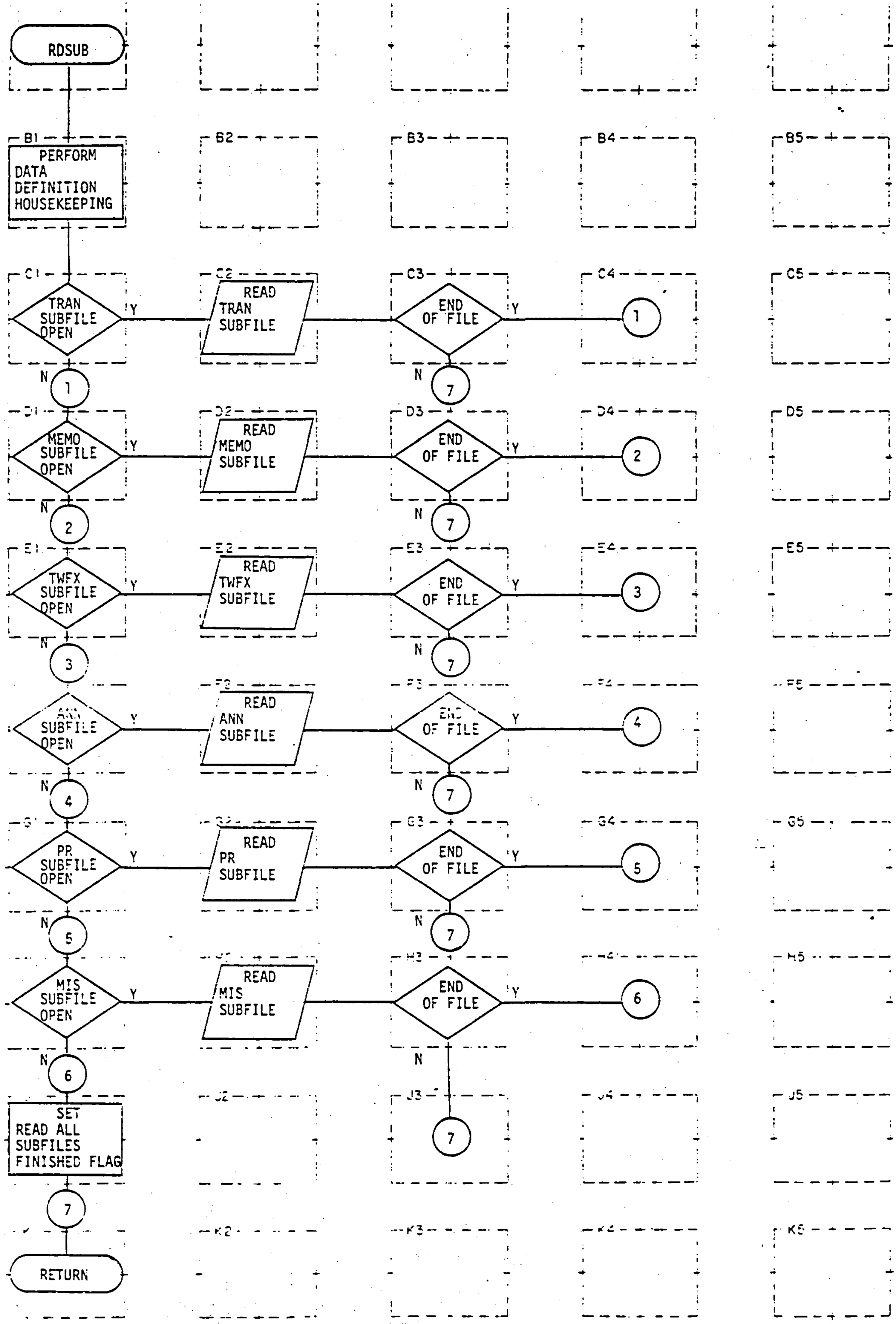


Figure 5.4.1-24

A1

B1 $INSERT COMMON

C1 (ITRSP.EQ.0)

D1 (IMELE.EQ.0)

E1 (ITWFX.EQ.0)

F1 (IANN.EQ.0)

G1 (IPR.EQ.0)

H1 (IMIS.EQ.0)

J1 IREAD = 1

K1

A2

B2

C2 READ (6,END = 100)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,
CONT,ADD,TWX,FSC,NRE,DDT

D2 READ (11,END = 200)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,
ADD,TWX,FSC,NRE

E2 READ (12,END = 300)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,
ADD,TWX,FSC,NRE

F2 READ (13,END = 400)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,
ADD,TWX,FSC,NRE

G2 READ (14,END = 500)MS,ATHR,DD,TO,DLN,SUB,PTIT,ROUT,IDD,COUNT,CWA,CONT,
ADD,TWX,FSC,NRE

J2

K2

A3

B3

C3 SEE C2

D3 SEE D2

E3 SEE E2

Figure 5.4.1-24

F3 SEE F2

G3 SEE G2

H3 SEE H2

J3

K3

A4

B4

C4

D4

E4

F4

G4

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.1-24 Page (3 of 3)

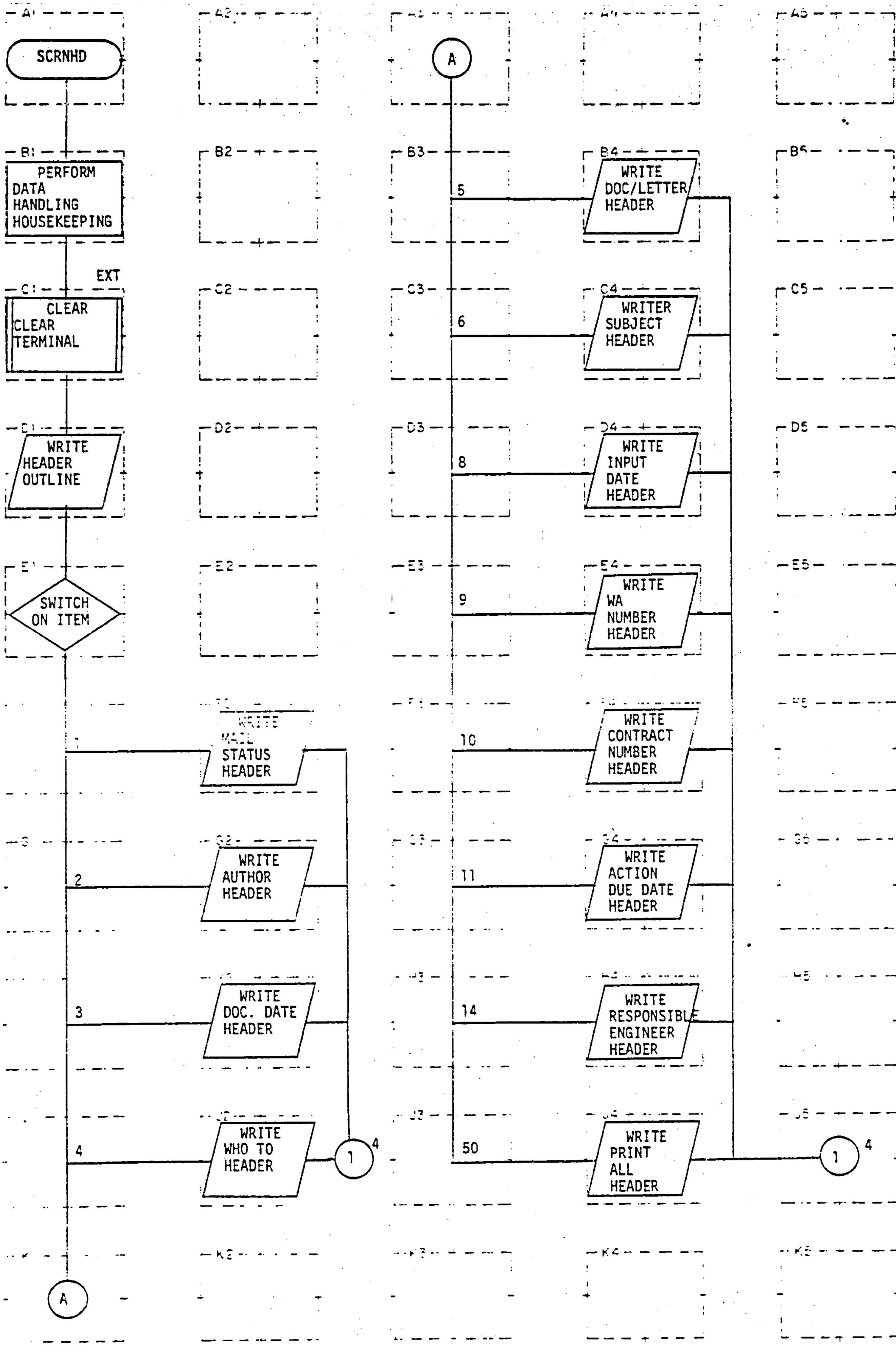


Figure 5.4.1-25

```
A1
B1  $INSERT COMMON; INTEGER*2
C1  CLEAR
D1  WRITE (1,10)
E1
F1  (ITEM.EQ.1)
G1  (ITEM.EQ.2)
H1  (ITEM.EQ.3)
J1  (ITEM.EQ.4)
K1
A2
B2
C2
D2
E2
F2  WRITE (1,20)DM
G2  WRITE (1,30)DA
H2  WRITE (1,40)DDD
J2  WRITE (1,45)DTO
K2
A3
B3  (ITEM.EQ.5)
C3  (ITEM.EQ.6)
D3  (ITEM.EQ.8)
E3  (ITEM.EQ.9)
```

Figure 5.4.1-25 Page (2 of 5)

```
F3  (ITEM.EQ.10)
G3  (ITEM.EQ.11)
H3  (ITEM.EQ.14)
J3  (ITEM.EQ.50)
K3
A4
B4  WRITE (1,50)DL
C4  WRITE (1,60) ((IEX(I,J),J=1,3),I=1,4)
D4  WRITE (1,70)D
E4  WRITE (1,80)WA
F4  WRITE (1,90)DW
G4  WRITE (1,100)
H4  WRITE (1,120)DRE
J4  WRITE (1,15)
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.1-25 Page (3 of 5)

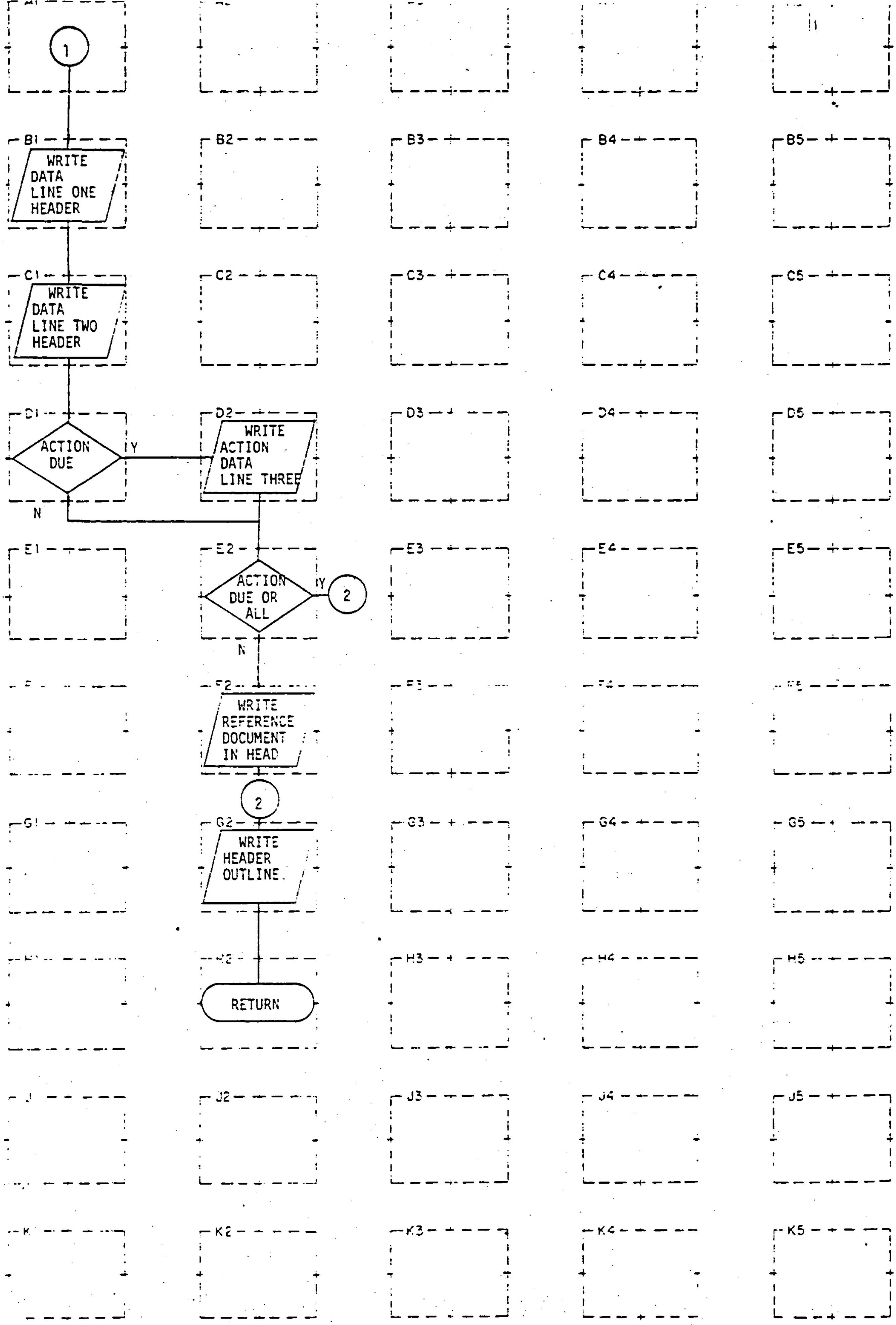


Figure 5.4.1-25

Page (4 of 5)

A1

B1 WRITE (1,125)

C1 WRITE (1,130)

D1 (ITEM.EQ.11)

E1

F1

G1

H1

J1

K1

A2

B2

C2

D2 WRITE (1,600)

E2 (ITEM.EQ.11.OR.ITEM.EQ.50)

F2 WRITE (1,625)

G2 WRITE (1,10)

H2

J2

K2

A3

B3

C3

D3

E3

Figure 5.4.1-25 Page (5 of 5)

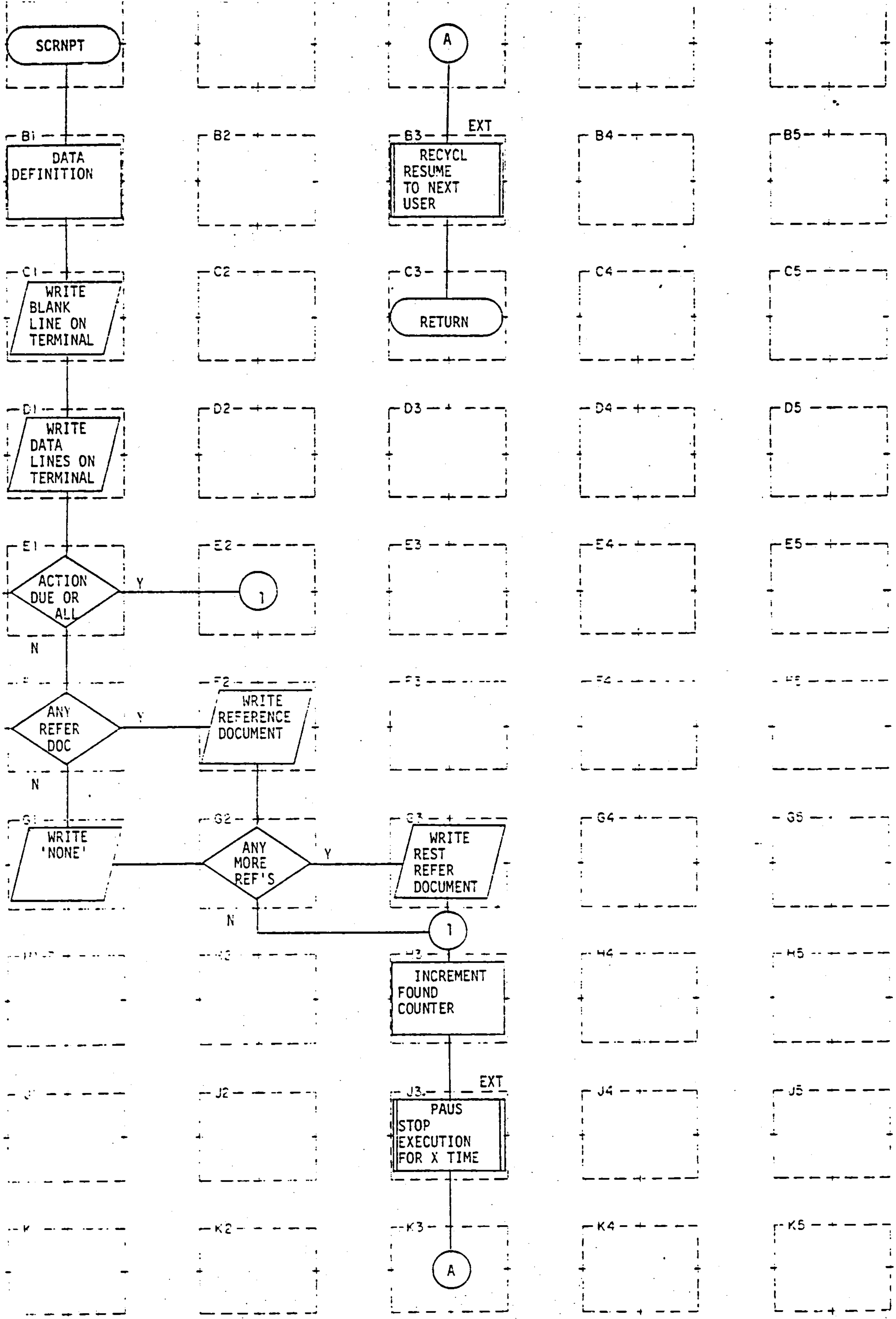


Figure 5.4.1-26

Page (1 of 3)

```
A1
B1  $INSERT COMMON
C1  WRITE (1,5)
D1  WRITE (1,10)PTIT,DLO,FSC,IDD,COUNT
E1  (ITEM.EQ.11.OR.ITEM.EQ.50)
F1  (TWX(1,1).NE.'  ')
G1  WRITE (1,172)
H1
J1
K1
A2
B2
C2
D2
E2
F2  WRITE (1,180)((TWX(I,J),J=1,5),I=1,3)
G2  (TWX(4,1).EQ.'  ')
H2
J2
K2
A3
B3  RECYCL
C3
D3
E3
```

Figure 5.4.1-26 Page (2 of 3)

```
F3
G3  WRITE 9 (1,180) ((TWX(I,J),J=1,5),I=4,6)
H3  KNT = KNT + 1
J3  PAUS
K3
A4
B4
C4
D4
E4
F4
G4
H4
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.1-26 Page (3 of 3)

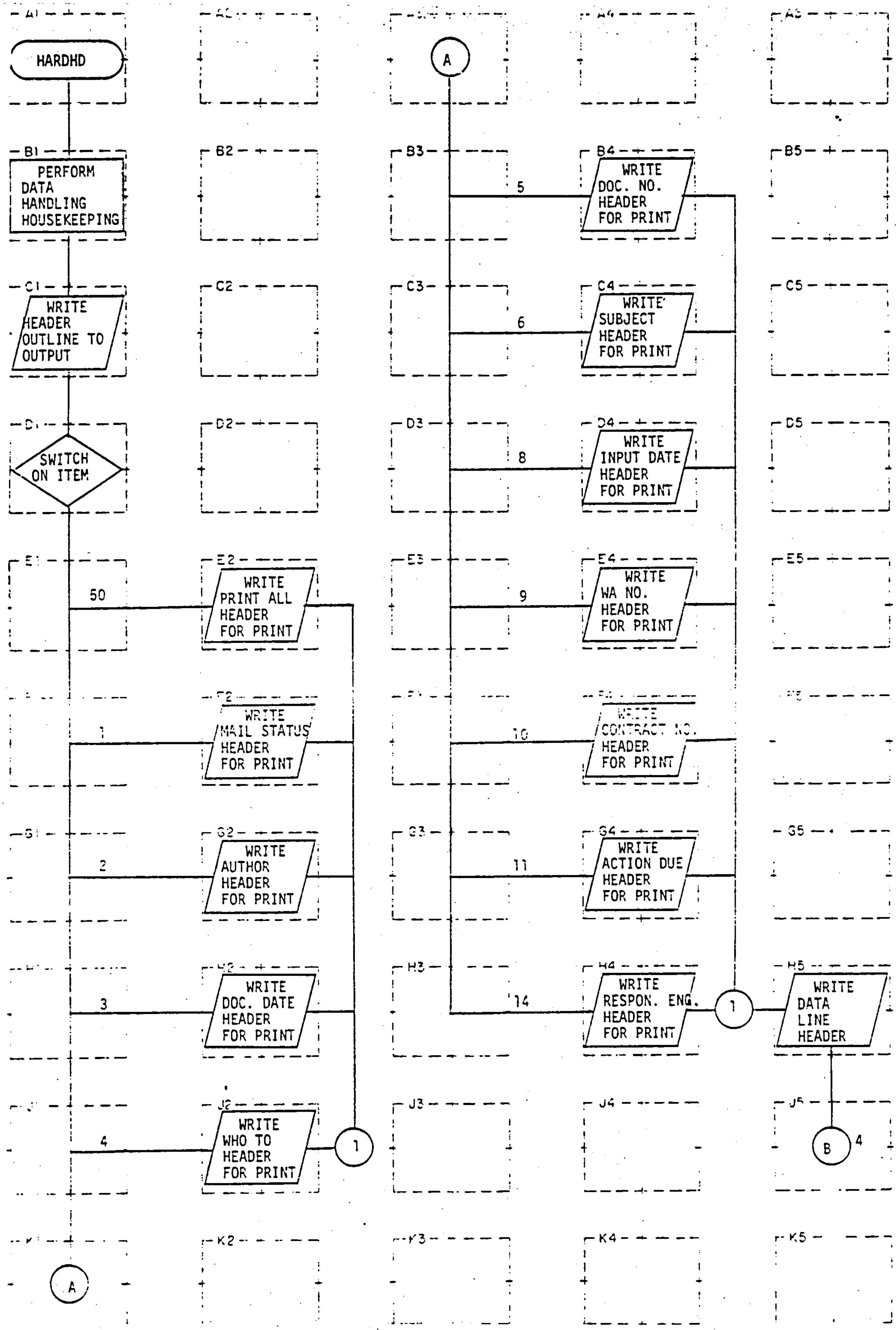


Figure 5.4.1-27

A1

B1 $INSERT COMMON; INTEGER*2

C1 WRITE (7, 10)

D1

E1 (ITEM.EQ.50)

F1 (ITEM.EQ.1)

G1 (ITEM.EQ.2)

H1 (ITEM.EQ.3)

J1 (ITEM.EQ.4)

K1

A2

B2

C2

D2

E2 WRITE (7,15)

F2 WRITE (7,20)DM

G2 WRITE (7,30)DA

H2 WRITE (7,40)DDD

J2 WRITE (7,45)DTO

K2

A3

B3 (ITEM.EQ.5)

C3 (ITEM.EQ.6)

D3 (ITEM.EQ.8)

E3 (ITEM.EQ.9)

Figure 5.4.1-27 Page (2 of 5)

F3

G3 (ITEM.EQ.10)

H3 (ITEM.EQ.11)

J3 (ITEM.EQ.14)

K3

A4

B4 WRITE (7,50)DL

C4 WRITE (7,60) (IT(I),I=1,3)

D4 WRITE (7,70)D

E4 WRITE (7,80)WA

F4 WRITE (7,90)DW

G4 WRITE (7,100)

H4 WRITE (7,120)DRE

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5 WRITE (7,130)

J5

K5

Figure 5.4.1-27 Page (3 of 5)

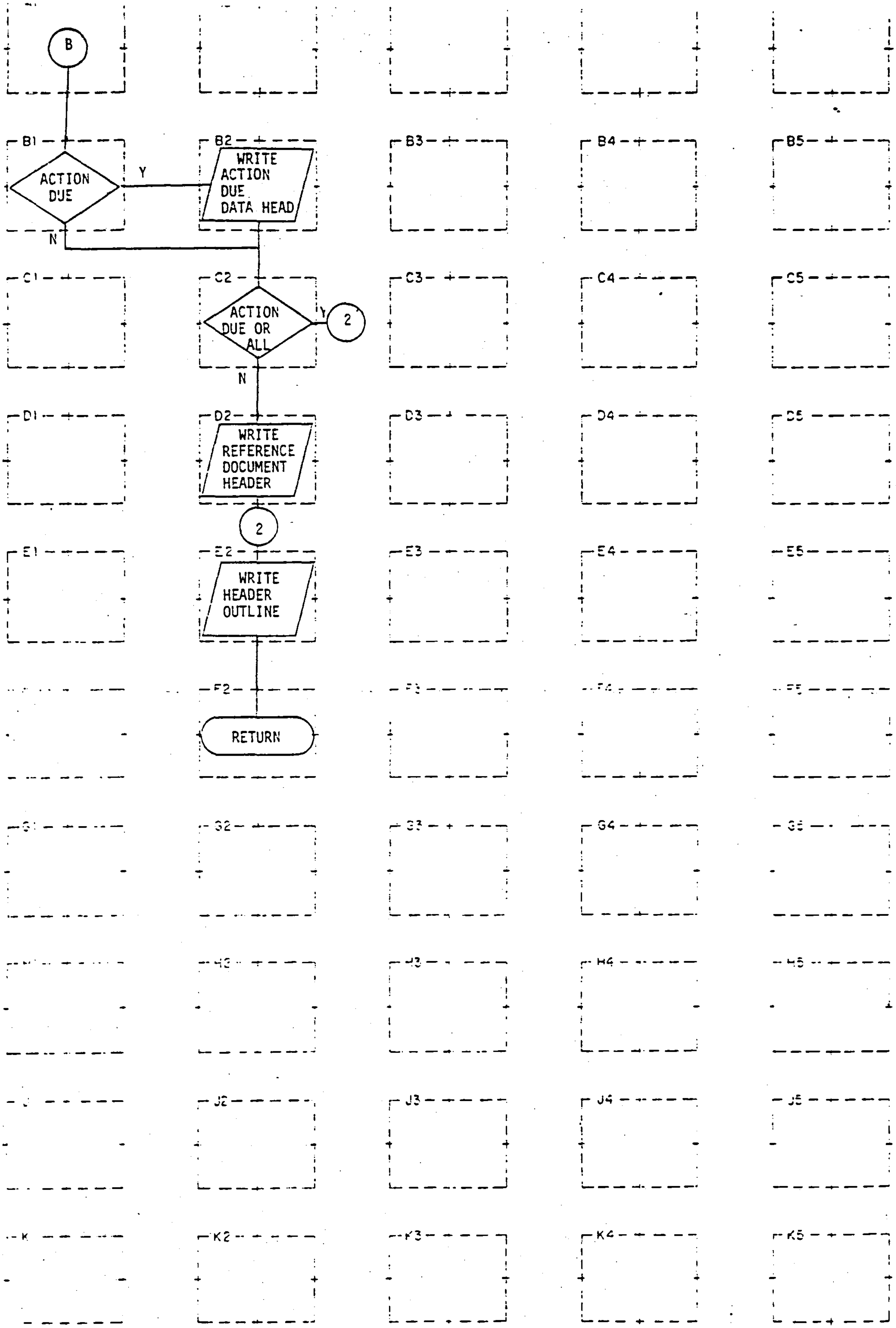


Figure 5.4.1-27

Page (4 of 5)

A1

B1 (ITEM.EQ.11)

C1

D1

E1

F1

G1

H1

J1

K1

A2

B2 WRITE (7,500)

C2 (ITEM.EQ.11.OR.ITEM.EQ.50)

D2 WRITE (7,600)

E2 WRITE (7,700)

F2

G2

H2

J2

K2

A3

B3

C3

D3

E3

Figure 5.4.1-27 Page (5 of 5)

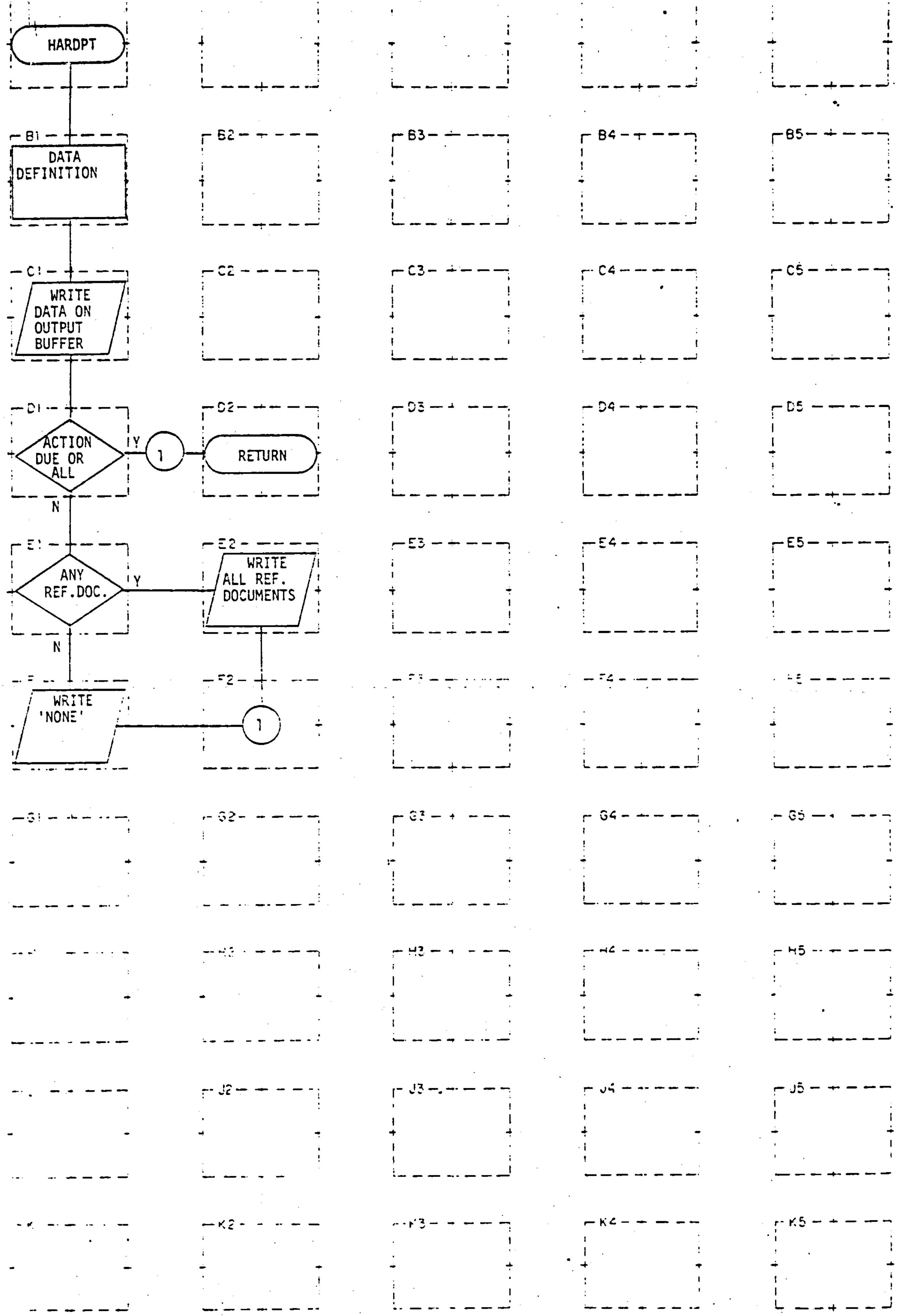


Figure 5.4.1-28

Page (1 of 2)

A1	
B1	$INSERT COMMON; INTEGER*2
C1	WRITE (7,10)KNT,PTIT,DLN,FSC,IDD,COUNT
D1	(ITEM.EQ.11.OR.ITEM.EQ.50)
E1	(TWX(1,1).NE.' ')
F1	WRITE (7,172)
G1	
H1	
J1	
K1	
A2	
B2	
C2	
D2	
E2	WRITE (7,180) ((TWX(I,J),J=1,5),I = 1,6)
F2	
G2	
H2	
J2	
K2	
A3	
B3	
C3	
D3	
E3	

Figure 5.4.1-28

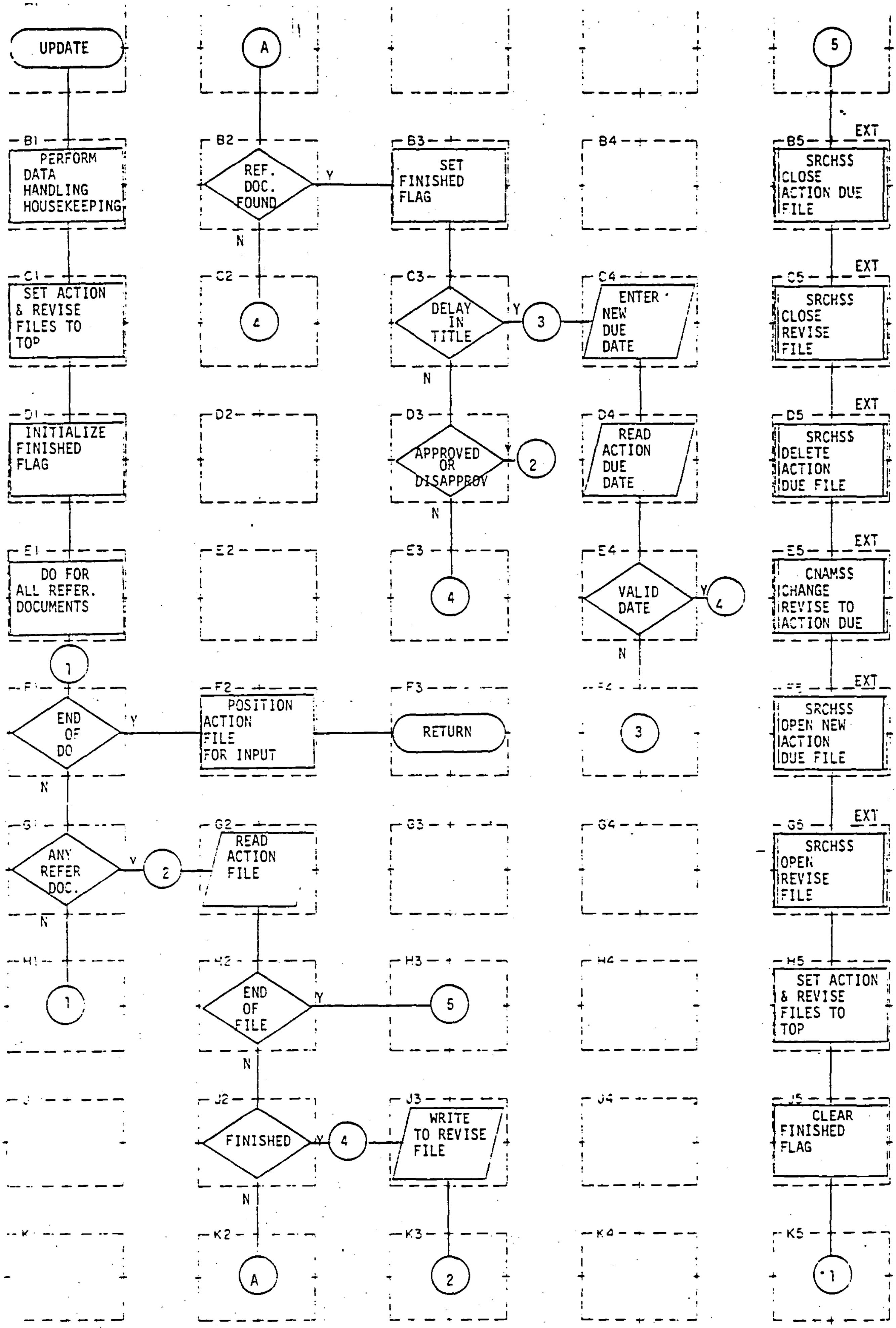


Figure 5.4.1-29

A1

B1 $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*4; *2

C1 REWIND 9; REWIND 8

D1 FINISH = 0

E1 DO 600 J = 1,6

F1 Performed by E1

G1 (TWX (J,1).EQ.' ')

H1

J1

K1

A2

B2 DO 105K = 1,5; (TWX(J,K).NE.DL(K))

C2

D2

E2

F2 READ (9,END=700)DA,DL,DPT,D,KT,DDD,DF,DE

G2 READ (9,END=300)DA,DL,DPT,D,KT,DDD,DF,DE

H2 Performed by G2

J2 (FINISH.EQ.1)

K2

A3

B3 FINISH = 1

C3 DO 150L = 1,21; (SUB(L).EQ.'DELA')

D3 DO 155L = 1,21; (SUB(L).EQ.'APPR'.OR.SUB(L).EQ.'DISA')

E3

Figure 5.4.1-29 Page (2 of 3)

F3

G3

H3

J3 WRITE (8)DA,DL,DPT,D, KT,DDD,DF,DE

K3

A4

B4

C4 WRITE (1,165)DDD

D4 READ (1,170,ERR = 160)DDD

E4 (DDD(1).LE.0.OR.DDD(1).GE.13); (DDD(2).LE.0.OR.DDD(2).GE.32)

F4

G4

H4

J4

K4

A5

B5 SRCH$$(K$CLOS,'ACTD',6,0,0,0)

C5 SRCH$$(K$CLOS,'REVS',6,0,0,0)

D5 SRCH$$(K$DELE,'ACTD',6,0,0,0)

E5 CNAM$$('REVS',6,'ACTD',6,IC)

F5 SRCH$$(K$RDWR+K$NDAM,'ACTD',6,5,1,IC)

G5 SRCH$$(K$RDWR+K$NDAM,'REVS',6,4,1,IC)

H5 REWIND 9; REWIND 8

J5 FINISH = 0

K5

Figure 5.4.1-29 Page (3 of 3)

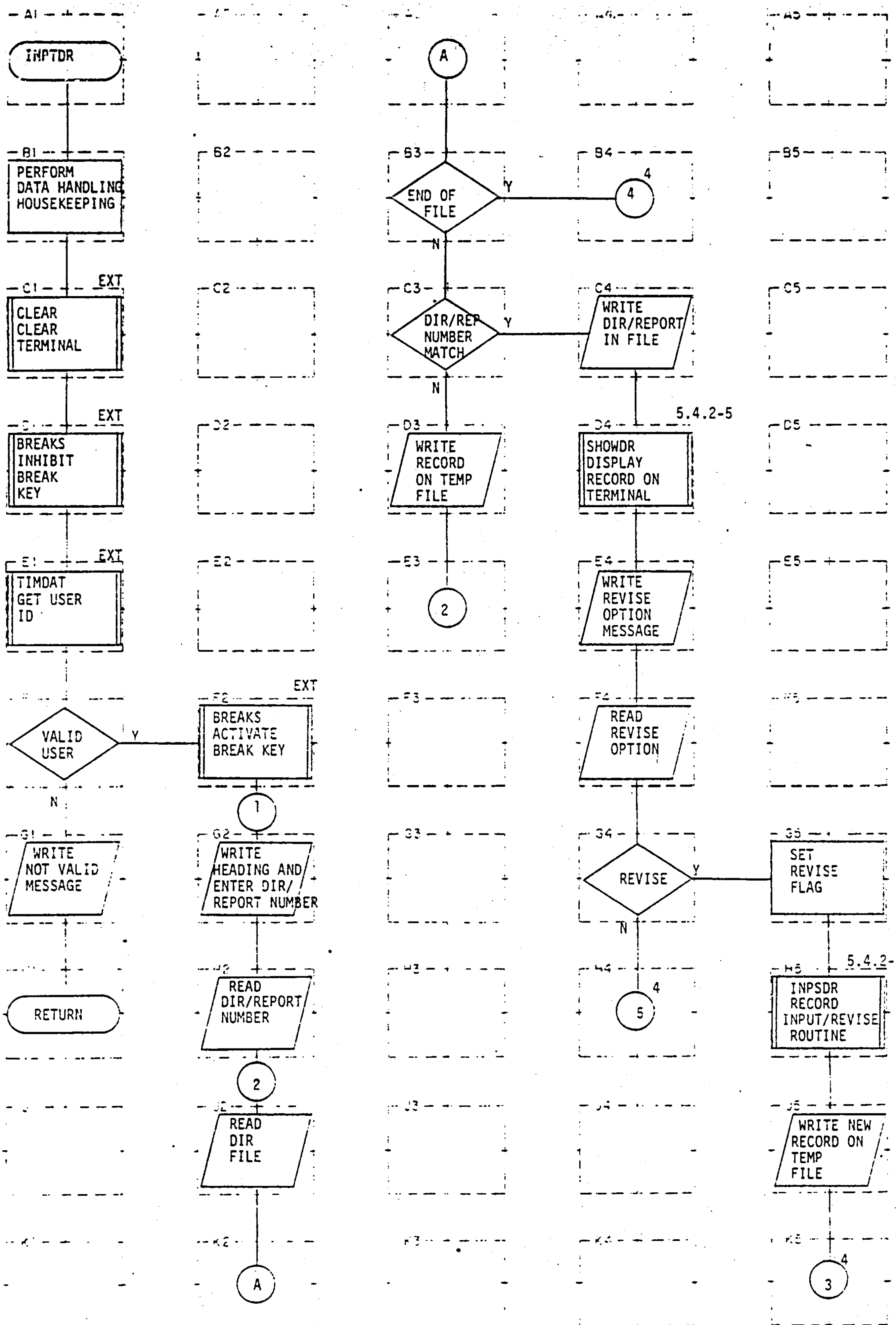
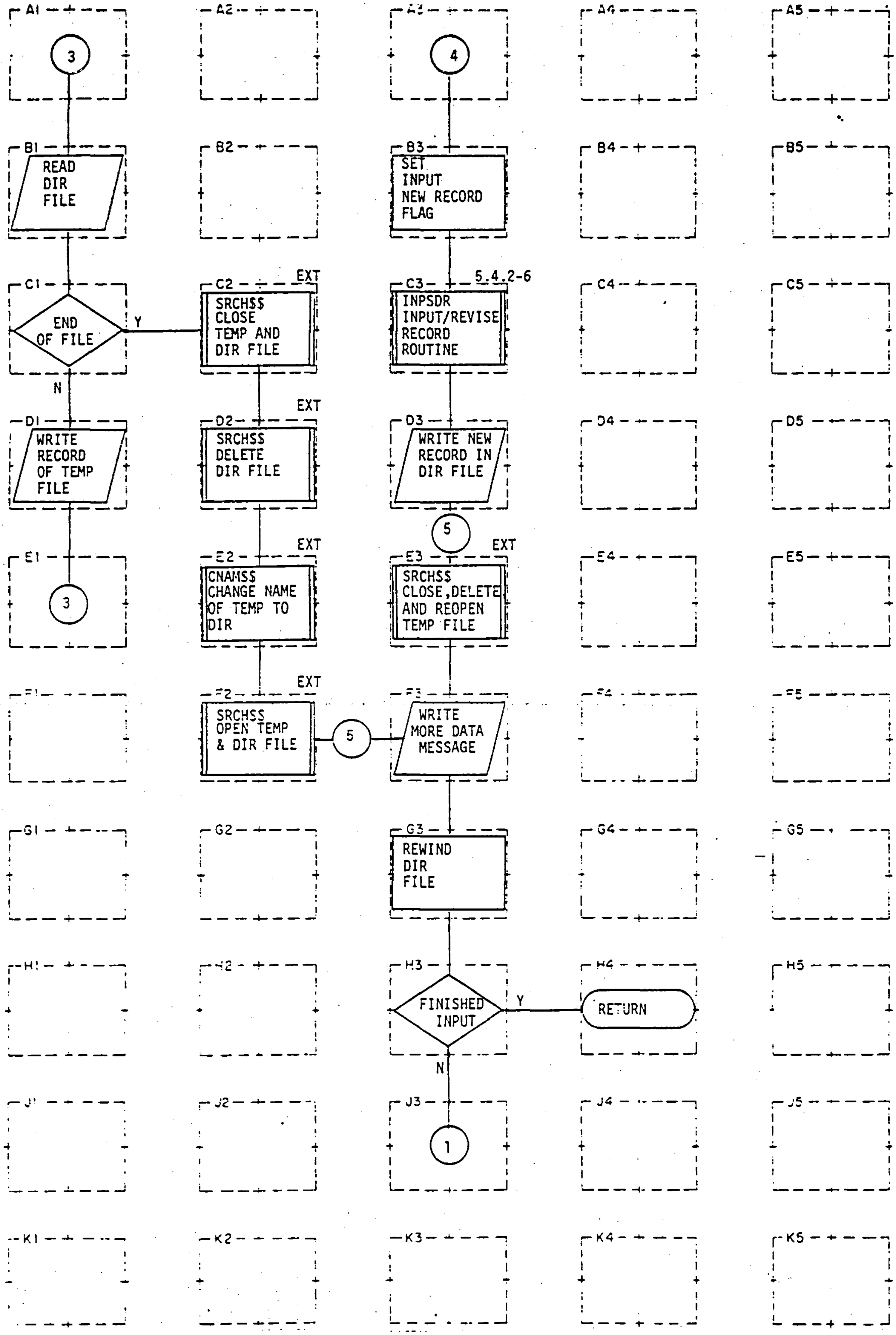


Figure 5.4.2-1

Page (1 of 6)

```
A1
B1      $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*2;*4
C1      CLEAR
D1      BREAK$(.TRUE.)
E1      TIMDAT(A,15)
F1      (A(13).EQ.'JW'.OR.A(13).EQ.'HN'.OR.A(13).EQ.'RJ'.OR.A(13).EQ.'DK')
G1      WRITE(1,4)
H1
J1
K1
A2
B2
C2
D2
E2
F2      BREAK$(.FALSE.)
G2      WRITE(1,1);  WRITE(1,505)
H2      READ(1,510,ERR=500)DIRR
J2      READ(6,END=1010)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
K2
A3
B3      see J2
C3      DO 530I=1,4; (DIR(I).NE.DIRR(I))
D3      WRITE(10)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
E3
```

```
F3
G3
H3
J3
K3
A4
B4
C4      WRITE(1,540)
D4      SHOWDR
E4      WRITE(1,550)
F4      READ(1,560,ERR=545)IOPT
G4      (IOPT.EQ.'NO'); (IOPT.NE.'YE')
H4
J4
K4
A5
B5
C5
D5
E5
F5
G5      R=1
H5      INPSDR
J5      WRITE(10)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
K5
```



A1
3
A2
A3
4
A4
A5
B1
READ DIR FILE
B2
B3
SET INPUT NEW RECORD FLAG
B4
B5
C1
END OF FILE
Y
N
C2
EXT
SRCH$$ CLOSE TEMP AND DIR FILE
C3
5.4.2-6
INPSDR INPUT/REVISE RECORD ROUTINE
C4
C5
D1
WRITE RECORD OF TEMP FILE
D2
EXT
SRCHSS DELETE DIR FILE
D3
WRITE NEW RECORD IN DIR FILE
D4
D5
E1
3
E2
EXT
CNAMS$ CHANGE NAME OF TEMP TO DIR
5
E3
EXT
SRCHS$ CLOSE,DELETE AND REOPEN TEMP FILE
E4
E5
F2
EXT
SRCHSS OPEN TEMP & DIR FILE
5
F3
WRITE MORE DATA MESSAGE
G1
G2
G3
REWIND DIR FILE
G4
G5
H1
H2
H3
FINISHED INPUT
Y
N
H4
RETURN
H5
J2
J3
1
J4
K1
K2
K3
K4
K5

A1	
B1	READ(6,END=600)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
C1	see B1
D1	WRITE(10)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
E1	
F1	
G1	
H1	
J1	
K1	
A2	
B2	
C2	SRCH$$(K$CLOS,'TEMP',6,0,0,0);SRCH$$(K$CLOS,'DIR',6,0,0,0)
D2	SRCH$$(K$DELE,'DIR',6,0,0,0)
E2	CNAM$$('TEMP',6,'DIR',6,IC)
F2	SRCH$$(K$RDWR+K$NDAM,'DIR',6,2,IT,IC);SRCH$$(K$RDWR+K$NDAM, 'TEMP',6,6,IT,IC)
G2	
H2	
J2	
K2	
A3	
B3	R=0
C3	INPSDR
D3	WRITE(6)TIT,PTIT,DIRR,DT,SYS,WAN,VEH,REV,RDAT
E3	SRCH$$(K$CLOS,'TEMP',6,0,0,0);SRCH$$(K$DELE,'TEMP',6,0,0,0);SRCH$$ (K$RDWR+K$NDAM,'TEMP',6,6,IT,IC)

Figure 5.4.2-1 Page (5 of 6)

F3	WRITE(1,1001); READ(1,1002)IANS
G3	REWIND 6
H3	(IANS.EQ.'N'); (IANS.NE.'Y')
J3	
K3	
A4	
B4	
C4	
D4	
E4	
F4	
G4	
H4	
J4	
K4	
A5	
B5	
C5	
D5	
E5	
F5	
G5	
H5	
J5	
K5	

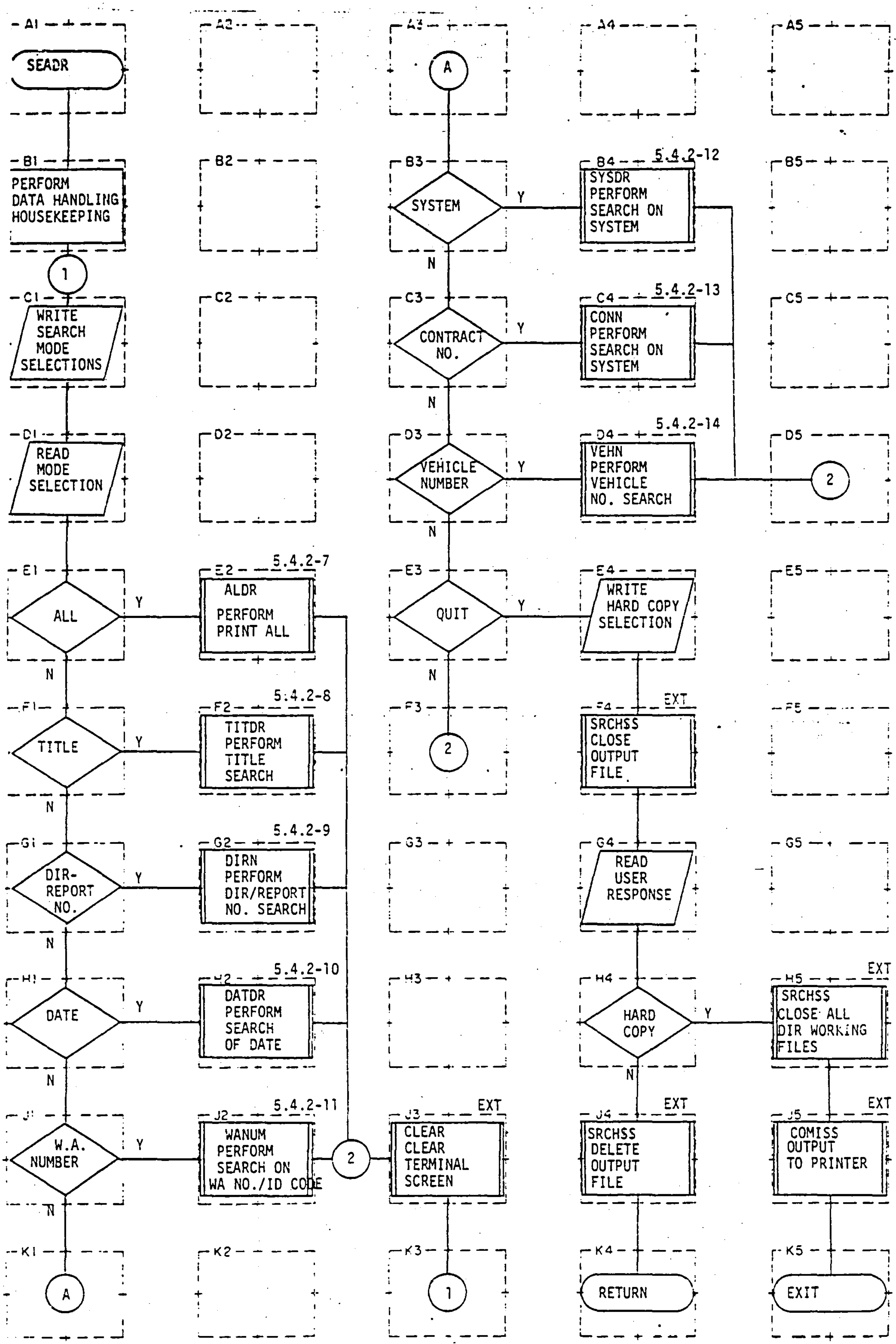

SEADR
PERFORM DATA HANDLING HOUSEKEEPING
1
WRITE SEARCH MODE SELECTIONS
READ MODE SELECTION
ALL
Y
N
5.4.2-7
ALDR PERFORM PRINT ALL
TITLE
5.4.2-8
TITDR PERFORM TITLE SEARCH
DIR-REPORT NO.
5.4.2-9
DIRN PERFORM DIR/REPORT NO. SEARCH
DATE
5.4.2-10
DATDR PERFORM SEARCH OF DATE
W.A. NUMBER
5.4.2-11
WANUM PERFORM SEARCH ON WA NO./ID CODE
2
A
SYSTEM
5.4.2-12
SYSDR PERFORM SEARCH ON SYSTEM
CONTRACT NO.
5.4.2-13
CONN PERFORM SEARCH ON SYSTEM
VEHICLE NUMBER
5.4.2-14
VEHN PERFORM VEHICLE NO. SEARCH
QUIT
WRITE HARD COPY SELECTION
EXT
SRCHSS CLOSE OUTPUT FILE
READ USER RESPONSE
HARD COPY
SRCHSS CLOSE ALL DIR WORKING FILES
CLEAR CLEAR TERMINAL SCREEN
SRCHSS DELETE OUTPUT FILE
COMISS OUTPUT TO PRINTER
RETURN
EXIT

Figure 5.4.2-2

```
A1
B1      $INSERT SYSCOM>KEYS.F; SRCH$$(K$RDWR+K$NSAM,'OUT',6,3,0,0)
C1      WRITE(1,1); REWIND 6
D1      READ(1,3)IDES
E1      (IDES(1).EQ.'AL')
F1      (IDES(1).EQ.'TI')
G1      (IDES(1).EQ.'DI')
H1      (IDES(1).EQ.'DA')
J1      (IDES(1).EQ.'WA')
K1
A2
B2
C2
D2
E2      ALDR
F2      TITDR
G2      DIRN
H2      DATDR
J2      WANUM
K2
A3
B3      (IDES(1).EQ.'SY')
C3      (IDES(1).EQ.'CO')
D3      (IDES(1).EQ.'VE')
E3      (IDES(1).EQ.'QU')
```

Figure 5.4.2-2 Page (2 of 3)

F3

G3

H3

J3 CLEAR

K3

A4

B4 SYSDR

C4 CONN

D4 VEHN

E4 WRITE(1,11)

F4 SRCH$$(K$CLOS,'OUT',6,0,0,0)

G4 READ(1,3)IDES

H4 (IDES(1).EQ.'YE'); (IDES(1).EQ.'NO')

J4 SRCH$$(K$DELE,'OUT',6,0,0,0)

K4

A5

B5

C5

D5

E5

F5

G5

H5 SRCH$$(K$CLOS,'DIR',6,0,0,0); SRCH$$(K$CLOS,'REV',6,0,0,0);
SRCH$$(K$CLOS,'TEMP',6,0,0,0)

J5 COMI$$('SOUT',6,2,IC)

K5

Figure 5.4.2-2 Page (3 of 3)

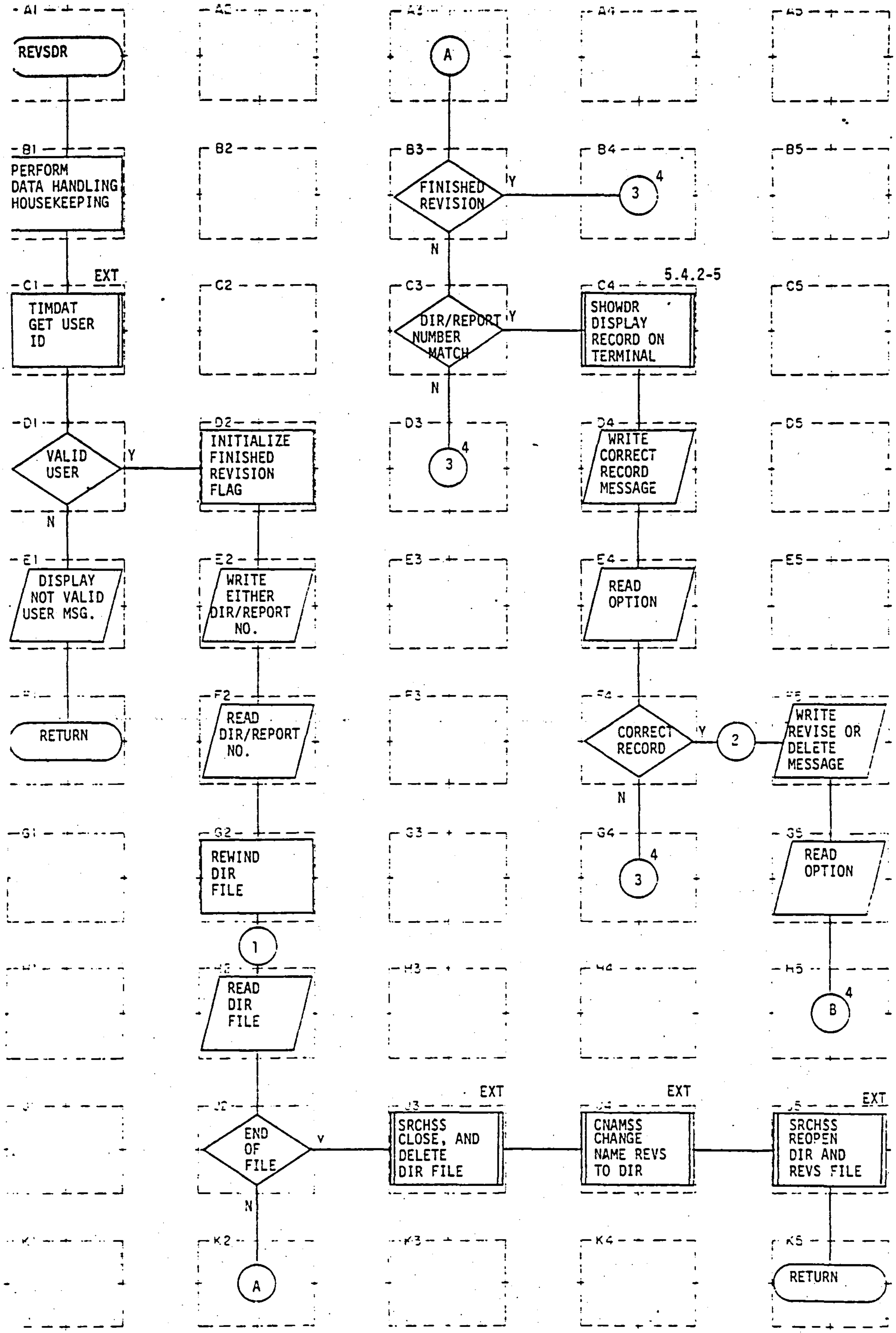


Figure 5.4.2-3

Page (1 of 5)

```
A1
B1      $INSERT COMMON:- INTEGER*2,*4
C1      TIMDAT(A,15)
D1      (A(13).EQ.'JW'.OR.A(13).EQ.'NH'.OR.A(13).EQ.'RJ'.OR.A(13).EQ.'DK')
E1      WRITE(1,4)('SORRY, YOU ARE NOT VALIDATED TO USE THIS MODE.')
F1
G1
H1
J1
K1
A2
B2
C2
D2      FINISH=0
E2      WRITE(1,1)
F2      READ(1,2,ERR=5)IDIR
G2      REWIND 6
H2      READ(6,END=200)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
J2      see H2
K2
A3
B3      (FINISH.EQ.1)
C3      DO 110 I=1,4; (IDIR(I).NE.DIR(I))
D3
E3
```

Figure 5.4.2-3   Page (2 of 5)

```
F3
G3
H3
J3        SRCH$$(K$CLOS,'DIR',6,0,0,0); SRCH$$(K$DELE,'DIR',6,0,0,0)
K3
A4
B4
C4        SHOWDR
D4        WRITE(1,1700)
E4        READ(1,50)IOPT
F4        (IOPT.EQ.'NO'); (IOPT.NE.'YE')
G4
H4
J4        CNAM$$('REVS',6,'DIR',6,IC)
K4
A5
B5
C5
D5
E5
F5        WRITE(1,2000)
G5        READ(1,50)IOPT
H5
J5        SRCH$$(K$RDWR+K$NDAM, 'DIR' ,6,2,IT,IC); SRCH$$(K$RDWR+KSNDAM, 'REV',
          6,4,IT,IC)
K5
```

Figure 5.4.2-3 Page (3 of 5)

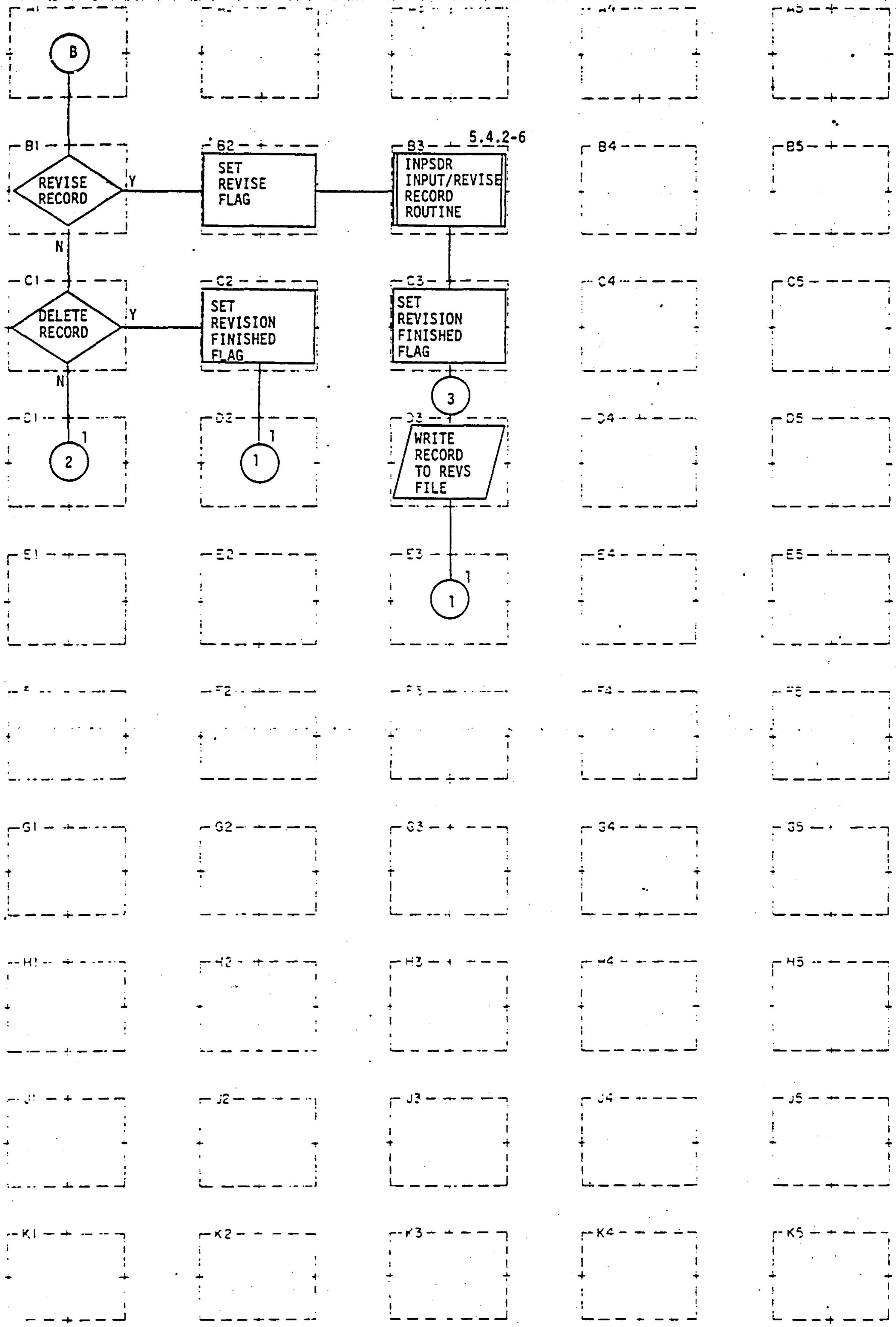


Figure 5.4.2-3

Page (4 of 5)

A1	
B1	(IOPT.EQ.'RE')
C1	(IOPT.NE.'DE')
D1	
E1	
F1	
G1	
H1	
J1	
K1	
A2	
B2	R=1
C2	FINISH=1
D2	
E2	
F2	
G2	
H2	
J2	
K2	
A3	
B3	INPSDR
C3	FINISH=1
D3	WRITE(8)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
E3	

Figure 5.4.2-3

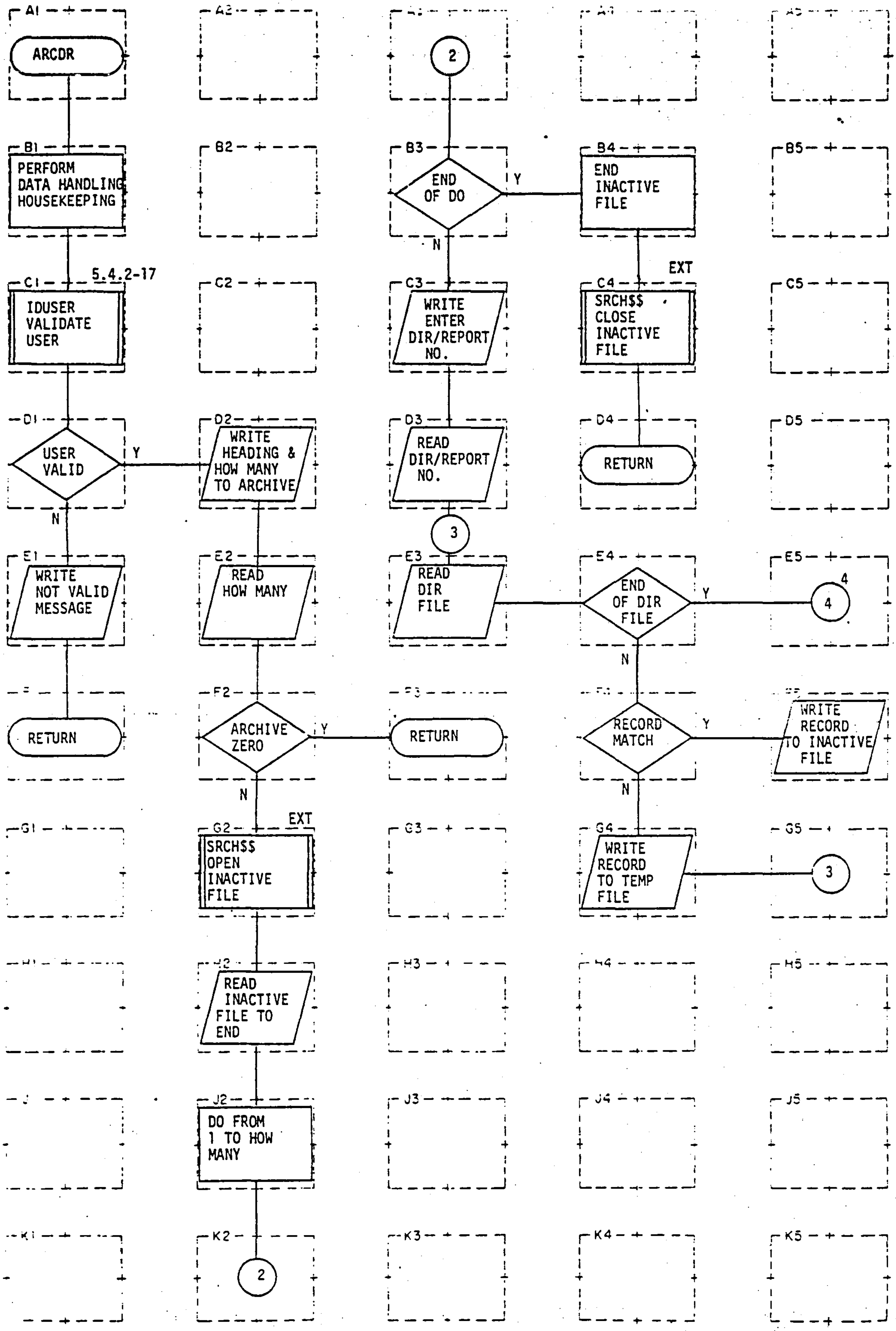


Figure 5.4.2-4

Page (1 of 5)

```
A1
B1      $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*4
C1      IDUSER(IAI)
D1      (IAI.EQ.'SY')
E1
F1
G1
H1
J1
K1
A2
B2
C2
D2      WRITE(1,1) ('YOU ARE NOT VALIDATED TO USE THIS ROUTINE')
E2      READ(1,2,ERR=10)IKNT
F2      (IKNT.EQ.0)
G2      SRCH$$(K$RDWR+K$NDAM,'INACT',6,5,1,IC)
H2      READ(9,END=75)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
J2      DO 9999 ILOOP=1,IKNT
K2
A3
B3
C3      WRITE(1,80)
D3      READ(1,81,ERR=82)IDR
E3      READ(6,END=200)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
```

Figure 5.4.2-4 Page (2 of 5)

```
F3
G3
H3
J3
K3
A4
B4        ENDFILE 9
C4        SRCH$$(K$CLOS,'INACT',6,0,0,0)
D4
E4
F4        DO 150 I=1,4; (IDR(I).NE.DIR(I))
G4        WRITE(10)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
H4
J4
K4
A5
B5
C5
D5
E5
F5        WRITE(9)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
G5
H5
J5
K5
```

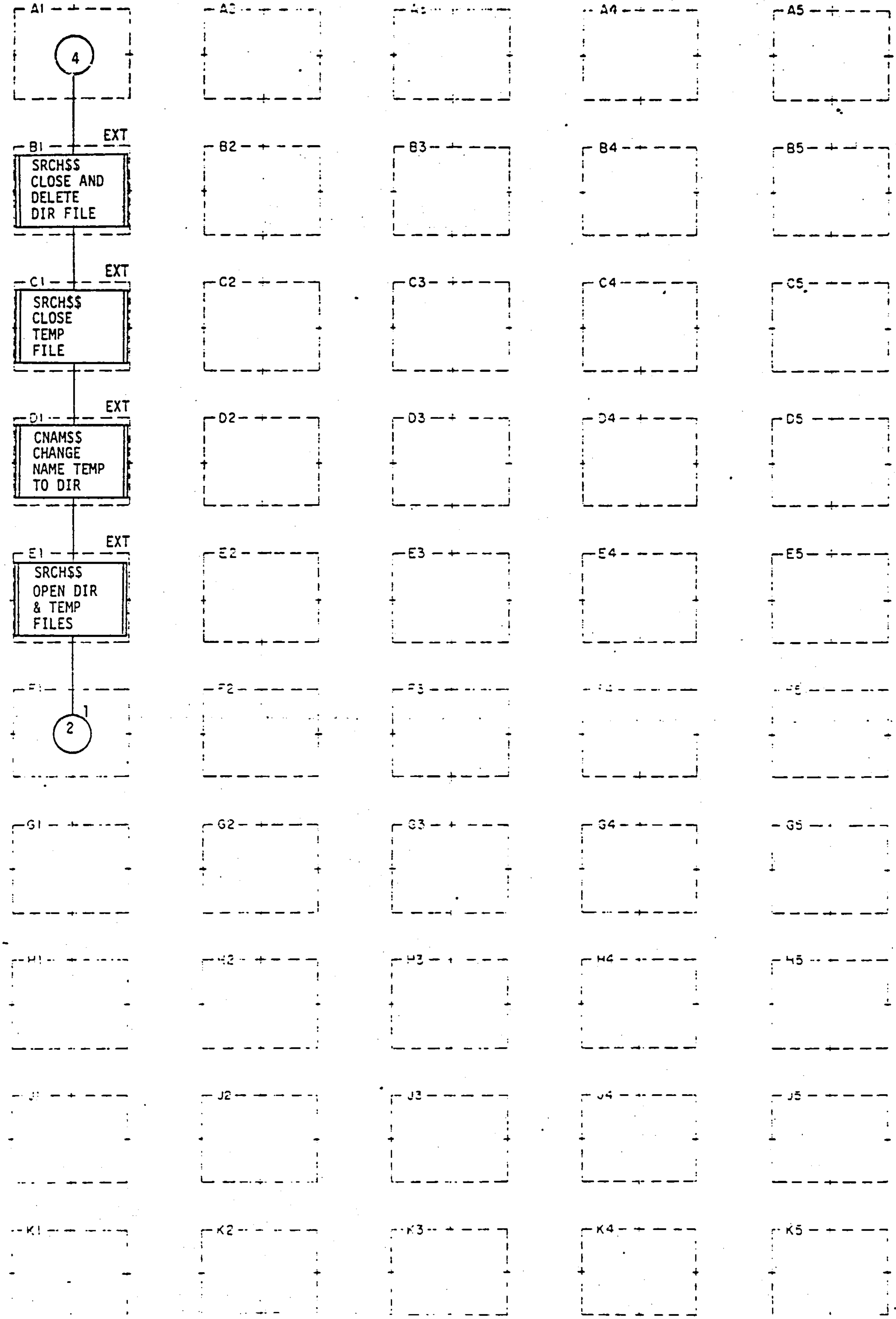


Figure 5.4.2-4

Page (4 of 5)

A1	
B1	SRCH$$(K$CLOS,'DIR',6,0,0,0); SRCH$$(K$DELE,'DIR',6,0,0,0)
C1	SRCH$$(K$CLOS,'TEMP',6,0,0,0)
D1	CNAM$$('TEMP',6,'DIR',6,IC)
E1	SRCH$$(K$RDWR+K$NDAM,'DIR',6,2,IT,IC); SRCH$$(K$RDWR+K$NDAM,'TEMP',6,6,IT,IC)
F1	
G1	
H1	
J1	
K1	
A2	
B2	
C2	
D2	
E2	
F2	
G2	
H2	
J2	
K2	
A3	
B3	
C3	
D3	
E3	

Figure 5.4.2-4 Page (5 of 5)

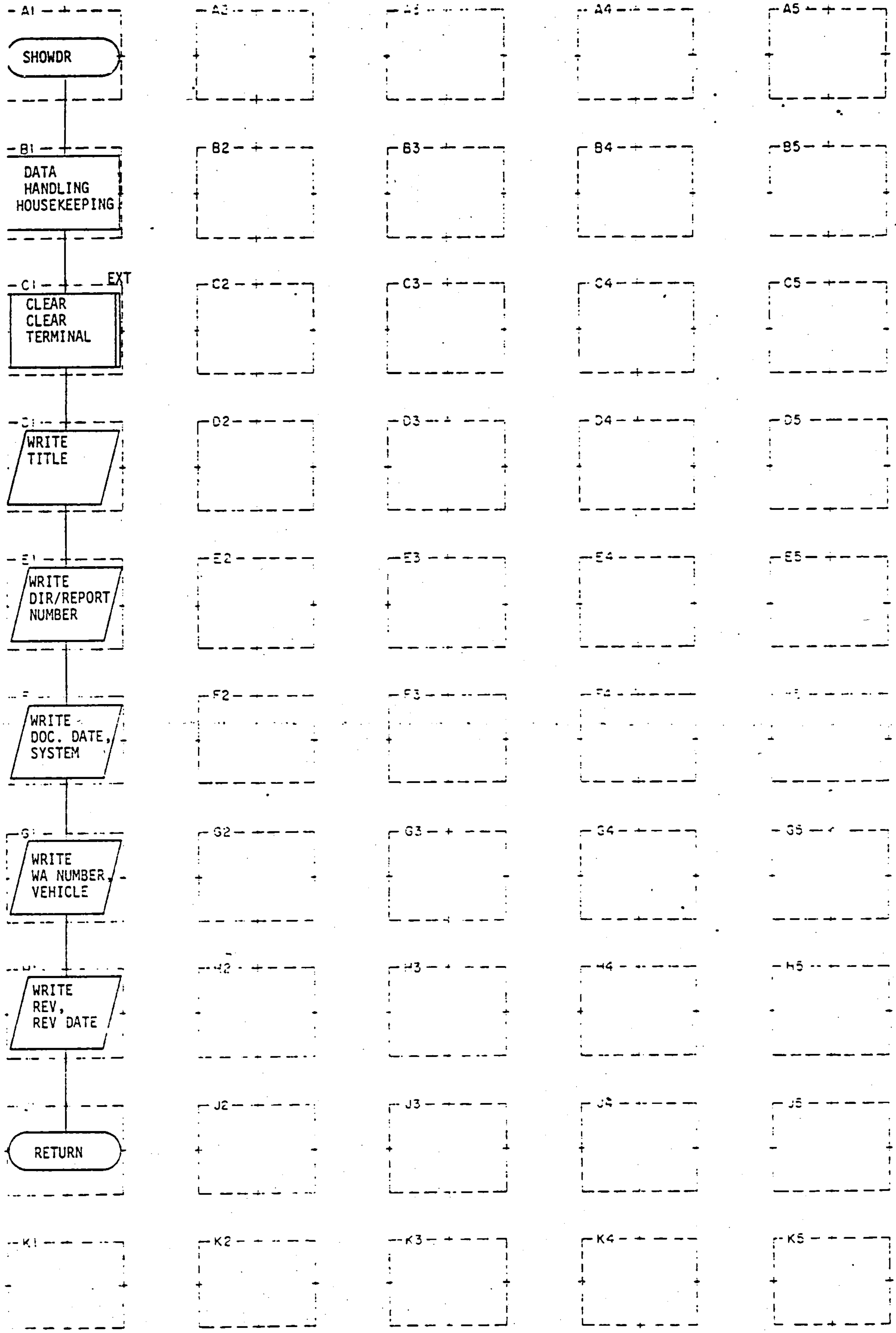


Figure 5.4.2-5

Page (1 of 2)

A1

B1 $INSERT COMMON

C1 CLEAR

D1 WRITE(1,10)TIT

E1 WRITE(1,20)DIR,DT,SYS

F1 see E1

G1 WRITE(1,30)WAN,((VEH(I,J),J=1,2),I=1,2)

H1 WRITE(1,40)REV,RDAT

J1

K1

A2

B2

C2

D2

E2

F2

G2

H2

J2

K2

A3

B3

C3

D3

E3

Figure 5.4.2-5 Page (2 of 2)

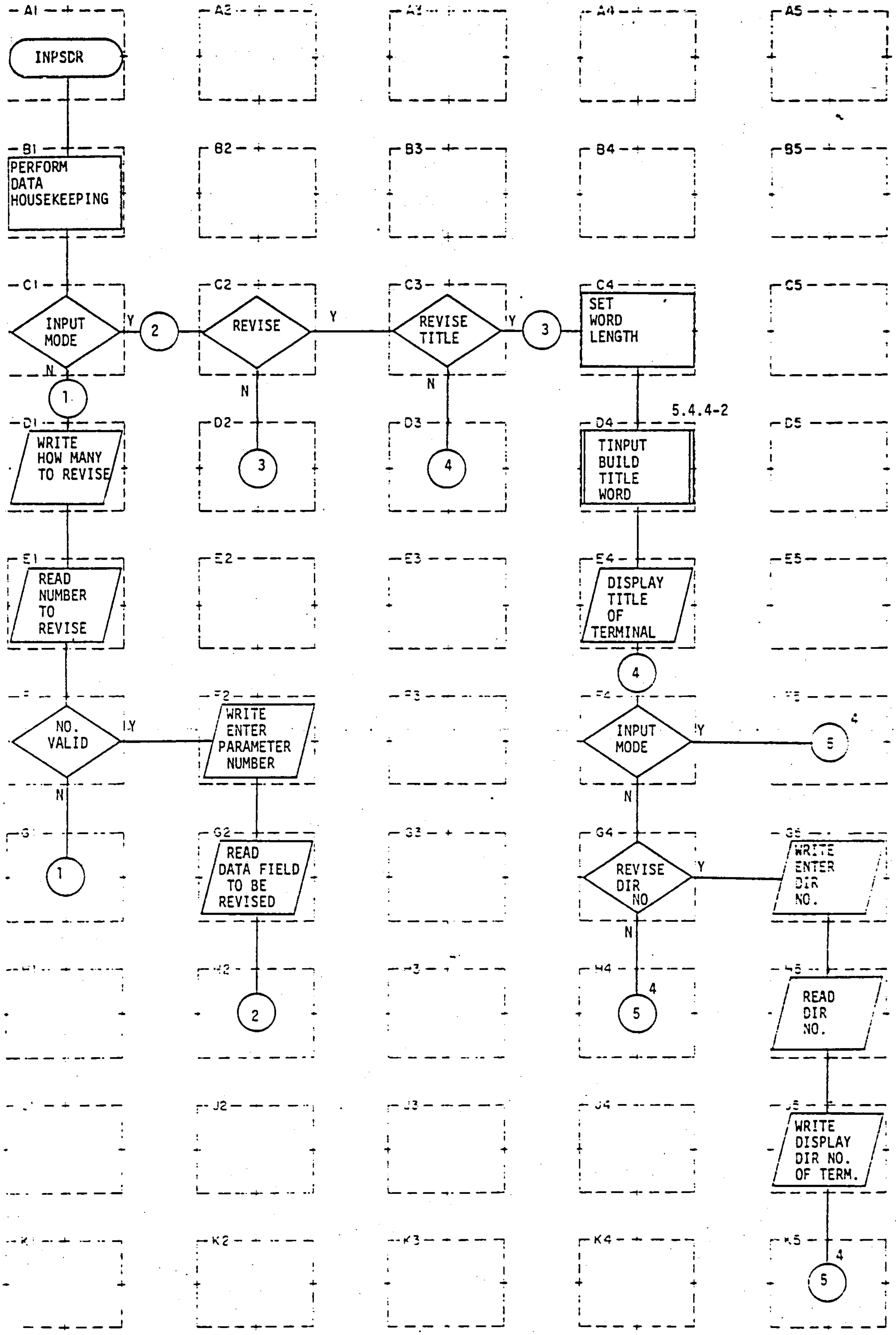


Figure 5.4.2-6

Page (1 of 9)

A1	
B1	$INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*2
C1	(R.EQ.0)
D1	WRITE(1,1)
E1	READ(1,10,ERR=2)IKNT
F1	(IKNT.LT.0); (IKNT.GT.8)
G1	
H1	
J1	
K1	
A2	
B2	
C2	(R.EQ.1.AND.IR.NE.1)
D2	
E2	
F2	WRITE(1,3)
G2	READ(1,10,ERR=5)IR
H2	
J2	
K2	
A3	
B3	
C3	see C2
D3	
E3	

Figure 5.4.2-6

F3	
G3	
H3	
J3	
K3	
A4	
B4	
C4.	LEN=10
D4	TINPUT(TIT,LEN)
E4	WRITE(1,102)TIT
F4	(R.EQ.1.AND.IR.NE.2)
G4	see F4
H4	
J4	
K4	
A5	
B5	
C5	
D5	
E5	
F5	
G5	WRITE(1,202)
H5	READ(1,203,ERR=201)DIR
J5	WRITE(1,203)DIR
K5	

Figure 5.4.2-6

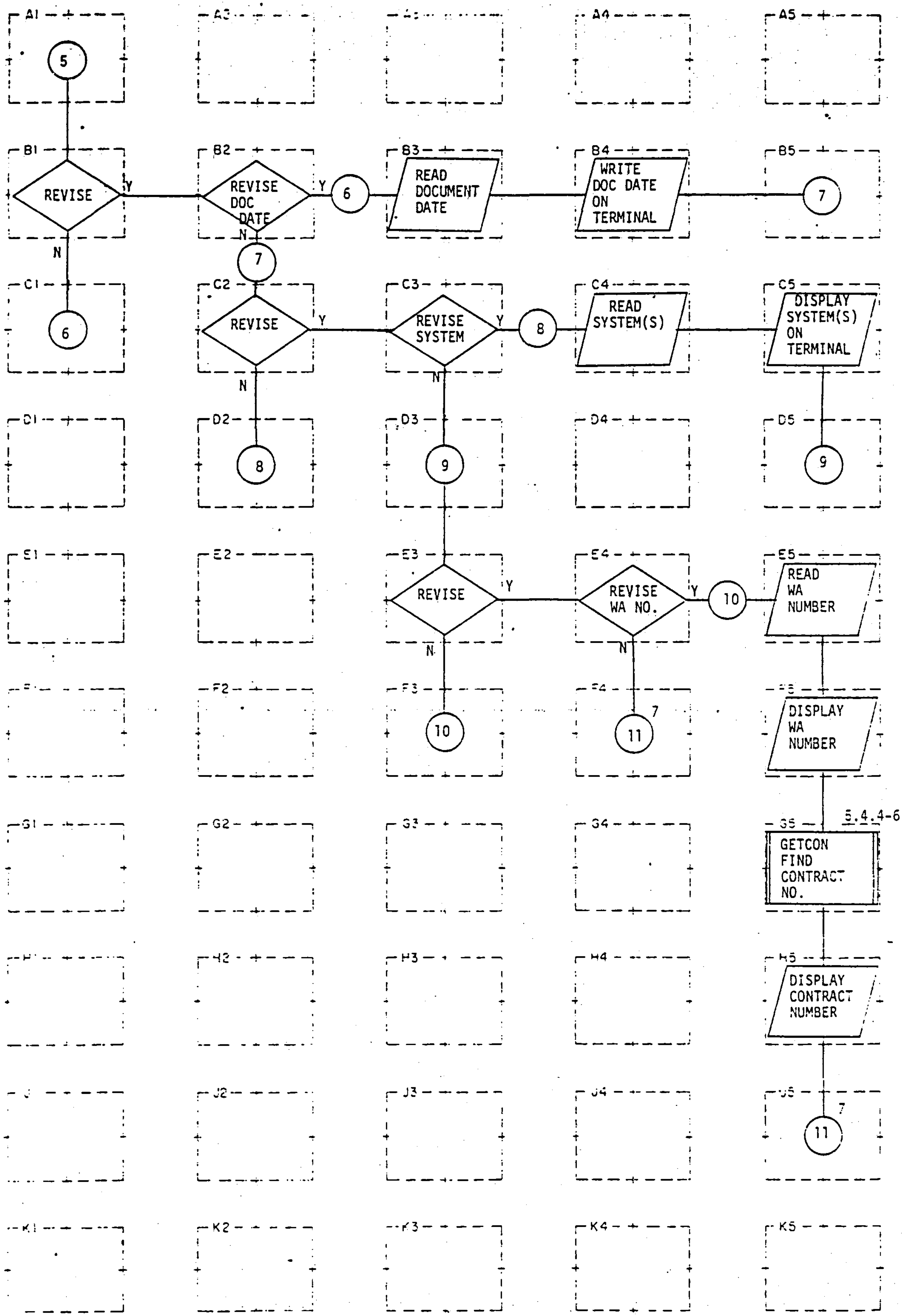


Figure 5.4.2-6

Page (4 of 9)

A1	
B1	(R.EQ.1.AND.IR.NE.3)
C1	
D1	
E1	
F1	
G1	
H1	
J1	
K1	
A2	
B2	see B1
C2	(R.EQ.1.AND.IR.NE.4)
D2	
E2	
F2	
G2	
H2	
J2	
K2	
A3	
B3	READ(1,403,ERR=401)DT
C3	see C2
D3	
E3	(R.EQ.1.AND.IR.NE.5)

Figure 5.4.2-6

F3	
G3	
H3	
J3	
K3	
A4	
B4	WRITE(1,403)DT
C4	READ(1,503,ERR=501)SYS
D4	
E4	see E3 (page 5 of 9)
F4	
G4	
H4	
J4	
K4	
A5	
B5	
C5	WRITE(1,503) SYS
D5	
E5	READ(1,603,ERR=601)WAN
F5	WRITE(1,603)WAN
G5	GETCON
H5	WRITE(1,650)CON
J5	
K5	

Figure 5.4.2-6

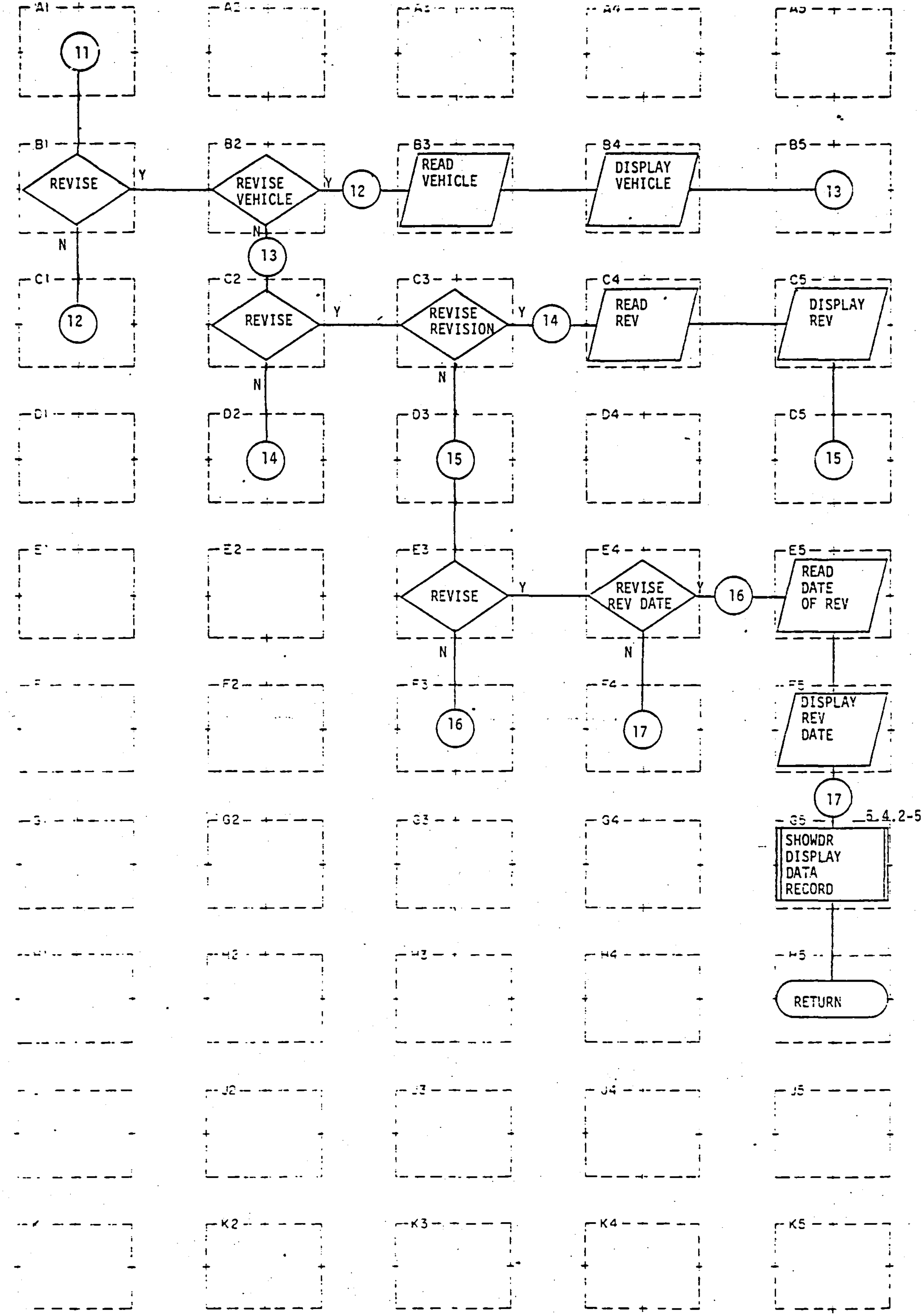


Figure 5.4.2-6

Page (7 of 9)

A1	
B1	(R.EQ.1.AND.IR.NE.6)
C1	
D1	
E1	
F1	
G1	
H1	
J1	
K1	
A2	
B2	see B1
C2	(R.EQ.1.AND.IR.NE.7)
D2	
E2	
F2	
G2	
H2	
J2	
K2	
A3	
B3	READ(1,903,ERR=901) ((VEH(I,J),J=1,2),I=1,2)
C3	see C2
D3	
E3	(R.EQ.1.AND.IR.NE.8)

Figure 5.4.2-6 Page (8 of 9)

F3	
G3	
H3	
J3	
K3	
A4	
B4	WRITE(1,903)((VEH(I,J),J=1,2),I=1,2)
C4	READ(1,2202)REV
D4	
E4	see E3 (page 8 of 9)
F4	
G4	
H4	
J4	
K4	
A5	
B5	
C5	WRITE(1,2202)REV
D5	
E5	READ(1,2303)RDAT
F5	WRITE(1,2303)RDAT
G5	SHOWDR
H5	
J5	
K5	

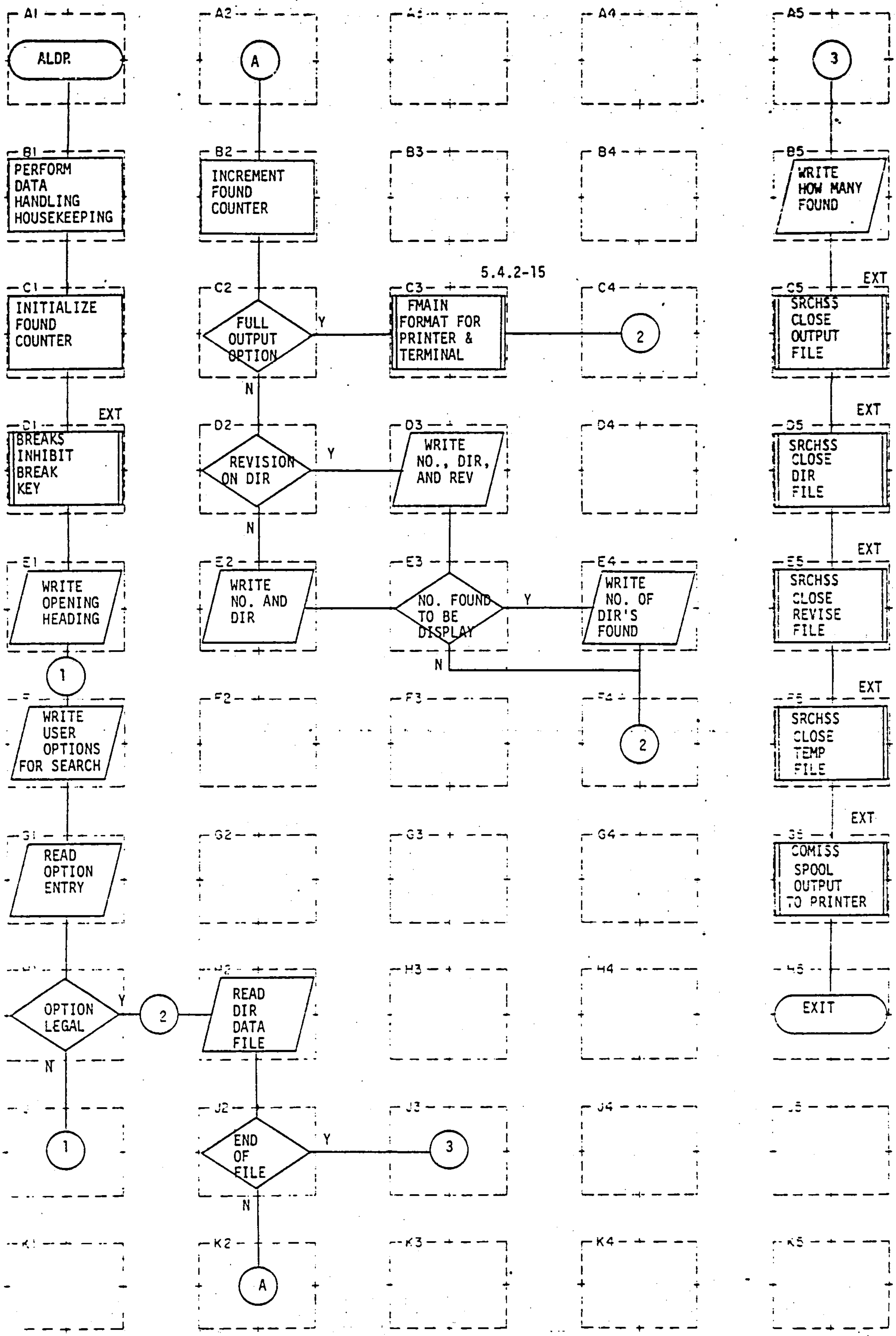

A1
ALDR
B1
PERFORM DATA HANDLING HOUSEKEEPING
C1
INITIALIZE FOUND COUNTER
D1
EXT
BREAKS INHIBIT BREAK KEY
E1
WRITE OPENING HEADING
1
F1
WRITE USER OPTIONS FOR SEARCH
G1
READ OPTION ENTRY
H1
OPTION LEGAL
Y
N
2
J1
1
K1
A2
A
B2
INCREMENT FOUND COUNTER
C2
FULL OUTPUT OPTION
Y
N
D2
REVISION ON DIR
Y
N
E2
WRITE NO. AND DIR
F2
G2
H2
READ DIR DATA FILE
J2
END OF FILE
Y
N
K2
A
A3
B3
5.4.2-15
C3
FMAIN FORMAT FOR PRINTER & TERMINAL
D3
WRITE NO., DIR, AND REV
E3
NO. FOUND TO BE DISPLAY
Y
N
F3
G3
H3
J3
3
K3
A4
B4
C4
2
D4
E4
WRITE NO. OF DIR'S FOUND
F4
2
G4
H4
J4
K4
A5
3
B5
WRITE HOW MANY FOUND
C5
EXT
SRCHSS CLOSE OUTPUT FILE
D5
EXT
SRCHSS CLOSE DIR FILE
E5
EXT
SRCHSS CLOSE REVISE FILE
F5
EXT
SRCHSS CLOSE TEMP FILE
G5
EXT
COMISS SPOOL OUTPUT TO PRINTER
H5
EXIT
J5
K5

Figure 5.4.2-7

A1

B1 $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*2; *4

C1 KNT=0

D1 BREAK$(.TRUE.)

E1 WRITE(1,1)

F1 WRITE(1,3)

G1 READ(1,4,ERR=3)IOPT

H1 (IOPT.LT.1.OR.IOPT.GT.2)

J1

K1

A2

B2 KNT=KNT+1

C2 (IOPT.EQ.2)

D2 (REV.EQ.' ')

E2 WRITE(7,55)KNT,DIR

F2

G2

H2 READ(6,END=100)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT

J2 see H2

K2

A3

B3

C3 FMAIN

D3 WRITE(7,35)KNT,DIR,REV

E3 (KNT/50.EQ.KNT/50.)

Figure 5.4.2-7 Page (2 of 3)

```
F3
G3
H3
J3
K3
A4
B4
C4
D4
E4      WRITE(1,70)KNT
F4
G4
H4
J4
K4
A5
B5      WRITE(1,200)KNT
C5      SRCH$$(K$CLOS,'OUT',6,0,0,0)
D5      SRCH$$(K$CLOS,'DIR',6,0,0,0)
E5      SRCH$$(K$CLOS,'REVS',6,0,0,0)
F5      SRCH$$(K$CLOS,'TEMP',6,0,0,0)
G5      COMI$$('SOUT',6,12,IC)
H5
J5
K5
```

Figure 5.4.2-7 Page (3 of 3)

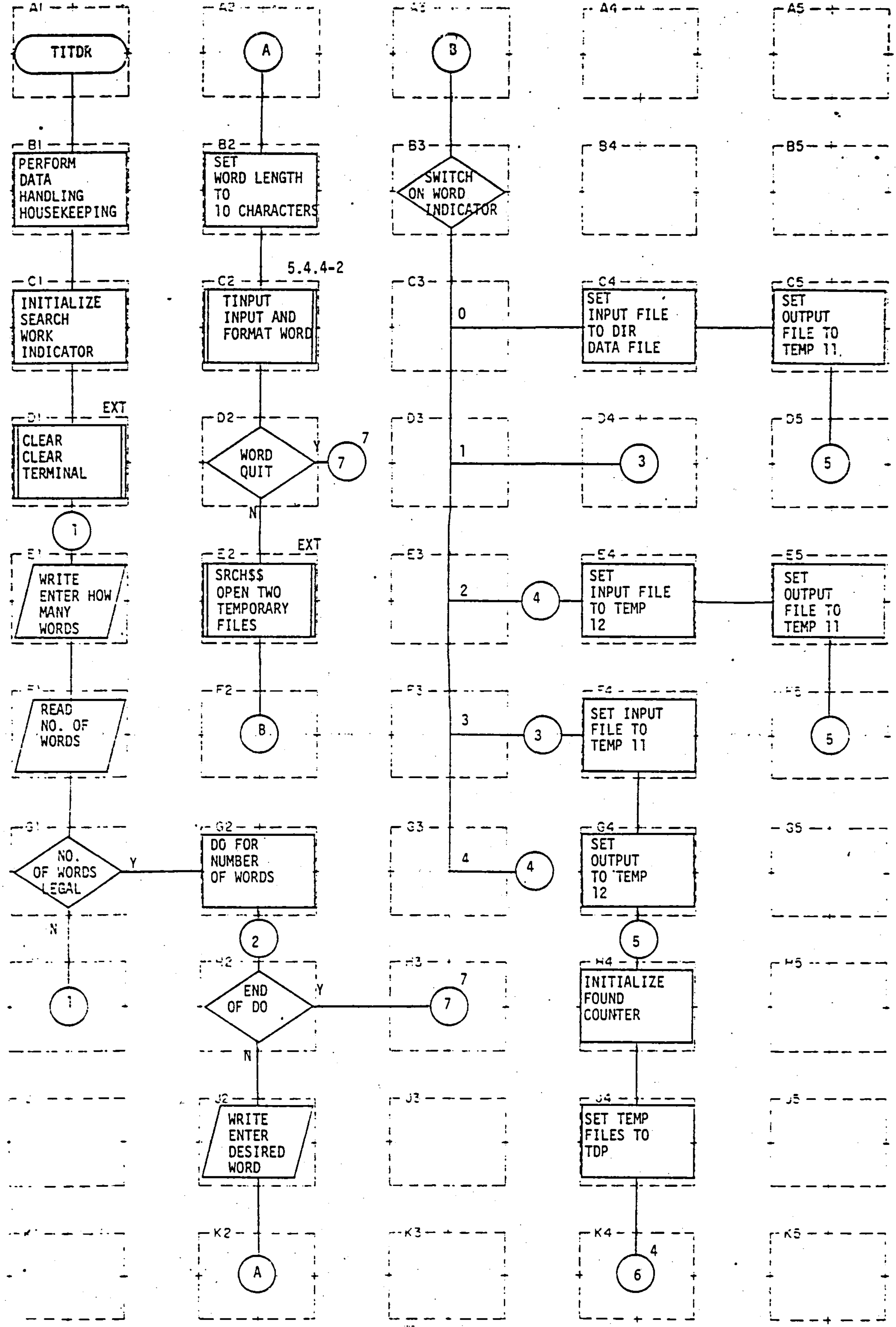


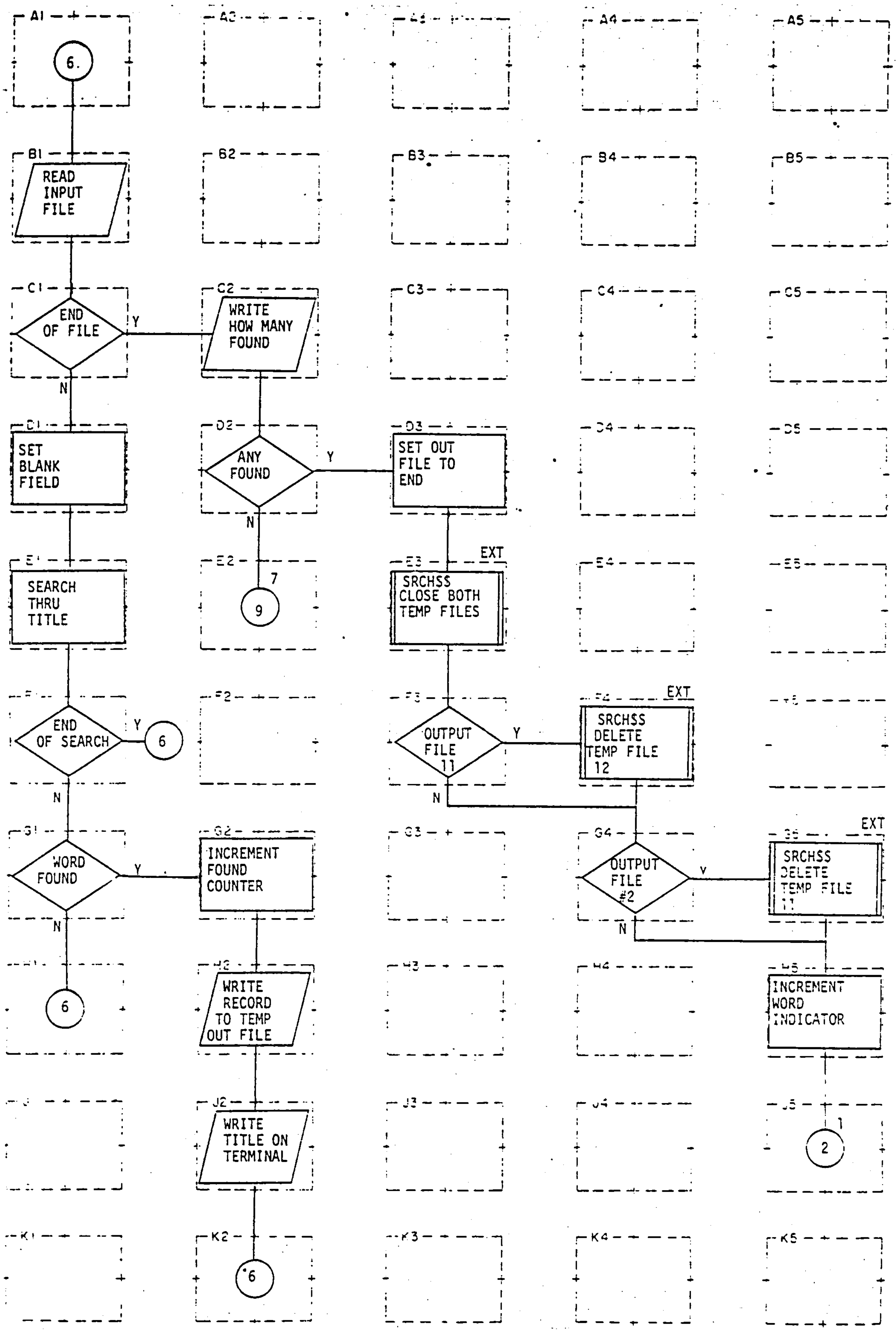
Figure 5.4.2-8

Page (1 of 9)

A1	
B1	$INSERT COMMON; INTEGER *2; *4
C1	T1=0
D1	CLEAR
E1	WRITE(1,2)
F1	READ (1,8,ERR=L001)ICON
G1	(ICON.LT.1); (ICON.GT.4)
H1	
J1	
K1	
A2	
B2	LEN=10
C2	TINPUT(IT,LEN)
D2	(IT(1).EQ.'QUIT')
E2	SRCH$$(K$RDWR+K$NDAM,T1' 6,7,ITY,IC);SRCH$$(KSRDWR+KSNDAM,'T2',6,8,ITY,IC)
F2	
G2	DO 1000 LOOP=1,ICON
H2	performed by G2
J2	WRITE (1,1)
K2	
A3	
B3	
C3	
D3	
E3	

Figure 5.4.2-8 Page (2 of 9)

F3	
G3	
H3	
J3	
K3	
A4	
B4	
C4	IN=6
D4	
E4	IN=12
F4	IN=11
G4	IO=12
H4	DOC=0
J4	REWIND IN; REWIND IO
K4	
A5	
B5	
C5	IO=11
D5	
E5	IO=11
F5	
G5	
H5	
J5	
K5	



A1
6.
B1
READ INPUT FILE
C1
END OF FILE
Y
N
C2
WRITE HOW MANY FOUND
D1
SET BLANK FIELD
D2
ANY FOUND
Y
N
D3
SET OUT FILE TO END
E2
7
9
EXT
E3
SRCH$S CLOSE BOTH TEMP FILES
E1
SEARCH THRU TITLE
END OF SEARCH
Y
6
N
OUTPUT FILE 11
Y
N
EXT
SRCH$S DELETE TEMP FILE 12
WORD FOUND
Y
N
G2
INCREMENT FOUND COUNTER
G4
OUTPUT FILE #2
Y
N
EXT
SRCH$S DELETE TEMP FILE 11
6
WRITE RECORD TO TEMP OUT FILE
INCREMENT WORD INDICATOR
J2
WRITE TITLE ON TERMINAL
1
2
K2
6

Figure 5.4.2-8

A1	
B1	READ(IN,END=100)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
C1	see B1
D1	BLNK=' '
E1	DO 3 I=1,21
F1	performed by E1
G1	(TIT(I).EQ.BLNK); (TIT(I).NE.IT(1)); (TIT(I+1).EQ. BLNK); (IT(2).EQ.BLNK); (TIT(I+1).EQ.IT(2))
H1	
J1	
K1	
A2	
B2	
C2	WRITE(1,1030)DOC,IT
D2	(DOC.EQ.0)
E2	
F2	
G2	DOC=DOC + 1
H2	WRITE(IO)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
J2	WRITE(1,10)TIT
K2	
A3	
B3	
C3	
D3	ENDFILE 10
E3	SRCH$$(K$CLOS,'T1',6,0,0,0); SRCH$$(K$CLOS,'T2',6,0,0,0)

Figure 5.4.2-8 Page (5 of 9)

F3	(IO.EQ.11)
G3	
H3	
J3	
K3	
A4	
B4	
C4	
D4	
E4	
F4	SRCH$$(K$DELE,'T2',6,0,0,0)
G4	(IO.EQ.12)
H4	
J4	
K4	
A5	
B5	
C5	
D5	
E5	
F5	
G5	SRCH$$(K$DELE,'T2',6,0,0,0)
H5	T1=T1+1
J5	
K5	

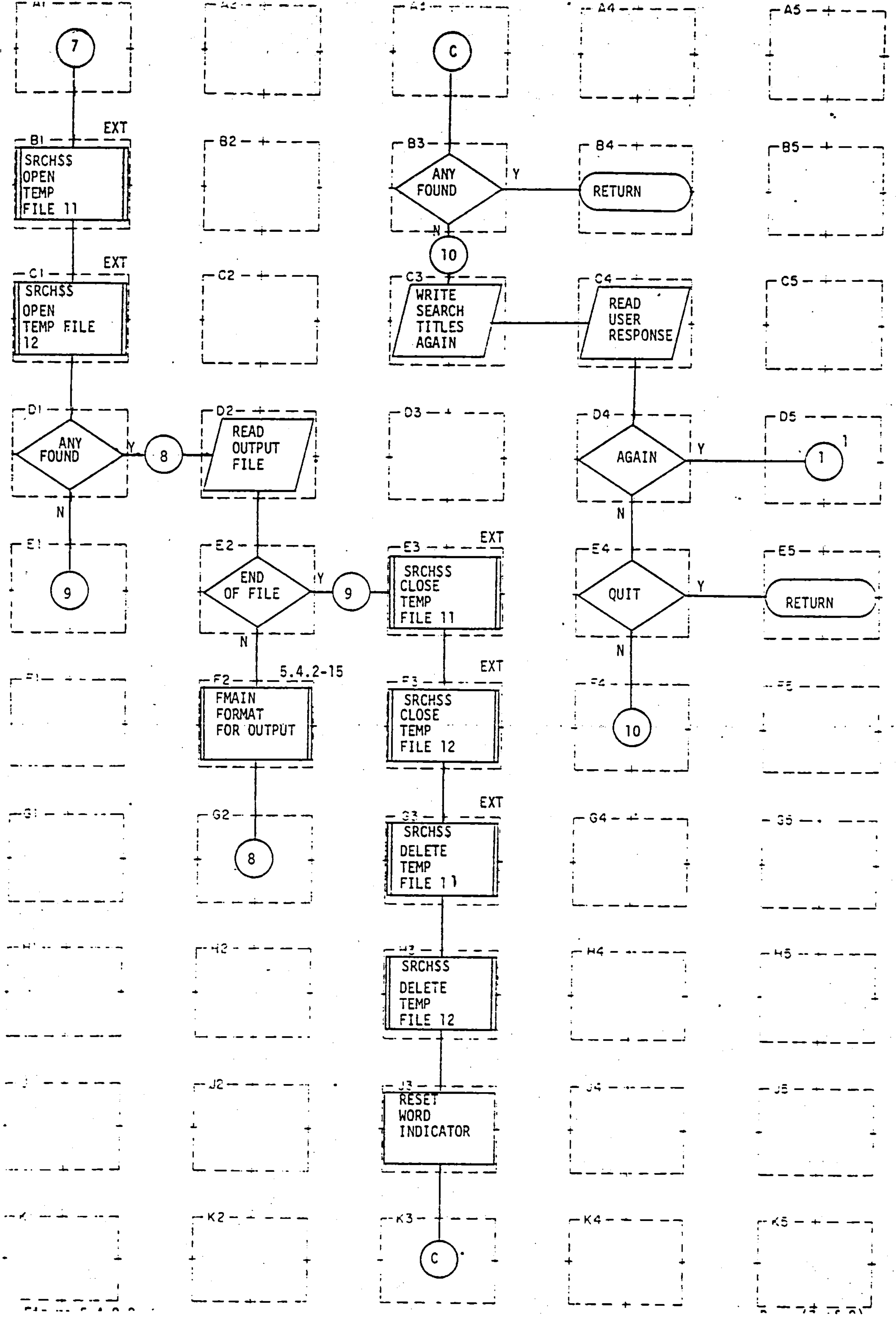


Figure 5.4.2-8

Page (7 of 9)

A1

B1 SRCH$$(K$RDWR+K$NDAM,'T1',6,7,ITY

C1 SRCH$$(K$RDWR+K$NDAM,'T2',6,8,ITY,IC)

D1 (DOC.LT.1)

E1

F1

G1

H1

J1

K1 ⋮

A2

B2

C2

D2 READ(IO,END=1020)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT

E2 see D2

F2 FMAIN

G2

H2

J2

K2

A3

B3 (DOC.NE.0)

C3 WRITE(1,2000)

D3

E3 SRCH$$(K$CLOS,'T1',6,0,0,0)

Figure 5.4.2-8 Page (8 of 9)

F3	SRCH$$(K$CLOS,'T2',6,0,0,0)
G3	SRCH$$(K$DELE,'T1',6,0,0,0)
H3	SRCH$$(K$DELE,'T2',6,0,0,0)
J3	
K3	
A4	
B4	
C4	READ(1,2001)IOPT
D4	(IOPT.EQ.'YE')
E4	(IOPT.NE.'NO')
F4	
G4	
H4	
J4	
K4	
A5	
B5	
C5	
D5	
E5	
F5	
G5	
H5	
J5	
K5	

Figure 5.4.2-8 Page (9 of 9)

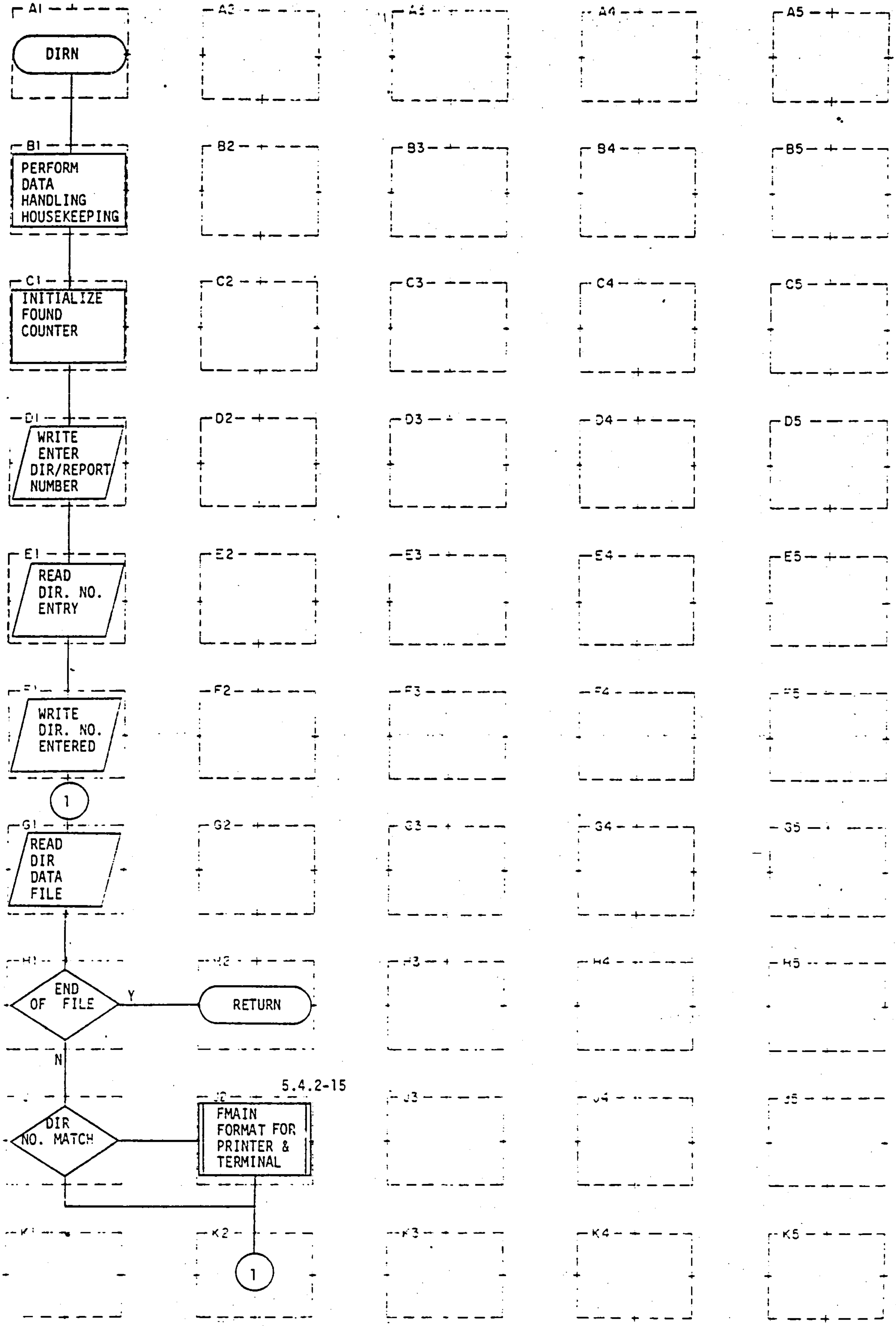


Figure 5.4.2-9

Page (1 of 2)

A1

B1 $INSERT COMMON; INTEGER *4

C1 KNT=0

D1 WRITE (1,1)

E1 READ (1,2,ERR=3)IDIR

F1 WRITE (1,2)IDIR

G1 READ(6,END=200)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT

H1 see G1

J1 DO 1000 I=1,4; (IDIR(I).NE.DIR(I))

K1

A2

B2

C2

D2

E2

F2

G2

H2

J2 FMAIN

K2

A3

B3

C3

D3

E3

Figure 5.4.2-9 Page (2 of 2)

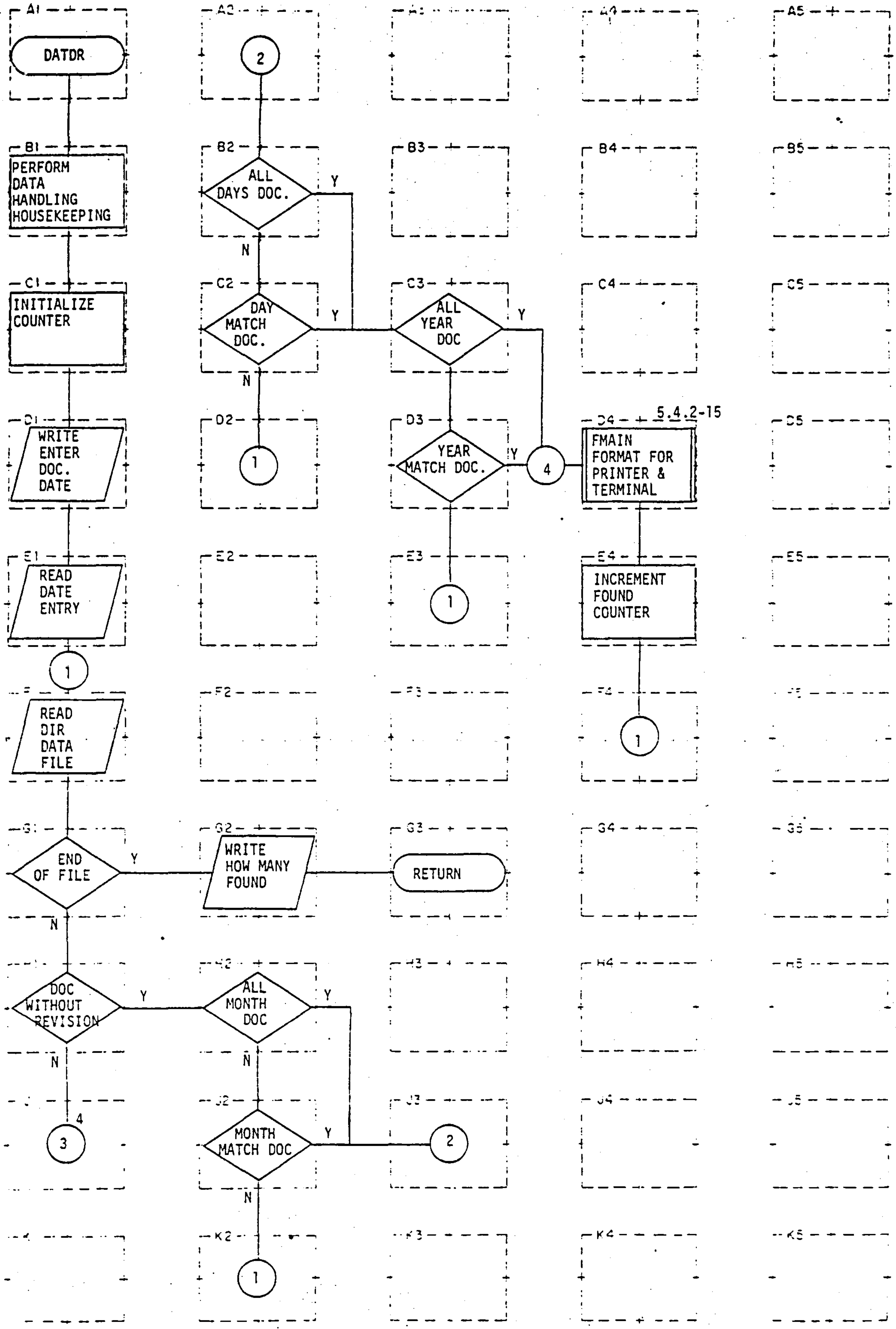


Figure 5.4.2-10

A1

B1 $INSERT COMMON; INTEGER *2

C1 KNT=0

D1 WRITE(1,21)

E1 READ(1,22,ERR=20)D

F1 READ(6,END=200)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT

G1 see F1

H1 (REV.EQ.' ')

J1

K1

A2

B2 (D(2).EQ.0)

C2 (D(2).NE.DT(2))

D2

E2

F2

G2 WRITE(1,250)KNT,D

H2 (D(1).EQ.0)

J2 (D(1).NE.DT(1))

K2

A3

B3

C3 (D(3).EQ.0)

D3 (D(3).NE.DT(3))

E3

Figure 5.4.2-10

F3

G3

H3

J3

K3

A4

B4

C4

D4 FMAIN

E4 KNT=KNT+1

F4

G4

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

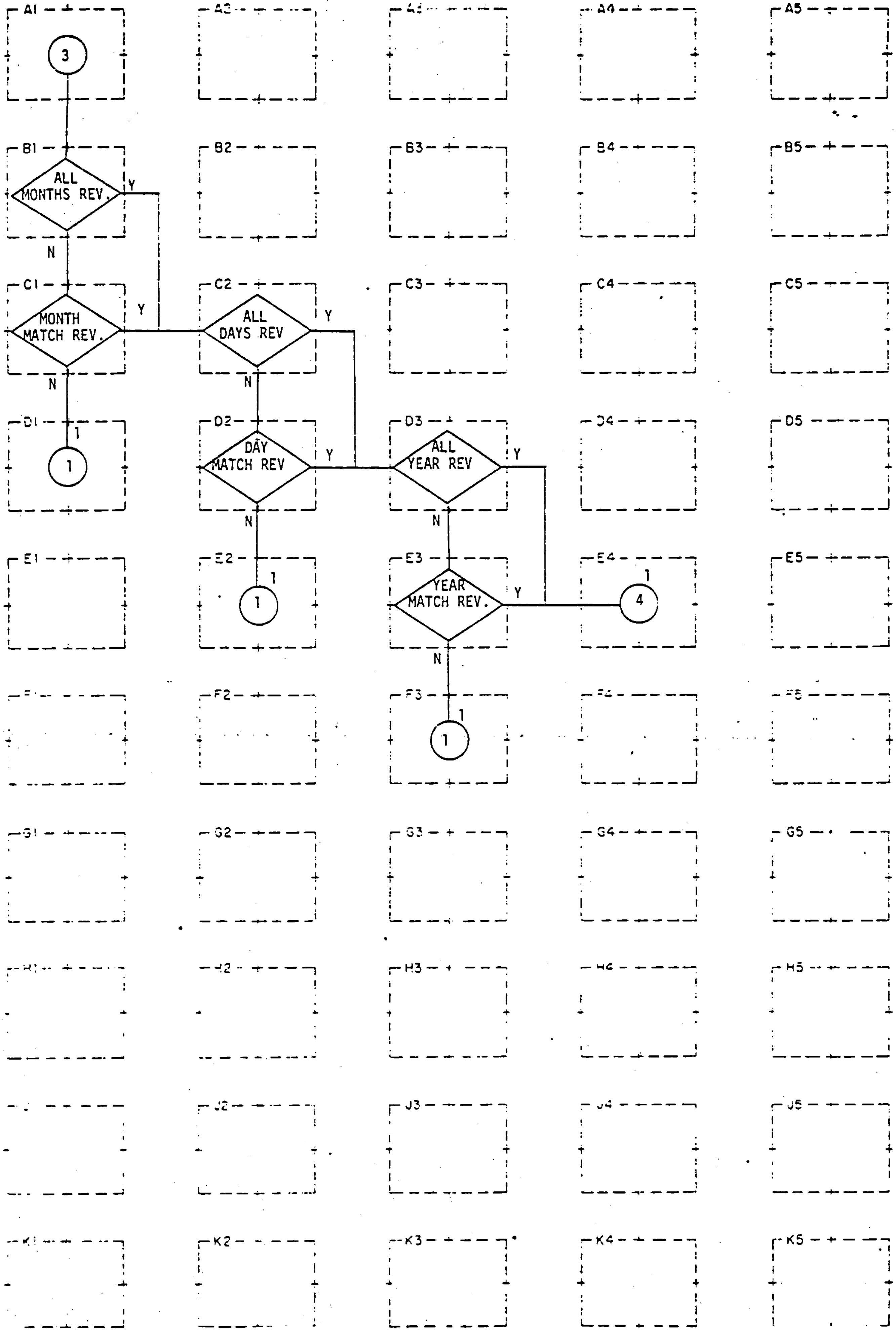


Figure 5.4.2-10

Page (4 of 5)

A1	
B1	(D(1).EQ.0)
C1	(D(1).NE.RDAT(1))
D1	
E1	
F1	
G1	
H1	
J1	
K1	
A2	
B2	
C2	(D(2).EQ.0)
D2	(D(2).NE.RDAT(2))
E2	
F2	
G2	
H2	
J2	
K2	
A3	
B3	
C3	
D3	(D(3).EQ.0)
E3	(D(3).NE.RDAT(3))

Figure 5.4.2-10

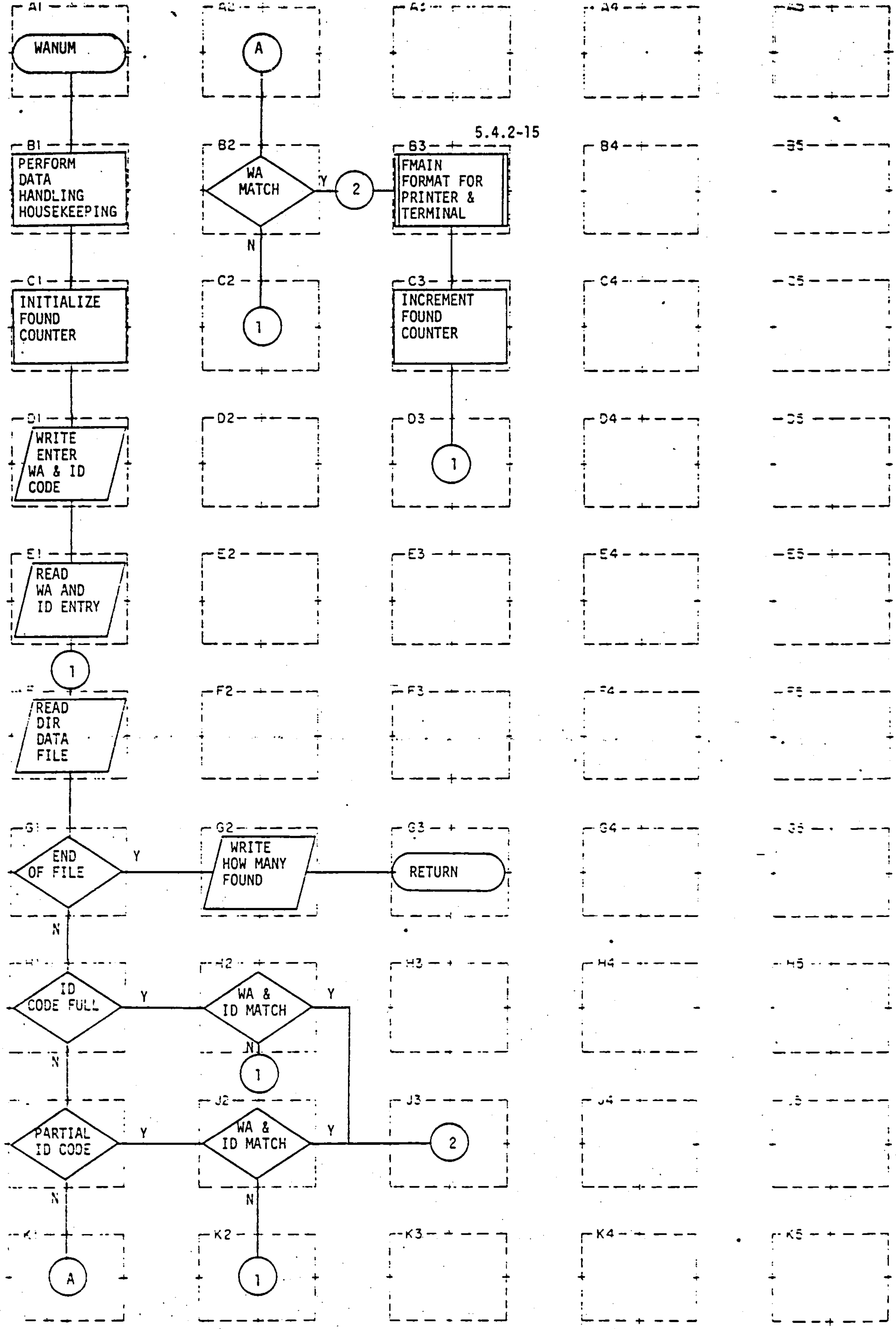


Figure 5.4.2-11

Page (1 of 2)

```
A1
B1    $INSERT COMMON; INTEGER*2
C1    KNT=0
D1    WRITE(1,1)
E1    READ(1,2,ERR=3)DWA
F1    READ(6,END=200)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
G1    see F1
H1    (DWA(4).NE.'  ')
J1    (DWA(3).NE.'  ')
K1
A2
B2    DO 30 I=1,2; (DWA(I).NE.WAN(I))
C2
D2
E2
F2
G2    WRITE(1,250)KNT,DWA
H2    DO 10 I=1,4; (DWA(I).NE.WAN(I))
J2    DO 50 I=1,3; (DWA(I).NE.WAN(I))
K2
A3
B3    FMAIN
C3    KNT=KNT+1
D3
E3
```

Figure 5.4.2-11

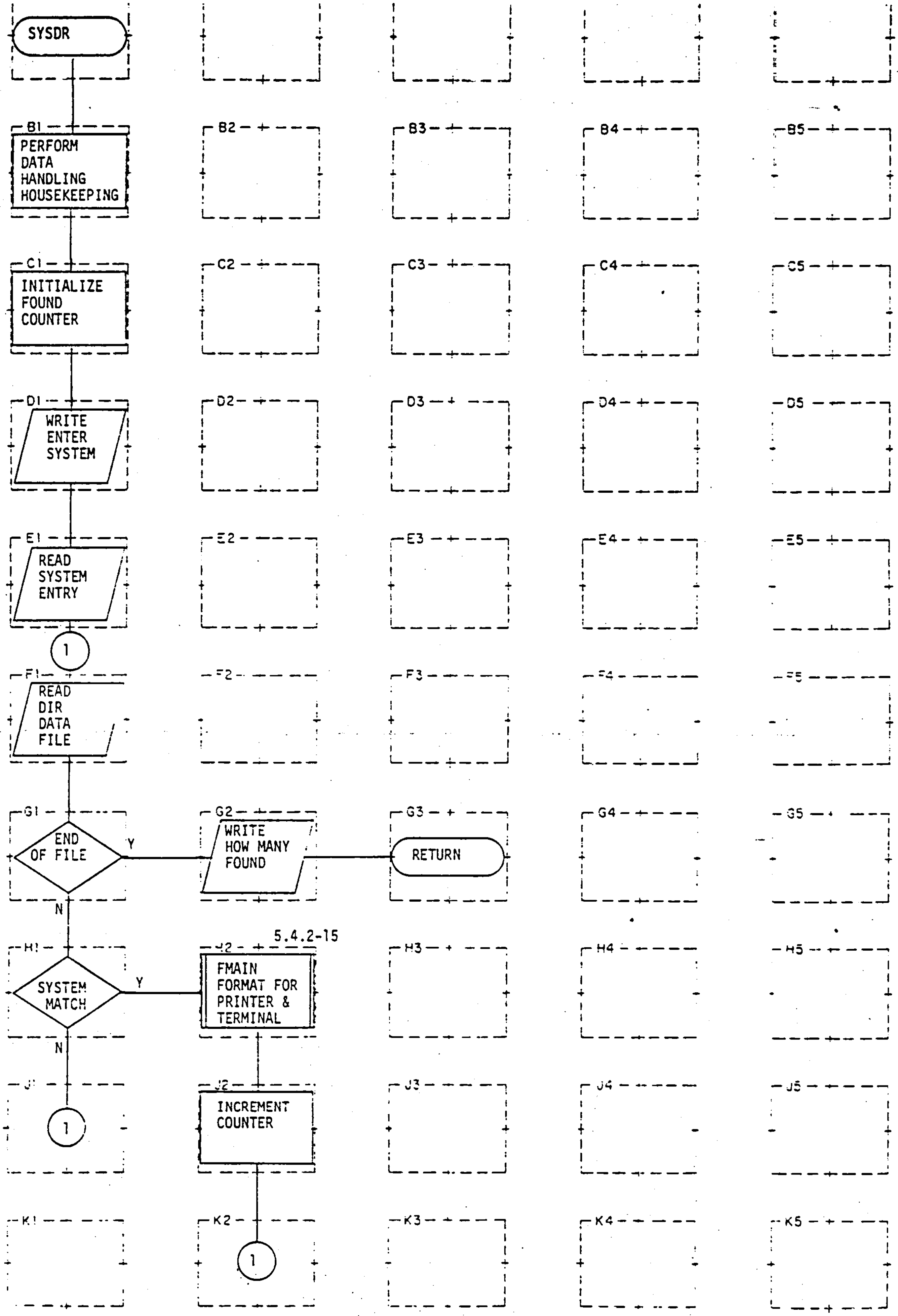


Figure 5.4.2-12

Page (1 of 2)

A1	
B1	$INSERT COMMON; INTEGER*4
C1	KNT=0
D1	WRITE(1,1)
E1	READ(1,2,ERR=3)DS
F1	READ(6,END=200)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
G1	see F1
H1	DO 150 I=1,3; (DS.EQ.SYS(I))
J1	
K1	
A2	
B2	
C2	
D2	
E2	
F2	
G2	WRITE(1,250)KNT,DS
H2	FMAIN
J2	KNT=KNT+1
K2	
A3	
B3	
C3	
D3	
E3	

Figure 5.4.2-12 Page (2 of 2)

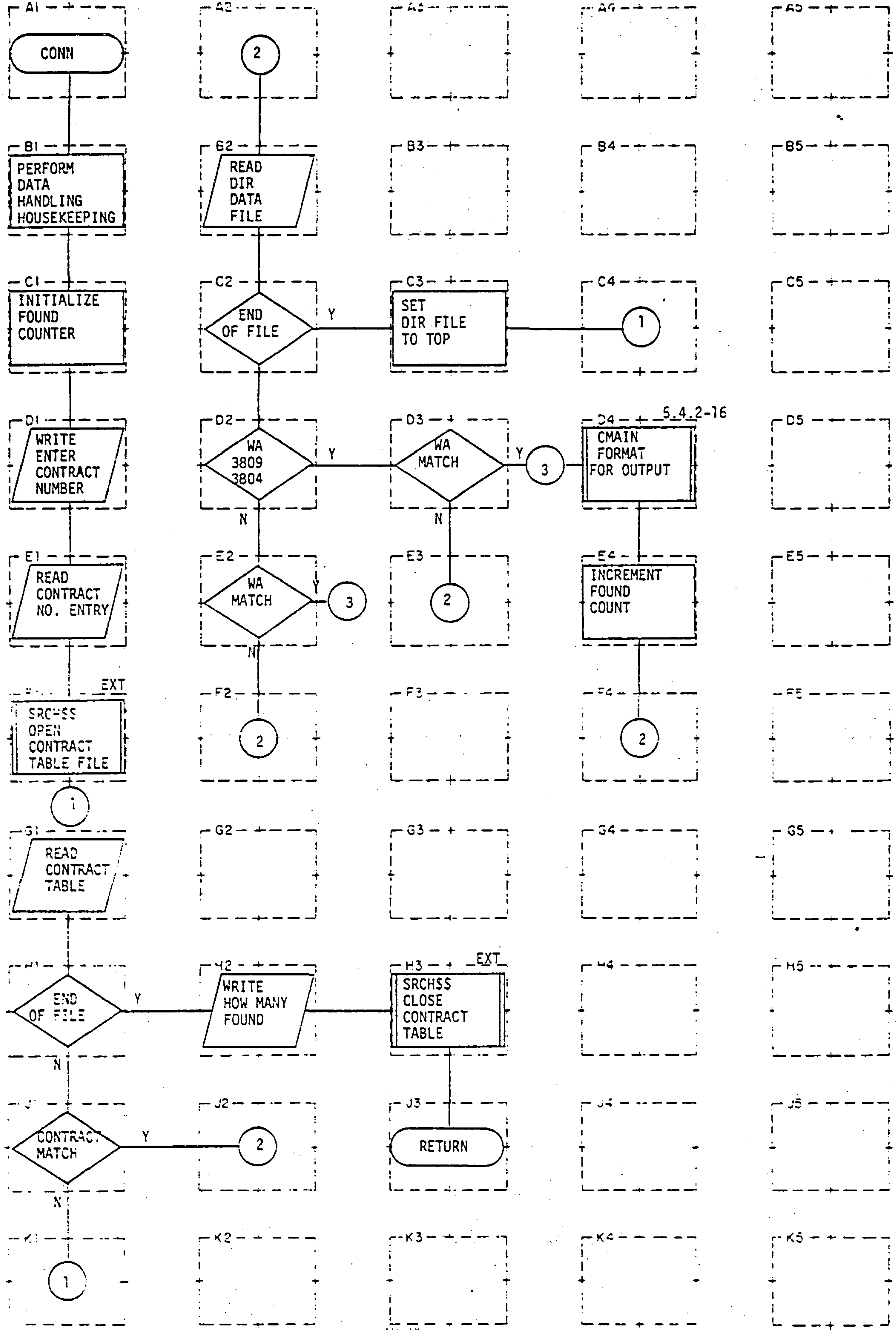


Figure 5.4.2-13

Page (1 of 3)

A1

B1 $INSERT COMMON; $INSERT SYSCOM >KEYS.F; INTEGER*4

C1 KNT=0

D1 WRITE(1,3)

E1 READ(1,2,ERR=1)DC

F1 SRCH$$(K$RDWR+K$NDAM,'CTAB',6,14,IT,IC)

G1 READ(18,40,END=200)WA,CON

H1 see G1

J1 DO 45 I=1,5

K1 (CON(I).NE.DC(I))

A2 -

B2 READ(6,END=90)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT

C2 see B2

D2 (WA(1).EQ.'38'.AND.WA(2).EQ.'04'.OR.WA(2).EQ.'09')

E2 (WAN(1).NE.WA(2)); (WAN(2).NE.WA(2))

F2

G2

H2 WRITE(1,250)KNT,DC

J2

K2

A3

B3

C3 REWIND 6

D3 DO 665 I=1,4; (WAN(I).NE.WA(I))

E3

Figure 5.4.2-13 Page (2 of 3)

```
F3
G3
H3    SRCH$$(K$CLOS,'CTAB',6,0,0,0)
J3
K3
A4
B4
C4
D4    CMAIN
E4    KNT=KNT+1
F4
G4
H4
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.2-13

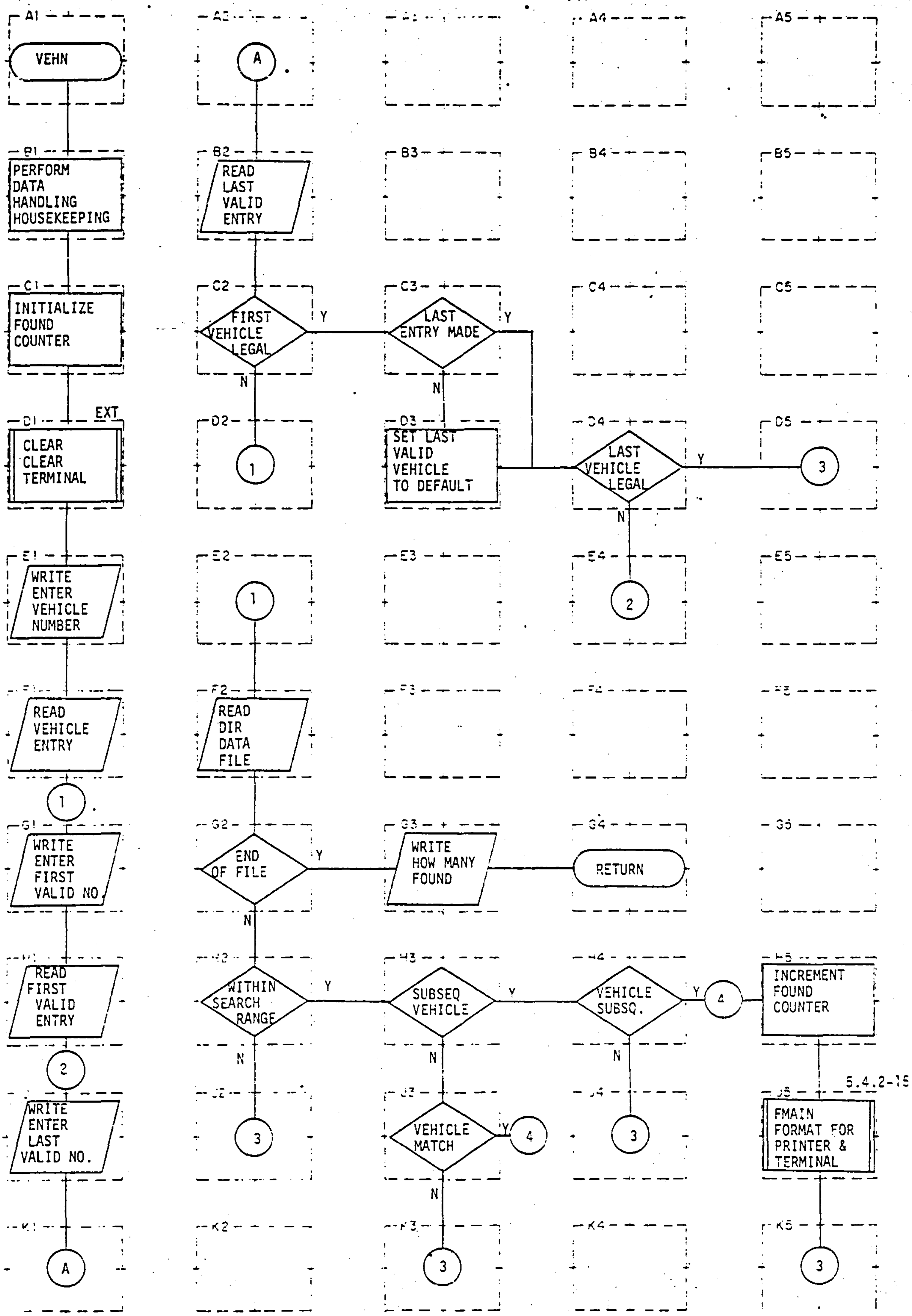


Figure 5.4.2-14

Page (1 of 3)

A1	
B1	$INSERT COMMON; INTEGER*2
C1	VKNT=0
D1	CLEAR
E1	WRITE(1,2)
F1	READ(1,3,ERR=1)VEH1
G1	WRITE(1,100)
H1	READ(1,101,ERR=100)(VS(I),I=1,2)
J1	WRITE(1,102)
K1	
A2	
B2	READ(1,101,ERR=998)(VS(I),I=3,4)
C2	(VEH1(1).LT.VS(1))
D2	
E2	
F2	READ(6,END=202)TIT,PTIT,DIR,DT,SYS,WAN,VEH,REV,RDAT
G2	see F2
H2	(VEH(1,1).LT.VS(1)); (VEH(2,1).GT.VS(3))
J2	
K2	
A3	
B3	
C3	(VS(3).EQ.0)
D3	VS(3)=999
E3	

Figure 5.4.2-14

F3

G3 WRITE(1,201)VKNT,VEH

H3 (VEH(1,2).NE.'S'.AND.VEH(1,1).EQ.VEH1(1))

J3 see H3, H4

K3

A4

B4

C4

D4 (VS(3).LT.VEH1(1))

E4

F4

G4

H4 (VEH(1,2).EQ.'S'.AND.VEH(1,1).LE.VEH1(1))

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5 VKNT=VKNT+1

J5 FMAIN

K5

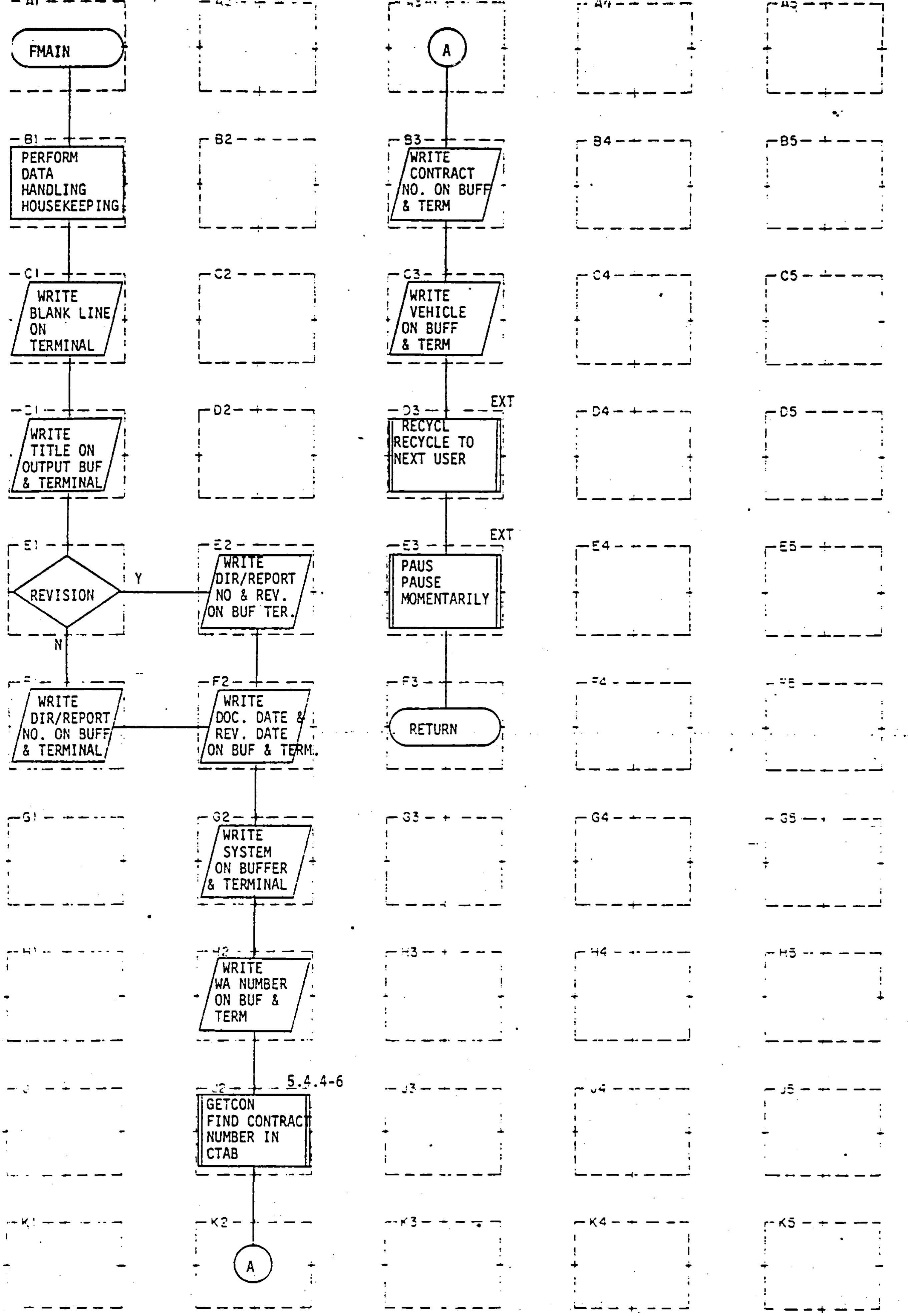


Figure 5.4.2-15

Page (1 of 2)

```
A1
B1      $INSERT COMMON
C1      WRITE(1,998); WRITE(7,999)
D1      WRITE(1,101); WRITE(7,101); WRITE(1,102)TIT;
        WRITE(7,102)TIT
E1      (REV.NE.'  ')
F1      WRITE(1,150)DIR,REV; WRITE(7,150)DIR,REV
G1
H1
J1
K1
A2
B2
C2
D2
E2      WRITE(1,202)DIR,REV; WRITE(7,202)DIR,REV
F2      WRITE(7,402)DT,RDAT; WRITE(7,402)DT,RDAT
G2      WRITE(1,502)SYS; WRITE(7,502)SYS
H2      WRITE(1,602)WAN; WRITE(7,602)WAN
J2      GETCON
K2
A3
B3      WRITE(1,702)CON; WRITE(7,702)CON
        WRITE(1,902)((VEH(I,J),J=1,2),I=1,2); WRITE(7,902)
C3      ((VEH(I,J),J=1,2),I=1,2)
D3      RECYCL
E3      PAUS
```

Figure 5.4.2-15 Page (2 of 2)

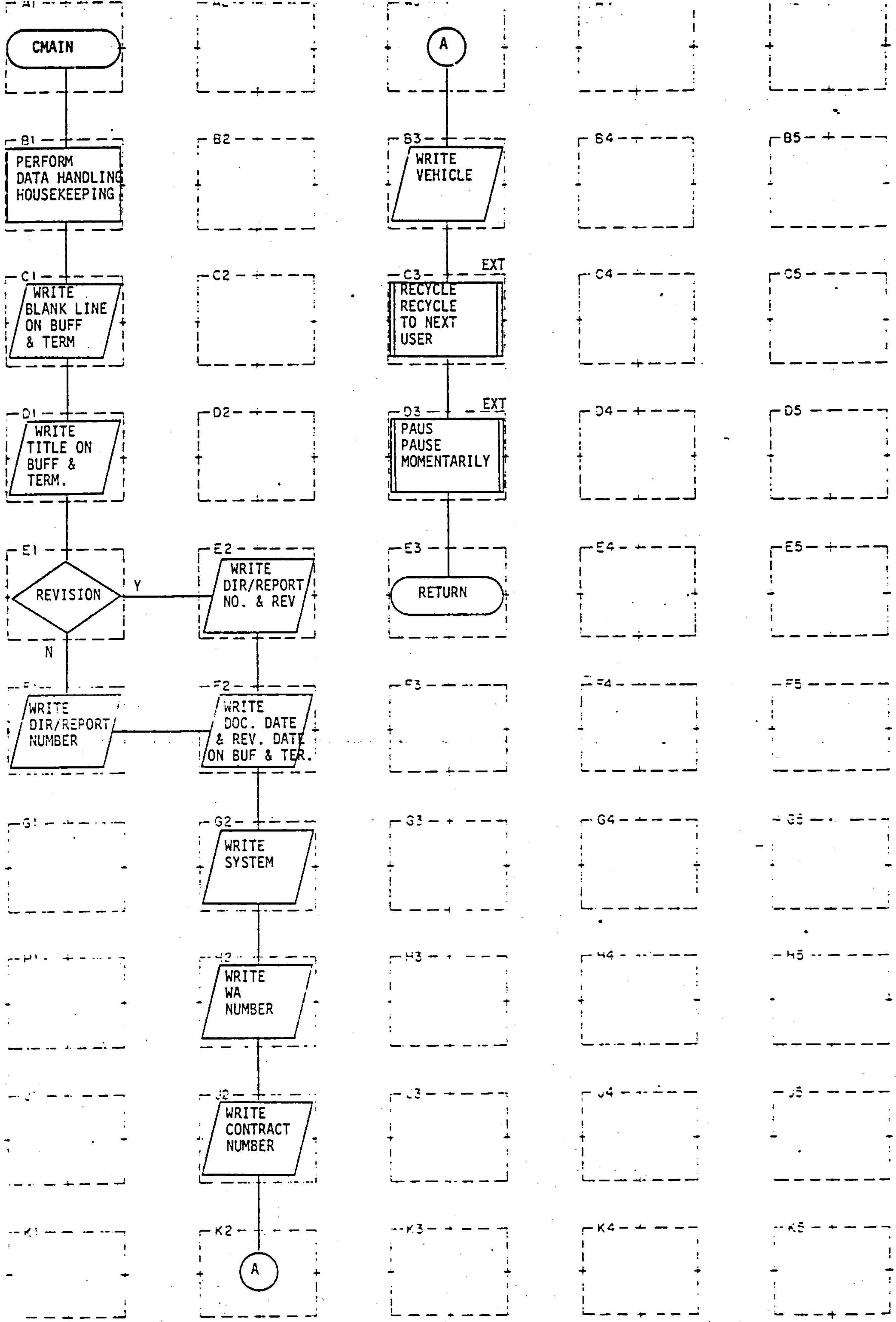


Figure 5.4.2-16

```
A1
B1    $INSERT COMMON
C1    WRITE(1,998); WRITE(7,999)
D1    WRITE(1,101); WRITE(7,101); WRITE(1,102)TIT;
      WRITE(7,102)TIT
E1    (REV.NE.'  ')
F1    WRITE(1,150)DIR,REV; WRITE(7,150)DIR,REV
G1
H1
J1
K1
A2
B2
C2
D2
E2    WRITE(1,202)DIR,REV; WRITE(7,202)DIR,REV
F2    WRITE(7,402)DT,RDAT; WRITE(1,402)DT,RDAT
G2    WRITE(1,502)SYS; WRITE(7,602)WAN
H2    WRITE(1,602)WAN; WRITE(7,602)WAN
J2    WRITE(1,702)CON; WRITE(7,702)CON
K2
A3
B3    WRITE(1,902)((VEH(I,J),J=1,2),I=1,2);
      WRITE(7,902)((VEH(I,J),J=1,2),I=1,2)
C3    RECYCL
D3    PAUS
E3
```

Figure 5.4.2-16

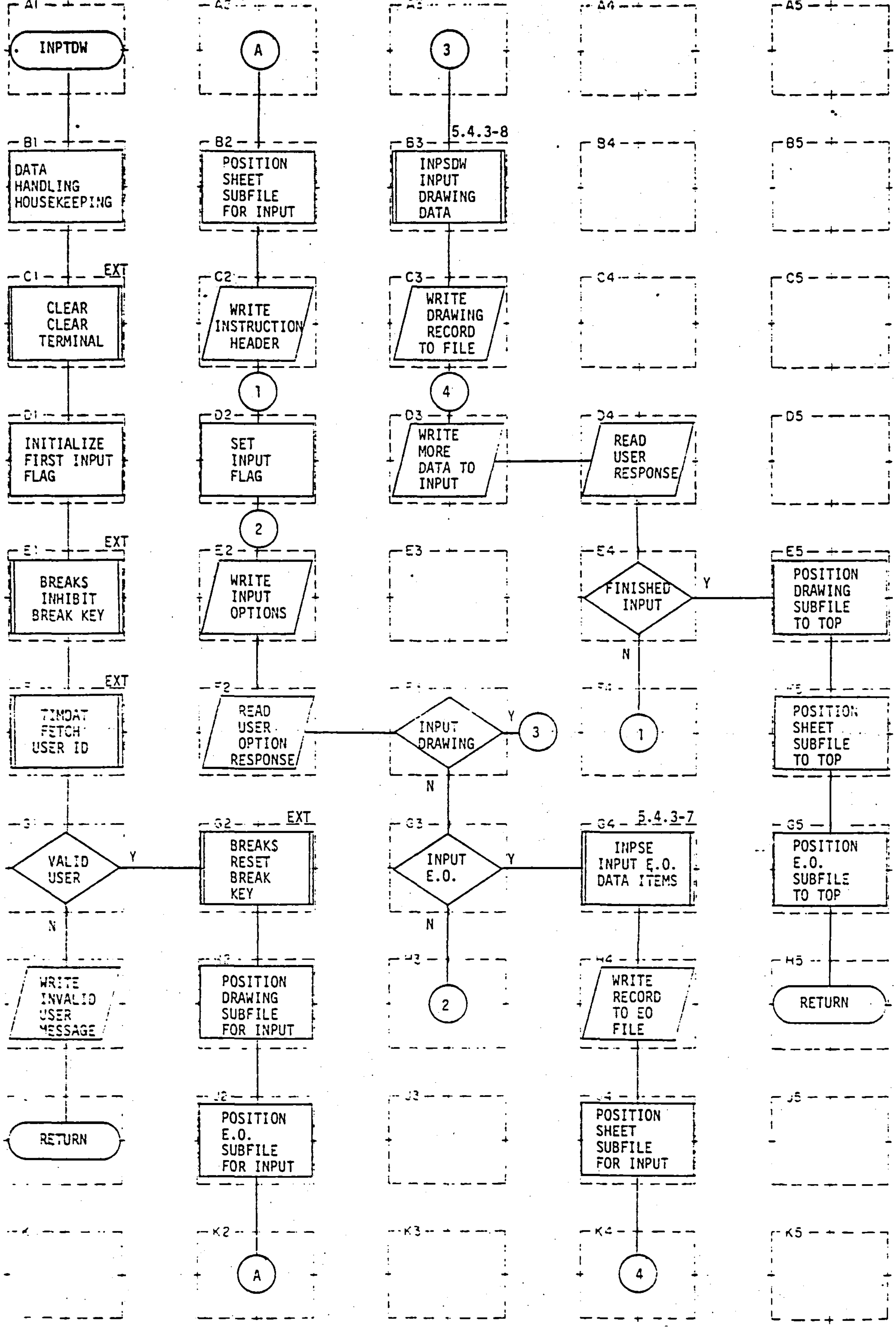


Figure 5.4.3-1

Page (1 of 3)

```
A1
B1   $INSERT COMMON; INTEGER*2
C1   CLEAR
D1   FIRST=0
E1   BREAK$(.TRUE.)
F1   TIMDAT(A,15)
G1   (A(13).EQ.'JW'.OR.A(13).EQ.'NH'.OR.A(13).EQ.'RJ'.OR.A(13).EQ.'DK')
H1   WRITE(1,4) ('SORRY, YOU ARE NOT VALIDATED TO USE THIS MODE.')
J1
K1
A2
B2   READ(12,END=2003)DRW,SHTN,REV,NEO,EOREF
C2   WRITE(1,1)
D2   R=0
E2   WRITE (1,101)
F2   READ(1,1002)IANS
G2   BREAK$(.FALSE.)
H2   READ(6,END=2001)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
J2   READ(18,END= 2002)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
K2
A3
B3   INPSDW
C3   WRITE(6)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
D3   WRITE(1,1001)
E3
```

Figure 5.4.3-1 Page (2 of 3)

```
F3   (IANS.EQ.'D')
G3   (IANS.NE.'E')
H3
J3
K3
A4
B4
C4
D4   READ(1,1002)IANS
E4   (IANS.EQ.'Y'); (IANS.NE.'N')
F4
G4   INPSE
H4   WRITE(18)EDN,ETIT,EPTIT,EDREV,EDT,ERDT,EOVEH
J4   READ(12,END=1000)DRW,SHTN,REV,NEO,EOREF
K4
A5
B5
C5
D5
E5   REWIND 6
F5   REWIND 12
G5   REWIND 18
H5
J5
K5
```

Figure 5.4.3-1 Page (3 of 3)

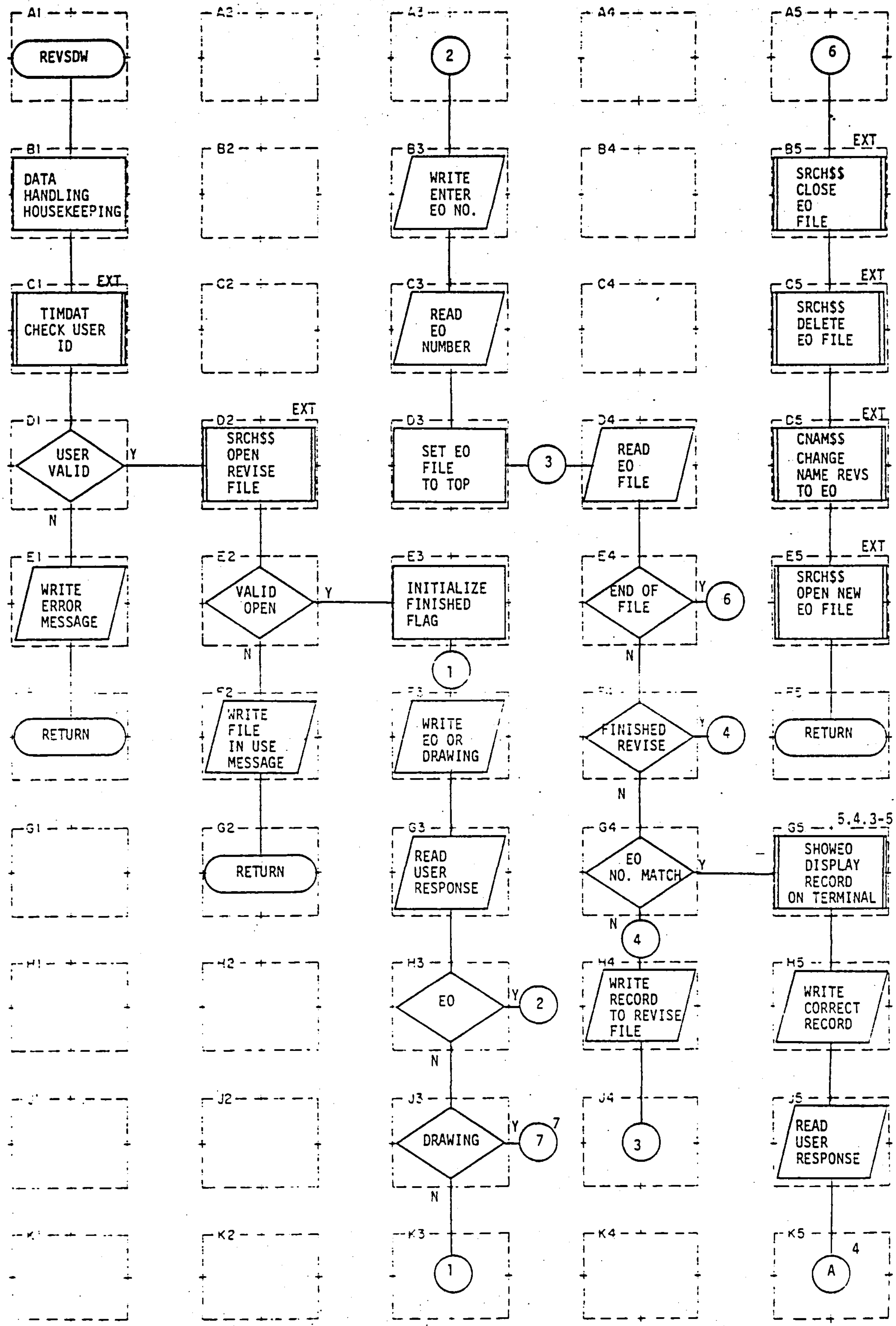


Figure 5.4.3-2

Page (1 of 9)

```
A1

B1   $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*4;*2

C1   TIMDAT(A,15)

D1   (A(13).EQ.'JW'.OR.A(13).EQ.'NH'.OR.A(13).EQ.'RJ'.OR.A(13).EQ.'DK')

E1   WRITE(1,4)('SORRY, YOU ARE NOT VALIDATED TO USE THIS MODE.')

F1

G1

H1

J1

K1

A2

B2

C2

D2   SRCH$$(K$RDWR+K$NDAM,'REVS',6,4,1,IC)

E2   (IC.NE.0)

F2   WRITE(1,3001)

G2

H2

J2

K2

A3

B3   WRITE(1,11)

C3   READ(1,21,ERR=31)IEO

D3   REWIND 18

E3   FINISH=0
```

Figure 5.4.3-2 Page (2 of 9)

F3 WRITE(1,301)

G3 READ(1,302)IANS

H3 (IANS.EQ.'E')

J3 (IANS.NE.'D')

K3

A4

B4

C4

D4 READ(18,END=201)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH

E4 PERFORMED BY D4

F4 (FINISH.EQ.1)

G4 DO 111 I=1,2; (IEO(I).NE.EON(I))

H4 WRITE(8)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH

J4

K4

A5

B5 SRCH$$(K$CLOS,'EO',6,0,0,0)

C5 SRCH$$(K$DELE,'EO',6,0,0,0)

D5 CNAM$$('REVS',6,'EO',6,IC)

E5 SRCH$$(K$RDWR+K$NDAM,'EO',6,14,1,IC)

F5

G5 SHOWEO

H5 WRITE(1,1700)

J5 READ(1,50)IOPT

K5

Figure 5.4.3-2 Page (3 of 9)

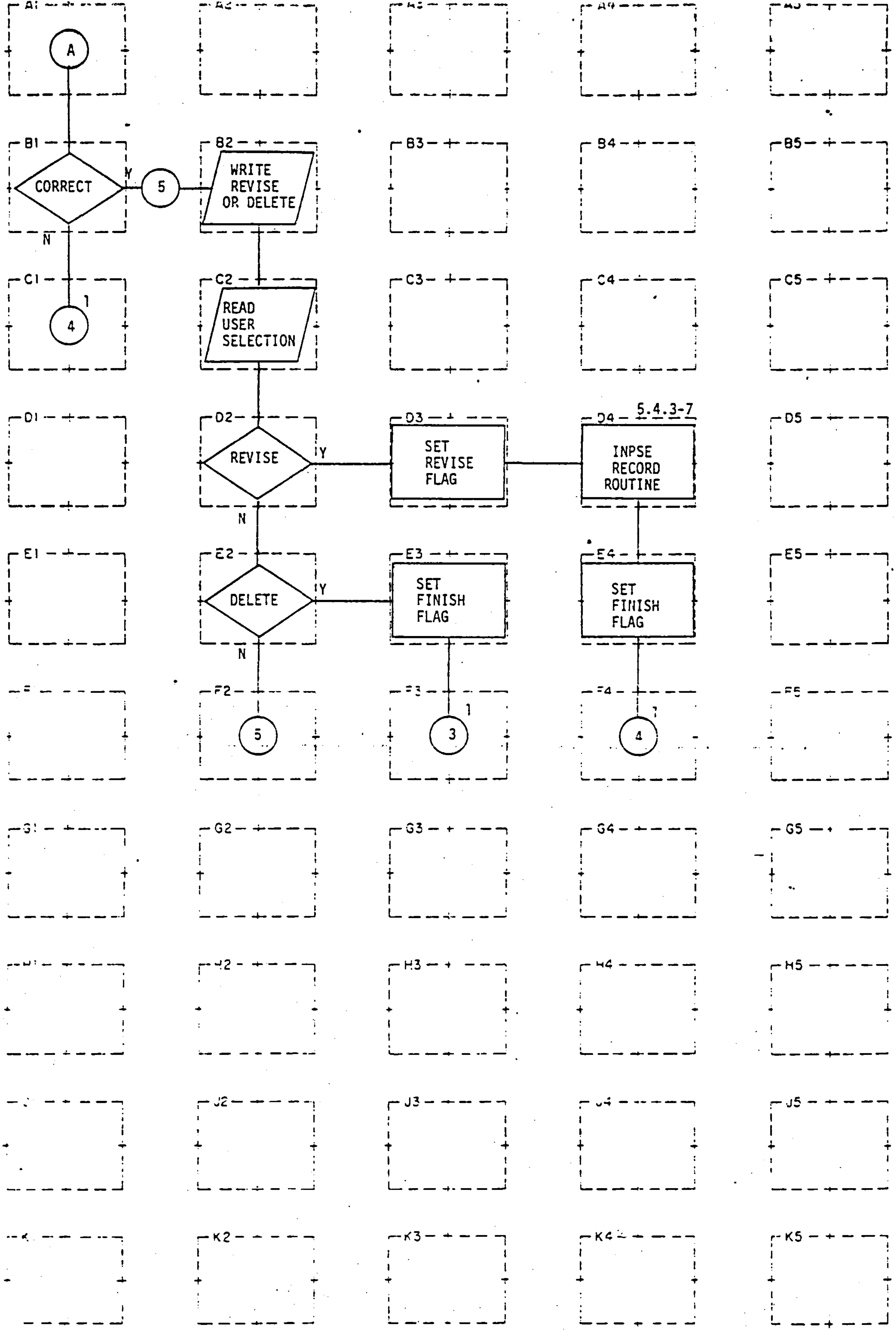


Figure 5.4.3-2 Page (4 of 9)

A1

B1 (IOPT.EQ.'NO'); (IOPT.NE.'YE')

C1

D1

E1

F1

G1

H1

J1

K1

A2

B2 WRITE(1,2000)

C2 READ(1,50)IOPT

D2 (IOPT.EQ.'RE')

E2 (IOPT.NE.'DE')

F2

G2

H2

J2

K2

A3

B3

C3

D3 R=1

E3 FINISH=1

Figure 5.4.3-2 Page (5 of 9)

F3

G3

H3

J3

K3

A4

B4

C4

D4 INPSE

E4 FINISH=1

F4

G4

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.3-2 Page (6 of 9)

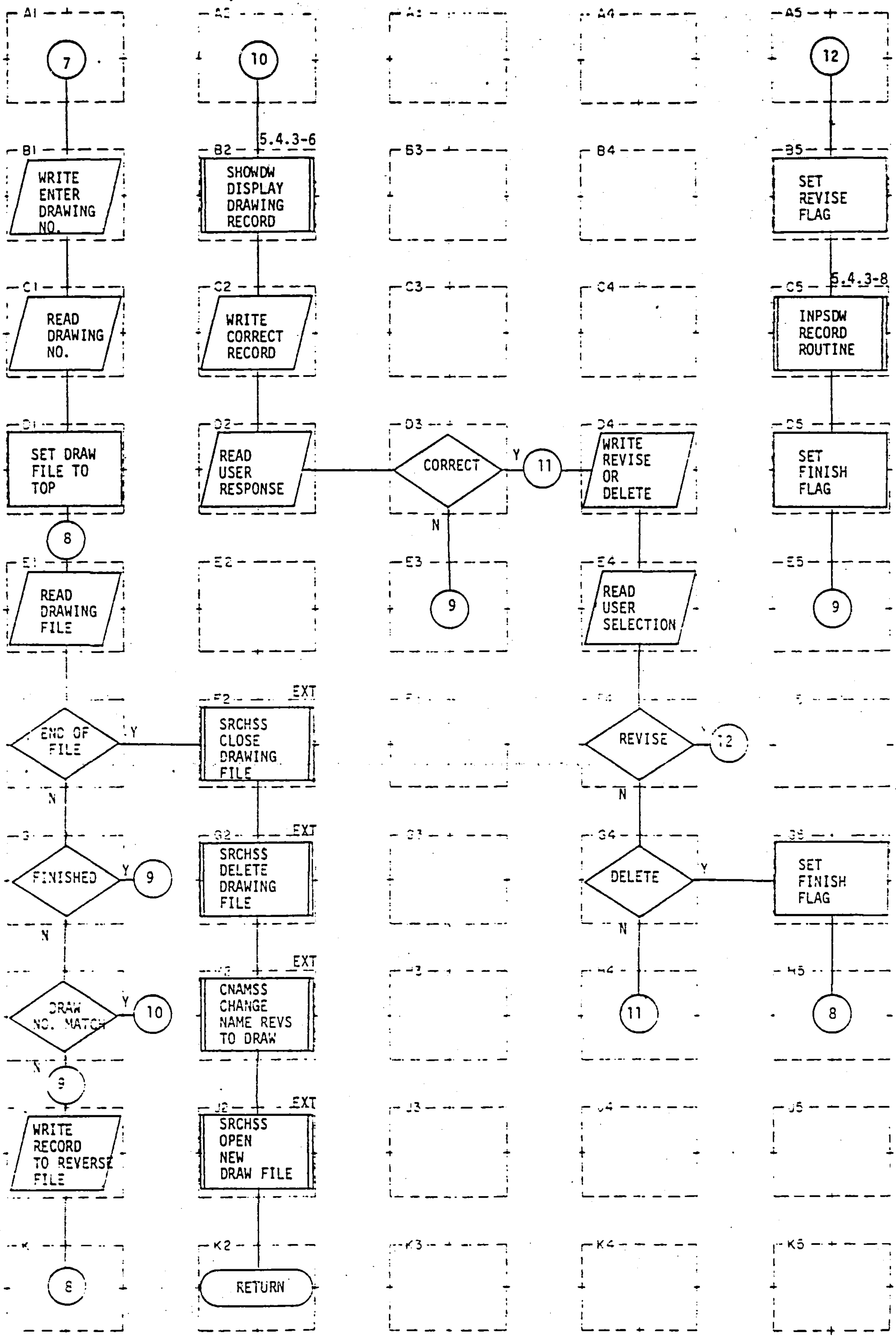

A1
7
A2
10
A4
A5
12
B1
WRITE ENTER DRAWING NO.
5.4.3-6
B2
SHOWDW DISPLAY DRAWING RECORD
B3
B4
B5
SET REVISE FLAG
C1
READ DRAWING NO.
C2
WRITE CORRECT RECORD
C3
C4
5.4.3-8
C5
INPSDW RECORD ROUTINE
SET DRAW FILE TO TOP
D2
READ USER RESPONSE
D3
CORRECT
Y
N
11
D4
WRITE REVISE OR DELETE
SET FINISH FLAG
8
READ DRAWING FILE
E2
E3
9
E4
READ USER SELECTION
E5
9
EXT
F2
END OF FILE
Y
N
SRCHSS CLOSE DRAWING FILE
REVISE
N
EXT
FINISHED
Y
9
N
SRCHSS DELETE DRAWING FILE
G4
DELETE
Y
N
SET FINISH FLAG
EXT
DRAW NO. MATCH
Y
10
N
9
CNAMSS CHANGE NAME REVS TO DRAW
11
H5
8
EXT
J2
WRITE RECORD TO REVERSE FILE
SRCHSS OPEN NEW DRAW FILE
J3
J5
8
K2
RETURN
K3
K4
K5

Figure 5.4.3-2

```
A1
B1    WRITE(1,1)
C1    READ(1,2,ERR=5)IDRAW
D1    REWIND 6
E1    READ(6,END=200)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
F1    PERFORMED BY E1
G1    (FINISH.EQ.1)
H1    DO 110I=1,4; (IDRAW(I).NE.DRAW(I))
J1    WRITE(8)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
K1
A2
B2    SHOWDW
C2    WRITE(1,1700)
D2    READ(1,50)IOPT
E2
F2    SRCH$$(K$CLOS,'DRAW',6,0,0,0)
G2    SRCH$$(K$DELE,'DRAW',6,0,0,0)
H2    CNAM$$('REVS',6,'DRAW',6,IC)
J2    SRCH$$(K$RDWR+K$NDAM,'DRAW',6,2,1,IC)
K2
A3
B3
C3
D3    (IOPT.EQ.'NO'); (IOPT.NE.'YE')
E3
```

Figure 5.4.3-2 Page (8 of 9)

```
F3
G3
H3
J3
K3
A4
B4
C4
D4   WRITE(1,2000)
E4   READ(1,50)IOPT
F4   (IOPT.EQ.'RE')
G4   (IOPT.EQ.'DE')
H4
J4
K4
A5
B5   R=1
C5   INPSDW
D5   FINISH=1
E5
F5
G5   FINISH=1
H5
J5
K5
```

Figure 5.4.3-2 Page (9 of 9)

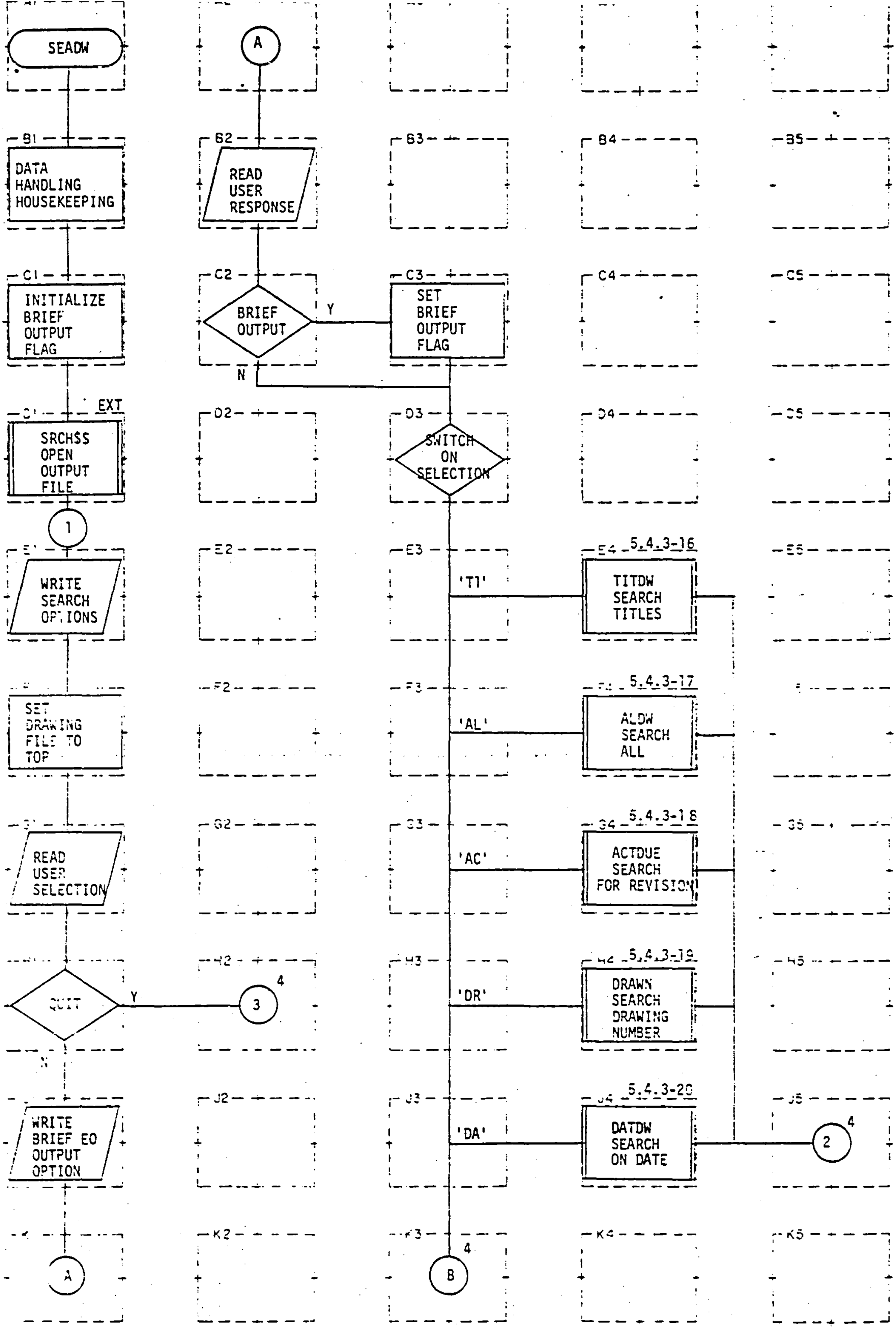


Figure 5.4.3-3

Page (1 of 6)

```
A1
B1    $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*2
C1    J=:401; R=0
D1    SRCH$$(K$RDWR+K$NSAM,'OUT',6,3,0,0)
E1    WRITE(1,1)
F1    REWIND 6
G1    READ(1,3)IDES
H1    (IDES.EQ.'QU')
J1    WRITE(1,110)
K1
A2
B2    READ(1,3)IOPT
C2    (IOPT.EQ.'NO'); (IOPT.NE.'YE')
D2
E2
F2
G2
H2
J2
K2
A3
B3
C3    R=1
D3    PERFORMED BY E3 THRU J3 (PAGES 2 & 3) and B1 THRU F1 (PAGE 5 of 6)
E3    (IDES.EQ.'TI')
```

Figure 5.4.3-3 Page (2 of 6)

F3	(IDES.EQ.'AL')
G3	(IDES.EQ.'AC')
H3	(IDES.EQ.'DR')
J3	(IDES.EQ.'DA')
K3	
A4	
B4	
C4	
D4	
E4	TITDW
F4	ALDW
G4	ACTDUE
H4	DRAWN
J4	DATDW
K4	
A5	
B5	
C5	
D5	
E5	
F5	
G5	
H5	
J5	
K5	

Figure 5.4.3-3 Page (3 of 6)

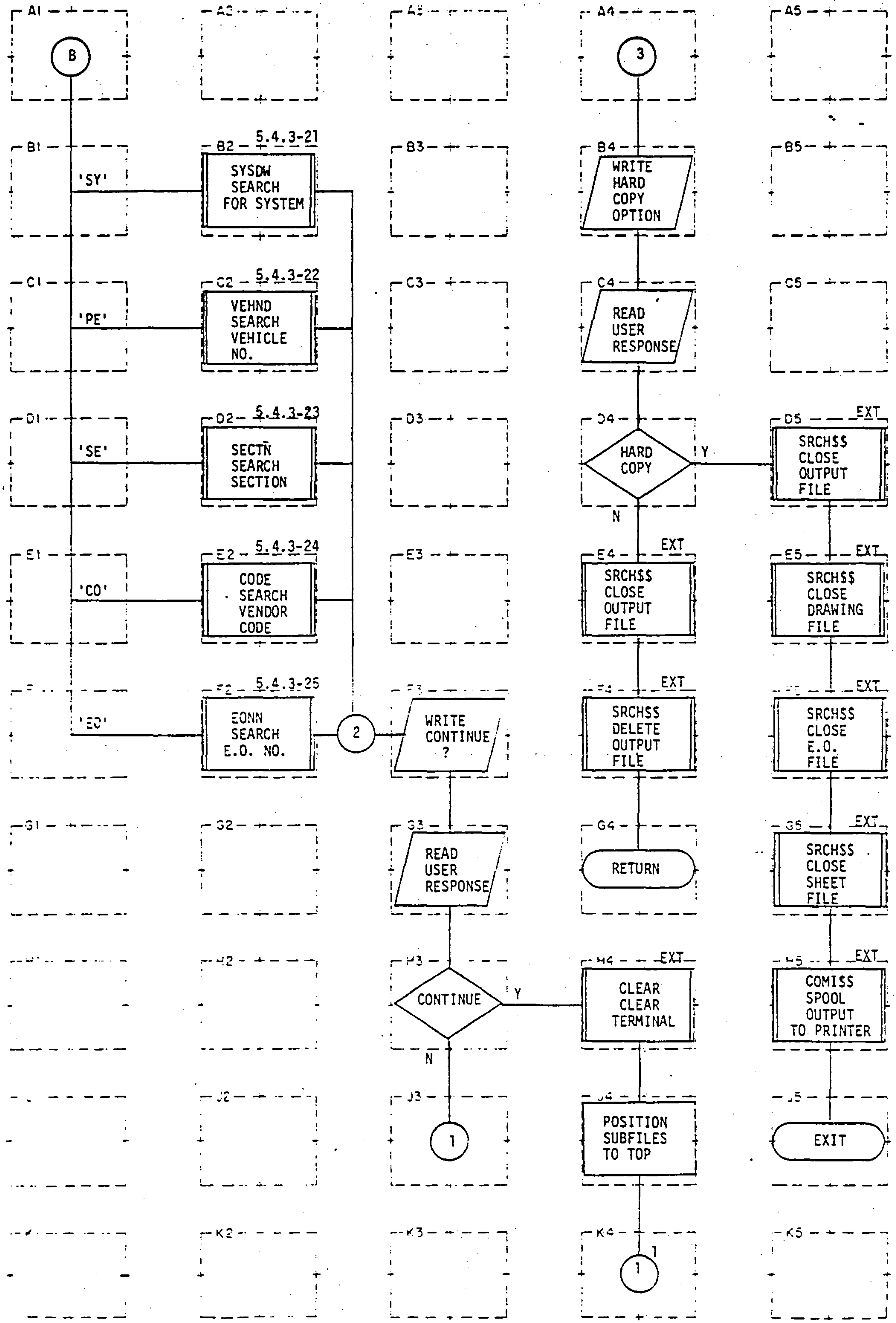


Figure 5.4.3-3

Page (4 of 6)

A1	
B1	(IDES.EQ.'SY')
C1	(IDES.EQ.'VE')
D1	(IDES.EQ.'SE')
E1	(IDES.EQ.'CO')
F1	(IDES.EQ.'EO')
G1	
H1	
J1	
K1	
A2	
B2	SYSDW
C2	VEHND
D2	SECTN
E2	CODE
F2	EONN
G2	
H2	
J2	
K2	
A3	
B3	
C3	
D3	
E3	

Figure 5.4.3-3 Page (5 of 6)

F3	WRITE(1,98)
G3	READ(1,9999)IDES
H3	(IDES.NE.' ')
J3	
K3	
A4	
B4	WRITE(1,11)
C4	READ(1,3)IDES
D4	(IDES.EQ.'YE'); (IDES.EQ.'NO')
E4	SRCH$$(K$CLOS,'OUT',6,0,0,0)
F4	SRCH$$(K$DELE,'OUT',6,0,0,0)
G4	
H4	CLEAR
J4	REWIND 6; REWIND 12; REWIND 18
K4	
A5	
B5	
C5	
D5	SRCH$$(K$CLOS,'OUT',6,0,0,0)
E5	SRCH$$(K$CLOS,'DRAW',6,0,0,0)
F5	SRCH$$(K$CLOS,'EO',6,0,0,0)
G5	SRCH$$(K$CLOS,'SHEET',6,0,0,0)
H5	COMI$$('SOUT',4,12,IC)
J5	
K5	

Figure 5.4.3-3

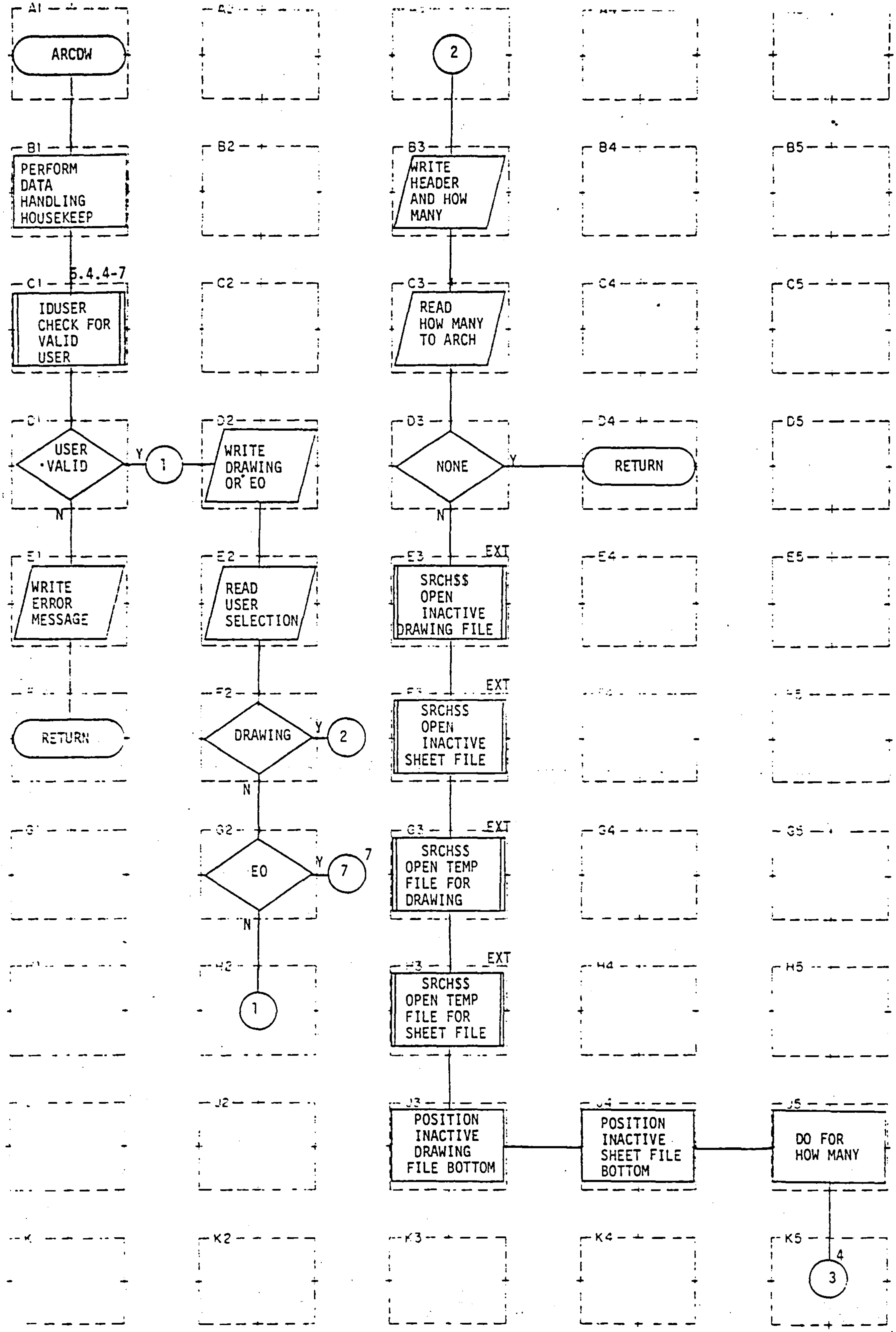

ARCDW
PERFORM DATA HANDLING HOUSEKEEP
5.4.4-7
IDUSER CHECK FOR VALID USER
USER VALID
Y
1
N
WRITE ERROR MESSAGE
RETURN
WRITE DRAWING OR EO
READ USER SELECTION
DRAWING
Y
2
N
EO
Y
7
7
N
1
2
WRITE HEADER AND HOW MANY
READ HOW MANY TO ARCH
NONE
Y
RETURN
N
EXT
SRCH$$ OPEN INACTIVE DRAWING FILE
EXT
SRCHSS OPEN INACTIVE SHEET FILE
EXT
SRCHSS OPEN TEMP FILE FOR DRAWING
EXT
SRCH$S OPEN TEMP FILE FOR SHEET FILE
POSITION INACTIVE DRAWING FILE BOTTOM
POSITION INACTIVE SHEET FILE BOTTOM
DO FOR HOW MANY
4
3

Figure 5.4.3-4

A1

B1 $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*2

C1 IDUSED (IAI)

D1 (IAI.EQ.'SY')

E1 WRITE(1,500) ('SORRY YOU ARE NOT VALIDATED TO USE THIS ROUTINE.')

F1

G1

H1

J1

K1

A2

B2

C2

D2 WRITE(1,6)

E2 READ(1,7)IOPT

F2 (IOPT.EQ.'DR')

G2 (IOPT.NE.'EO')

H2

J2

K2

A3

B3 WRITE(1,1)

C3 READ(1,2,ERR=10)IKNT

D3 (IKNT.EQ.0)

E3 SRCH$$(K$RDWR+K$NDAM,'INACTD',6,5,1,IC)

Figure 5.4.3-4

```
F3    SRCH$$(K$RDWR+K$NDAM,'INACTS',6,7,1,IC)
G3    SRCH$$(K$RDWR+K$NDAM,'TEMP',6,6,1,IC)
H3    SRCH$$(K$RDWR+K$NDAM,'STEMP',6,10,1,IC)
J3    READ(9,END=60)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
K3
A4
B4
C4
D4
E4
F4
G4
H4
J4    READ(11,END=75)DRW,SHTN,REV,NEO,EOREF
K4    DO9999 ILOOP=1,IKNT
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.3-4 Page (3 of 12)

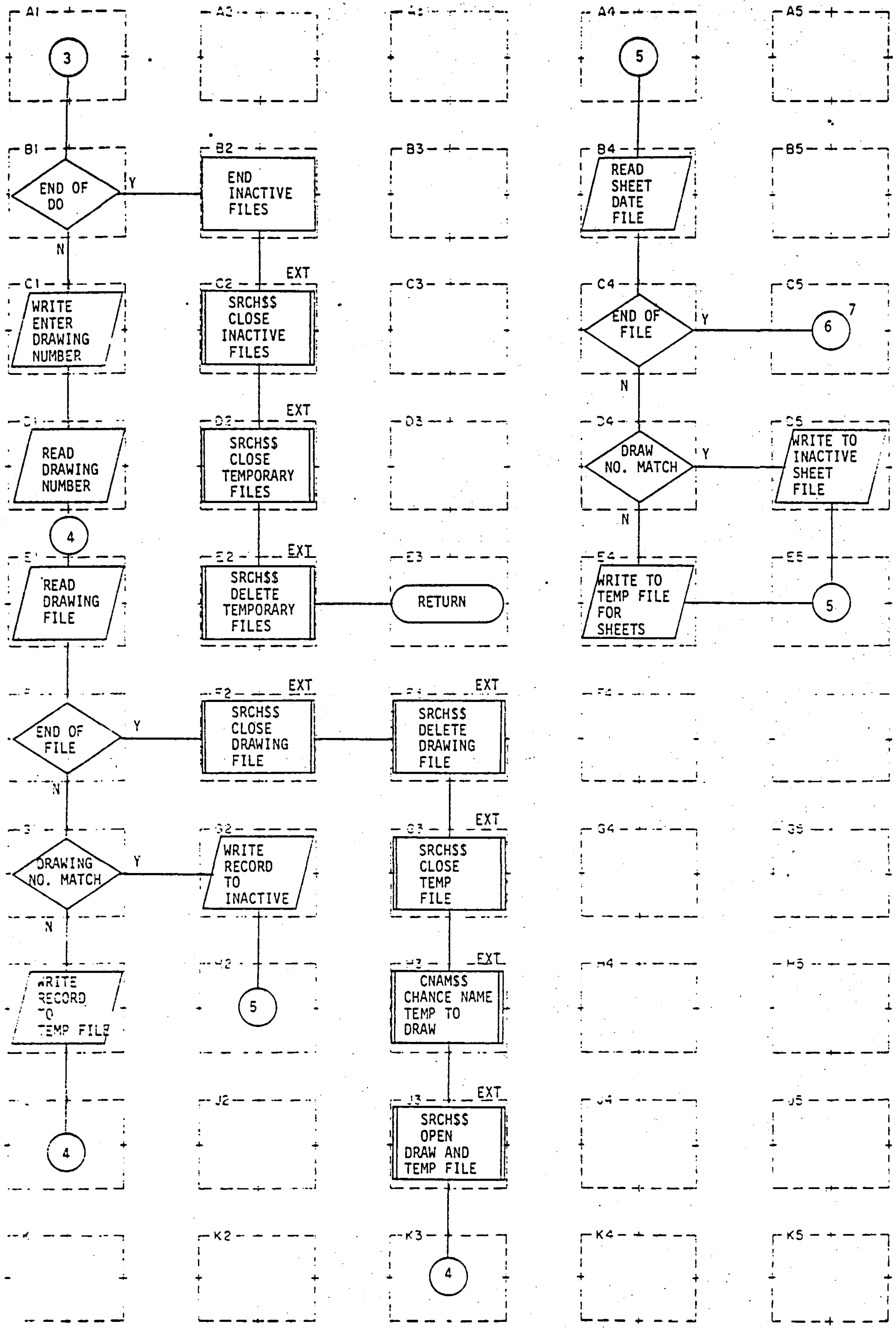

3
END OF DO
Y
N
END INACTIVE FILES
EXT
WRITE ENTER DRAWING NUMBER
SRCH$$ CLOSE INACTIVE FILES
READ DRAWING NUMBER
SRCH$$ CLOSE TEMPORARY FILES
4
READ DRAWING FILE
SRCH$$ DELETE TEMPORARY FILES
RETURN
END OF FILE
SRCHSS CLOSE DRAWING FILE
SRCH$$ DELETE DRAWING FILE
DRAWING NO. MATCH
WRITE RECORD TO INACTIVE
SRCH$$ CLOSE TEMP FILE
WRITE RECORD TO TEMP FILE
5
CNAM$$ CHANCE NAME TEMP TO DRAW
SRCH$$ OPEN DRAW AND TEMP FILE
4
5
READ SHEET DATE FILE
END OF FILE
6
DRAW NO. MATCH
WRITE TO INACTIVE SHEET FILE
WRITE TO TEMP FILE FOR SHEETS
5

Figure 5.4.3-4

```
A1
B1    PERFORMED BY J5 (PAGE 3 of 12)
C1    WRITE(1,80)
D1    READ(1,81,ERR=82)IDR
E1    READ(6,END=200)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNED,FEOREF
F1    PERFORMED BY E1
G1    DO150 I =1,4; (IDR(I).NE.DRAW(I))
H1    WRITE(10)DRAW,TIT,PTIT,OT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
J1
K1
A2
B2    ENDFILE 9; ENDFILE 11
C2    SRCH$$(K$CLOS,'INACTD',6,0,0,0); SRCH$$(K$CLOS,'INACTS',6,0,0,0)
D2    SRCH$$(K$CLOS,'TEMP',6,0,0,0); SRCH$$(K$CLOS,'STEMP',6,0,0,0)
E2    SRCHSS(K$DELE,'TEMP',6,0,0,0); SRCH$$(K$DELE,'STEMP',6,0,0,0)
F2    SRCH$$(K$CLOS,'DRAW',6,0,0,0)
G2    WRITE(9)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
H2
J2
K2
A3
B3
C3
D3
E3
```

Figure 5.4.3-4 Page (5 of 12)

F3 SRCH$$(K$DELE,'DRAW',6,0,0,0)

G3 SRCH$$(K$CLOS,'TEMP',6,0,0,0)

H3 CNAM$$('TEMP',6,'DRAW',6,IC)

J3 SRCH$$(K$RDWR+K$NDAM,'DRAW',6,2,1,IC); SRCH$$(K$RDWR+K$NDAM,'TEMP',
6,6,1,IC)

K3

A4

B4 READ(12,END=165)DRW,SHTN,REV,NEO,EOREF

C4 PERFORMED BY B4

D4 DO 155 K=1,4; (IDR(K).NE.DRW(K))

E4 WRITE(14)DRW,SHTN,REV,NEO,EOREF

F4

G4

H4

J4

K4

A5

B5

C5

D5 WRITE(11)DRW,SHTN,REV,NEO,EOREF

E5

F5

G5

H5

J5

K5

Figure 5.4.3-4 Page (6 of 12)

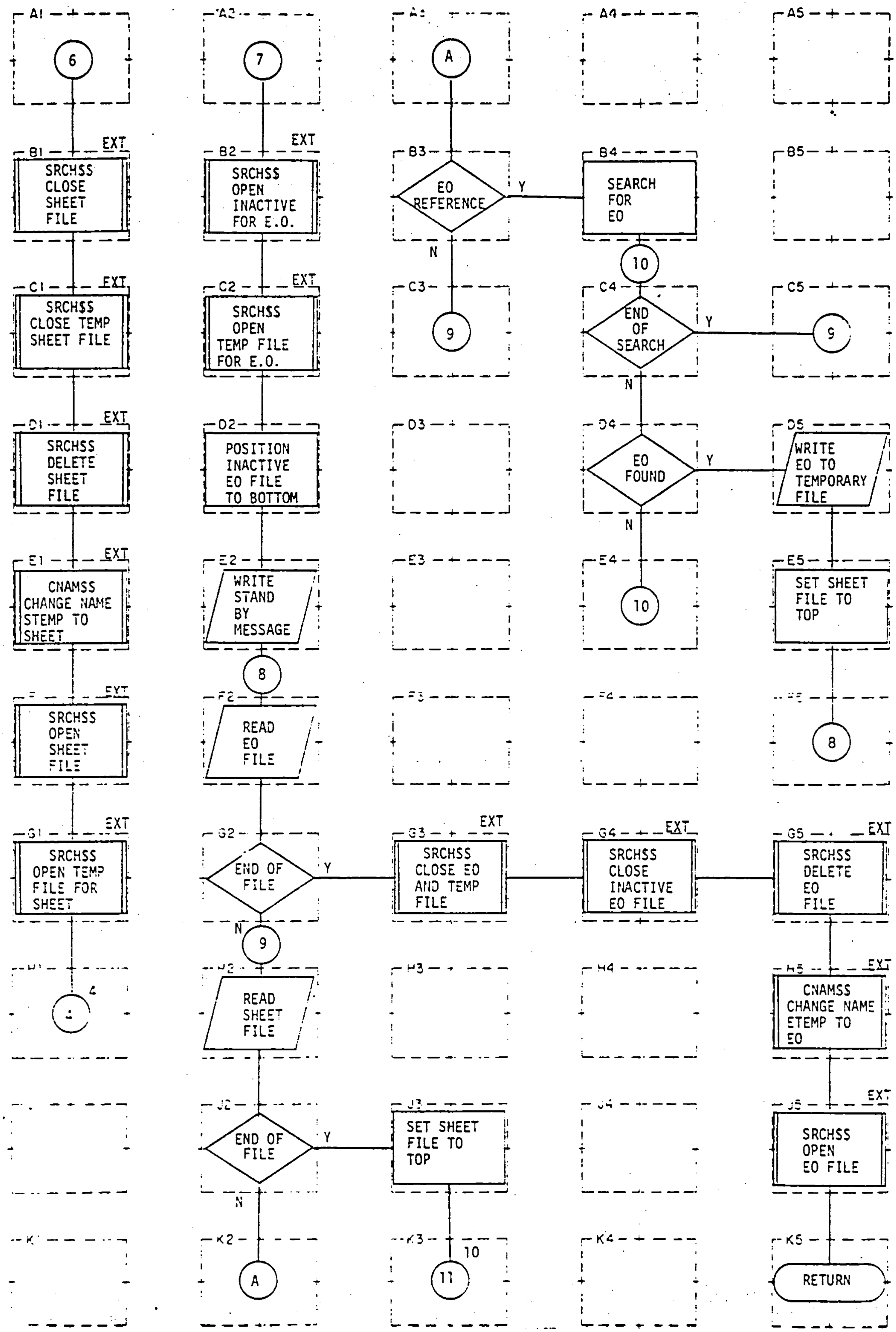


Figure 5.4.3-4

Page (7 of 12)

A1

B1 SRCH$$(K$CLOS,'EO',6,0,0,0); SRCH$$(K$CLOS,'ETEMP',6,0,0,0)

C1

D1 REWIND 12

E1

F1

G1 DO 323 I=1,10

H1 PERFORMED BY B4

J1 DO 327 J=1,2; (EOREF(I,J).NE.EON(J))

K1

A2

B2 SRCH$$(K$CLOS,'INACTE',6,0,0,0)

C2

D2

E2

F2

G2

H2

J2 WRITE(13)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH

K2 REWIND 12

A3

B3 SRCH$$(K$DELE,'EO',6,0,0,0)

C3 CNAM$$('ETEMP',6,'EO',6,IC)

D3 SRCH$$(K$RDWR+K$NDAM,'EO',6,14,1,IC)

E3

Figure 5.4.3-4 Page (8 of 12)

```
F3
G3    SRCH$$(K$CLOS,'SHEET',6,0,0,0)
H3    SRCH$$(K$CLOS,'TEMP',6,0,0,0)
J3    SRCH$$(K$DELE,'SHEET',6,0,0,0)
K3    CNAM$$('STEMP',6,'SHEET',6,IC)
A4    SRCH$$(K$RDWR+K$NDAM,'SHEET',6,8,1,IC)
B4    SRCH$$(K$RDWR+K$NDAM,'STEMP',6,11,1,IC)
C4
D4
E4
F4
G4    SRCH$$(K$RDWR+K$NDAM,'INACTE',6,13,1,IC)
H4    SRCH$$(K$RDWR+K$NDAM,'ETEMP',6,9,1,IC)
J4    READ(17,END=305)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
K4    WRITE(1,310)
A5    READ(18,END=400)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
B5    PERFORMED BY F2
C5    READ(12,END=335)DRW,SHTN,REV,NEO,EOREF
D5    PERFORMED BY H2
E5
F5
G5    (NEO.EQ.0)
H5
J5
K5
```

Figure 5.4.3-4 Page (9 of 12)

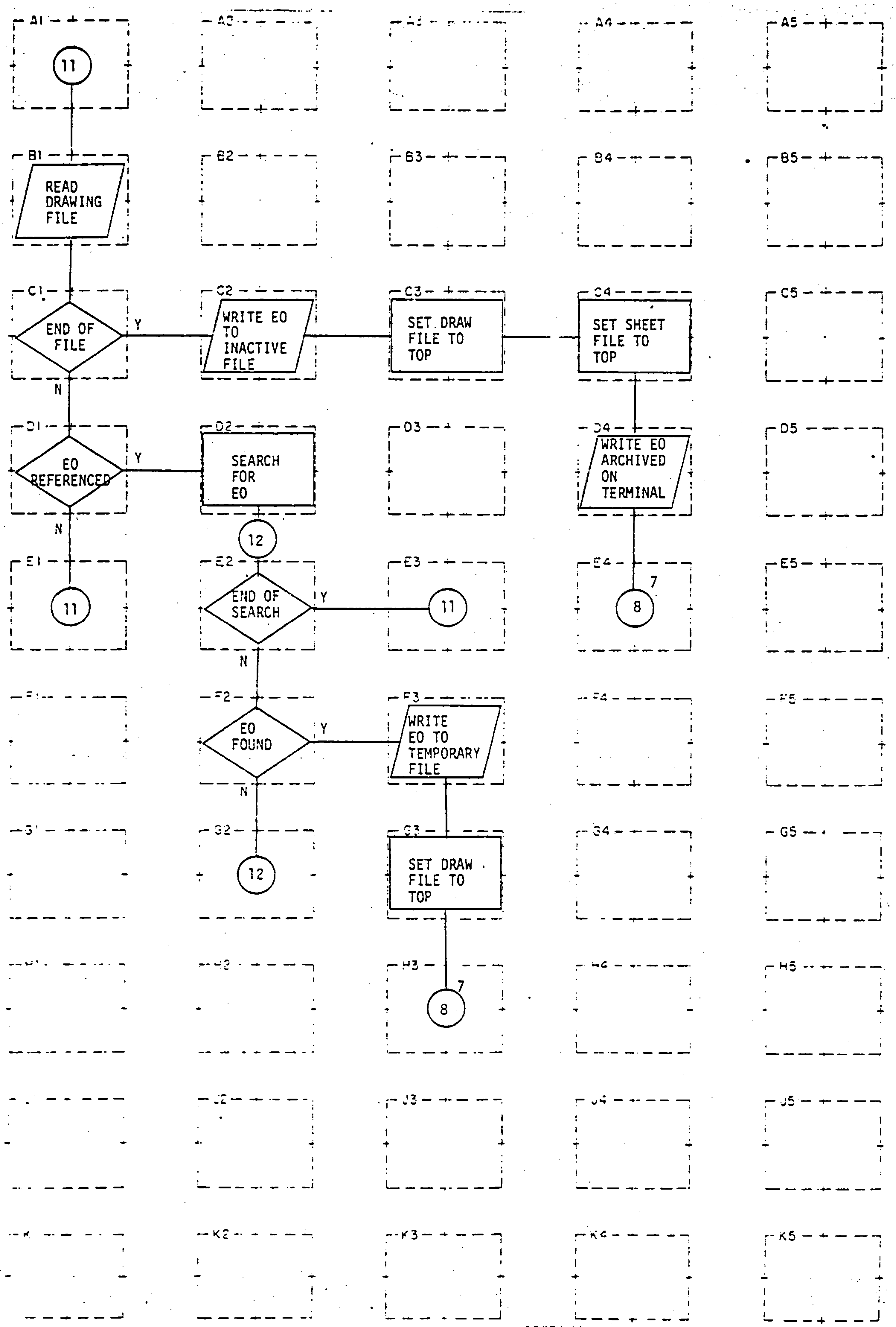

11
READ DRAWING FILE
END OF FILE
Y
N
WRITE EO TO INACTIVE FILE
SET DRAW FILE TO TOP
SET SHEET FILE TO TOP
EO REFERENCED
SEARCH FOR EO
WRITE EO ARCHIVED ON TERMINAL
12
END OF SEARCH
11
8
7
EO FOUND
WRITE EO TO TEMPORARY FILE
12
SET DRAW FILE TO TOP
8
7

Figure 5.4.3-4

A1

B1 READ(6,END=350)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF

C1 PERFORMED BY B1·

D1 (FNEO.EQ.0)

E1

F1

G1

H1

J1

K1

A2

B2

C2 WRITE(17)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH

D2 DO 343 I=1,10

E2 PERFORMED BY D2

F2 DO 337 J=1,2; (FEOREF(I,J).NE.EON(J))

G2

H2

J2

K2

A3

B3

C3 REWIND 6

D3

E3

Figure 5.4.3-4 Page (11 of 12)

```
F3    WRITE(13)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
G3    REWIND 6
H3
J3
K3
A4
B4
C4    REWIND 12
D4    WRITE(1,360)
E4
F4
G4
H4
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.3-4 Page (12 of 12)

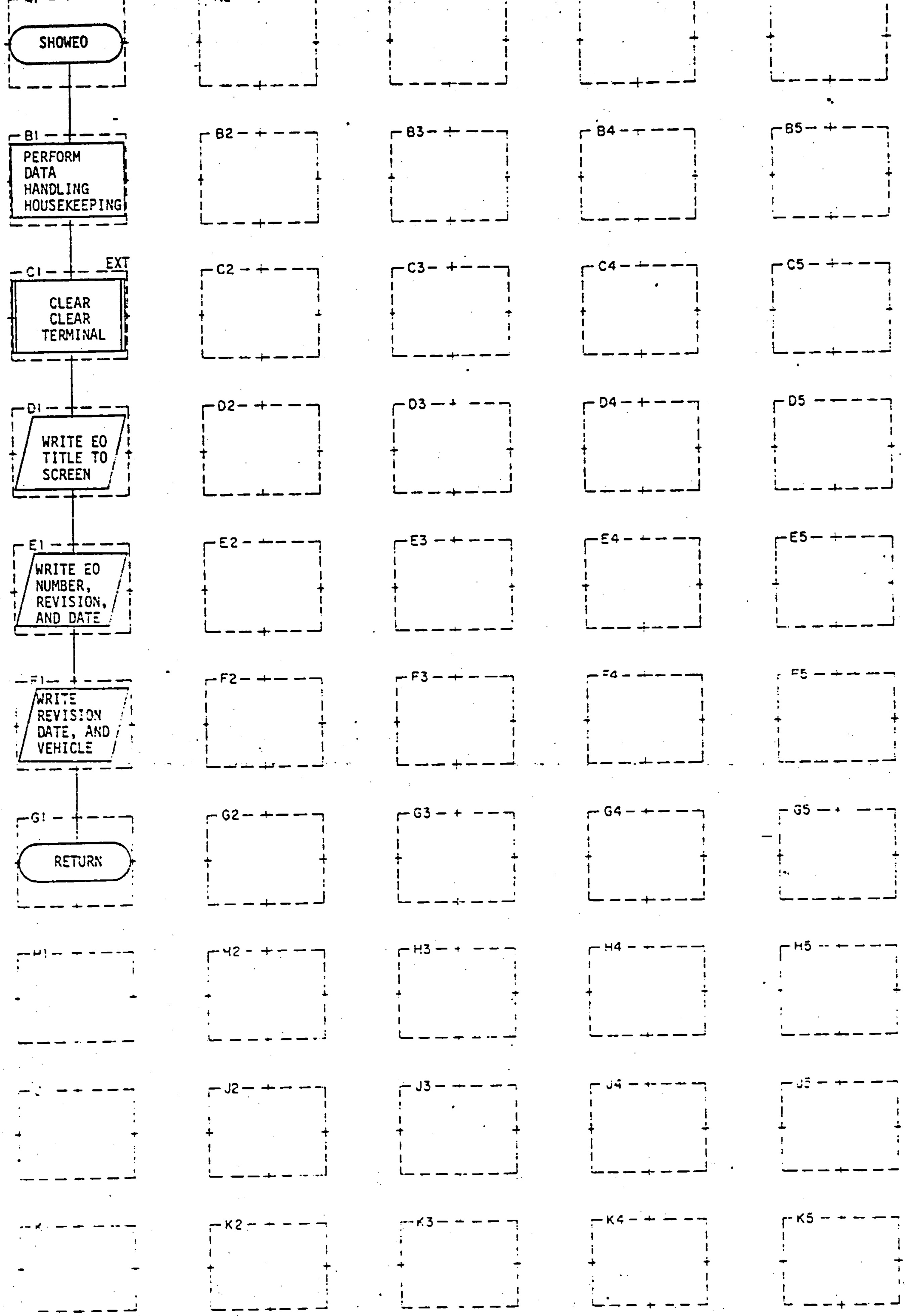


Figure 5.4.3-5

Page (1 of 2)

```
A1
B1    $INSERT COMMON
C1    CLEAR
D1    WRITE(1,10)EPTIT
E1    WRITE(1,20)EON,EOREV,EDT
F1    WRITE(1,30)ERDT,((EOVEH(I,J),J=1,2),I=1,2)
G1
H1
J1
K1
A2
B2
C2
D2
E2
F2
G2
H2
J2
K2
A3
B3
C3
D3
E3
```

Figure 5.4.3-5 Page (2 of 2)

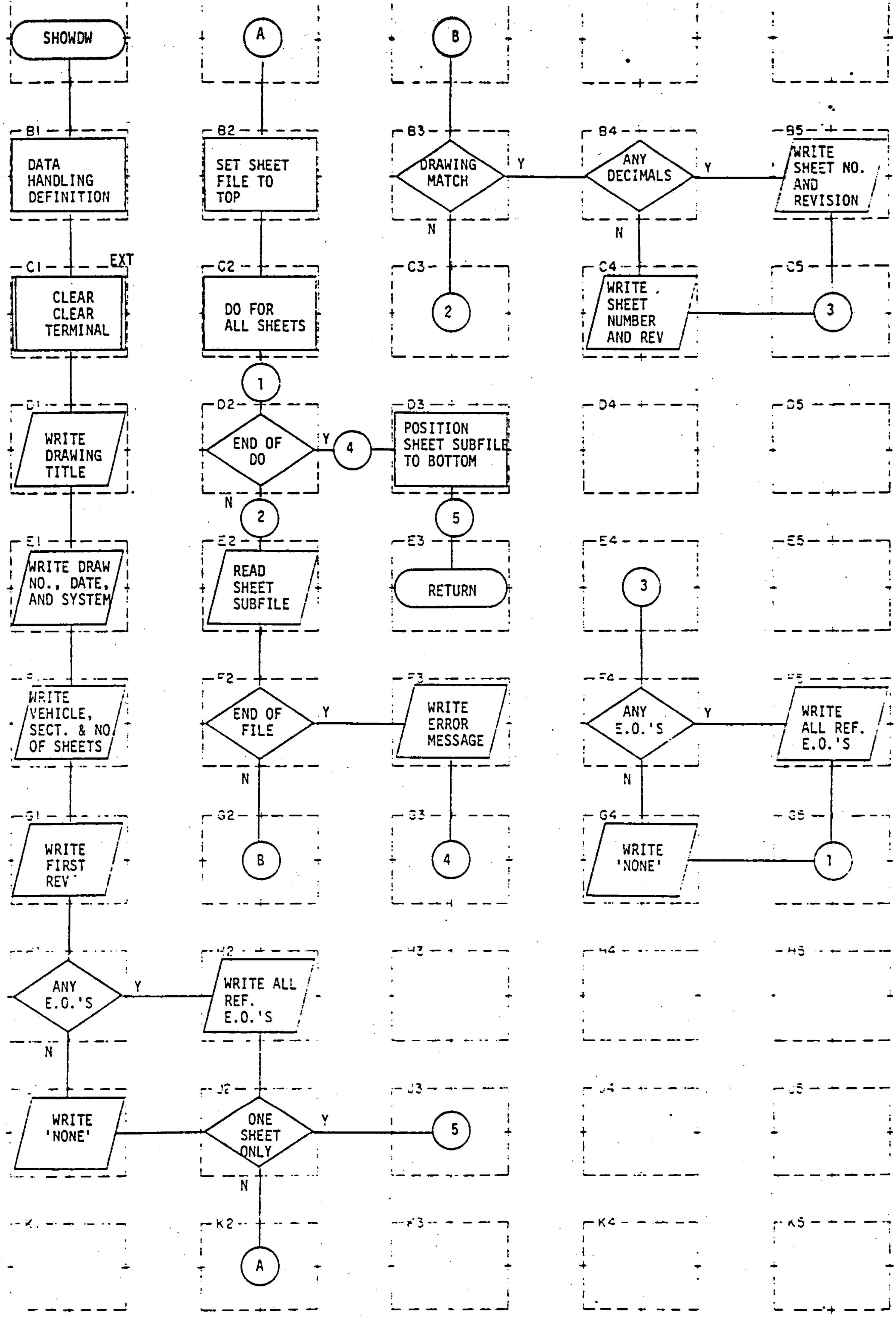


Figure 5.4.3-6 Page (1 of 3)

```
A1
B1    $INSERT COMMON
C1    CLEAR
D1    WRITE(1,10)PTIT
E1    WRITE(1,20)DRAW,DT,SYS
F1    WRITE(1,30) ((VEH(I,J),J=1,2),I=1,2),SECT,NSHT
G1    WRITE(1,35)FREV; WRITE(1,70)
H1    (FNEO.NE.0)
J1    WRITE(1,72)
K1
A2
B2    REWIND 12
C2    DO 100 L=2,NSHT
D2    PERFORMED BY C2
E2    READ(12,END=150)DRW,SHTN,REV,NEO,EOREF
F2    PERFORMED BY E2
G2
H2    DO 81 J=1,FNEO; WRITE(1,85)(FEOREF(J,K),K=1,2)
J2    (NSHT.EQ.1)
K2
A3
B3    DO 50 I=1,4; (DRAW(I).NE.DRW(I))
C3
D3    READ(12,END=300)DRW,SHTN,REV,NEO,EOREF
E3
```

Figure 5.4.3-6 Page (2 of 3)

```
F3    WRITE(1,160)DRW
G3
H3
J3
K3
A4
B4    (SHTN(2).EQ.0)
C4    WRITE(1,60)SHTN(1),REV
D4
E4
F4    (NEO.NE.0)
G4    WRITE(1,72)
H4
J4
K4
A5
B5    WRITE(1,52)(SHTN(K),K=1,2),REV
C5
D5
E5
F5     DO 80 J=1,NEO; WRITE(1,85)(EOREF(J,K),K=1,2)
G5
H5
J5
K5
```

Figure 5.4.3-6 Page (3 of 3)

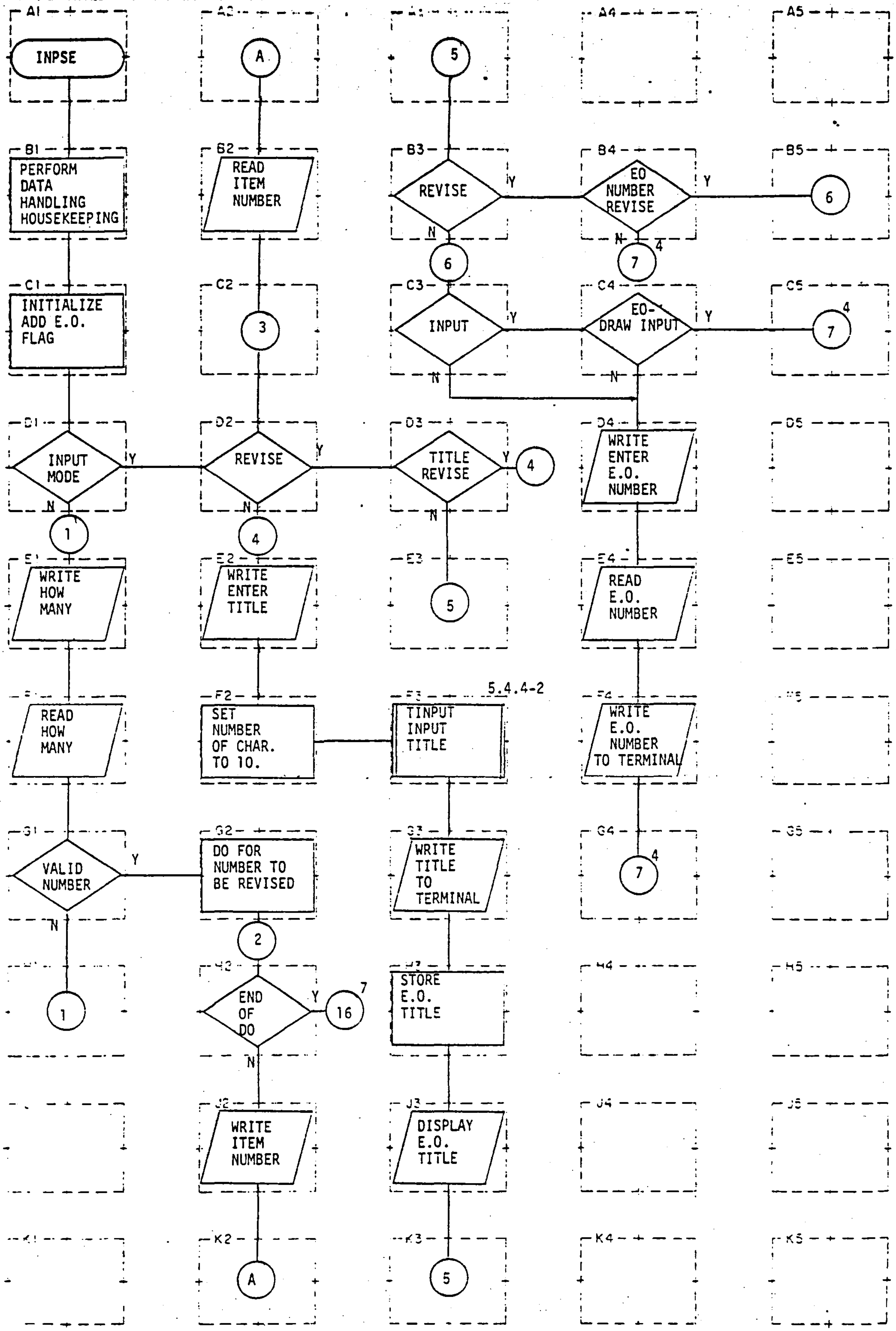


Figure 5.4.3-7

Page (1 of 8)

A1

B1 $INSERT COMMON; INTEGER*2

C1 IEOADD=0

D1 (R.EQ.0)

E1 WRITE(1,1)

F1 READ(1,10,ERR=2)IKNT

G1 (IKNT.LT.0); (IKNT.GT.6)

H1

J1

K1

A2

B2 READ(1,10,ERR=5)IR

C2

D2 (R.EQ.1.AND,IR.NE,1)

E2 WRITE(1,101)

F2 LEN=10

G2 DO 3800 LOOP=1,IKNT,1

H2 PERFORMED BY G2

J2 WRITE(1,3)

K2

A3

B3 (R.EQ.1.AND.IR.NE.2)

C3 (R.EQ.0.AND.FIRST.EQ.1)

D3 PERFORMED BY D2

E3

Figure 5.4.3-7 Page (2 of 8)

F3 TINPUT(ETIT,LEN)

G3 WRITE(1,102)ETIT

H3 DO 105L=1,19; EPTIT(L)=PTIT(L)

J3 WRITE(1,110)EPTIT

K3

A4

B4 PERFORMED BY B3 (PAGE 2 of 8)

C4 PERFORMED BY C3 (PAGE 2 of 8)

D4 WRITE(1,202)

E4 READ(1,203,ERR=201)EON

F4 WRITE(1,203)EON

G4

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.3-7 Page (3 of 8)

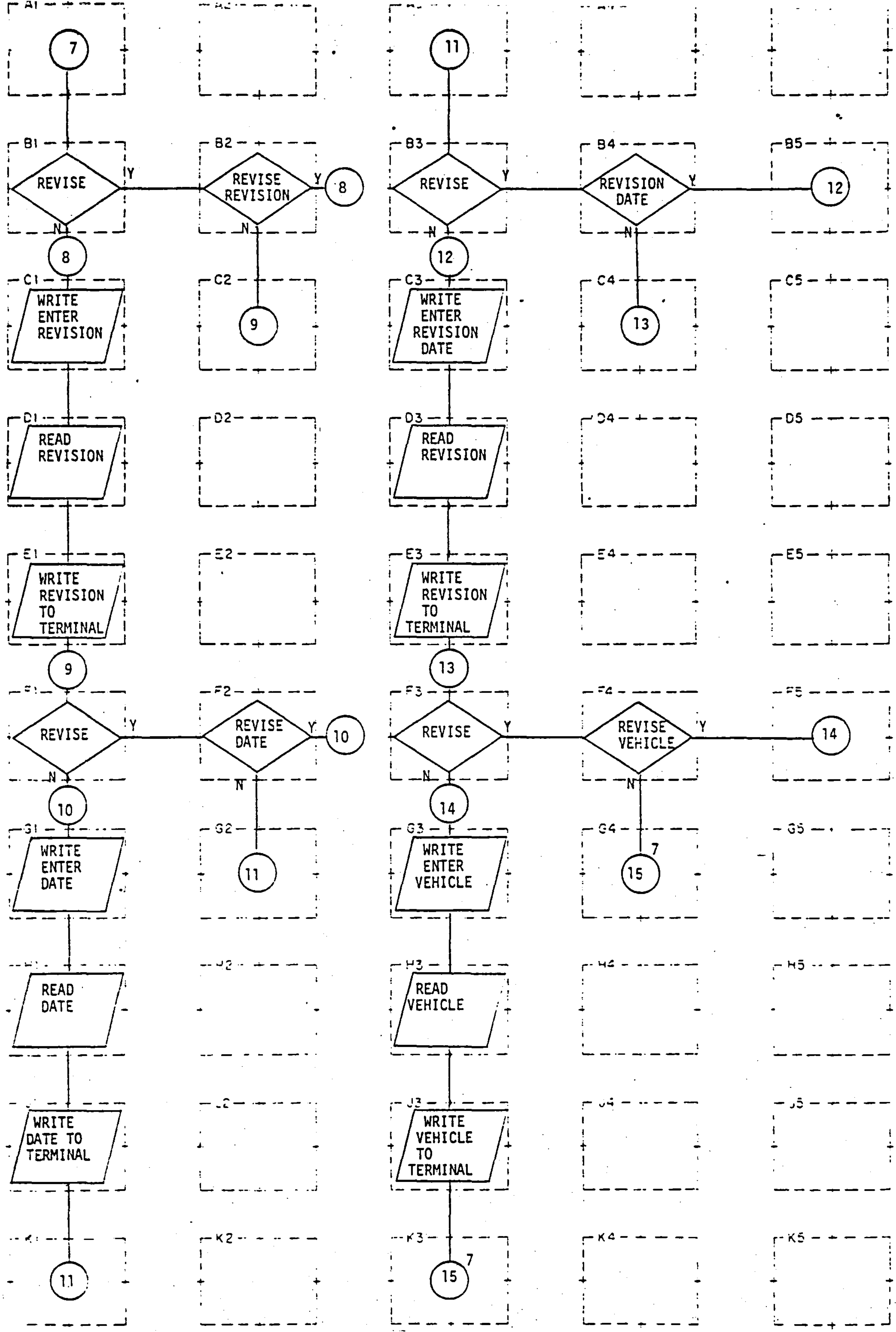


Figure 5.4.3-7

Page (4 of 8)

A1	
B1	(R.EQ.1.AND.IR.NE.3)
C1	WRITE(1,501)
D1	READ(1,502,ERR=401)EOREV
E1	WRITE(1,502)EOREV
F1	(R.EQ.1.AND.IR.NE.4)
G1	WRITE(1,902)
H1	READ(1,903,ERR=901)EDT
J1	WRITE(1,903)EDT
K1	
A2	
B2	PERFORMED BY B1
C2	
D2	
E2	
F2	PERFORMED BY F1
G2	
H2	
J2	
K2	
A3	
B3	(R.EQ.1.AND.IR.NE.5)
C3	WRITE(1,1002)
D3	READ(1,903,ERR=1002)ERDT
E3	WRITE(1,903)ERDT

Figure 5.4.3-7 Page (5 of 8)

F3 (R.EQ.1.AND.IR.NE.6)

G3 WRITE(1,1202)

H3 READ(1,1203,ERR=1201)((EOVEH(I,J),J=1,2),I=1,2)

J3 WRITE(1,1203)((EOVEH(I,J),J=1,2),I=1,2)

K3

A4

B4 PERFORMED BY B3 (PAGE 5 of 8)

C4

D4

E4

F4 PERFORMED BY F3 (PAGE 5 of 8)

G4

H4

J4

K4

A5

B5

C5

D5

E5

F5

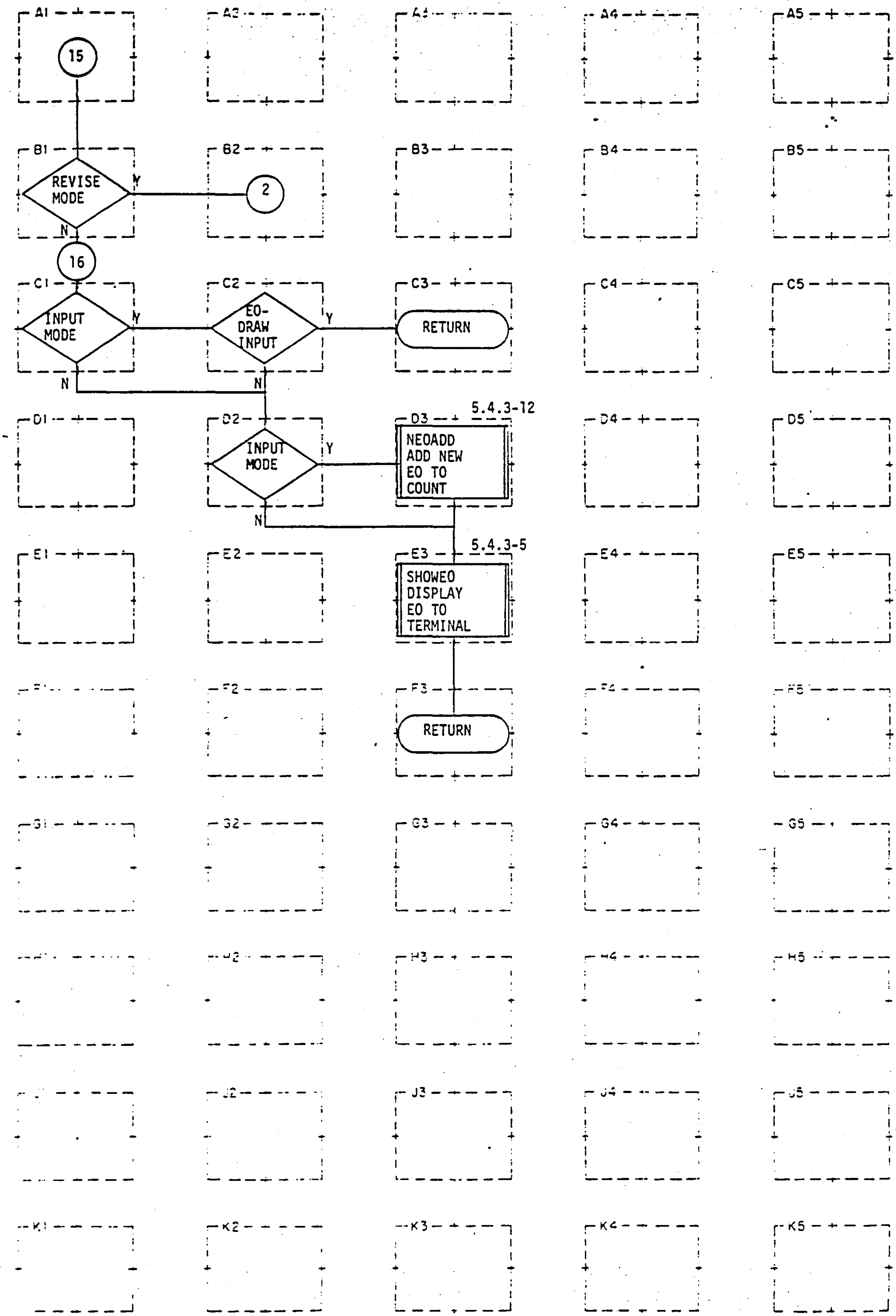
G5

H5

J5

K5

Figure 5.4.3-7 Page (6 of 8)

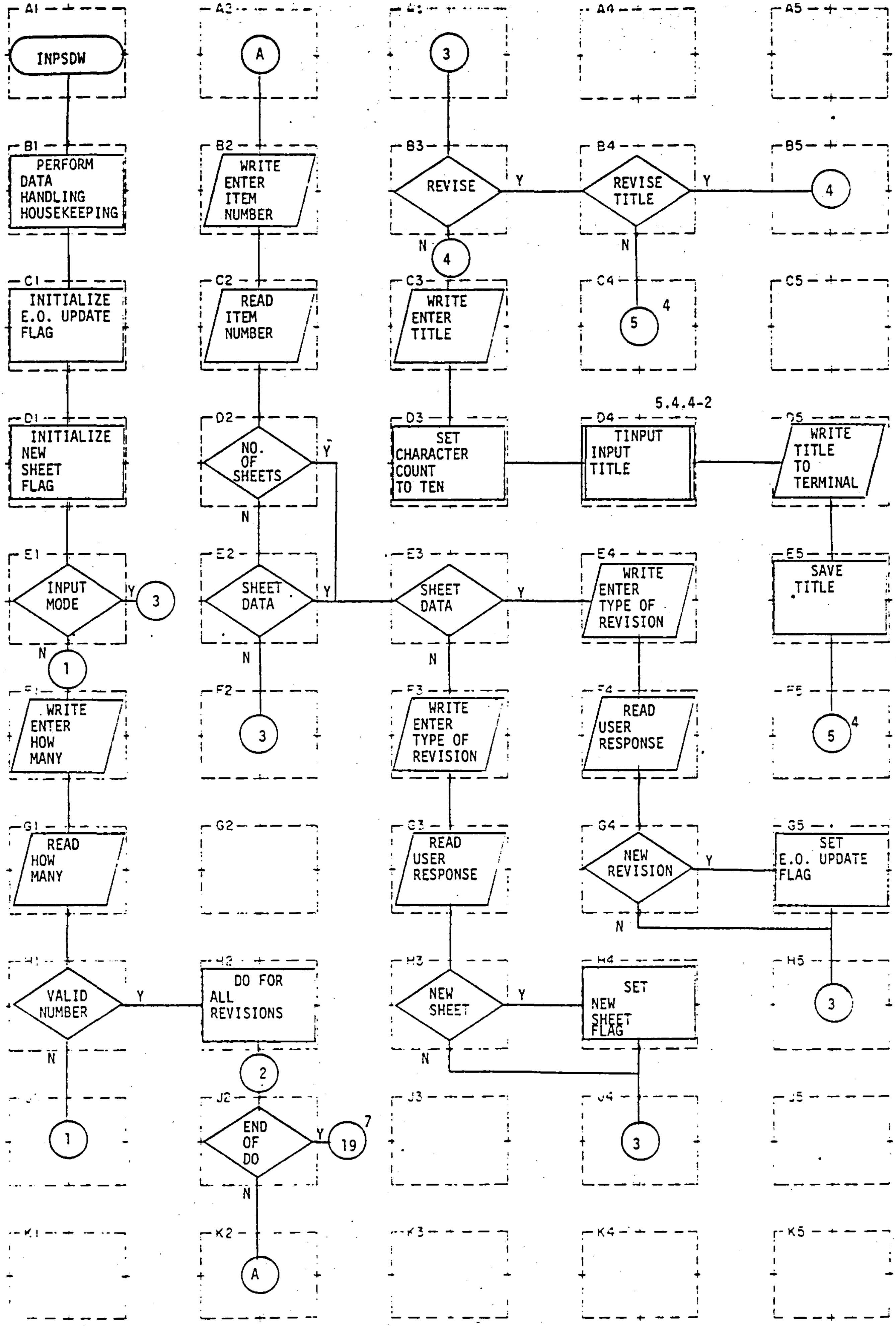


A1
15
B1
REVISE MODE
Y
N
2
16
C1
INPUT MODE
Y
N
C2
EO-DRAW INPUT
Y
N
C3
RETURN
D2
INPUT MODE
Y
N
D3
5.4.3-12
NEOADD ADD NEW EO TO COUNT
E3
5.4.3-5
SHOWEO DISPLAY EO TO TERMINAL
F3
RETURN

Figure 5.4.3-7

A1	
B1	PERFORMED BY G2 (PAGE 2 of 8)
C1	(R.EQ.0.AND.FIRST.EQ.1)
D1	
E1	
F1	
G1	
H1	
J1	
K1	
A2	
B2	
C2	
D2	(R.EQ.0)
E2	
F2	
G2	
H2	
J2	
K2	
A3	
B3	
C3	
D3	NEOADD
E3	SHOWEO

Figure 5.4.3-7 Page (8 of 8)



INPSDW
PERFORM DATA HANDLING HOUSEKEEPING
INITIALIZE E.O. UPDATE FLAG
INITIALIZE NEW SHEET FLAG
INPUT MODE
WRITE ENTER HOW MANY
READ HOW MANY
VALID NUMBER
WRITE ENTER ITEM NUMBER
READ ITEM NUMBER
NO. OF SHEETS
SHEET DATA
DO FOR ALL REVISIONS
END OF DO
REVISE
WRITE ENTER TITLE
SET CHARACTER COUNT TO TEN
SHEET DATA
WRITE ENTER TYPE OF REVISION
READ USER RESPONSE
NEW SHEET
REVISE TITLE
TINPUT INPUT TITLE
5.4.4-2
WRITE ENTER TYPE OF REVISION
READ USER RESPONSE
NEW REVISION
SET NEW SHEET FLAG
WRITE TITLE TO TERMINAL
SAVE TITLE
SET E.O. UPDATE FLAG

Figure 5.4.3-8

A1	
B1	$INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER * 2
C1	IEOUP = 0
D1	NEWSHT = 0
E1	(R.EQ.0)
F1	WRITE (1.1)
G1	READ (1,10,ERR = 2) IKNT
H1	(IKNT.LT.0); (IKNT.GT.9)
J1	
K1	
A2	
B2	WRITE (1,3)
C2	READ (1,10,ERR = 5) IR
D2	(IR.NE.8.AND.IR.NE.7)
E2	Performed by D2
F2	
G2	
H2	DO 3800 LOOP = 1,IKNT,1
J2	Performed by H2
K2	
A3	
B3	(R.EQ.1.AND.IR.NE.1)
C3	WRITE (1,101)
D3	LEN = 10
E3	(IR.EQ.8)

F3 WRITE (1,11)

G3 READ (1,25,ERR = 9)IOPT

H3 (IOPT.EQ.'YE'); (IOPT.NE.'NO')

J3

K3

A4

B4 Performed by B3 (Page 2 of 21)

C4

D4 TINPUT (TIT,LEN)

E4 WRITE (1,20)

F4 READ (1,25,ERR = 19)IOPT

G4 (IOPT.EQ.'NO'); (IOPT.NE.'YE')

H4 NEWSHT = 1

J4

K4

A5

B5

C5

D5 WRITE (1,102)TIT; WRITE (1,105)PTIT

E5 DO 104 I = 1,19; TTIT(I) = PTIT(I)

F5

G5 IEOUP = 1

H5

J5

K5

Figure 5.4.3-8 Page (3 of 21

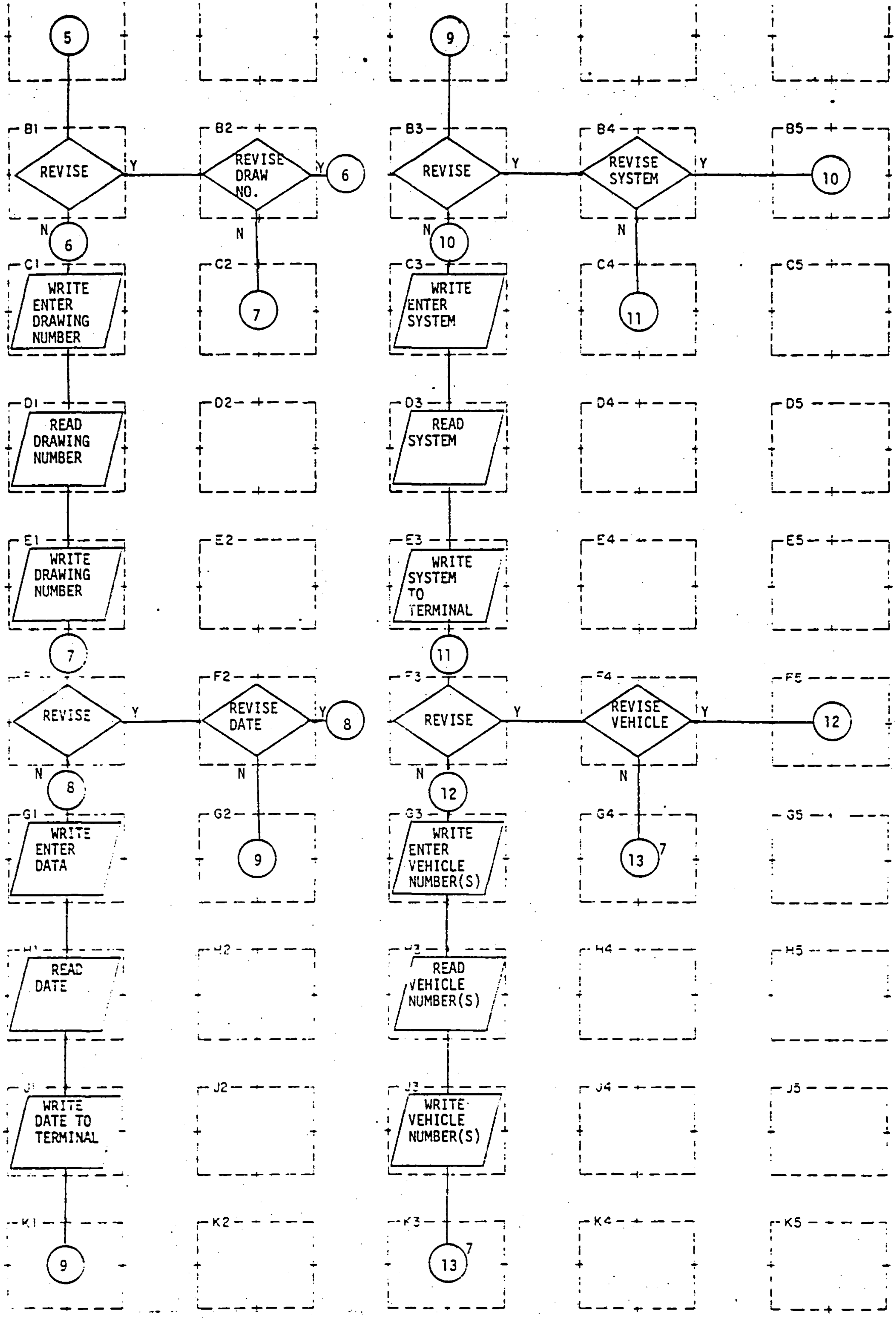

5
9
B1
REVISE
Y
B2
REVISE DRAW NO.
Y
6
N
B3
REVISE
Y
B4
REVISE SYSTEM
Y
B5
10
N
N
6
C1
WRITE ENTER DRAWING NUMBER
C2
7
10
C3
WRITE ENTER SYSTEM
C4
11
C5
D1
READ DRAWING NUMBER
D2
D3
READ SYSTEM
D4
D5
E1
WRITE DRAWING NUMBER
E2
E3
WRITE SYSTEM TO TERMINAL
E4
E5
7
11
REVISE
Y
F2
REVISE DATE
Y
8
N
REVISE
Y
REVISE VEHICLE
Y
F5
12
N
N
8
G1
WRITE ENTER DATA
G2
9
12
G3
WRITE ENTER VEHICLE NUMBER(S)
G4
13
G5
READ DATE
READ VEHICLE NUMBER(S)
H4
H5
WRITE DATE TO TERMINAL
J2
J3
WRITE VEHICLE NUMBER(S)
J4
J5
K1
9
K2
K3
13
K4
K5

Figure 5.4.3-8

A1

B1 (R.EQ.1.AND.IR.NE.2)

C1 WRITE (1,202)

D1 READ (1,203,ERR = 201) DRAW

E1 WRITE (1,203) DRAW

F1 (R.EQ.1.AND.IR.NE.3)

G1 WRITE (1,402)

H1 READ (1,403,ERR = 401)DT

J1 WRITE (1,403)DT

K1

A2

B2 Performed by B1

C2

D2

E2

F2 Performed by F1

G2

H2

J2

K2

A3

B3 (R.EQ.1.AND.IR.NE.4)

C3 WRITE (1,502)

D3 READ (1,503,ERR = 501) SYS

E3 WRITE (1,503) SYS

Figure 5.4.3-8

F3 (R.EQ.1.AND.IR.NE.5)

G3 WRITE (1,902)

H3 READ (1,903,ERR = 901) ((VEH(I,J),J = 1,2),I = 1,2)

J3 WRITE (1,903)((VEH(I,J),J = 1,2),I = 1,2)

K3

A4

B4 Performed by B3 (Page 5 of 21)

C4

D4

E4

F4

G4

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.3-8 Page (6 of 21)

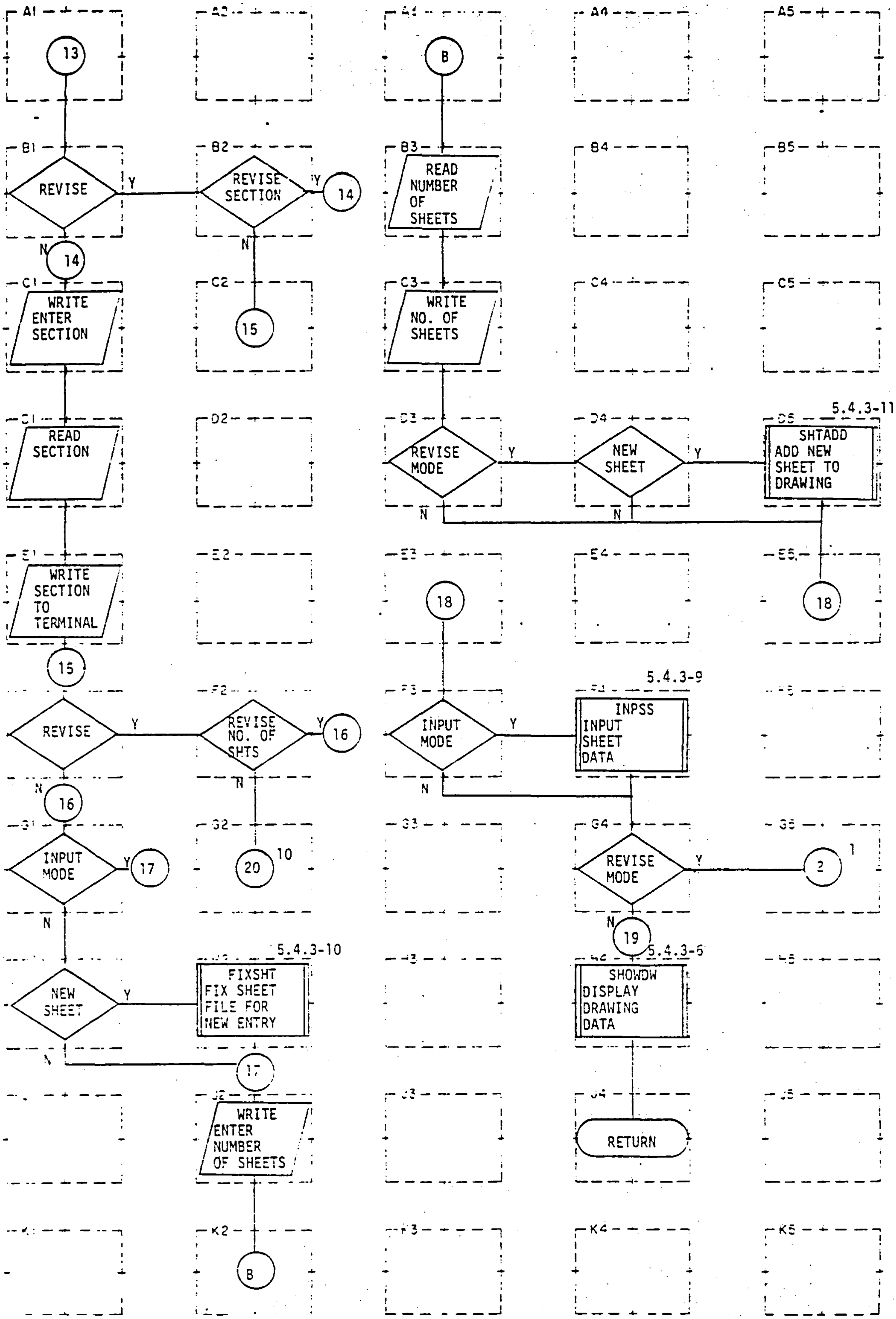

13
REVISE
REVISE SECTION
14
WRITE ENTER SECTION
15
READ SECTION
WRITE SECTION TO TERMINAL
REVISE NO. OF SHTS
16
INPUT MODE
17
20
NEW SHEET
FIXSHT FIX SHEET FILE FOR NEW ENTRY
5.4.3-10
WRITE ENTER NUMBER OF SHEETS
B
READ NUMBER OF SHEETS
WRITE NO. OF SHEETS
REVISE MODE
18
INPUT MODE
INPSS INPUT SHEET DATA
5.4.3-9
REVISE MODE
19
SHOWDW DISPLAY DRAWING DATA
5.4.3-6
RETURN
NEW SHEET
SHTADD ADD NEW SHEET TO DRAWING
5.4.3-11
2

Figure 5.4.3-8

A1

B1 (R.EQ.1.AND.IR.NE.6)

C1 WRITE (1,2202)

D1 READ (1,2203,ERR = 2201)SECT

E1 WRITE (1,2203)SECT

F1 (R.EQ.1.AND.IR.NE.7)

G1 (R.EQ.0)

H1 (NEWSHT.EQ.1)

J1

K1

A2

B2 Performed By B1

C2

D2

E2

F2 Performed By F1

G2

H2 FIXSHT

J2 WRITE (1,2302)

K2

A3

B3 READ (1,2303,ERR = 2301)NSHT

C3 WRITE (1,2303)NSHT

D3 (R.EQ.1.AND.NEWSHT.EQ.1)

E3

Figure 5.4.3-8 Page (8 of

F3 (R.EQ.0)

G3

H3

J3

K3

A4

B4

C4

D4 Performed By D3 (Page 8 of 21)

E4

F4 INPSS

G4 Performed By H2 (Page 2 of 21)

H4 SHOWDW

J4

K4

A5

B5

C5

D5 SHTADD

E5

F5

G5

H5

J5

K5

Figure 5.4.3-8 Page (9 of 21)

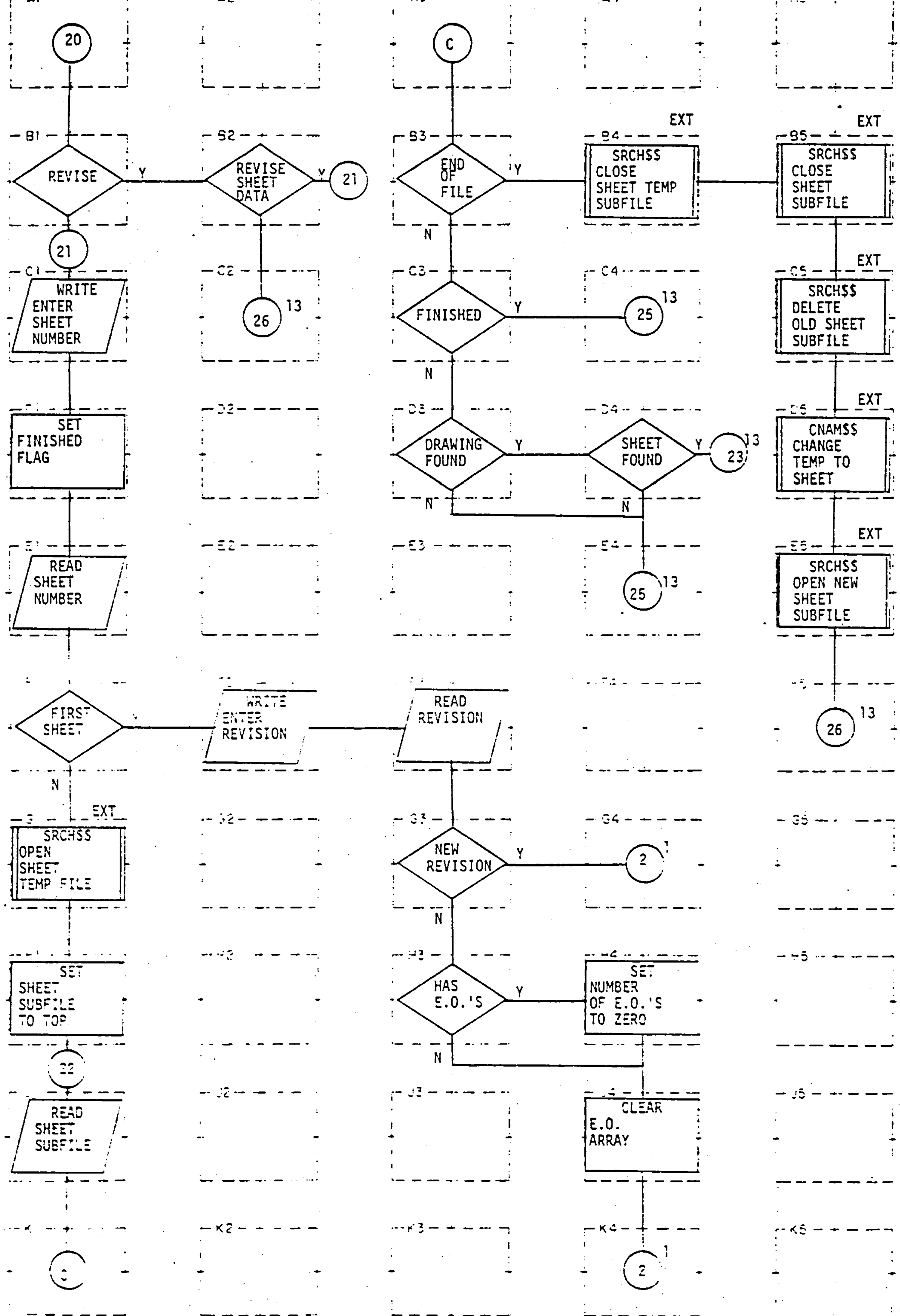

20
C
EXT
EXT
REVISE
Y
REVISE SHEET DATA
Y
21
END OF FILE
Y
SRCH$$ CLOSE SHEET TEMP SUBFILE
SRCH$$ CLOSE SHEET SUBFILE
N
21
EXT
WRITE ENTER SHEET NUMBER
26
13
FINISHED
Y
25
13
SRCH$$ DELETE OLD SHEET SUBFILE
N
EXT
SET FINISHED FLAG
DRAWING FOUND
Y
SHEET FOUND
Y
23
13
CNAM$$ CHANGE TEMP TO SHEET
N
N
EXT
READ SHEET NUMBER
25
13
SRCH$$ OPEN NEW SHEET SUBFILE
FIRST SHEET
WRITE ENTER REVISION
READ REVISION
26
13
N
EXT
SRCHSS OPEN SHEET TEMP FILE
NEW REVISION
Y
2
1
N
SET SHEET SUBFILE TO TOP
HAS E.O.'S
Y
SET NUMBER OF E.O.'S TO ZERO
N
22
READ SHEET SUBFILE
CLEAR E.O. ARRAY
2
1

Figure 5.4.3-8

A1 .

B1 (R.EQ.1.AND.IR.NE.8)

C1 WRITE (1,2408)

D1 FINISH = 0

E1 READ (1,2409,ERR = 2407) (ISHTN(K),K = 1,2)

F1 (ISHTN(1).NE.1.OR.ISHTN(2).NE.0)

G1 SRCH$$(K$RDWR + K$NDAM,'STEMP',6,10,1,IC)

H1 REWIND 12

J1 READ (12,END = 2470)DRW,SHTN,REV,NEO,EOREF

K1

A2

B2 Performed By B1

C2

D2

E2

F2 WRITE (1,2402)

G2

H2

J2

K2

A3

B3 Performed By J1

C3 (FINISH.EQ.1)

D3 DO 2415I = 1,4; (DRAW(I).NE.DRW(I))

E3

Figure 5.4.3-8

```
F3    READ (1,2403,ERR = 2448)FREV
G3    (IEOUP.EQ.0)
H3    (FNEO.NE.0)
J3
K3
A4
B4    SRCH$$(K$CLOS,'STEMP',6,0,0,0)
C4
D4    DO 2420I = 1,2; (ISHTN(I).NE.SHTN(I))
E4
F4
G4
H4    FNEO = 0
J4    DO 2449 K = 1,10; FEOREF(K,1) = '  '; FEOREF(K,1) = '  '
K4
A5
B5    SRCH$$(K$CLOS,'SHEET',6,0,0,0)
C5    SRCH$$(K$DELE,'SHEET',6,0,0,0)
D5    CNAM$$('STEMP',6,'SHEET',6,IC)
E5    SRCH$$(K$RDWR + K$NDAM, 'SHEET', 6,8, 1, IC)
F5
G5
H5
J5
K5
```

Figure 5.4.3-8 Page (12 of 21)

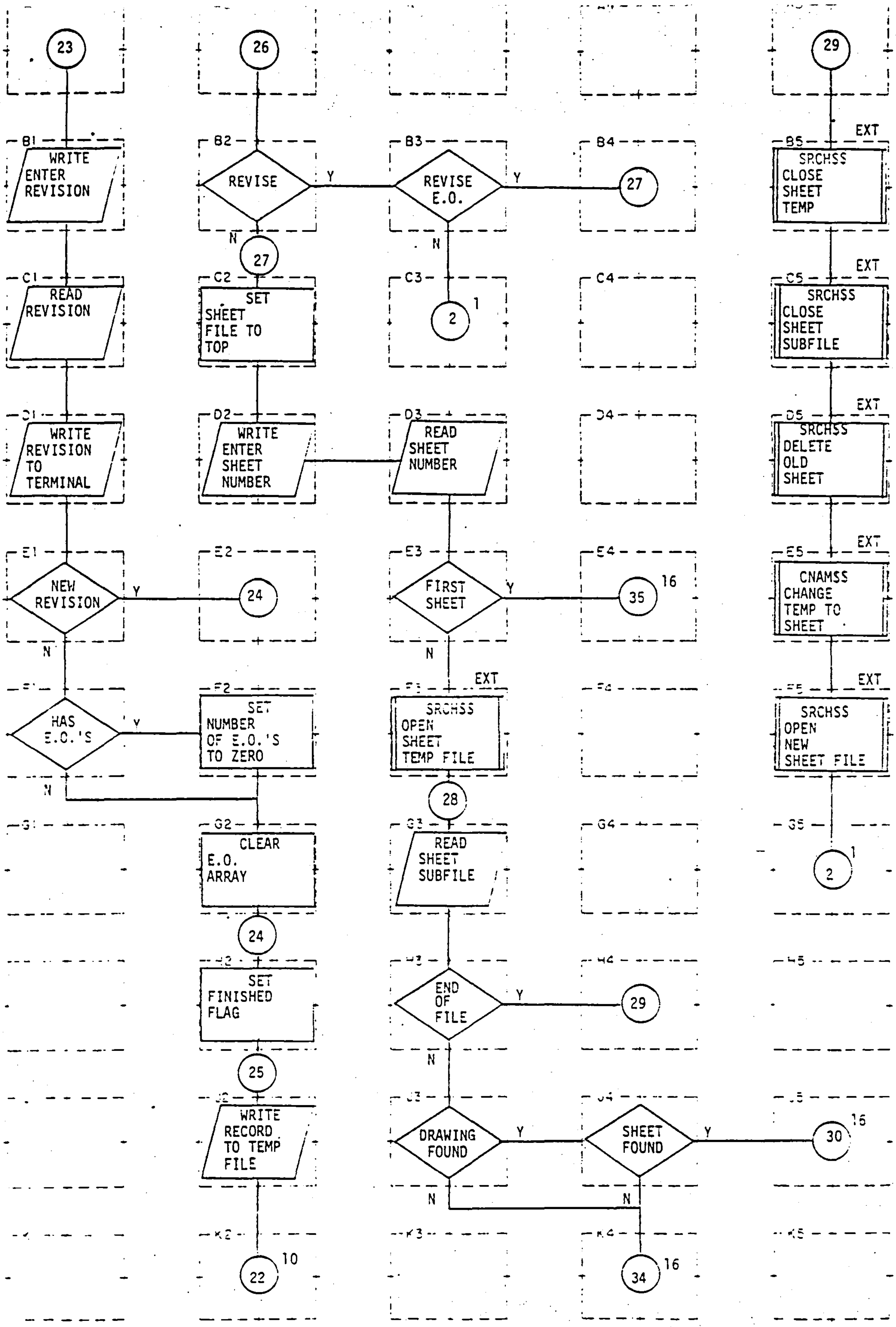

23
26
29
B1
WRITE ENTER REVISION
B2
REVISE
Y
N
B3
REVISE E.O.
Y
N
B4
27
B5
EXT
SRCHSS CLOSE SHEET TEMP
C1
READ REVISION
C2
27
SET SHEET FILE TO TOP
C3
2
1
C4
C5
EXT
SRCHSS CLOSE SHEET SUBFILE
D1
WRITE REVISION TO TERMINAL
D2
WRITE ENTER SHEET NUMBER
D3
READ SHEET NUMBER
D4
D5
EXT
SRCHSS DELETE OLD SHEET
E1
NEW REVISION
Y
N
E2
24
E3
FIRST SHEET
Y
N
E4
35
16
E5
EXT
CNAMSS CHANGE TEMP TO SHEET
HAS E.O.'S
Y
N
F2
SET NUMBER OF E.O.'S TO ZERO
EXT
SRCHSS OPEN SHEET TEMP FILE
EXT
SRCHSS OPEN NEW SHEET FILE
28
G2
CLEAR E.O. ARRAY
READ SHEET SUBFILE
G4
G5
2
1
24
SET FINISHED FLAG
END OF FILE
Y
N
H4
29
25
WRITE RECORD TO TEMP FILE
DRAWING FOUND
Y
N
SHEET FOUND
Y
N
30
16
K2
22
10
K3
34
16

Figure 5.4.3-8

A1

B1 WRITE (1,2402)

C1 READ (1,2403,ERR = 2448) REV

D1 WRITE (1,2403) REV

E1 (IEOUP.EQ.0)

F1 (NEO.NE.0)

G1

H1

J1

K1

A2

B2 (R.EQ.1.AND.IR.NE.9)

C2 REWIND 12

D2 WRITE (1,2511)

E2

F2 NEO = 0

G2 DO 2450 K = 1,10; EOREF(K,1) = ' '; EOREF(K,2)=' '

H2 FINISH = 1

J2 WRITE (14) DRW, SHTN, REV, NEO, EOREF

K2

A3

B3 Performed by B2

C3

D3 READ (1,2512,ERR = 2510) (ISHTN(K),K = 1,2)

E3 (ISHTN(1).NE.1.OR.ISHTN(2).NE.0)

Figure 5.4.3-8 Page (14 of 21)

F3 SRCH$$(K$RDWR + K$NDAM, 'STEMP',6,10,1,IC)

G3 READ (12,END=2800)DRW,SHTN,REV,NEO,EOREF

H3 Performed by G3

J3 DO 2520 I = 1,4; (DRAW(I).NE.DRW(I))

K3

A4

B4

C4

D4

E4

F4

G4

H4

J4 DO 2530I = 1,2; (ISHTN(I).NE.SHTN(I))

K4

A5

B5 SRCH$$(K$CLOS,'STEMP',6,0,0,0)

C5 SRCH$$(K$CLOS,'SHEET',6,0,0,0)

D5 SRCH$$(K$DELE,'SHEET',6,0,0,0)

E5 CNAM$$('STEMP',6,'SHEET',6,IC)

F5 SRCH$$(K$RDWR + K$NDAM,'SHEET',6,8,1,IC)

G5

H5

J5

K5

Figure 5.4.3-8

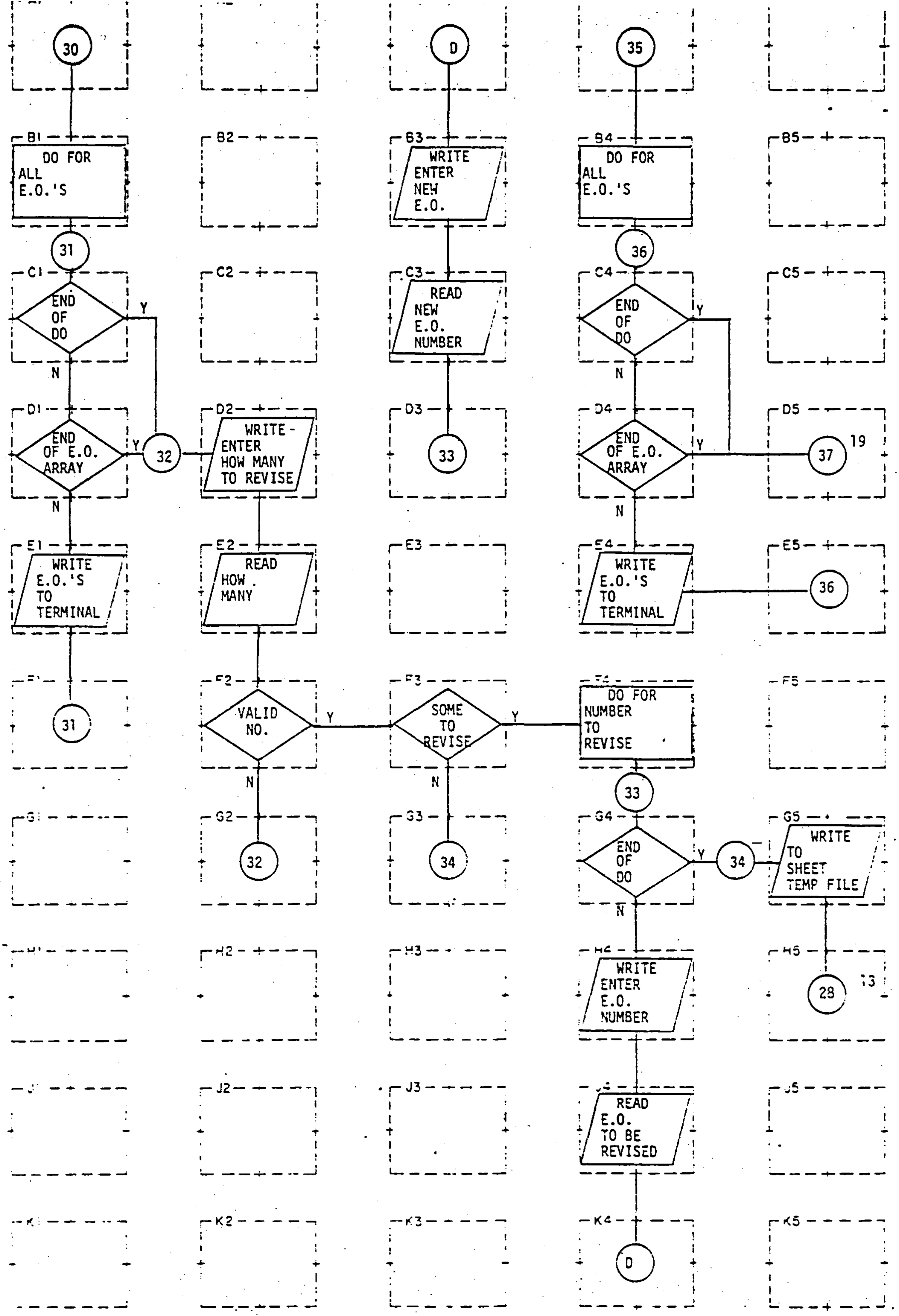

30
D
35
DO FOR ALL E.O.'S
WRITE ENTER NEW E.O.
DO FOR ALL E.O.'S
31
36
END OF DO
READ NEW E.O. NUMBER
END OF DO
END OF E.O. ARRAY
32
WRITE - ENTER HOW MANY TO REVISE
33
END OF E.O. ARRAY
37
19
WRITE E.O.'S TO TERMINAL
READ HOW MANY
WRITE E.O.'S TO TERMINAL
36
31
VALID NO.
SOME TO REVISE
DO FOR NUMBER TO REVISE
33
32
34
END OF DO
34
WRITE TO SHEET TEMP FILE
WRITE ENTER E.O. NUMBER
28
13
READ E.O. TO BE REVISED
D

Figure 5.4.3-8

A1

B1 DO 2600 I = 1, 10

C1 Performed by B1

D1 (EOREF(I,1).NE.' ')

E1 WRITE (1,2505) I,(EOREF (I,J), J = 1,2)

F1

G1

H1

J1

K1

A2

B2

C2

D2 WRITE (1,2605)

E2 READ (1,2620,ERR = 2603)IOPT

F2 (IOPT.LT.0.OR.IOPT.GT.I)

G2

H2

J2

K2

A3

B3 WRITE (1,2660)

C3 READ (1,2670,ERR = 2660) (EOREF(K,N),N = 1,2)

D3

E3

Figure 5.4.3-8

F3 (IOPT.EQ.0)

G3

H3

J3

K3

A4

B4 DO 2550 I = 1,10

C4 Performed by B4

D4 (FEOREF (I, 1).NE.' ')

E4 WRITE (1,2505)I,(FEOREF(I,J),J=1,2)

F4 DO 2700 J = 1,IOPT

G4 Performed by F4

H4 WRITE (1,2650) I

J4 READ (1,2620,ERR = 2640)K

K4

A5

B5

C5

D5

E5

F5

G5 WRITE (14)DRW,SHTN,REV,NEO,EOREF

H5

J5

K5

Figure 5.4.3-8 Page (18 of 21)

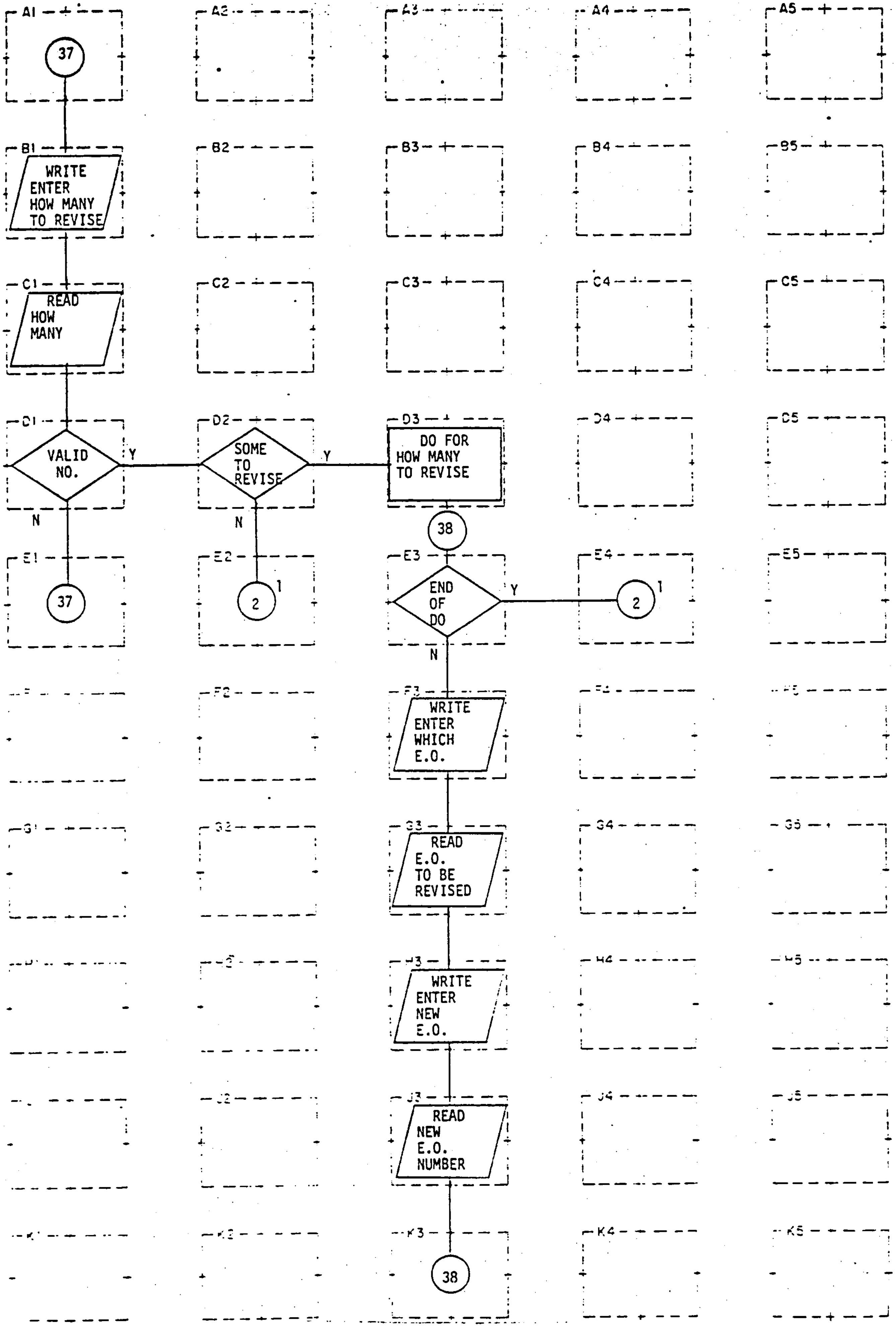

A1
37
WRITE ENTER HOW MANY TO REVISE
READ HOW MANY
VALID NO.
Y
N
37
SOME TO REVISE
Y
N
2
1
DO FOR HOW MANY TO REVISE
38
END OF DO
Y
2
1
N
WRITE ENTER WHICH E.O.
READ E.O. TO BE REVISED
WRITE ENTER NEW E.O.
READ NEW E.O. NUMBER
38

Figure 5.4.3-8

A1

B1 WRITE (1,2605)

C1 READ (1,2620,ERR = 2563)IOPT

D1 (IOPT.LT.0.OR.IOPT.GT.I)

E1

F1

G1

H1

J1

K1

A2

B2

C2

D2 (IOPT.EQ.0)

E2

F2

G2

H2

J2

K2

A3

B3

C3

D3 DO 2570 J = 1, IOPT

E3 Performed by D3

Figure 5.4.3-8 Page (20 of 21)

```
F3    WRITE (1,2650)I
G3    READ (1,2620,ERR = 2564)K
H3    WRITE (1,2660)
J3    READ (1,2670,ERR = 2565) (FEOREF(K,N),N = 1,2)
K3
A4
B4
C4
D4
E4
F4
G4
H4
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.3-8

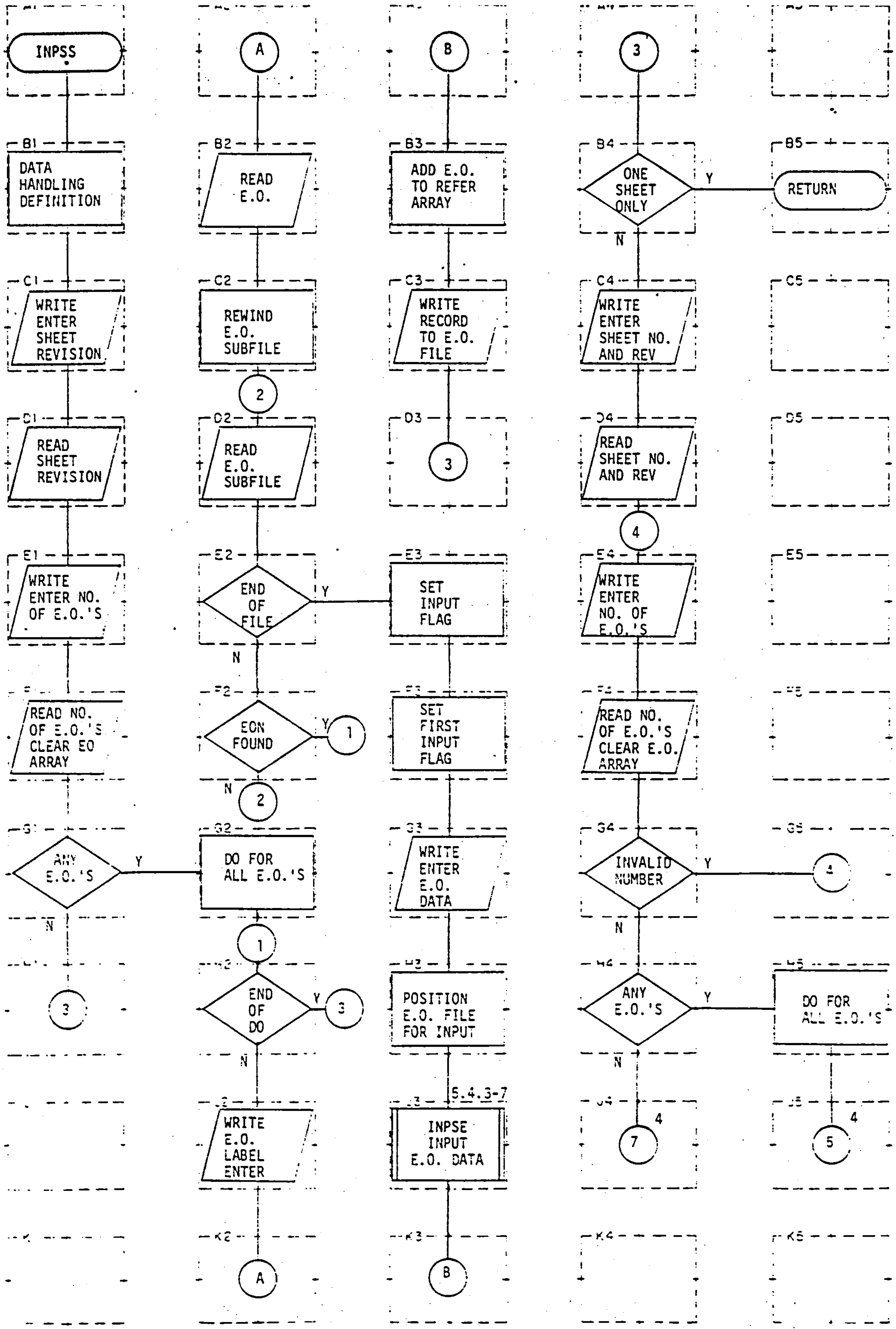


Figure 5.4.3-9 Page (1 of 6)

```
A1
B1    $INSERT COMMON
C1    WRITE(1,1001)
D1    READ(1,1003,ERR=1000)FREV
E1    WRITE(1,1006)
F1    READ(1,1008,ERR=1005)FNEO; DO1009 I=1,10; DO1010 J=1,2; FEOREF(I,J)=' '
G1    (FNEO.EQ.0)
H1
J1
K1
A2
B2    READ(1,2520,ERR=1201) (FEOREF(K,L),L=1,2)
C2    REWIND 18
D2    READ(18,END=1210)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
E2    PERFORMED BY D2
F2    DO1206 L=1,2; (EON(L).NE.FEOREF(K,L))
G2    DO1200 K=1,FNEO
H2    PERFORMED BY G2
J2    WRITE(1,2510)
K2
A3
B3    DO1216 M=1,2; EON(M)=FEOREF(K,M)
C3    WRITE(18)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
D3
E3    R=0
```

Figure 5.4.3-9 Page (2 of 6)

```
F3    FIRST=1
G3    WRITE(1,1205)
H3    READ(18,END=1215)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH
J3    INPSE
K3
A4
B4    (NSHT.LT.2)
C4    DO2800 J=2,NSHT; WRITE(1,2402)
D4    READ(1,2403; ERR=2401) (SHTN(K),K=1,2); READ(1,1003,ERR=2404)REV
E4    WRITE(1,1006)
F4    READ(1,1008,ERR=2406)NEO; DO2451 K=1,10; DO2450 L=1,2 EOREF(K,L)='  '
G4    (NEO.LT.0)
H4    (NEO.EQ.0)
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5    DO2550 K=1,NEO
J5
K5
```

Figure 5.4.3-9 Page (3 of 6)

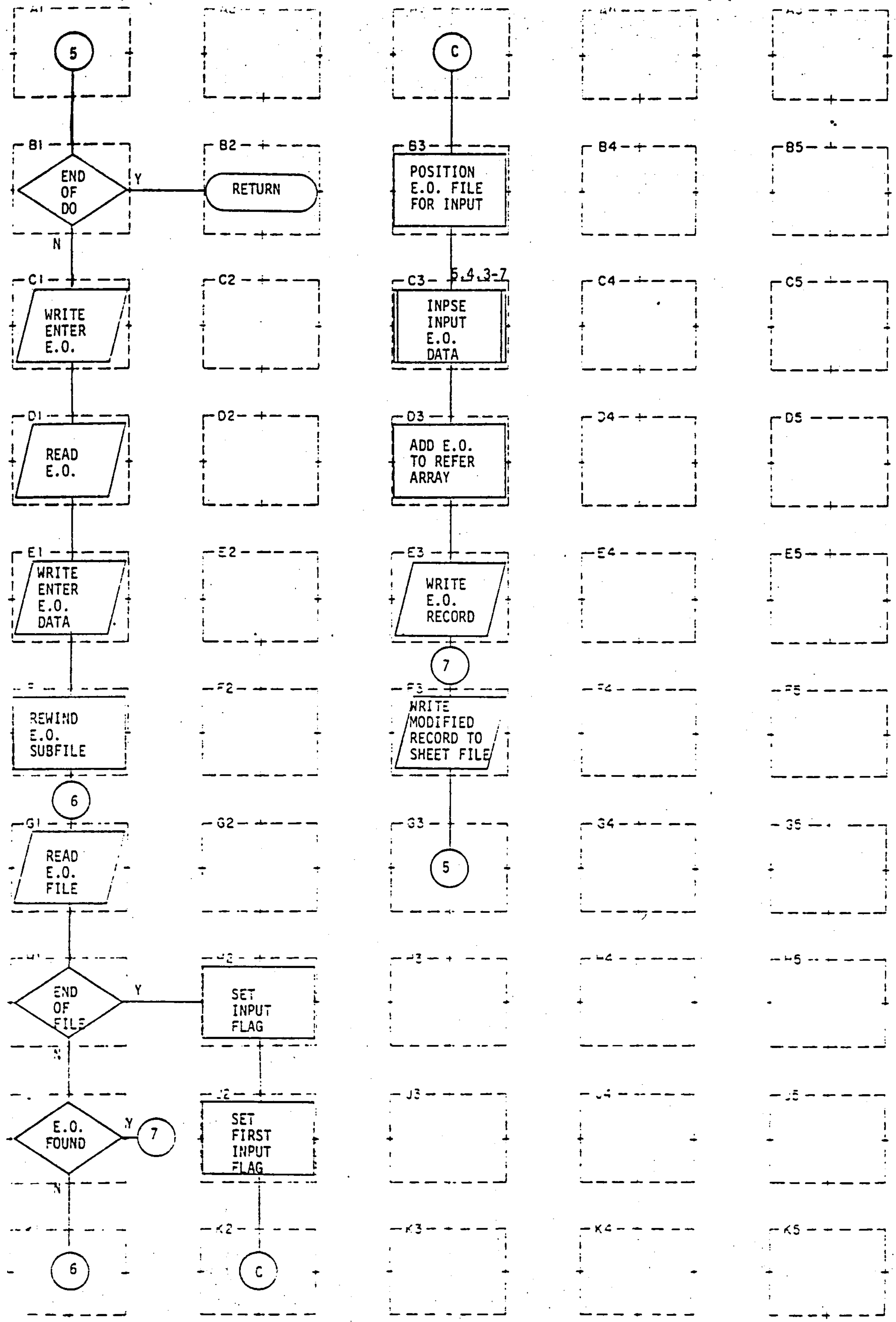


Figure 5.4.3-9

Page (4 of 6)

A1

B1 PERFORMED BY H5 (Page 1 of 6)

C1 WRITE(1,2510)

D1 READ(1,2520,ERR=2508) (EOREF(K,L),L=1,2)

E1 WRITE(1,1205)

F1 REWIND 18

G1 READ(18,END=1240)EON,ETIT,EPTIT,EOREV,EPT,ERDT,EOVEH

H1 PERFORMED BY G1

J1 DO2532 L=1,2; (EON(L).NE.EOREF(K,L))

K1

A2

B2

C2

D2

E2

F2

G2

H2 R=0

J2 FIRST=1

K2

A3

B3 READ(18,END=2545)EON,ETIT,EPTIT,EOREV,EPT,ERDT,EOVEH

C3 INPSE

D3 DO2546 M=1,2; EON(M)=EOREF(K,M)

E3 WRITE(18)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH

Figure 5.4.3-9 Page (5 of 6)

```
F3    WRITE(12)DRAW,SHTN,REV,NEO,EOREF
G3
H3
J3
K3
A4
B4
C4
D4
E4
F4
G4
H4
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.3-9 Page (6 of 6)

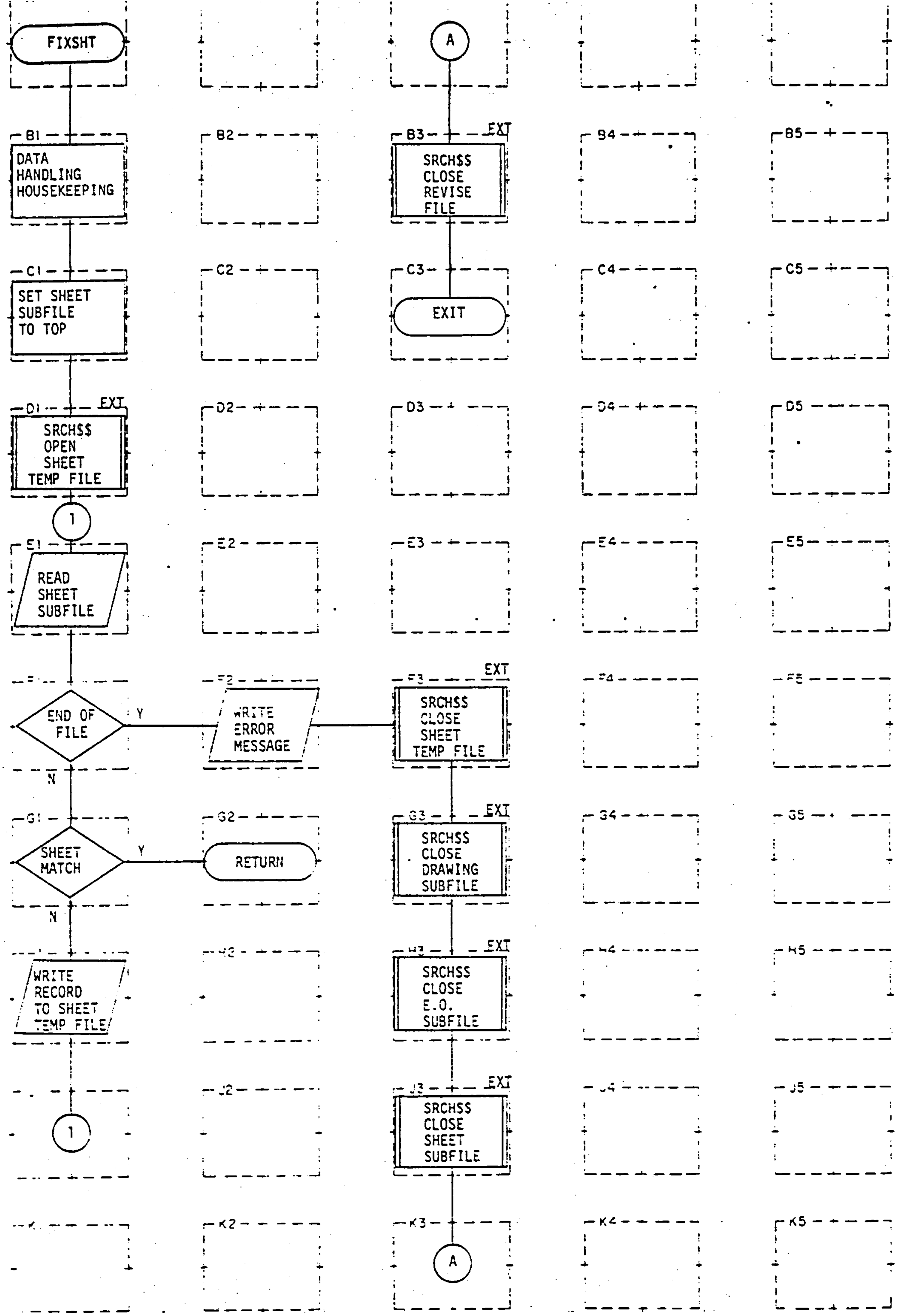


Figure 5.4.3-10

Page (1 of 3)

```
A1
B1    $INSERT COMMON; $INSERT SYSCOM>KEYS.F
C1    REWIND 12
D1    SRCH$$(K$RDWR+K$NDAM,'STEMP',6,10,1,IC)
E1    READ(12,END=1000)DRW,SNTN,REV,NEO,EOREF
F1    PERFORMED BY E1
G1    DO 100 I=1,4; (DRAW(I).NE.DRW(I))
H1    WRITE(14)DRW,SHTN,REV,NEO,EOREF
J1
K1
A2
B2
C2
D2
E2
F2    WRITE(1,300)
G2
H2
J2
K2
A3
B3    SRCH$$(K$CLOS,'REVS',6,0,0,0)
C3
D3
E3
```

Figure 5.4.3-10 Page (2 of 3)

F3	SRCH$$(K$CLOS,'STEMP',6,0,0,0)
G3	SRCH$$(K$CLOS,'DRAW',6,0,0,0)
H3	SRCH$$(K$CLOS,'EO',6,0,0,0)
J3	SRCH$$(K$CLOS,'SHEET',6,0,0,0)
K3	
A4	
B4	
C4	
D4	
E4	
F4	
G4	
H4	
J4	
K4	
A5	
B5	
C5	
D5	
E5	
F5	
G5	
H5	
J5	
K5	

Figure 5.4.3-10 Page (3 of 3)

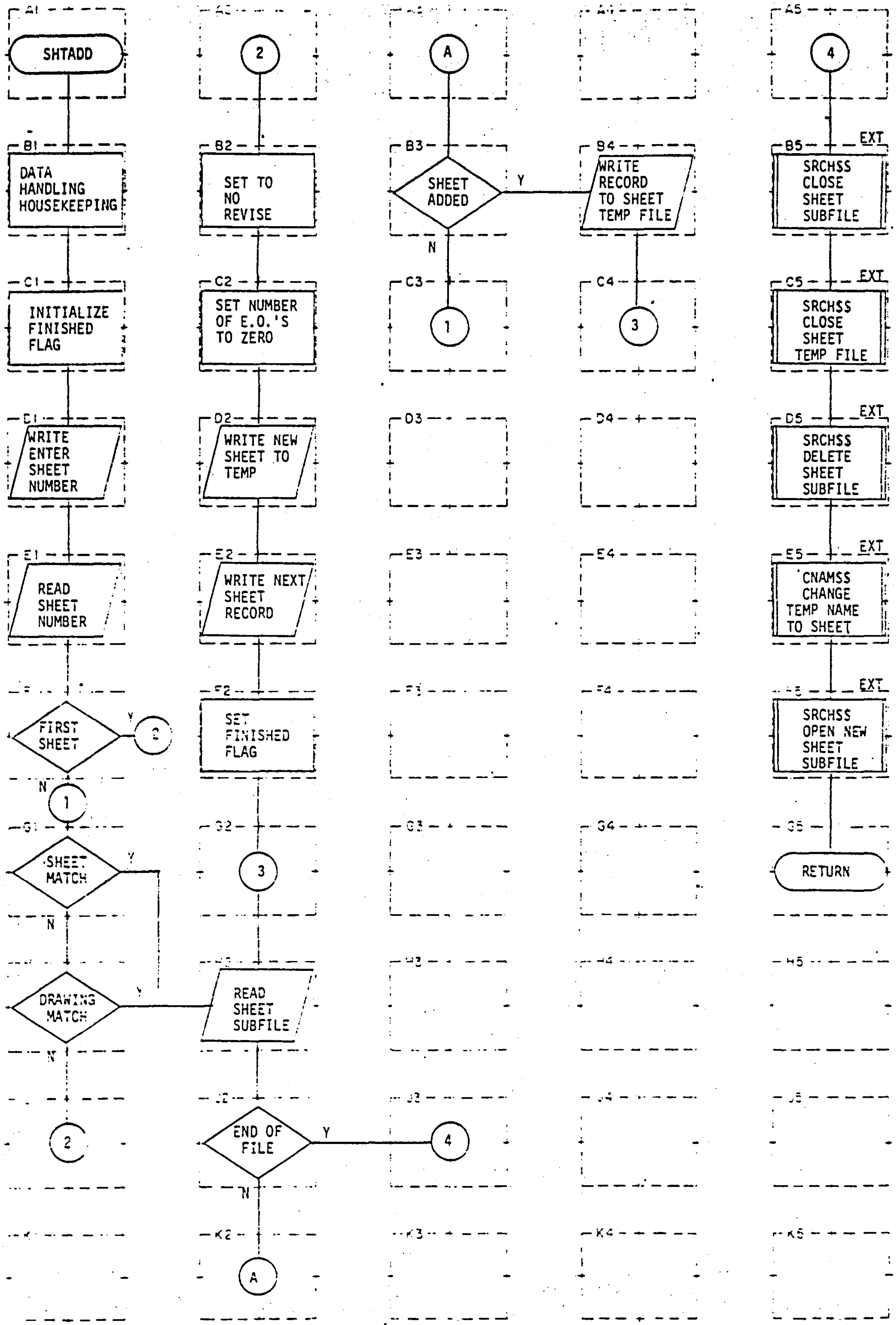


Figure 5.4.3-11

Page (1 of 3)

```
A1
B1   $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*2; *4
C1   FINISH=0
D1   WRITE(1,10)
E1   READ(1,15,ERR=5) (IISHTN(N),N=1,2)
F1   (IISHTN(1).EQ.1)
G1   (IISHTN(1).EQ.SHTN(1))
H1   DO 20 I=1,4; (DRW(I).NE.DRAW(I))
J1
K1
A2
B2   IIREV='NC'
C2   IINEO=0
D2   WRITE(14)DRW,IISHTN,IIREV,IINEO,IIEORE
E2   WRITE(14)DRW,SHTN,REV,NEO,EOREF
F2   FINISH=1
G2
H2   READ(12,END=200)DRW,SHTN,REV,NEO,EOREF
J2   PERFORMED BY H2
K2
A3
B3
C3   (FINISH.EQ.0)
D3
E3
```

Figure 5.4.3-11

F3

G3

H3

J3

K3

A4

B4 WRITE(14)DRW,SHTN,REV,NEO,EOREF

C4

D4

E4

F4

G4

H4

J4

K4

A5

B5 SRCH$$(K$CLOS,'SHEET',6,0,0,0)

C5 SRCH$$(K$CLOS,'STEMP',6,0,0,0)

D5 SRCH$$(K$DELE,'SHEET',6,0,0,0)

E5 CNAM$$('STEMP',6,'SHEET',6,IC)

F5 SRCH$$(K$DWR+K$NDAM,'SHEET',6,8,1,IC)

G5

H5

J5

K5

Figure 5.4.3-11 Page (3 of 3)

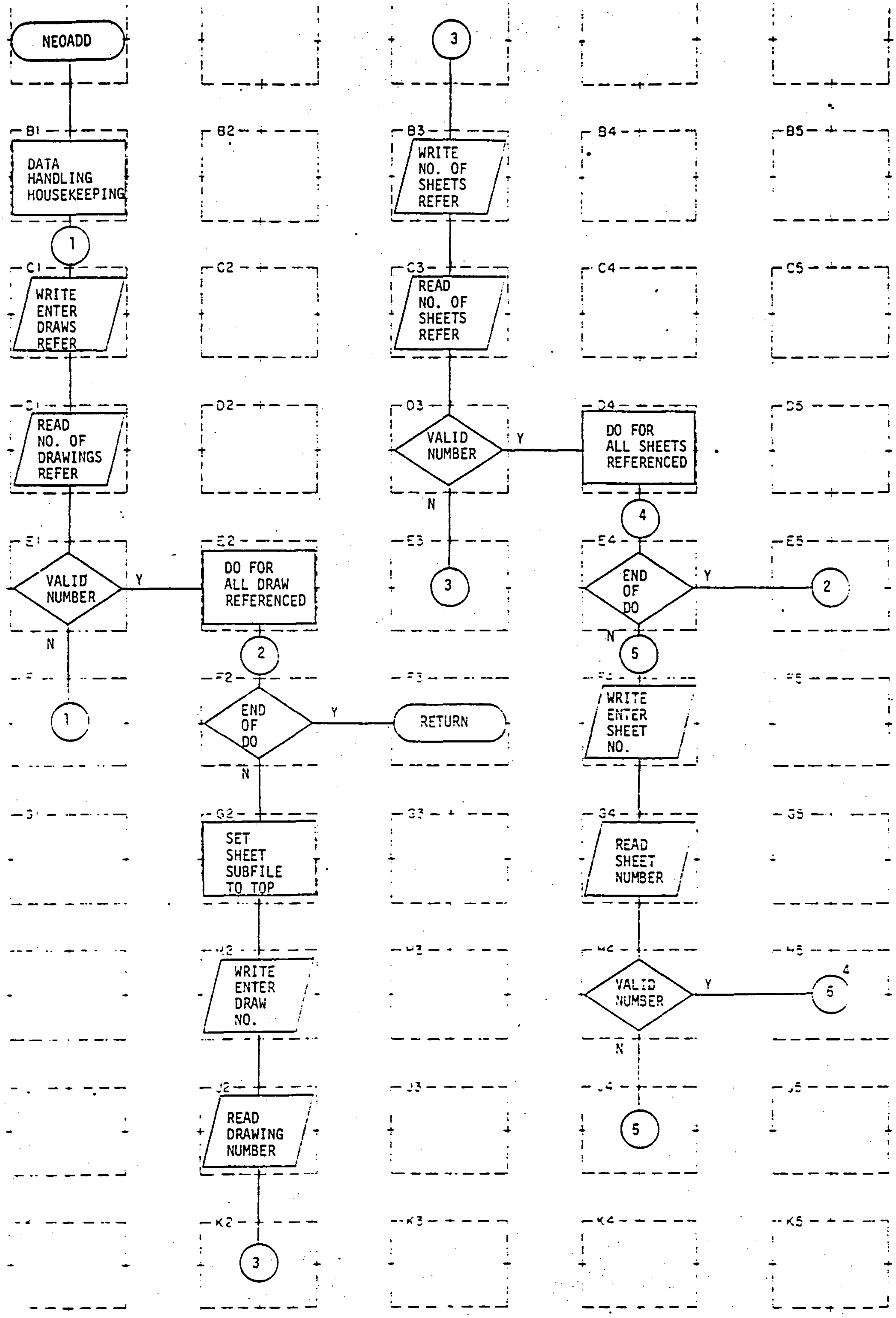


Figure 5.4.3-12

Page (1 of 9)

```
A1
B1    $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*2
C1    WRITE(1,2)
D1    READ(1,3,ERR=1)IOPT
E1    (IOPT.LE.0)
F1
G1
H1
J1
K1
A2
B2
C2
D2
E2    DO300 I=1,IOPT
F2    PERFORMED BY E2
G2    REWIND 12
H2    WRITE(1,5)
J2    READ(1,6,ERR=4)IDR
K2
A3
B3    WRITE(1,8)
C3    READ(1,3,ERR=7)IANS
D3    (IANS.LE.0)
E3
```

Figure 5.4.3-12

F3

G3

H3

J3

K3

A4

B4

C4

D4 DO250 J=1,IANS

E4 PERFORMED BY E4

F4 WRITE(1,13)

G4 READ(1,15,ERR=12) (ISHT(N),N=1,2)

H4 (ISHT(1).LE.0)

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.3-12 Page (3 of 9)

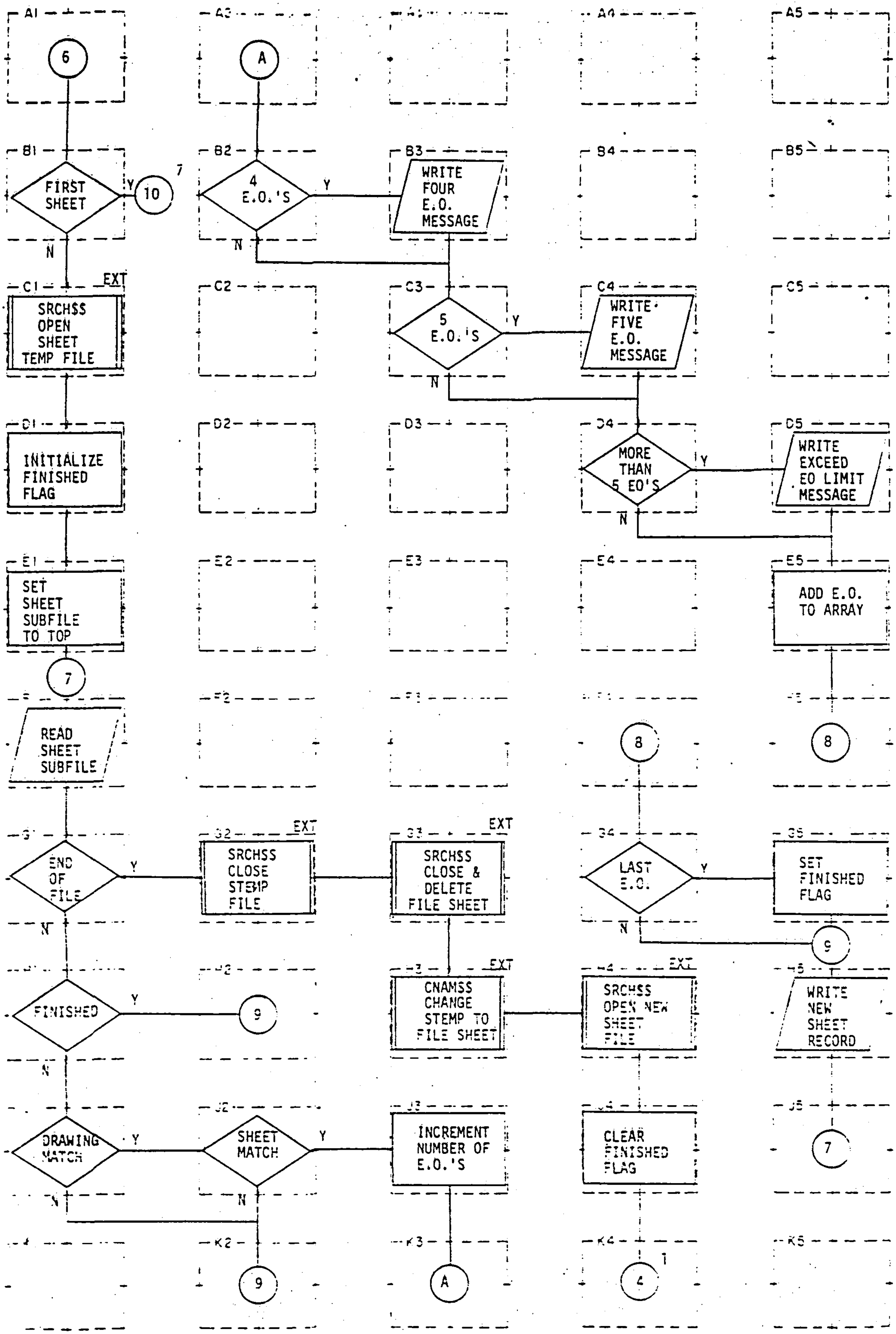


Figure 5.4.3-12

```
A1
B1      (ISHT(1).EQ.1.AND.ISHT(2).EQ.0)
C1      SRCH$$(K$RDWR+K$NDAM,'STEMP',6,10,1,IC)
D1      FINISH=0
E1      REWIND 12
F1      READ(12,END=200)DRW,SHTN,REV,NEO,EOREF
G1      (FINISH.EQ.1)
H1      DO20 L=1,4; (IDR(L).NE.DRW(L))
J1
K1
A2
B2      (NEO.EQ.4)
C2
D2
E2
F2
G2      SRCH$$(KSCLOS,'STEMP',6,0,0,0)
H2
J2      DO25 N=1,2; (ISHT(N).NE.SHTN(N))
K2
A3
B3      WRITE(1,30) (ISHT(N),N=1,2),DRW
C3      (NEO.EQ.5)
D3
E3
```

Figure 5.4.3-12 Page (5 of 9)

```
F3
G3    SRCH$$(K$CLOS,'SHEET',6,0,0,0); SRCH$$(K$DELE,'SHEET',6,0,0,0)
H3    CNAM$$('STEMP',6,'SHEET',6,IC)
J3    NEO=NEO+1
K3
A4
B4
C4    WRITE(1,40) (ISHT(N),N=1,2),DRW
D4    (NEO.GE.6)
E4
F4
G4    (J.EQ.IANS)
H4    SRCH$$(K$RDWR+K$NDAM,'SHEET',6,8,1,IC)
J4    FINISH=0
K4
A5
B5
C5
D5    WRITE(1,50) (ISHT(N),N=1,2),DRW,NEO
E5    DO150 K=1,2; EOREF(NEO,K)=EON(K)
F5
G5    FINISH=1
H5    WRITE(14)DRW,SHTN,REV,NEO,EOREF
J5
K5
```

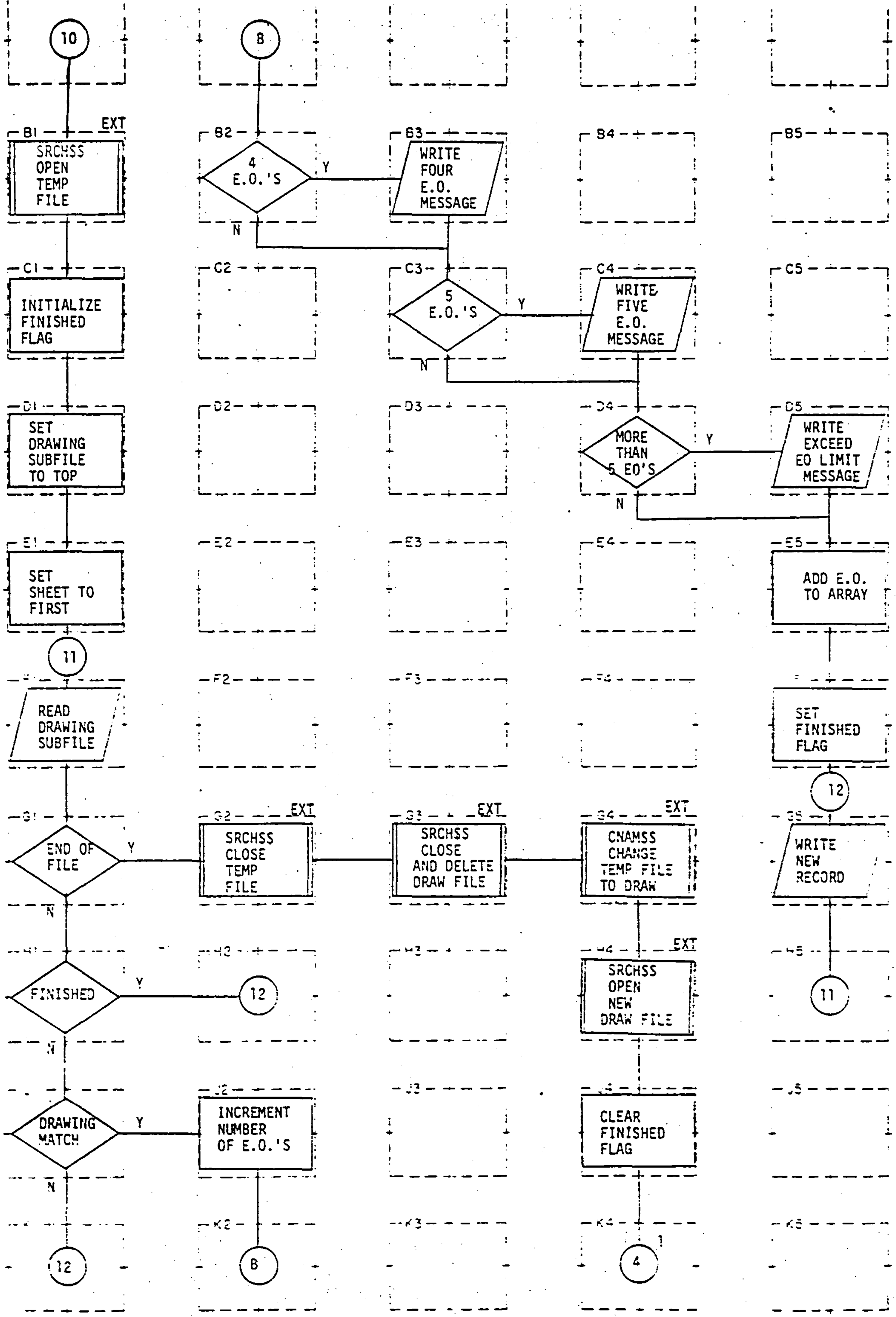


Figure 5.4.3-12

```
A1
B1   SRCH$$(K$RDWR+K$NDAM,'TEMP',6,6,1,IC)
C1   FINISH=0
D1   REWIND 6
E1   ISHT(1)=1; ISHT(2)=0
F1   READ(6,END=285)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
G1   PERFORMED BY F1
H1   (FINISH.EQ.1)
J1   DO265 L=1,4; (IDR(L).NE.DRAW(L))
K1
A2
B2   (FNEO.EQ.4)
C2
D2
E2
F2
G2   SRCH$$(K$CLOS,'TEMP',6,0,0,0)
H2
J2   FNEO=FNEO+1
K2
A3
B3   WRITE(1,30) (ISHT(N),N=1,2),DRAW
C3   (FNEO.EQ.5)
D3
E3
```

Figure 5.4.3-12

```
F3
G3    SRCH$$(K$CLOS,'DRAW',6,0,0,0); SRCH$$(K$DELE,'DRAW',6,0,0,0)
H3
J3
K3
A4
B4
C4    WRITE(1,40) (ISHT(N),N=1,2),DRAW
D4    (FNEO.GE.6)
E4
F4
G4    CNAM$$('TEMP',6,'DRAW',6,IC)
H4    SRCH$$(K$RDWR+K$NDAM,'DRAW',6,2,1,IC)
J4    FINISH=0
K4
A5
B5
C5
D5    WRITE(1,50) (ISHT(N),N=1,2),DRAW,FNEO
E5    DO270 K=1,2; FEOREF(FNEO,K)=EON(K)
F5    FINISH=1
G5    WRITE(10)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
H5
J5
K5
```

Figure 5.4.3-12 Page (9 of 9)

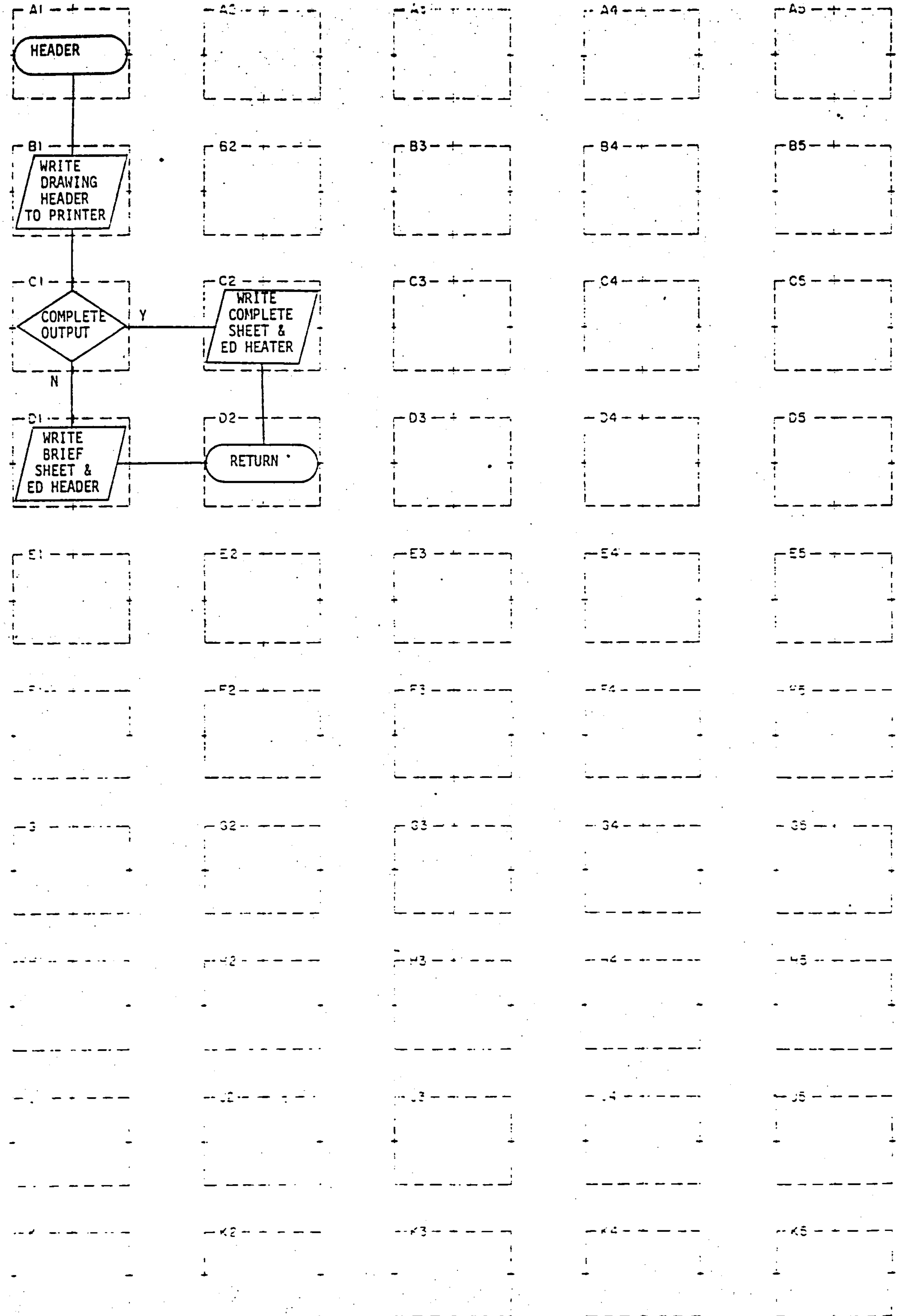


Figure 5.4.3-13

Page (1 of 2)

A1	
B1	WRITE(7,200)
C1	(R.EQ.1)
D1	WRITE(7,500)
E1	
F1	
G1	
H1	
J1	
K1	
A2	
B2	
C2	WRITE(7,300)
D2	
E2	
F2	
G2	
H2	
J2	
K2	
A3	
B3	
C3	
D3	
E3	

Figure 5.4.3-13

Page (2 of 2)

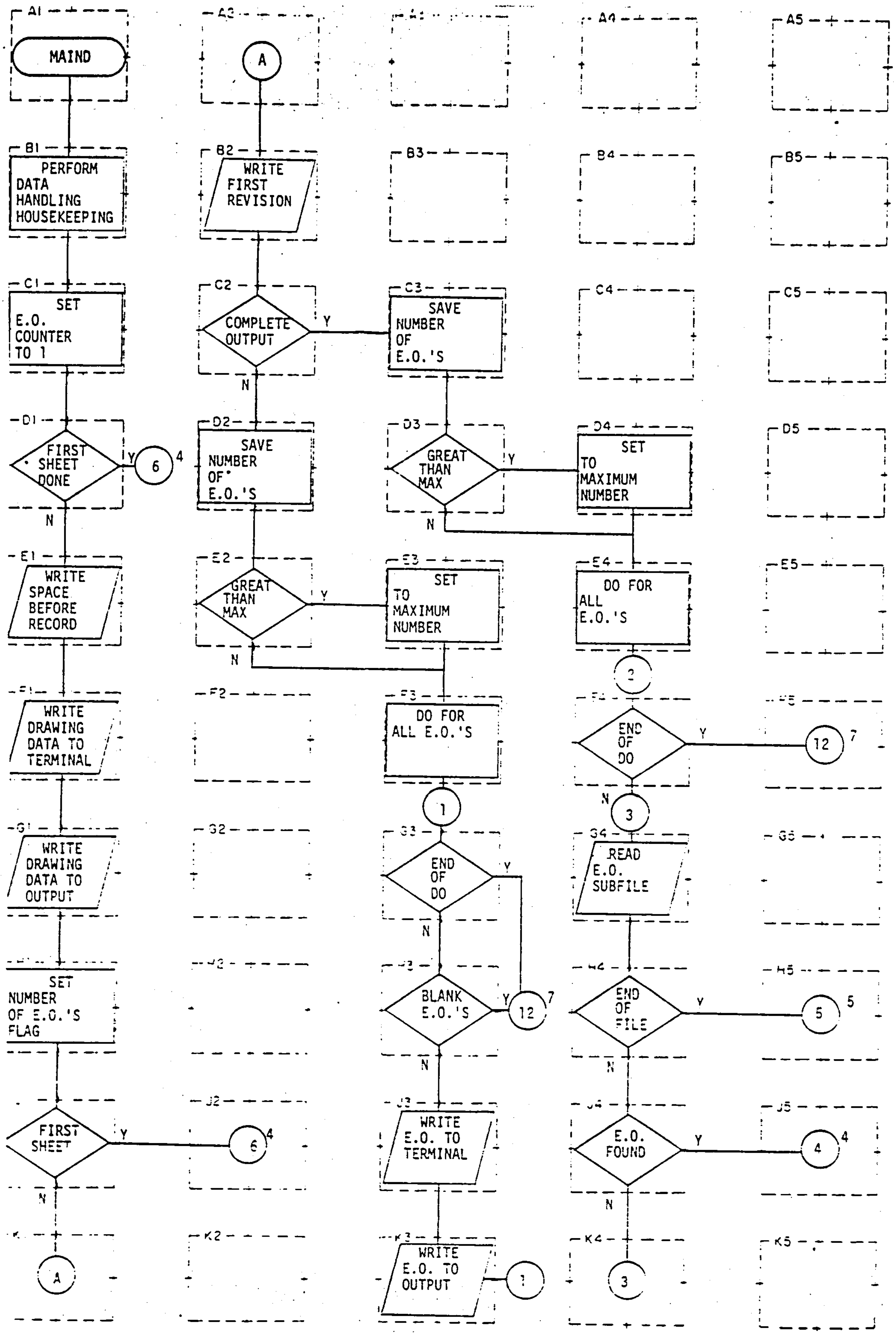


Figure 5.4.3-14

Page (1 of 9)

```
A1
B1   $INSERT COMMON; INTEGER*2
C1   EOKNT = 1
D1   (INEO.EQ.1.AND.SECOND.EQ.1)
E1   WRITE (1,998); WRITE (7,999)
F1   WRITE (1,100)KNT,PTIT; WRITE (1,120)DRAW,DT
G1   WRITE (7,220)KNT,PTIT,DRAW,DT
H1   INEO = 1
J1   (FIRST.EQ.0)
K1
A2
B2   WRITE (1,160)FREV; WRITE (7,160)FREV
C2   (R.EQ.0)
D2   II = FNEO
E2   (FNEO.GT.10)
F2
G2
H2
J2
K2
A3
B3
C3   II = FNEO
D3   (FNEO.GT.10)
E3   II = 10
```

Figure 5.4.3-14 Page (2 of 9)

F3 DO 35 I = 1,II

G3 Performed by F3

H3 (FEOREF(I,1).EQ.' ')

J3 WRITE (1,38)I,(FEOREF(I,K),K = 1,2)

K3 WRITE (7,38)I,(FEOREF(I,K),K = 1,2)

A4

B4

C4

D4

E4 DO 301I = 1,II

F4 Performed by E4

G4 READ (18,END = 90)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH

H4 Performed by G4

J4 DO 400I = 1,2; (EON(N).NE.EOREF(I,N))

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.3-14 Page (3 of 9)

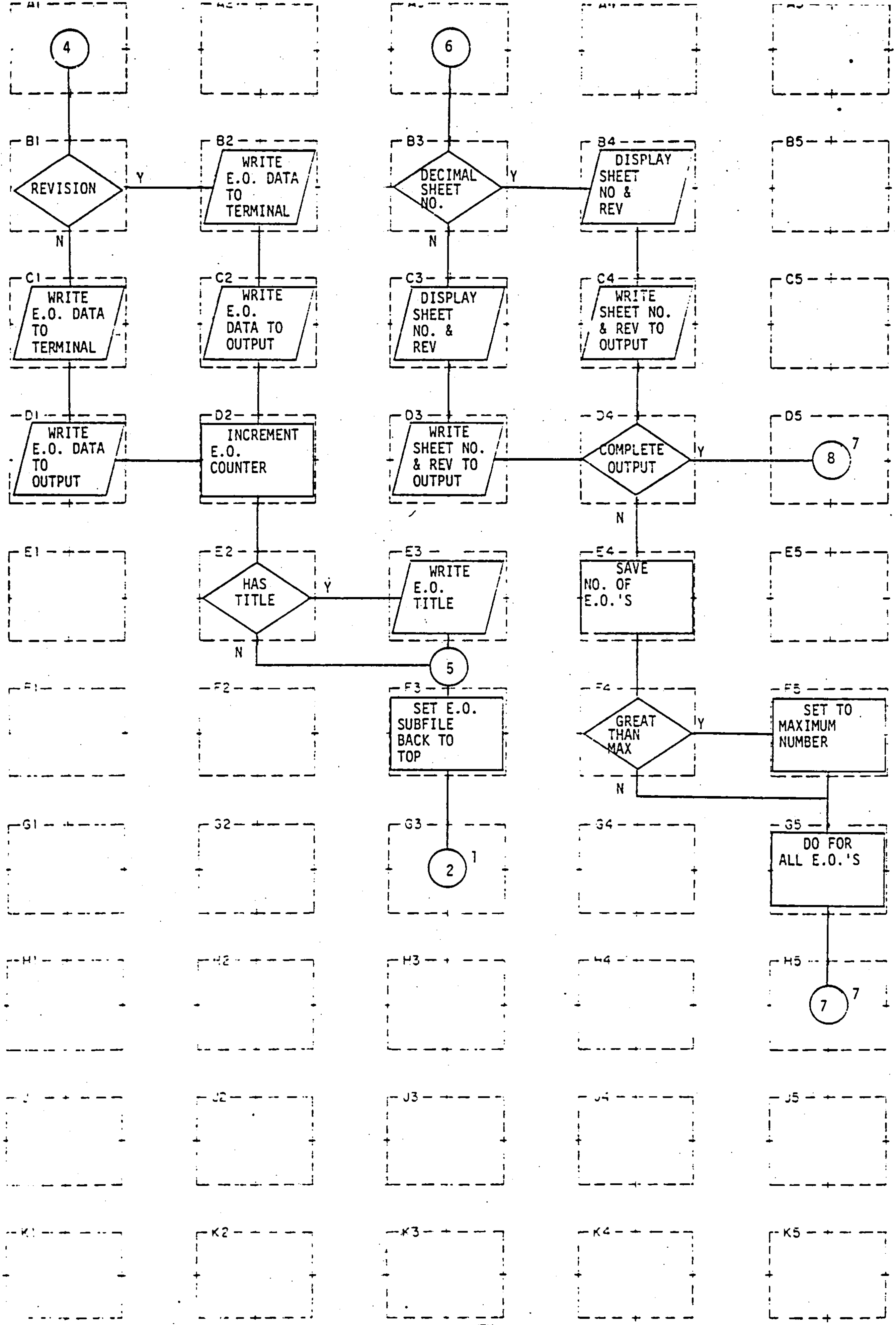


Figure 5.4.3-14

Page (4 of 9)

```
A1
B1   (EOREV.EQ.'NC')
C1   WRITE (1,140)EOKNT,EON,EOREV,EDT
D1   WRITE (7,230)EOKNT,EON,EOREV,EDT,EPTIT
E1
F1
G1
H1
J1
K1
A2
B2   WRITE (1,140)EOKNT,EON,EOREV,FRDT
C2   WRITE (7,230)EOKNT,EON,EOREV,ERDT,EPTIT
D2   EOKNT = EOKNT + 1
E2   (EPTIT(1),NE.' ')
F2
G2
H2
J2
K2
A3
B3   (SHTN(2).EQ.0)
C3   WRITE (1,270)SHTN(1),REV
D3   WRITE (7,270)SHTN(1),REV
E3   WRITE (1,130)EPTIT
```

Figure 5.4.3-14 Page (5 of 9)

```
F3   REWIND 18
G3
H3
J3
K3
A4
B4   WRITE (1,260) (SHTN(K),K = 1,2), REV
C4   WRITE (7,260) SHTN,REV
D4   (R.EQ.0)
E4   II = NEO
F4   (NEO.GT.10)
G4
H4
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5   II = 10
K5   DO 37 = 1,II
```

Figure 5.4.3-14 Page (6 of 9)

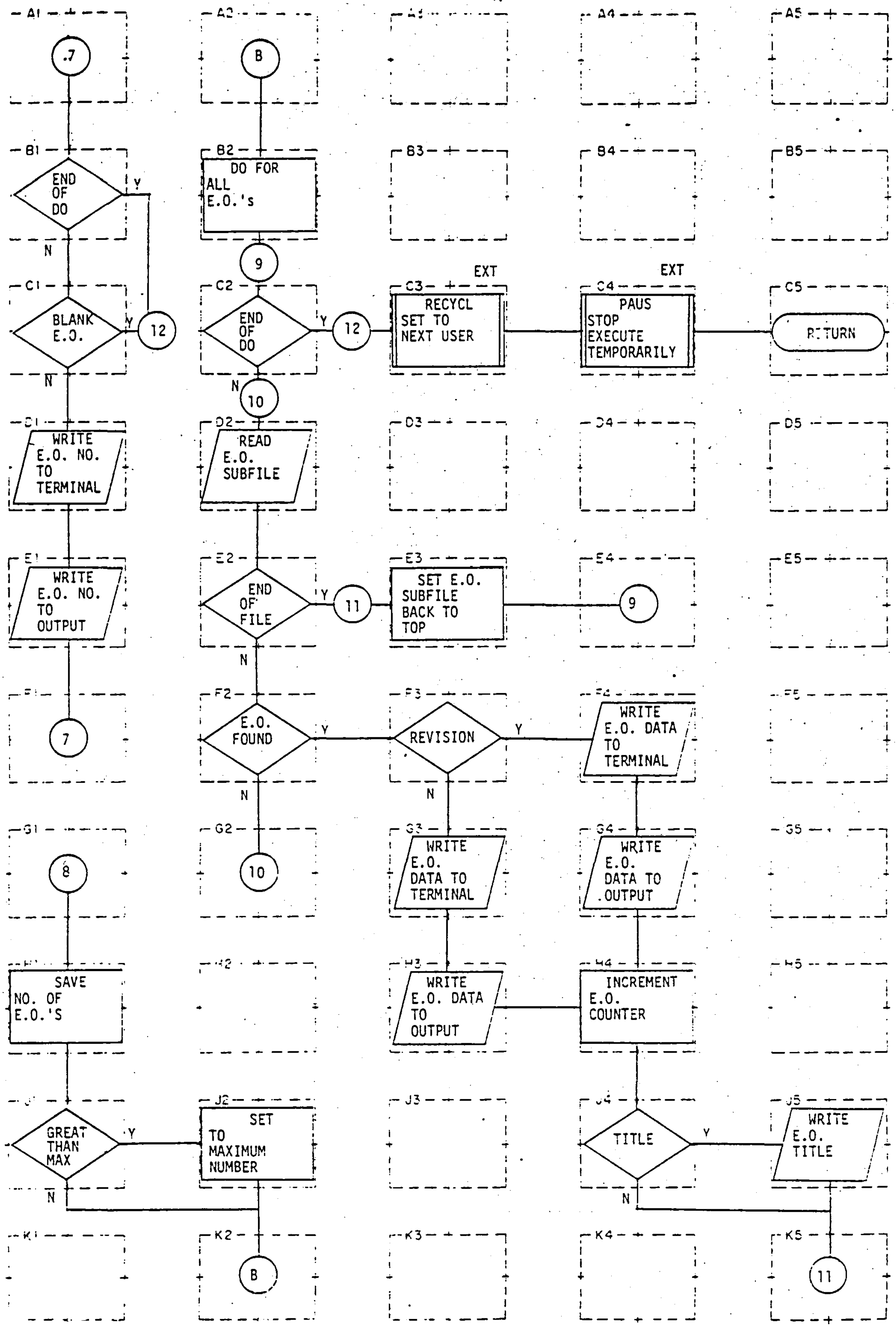


Figure 5.4.3-14

A1

B1 Performed by G5 (Page 6 of 9)

C1 (EOREF(I,1).EQ.' ')

D1 WRITE (1,38) I, (EOREF(I,K),K = 1,2)

E1 WRITE (7,38) I, (EOREF(I,K),K = 1,2)

F1

G1

H1 II = NEO

J1 (NEO.GT.10)

K1

A2

B2 DO 300 I = 1,II

C2 Performed by B2

D2 READ (18,END = 90)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH

E2 Performed by C2

F2 DO 400 N = 1,2; (EON(N).NE.EOREF(I,N))

G2

H2

J2 II = 10

K2

A3

B3

C3 RECYCL

D3

E3 REWIND 18

Figure 5.4.3-14 Page (8 of 9)

```
F3   (EOREV.EQ.'NC')
G3   WRITE (1,140)EOKNT,EON,EOREV,EDT
H3   WRITE (7,230)EOKNT,EDN,EOREV,EDT,EPTIT
J3
K3
A4
B4
C4   PAUS
D4
E4
F4   WRITE (1,140)EOKNT,EON,EOREV,ERDT
G4   WRITE (7,230)EOKNT,EON,EOREV,ERDT,EPTIT
H4   EOKNT = EOKNT + 1
J4   (EPTIT(1).NE.'  ')
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5   WRITE (1,230)EPTIT
K5
```

Figure 5.4.3-14 Page (9 of 9)

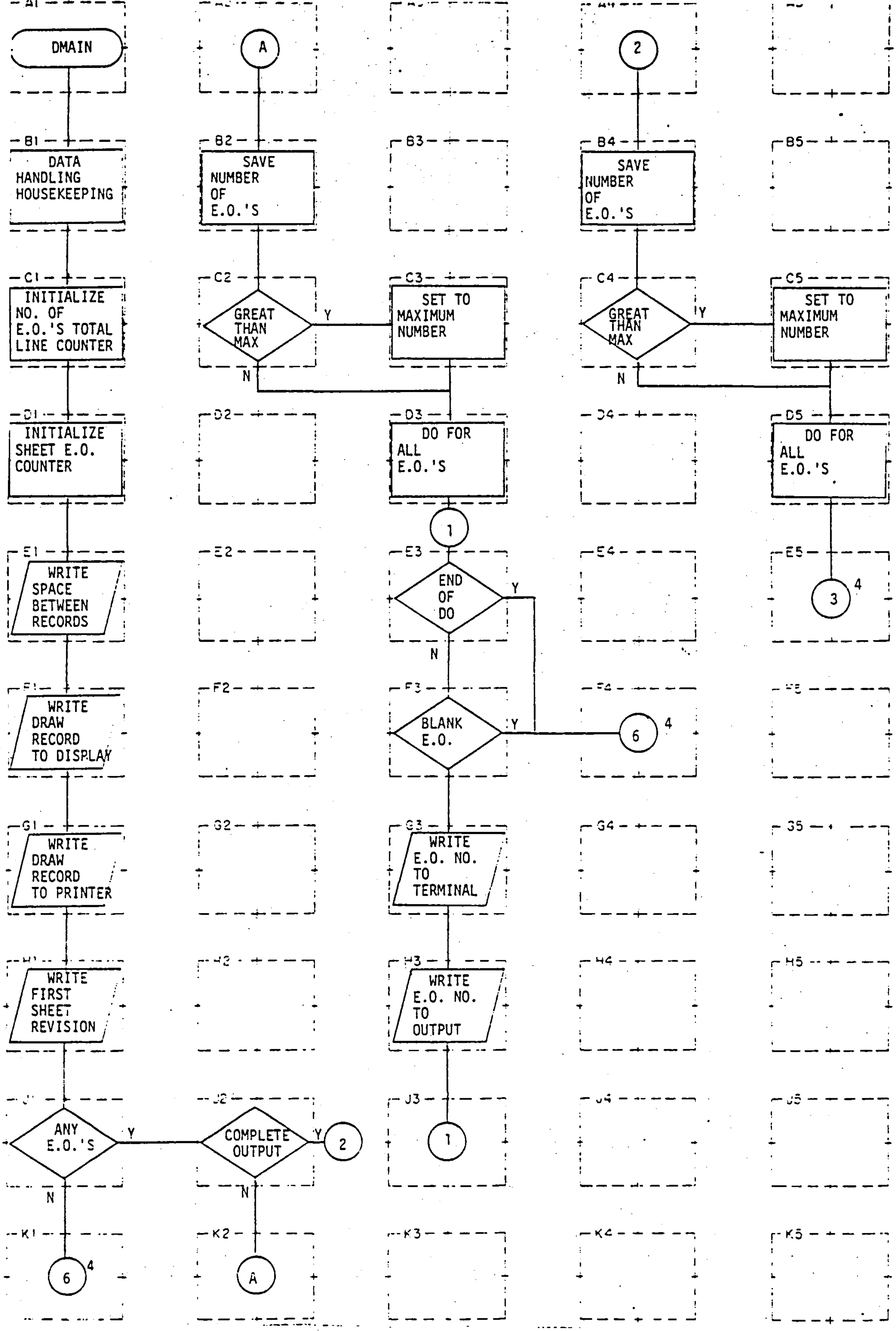


Figure 5.4.3-15

Page (1 of 12)

```
A1
B1    $INSERT COMMON; INTEGER * 2
C1    INEO = 0
D1    EOKNT = 1
E1    WRITE (1,998); WRITE (7,999)
F1    WRITE (1,100)KNT,PTIT; WRITE 1,120)DRAW,DT
G1    WRITE (7,220)KNT,PTIT,DRAW,DT
H1    WRITE (1,231)FREV; WRITE (7,231)FREV
J1    (FNEO.EQ.0)
K1
A2
B2    II = FNEO
C2    (FNEO.GT.10)
D2
E2
F2
G2
H2
J2    (R.EQ.0)
K2
A3
B3
C3    II = 10
D3    DO 35I = 1,II
E3    Performed by D3
```

Figure 5.4.3-15 Page (2 of 12)

```
F3   (FEOREF(I,1).EQ.'  ')
G3   WRITE (1,38)I,(FEOREF(I,K),K = 1,2)
H3   WRITE (1,38)I,(FEOREF(K,K),K = 1,2)
J3
K3
A4
B4   II = FNEO
C4   (FNEO.GT.10)
D4
E4
F4
G4
H4
J4
K4
A5
B5
C5   II = 10
D5   DO 301 I = 1,II
E5
F5
G5
H5
J5
K5
```

Figure 5.4.3-15

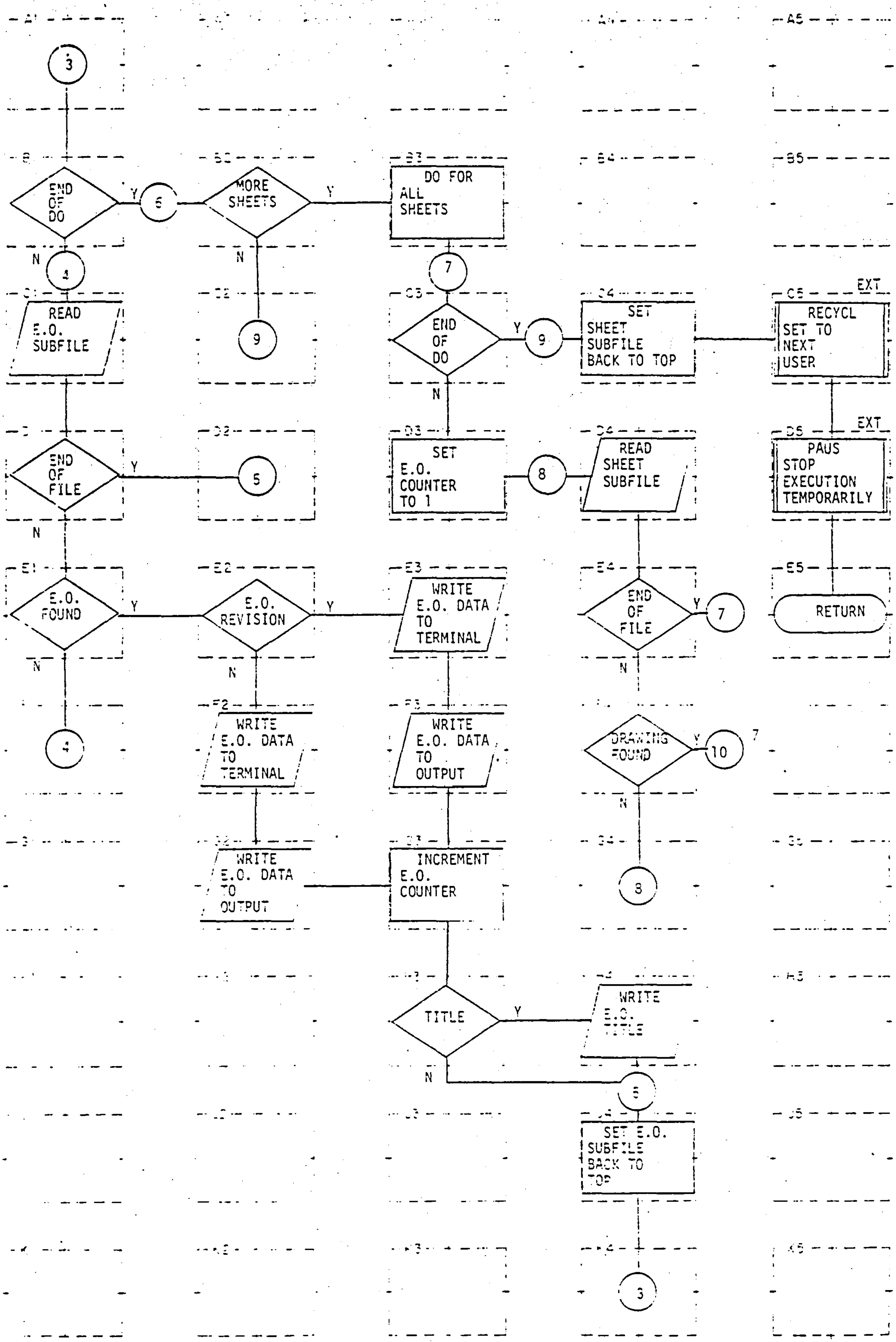


Figure 5.4.3-15

Page (4 of 12)

A1

B1 Performed by D5 (Page 3 of 12)

C1 READ (18,END = 91)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH

D1 Performed by C1

E1 DO 401 N = 1,2; (EON(N).NE.FEOREF(I,N))

F1

G1

H1

J1

K1

A2

B2 (NSHT.EQ.1)

C2

D2

E2 (EOREV.EQ.'NC')

F2 WRITE (1,140)EOKNT,EON; EOREV,EDT

G2 WRITE (7,240)EOKNT,EON,EOREV,EDT,EPTIT

H2

J2

K2

A3

B3 DO 190 K = 2,NSHT

C3 Performed by B3

D3 EOKNT = 1

E3 WRITE (1,140)EOKNT,EON,EOREV,ERDT

Figure 5.4.3-15 Page (5 of 12)

F3 WRITE (7,230)EOKNT,EON,EOREV,ERDT,EPTIT

G3 EOKNT = EOKNT + 1

H3 (EPTIT(1).NE.' ')

J3

K3

A4

B4

C4 REWIND 12

D4 READ (12,END = 190)DRW,SHTN,REV,NEO,EOREF

E4 Performed by D4

F4 DO 170 J = 1,4; (DRW(J).NE.DRAW(J))

G4

H4 WRITE (1,130)EPTIT

J4 REWIND 18

K4

A5

B5

C5 RECYCL

D5 PAUS

E5

F5

G5

H5

J5

K5

Figure 5.4.3-15 Page (6 of 12)

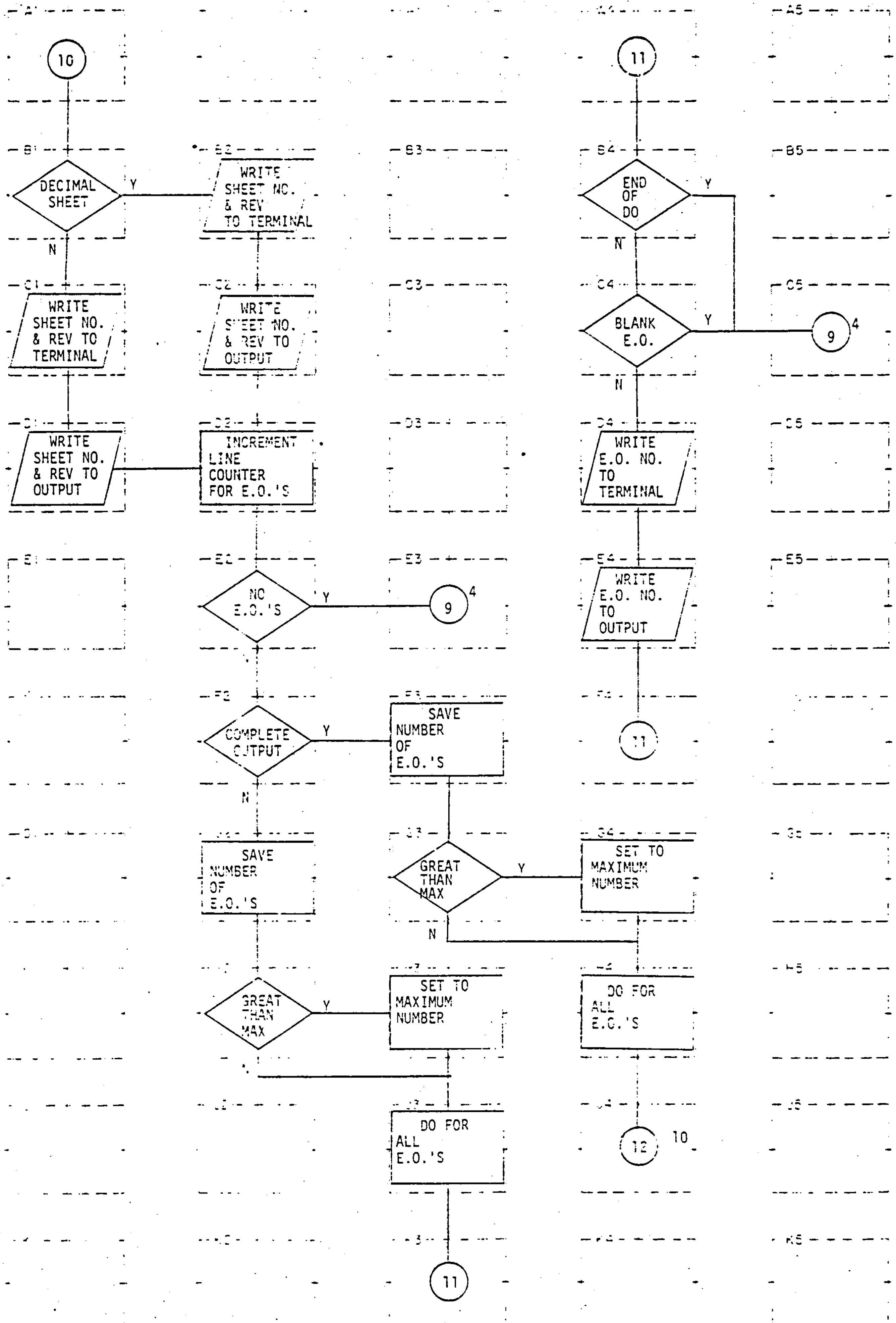


Figure 5.4.3-15

Page (7 of 12)

```
A1
B1   (SHTN(2).EQ.0)
C1   WRITE (1,270) SHTN(1),REV
D1   WRITE (7,270) SHTN(1),REV
E1
F1
G1
H1
J1
K1
A2
B2   WRITE (1,260) (SHTN(J),J = 1,2), REV
C2   WRITE (7,260) (SHTN(J),J = 1,2), REV
D2   INEO = INEO + NEO
E2   (NEO.EQ.0)
F2   (R.EQ.0)
G2   II = NEO
H2   (NEO.GT.10)
J2
K2
A3
B3
C3
D3
E3
```

Figure 5.4.3-15 Page (8 of 12)

```
F3    II = NEO
G3    (NEO.GT.10)
H3    II = 10
J3    DO 37 I = 1, II
K3
A4
B4    Performed by J3
C4    (EOREF(I,1).EQ.'  ')
D4    WRITE (1,38) I, (EOREF(I,K), K = 1,2)
E4    WRITE (7,38) I, (EOREF(I,K), K = 1,2)
F4
G4    II = 10
H4    DO 300 I = 1, II
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.3-15

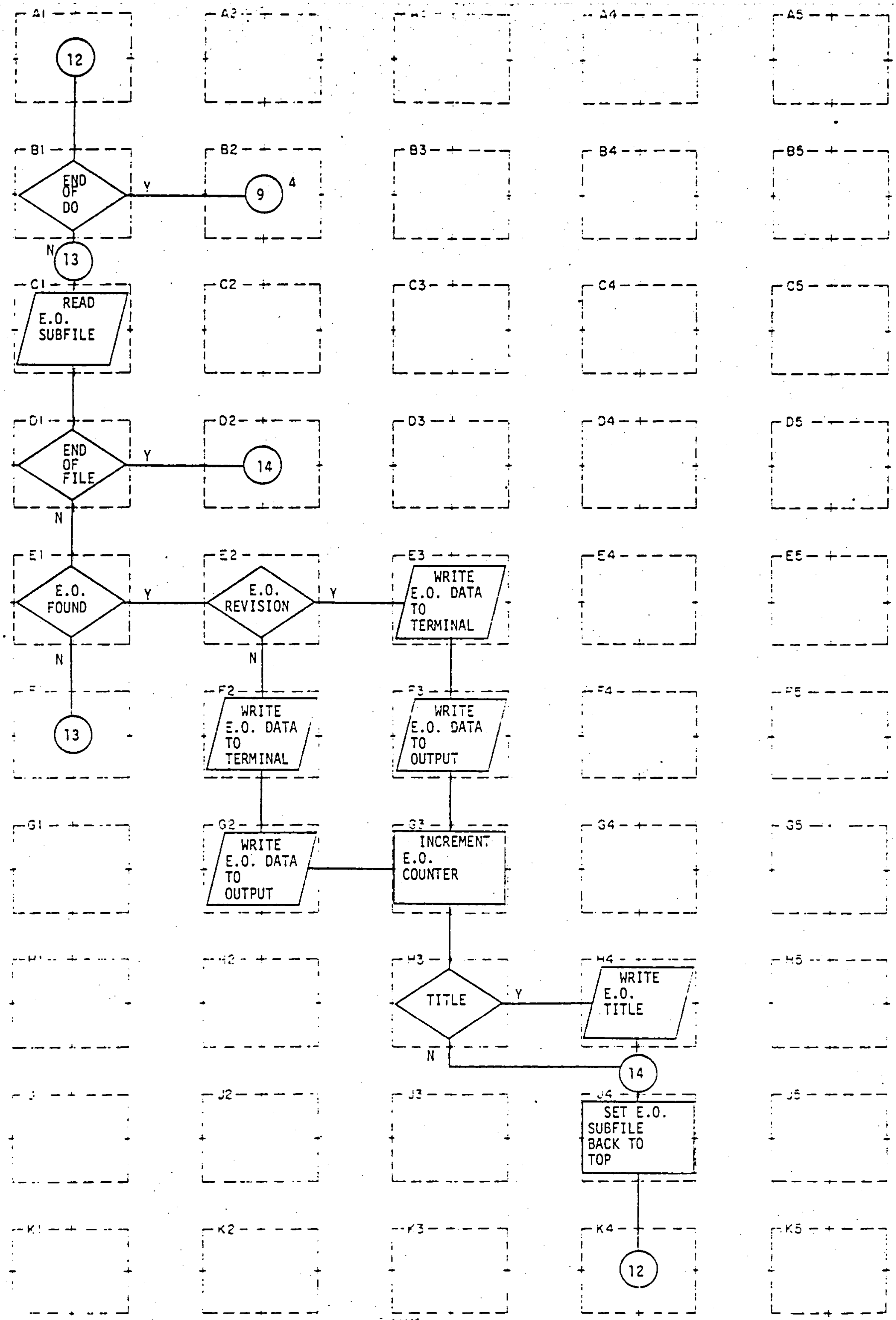


Figure 5.4.3-15

Page (10 of 12)

A1

B1 Performed by H4 (Page 9 of 12)

C1 READ (18, 90)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH

D1 Performed by C1

E1 DO 400 N = 1,2; (EON(N).NE.EOREF(I,N))

F1

G1

H1

J1

K1

A2

B2

C2

D2

E2 (EOREV.EQ.'NC')

F2 WRITE (1,140)EOKNT,EON,EOREV,EDT

G2 WRITE (7,240)EOKNT,EON,EOREV,EDT,EPTIT

H2

J2

K2

A3

B3

C3

D3

E3 WRITE (1,140)EOKNT,EON,EOREV,ERDT

Figure 5.4.3-15 Page (11 of 12)

```
F3   WRITE (7,230)EOKNT,EON,EOREV,ERDT,EPTIT
G3   EOKNT = EOKNT + 1
H3   (EPTIT(1).NE.'  ')
J3
K3
A4
B4
C4
D4
E4
F4
G4
H4   WRITE (1,130)EPTIT
J4   REWIND 18
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.3-15 Page (12 of 12

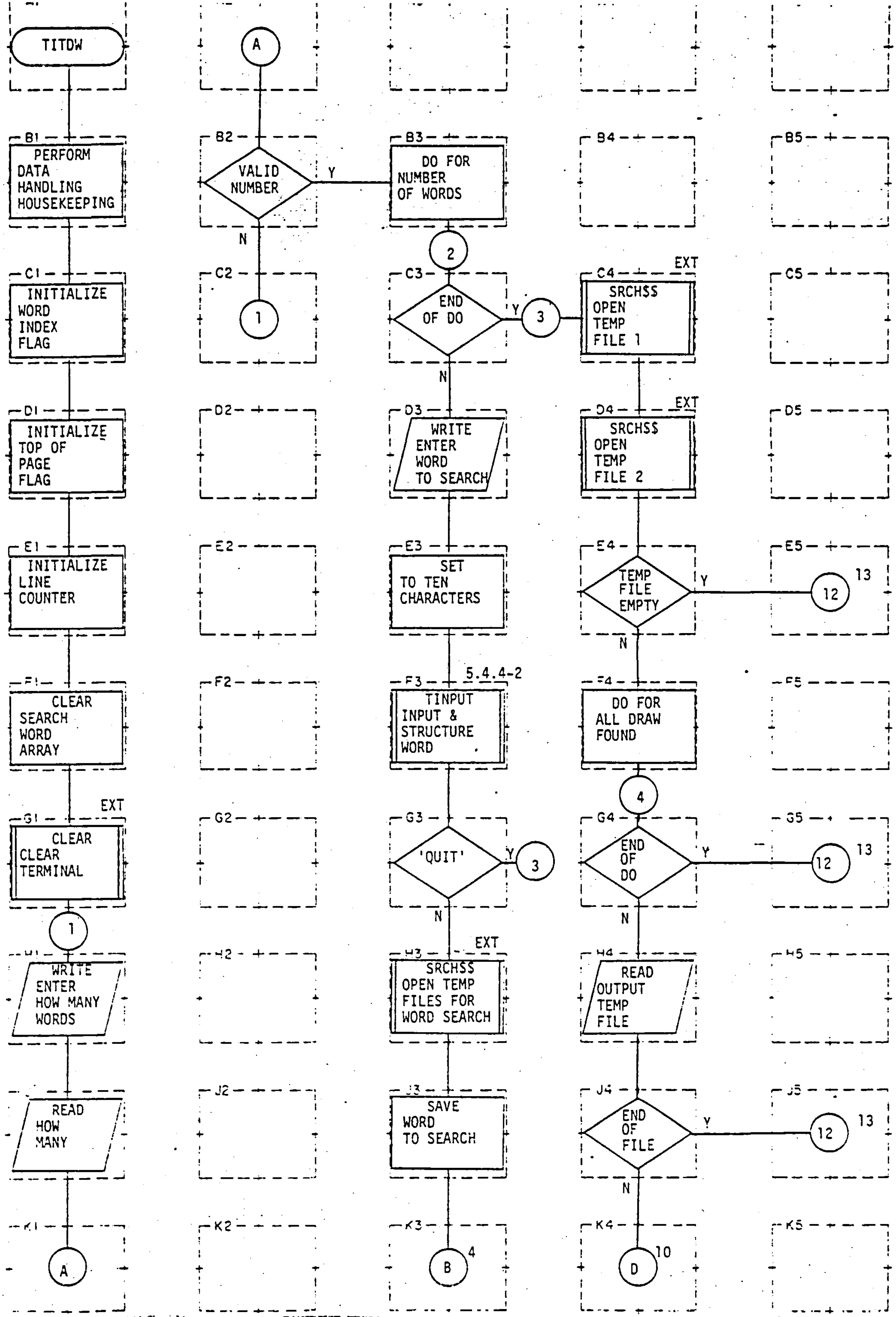


Figure 5.4.3-16

Page (1 of 14)

```
A1
B1    $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER*4; *2
C1    T1 = 0
D1    IPAGE = 0
E1    ILINE = 0
F1    DO 8003I = 1,4; DO 8004 J = 1,3; IEX(I,J) = '  '
G1    CLEAR
H1    WRITE (1,2)
J1    READ (1,8,ERR = 1001)ICON
K1
A2
B2    (ICON.LT.1); (ICON.GT.4)
C2
D2
E2
F2
G2
H2
J2
K2
A3
B3    DO 1000 LOOP = 1,ICON
C3    Performed by B3
D3    WRITE (1,1)
E3    LEN = 10
```

Figure 5.4.3-16 Page (2 of 14)

F3 TINPUT (IT,LEN)

G3 (IT(1).EQ.'QUIT')

H3 SRCH$$(K$RDWR+K$NDAM,'T1',6,9,1,IC); SRCH$$(K$RDWR+K$NDAM,'T2')
6,10,1,IC)

J3 DO 8006 K = 1,3; IEX (LOOP,K) = IT(K)

K3

A4

B4

C4 SRCH$$(K$RDWR+K$NDAM,'T1',6,9,1,IC)

D4 SRCH$$(K$RDWR+K$NDAM,'T2',6,10,1,IC)

E4 (DOC.LT.1)

F4 DO 9999 I = I,DOC

G4 Performed by F4

H4 READ (IO,END=1020)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,
FEOREF

J4 Performed by H4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.3-16

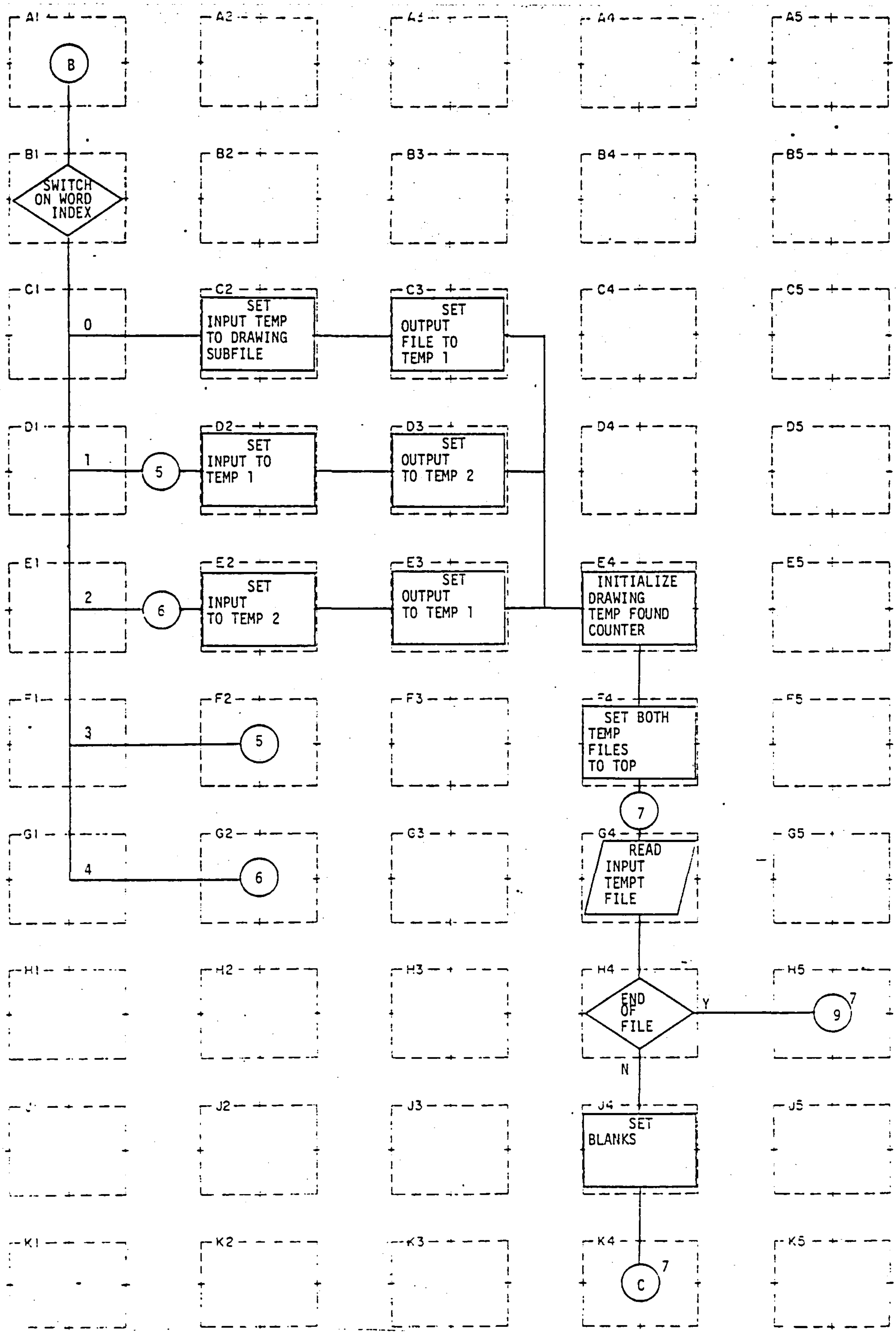


Figure 5.4.3-16

Page (4 of 14)

A1

B1 Performed by C1 Thru G1

C1 (T1.EQ.0)

D1 (T1.EQ.1)

E1 (T1.EQ.2)

F1 (T1.EQ.3)

G1 (T1.EQ.4)

H1

J1

K1

A2

B2

C2 IN = 6

D2 IN = 13

E2 IN = 14

F2

G2

H2

J2

K2

A3

B3

C3 IO = 13

D3 IO =14

E3 IO = 13

Figure 5.4.3-16 Page (5 of 14)

F3

G3

H3

J3

K3

A4

B4

C4

D4

E4 DOC = 0

F4 REWIND IN; REWIND IO

G4 READ(IN,END=100)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF

H4 Performed by G4

J4 BLNK = ' '

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.3-16 Page (6 of 14)

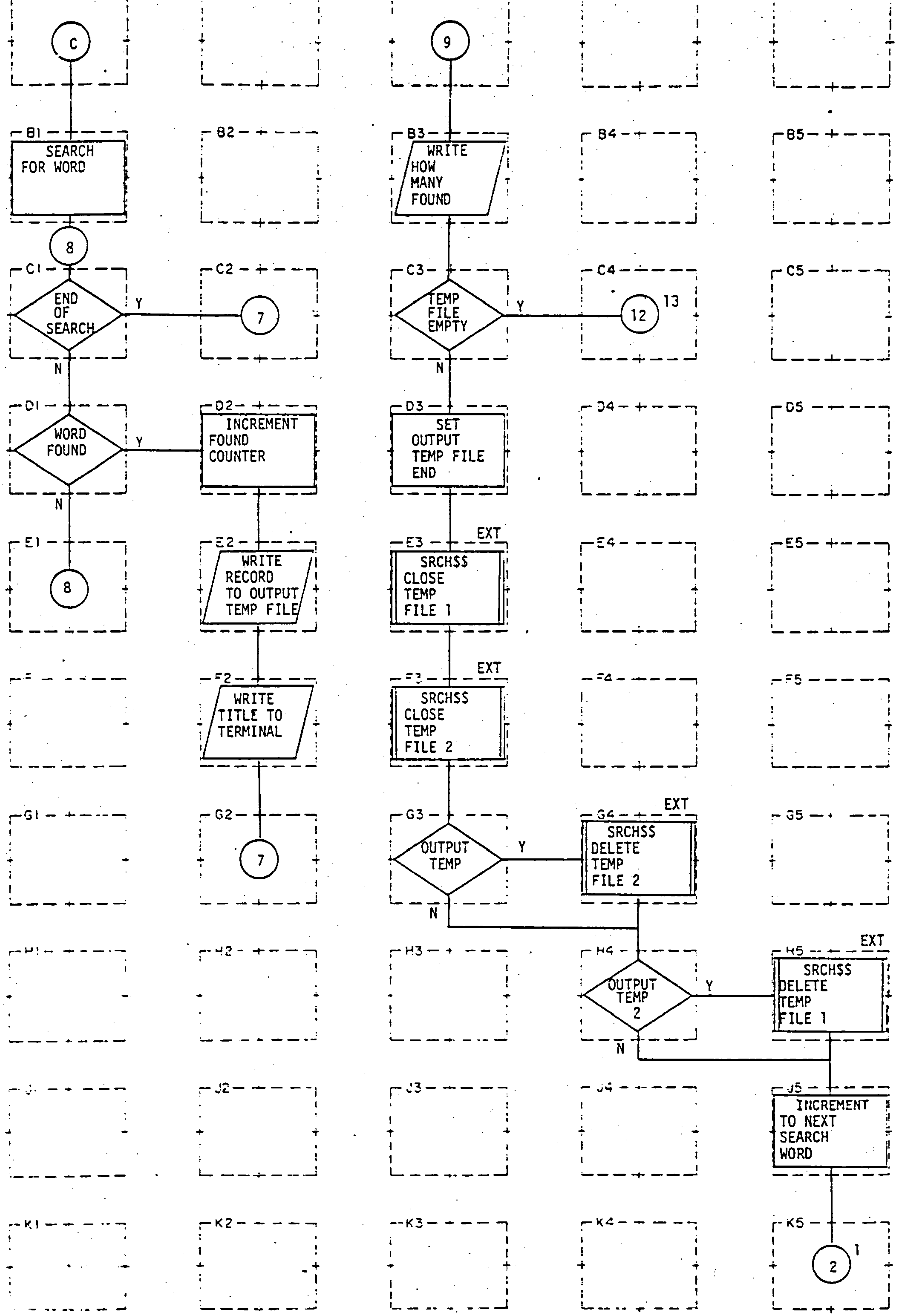


Figure 5.4.3-16

Page (7 of 14)

A1

B1 DO 3 I = 1,21

C1 Performed By B1

D1 (TIT(I).EQ.BLNK); (TIT(I).NE.IT(1)); (TIT(I+1).EQ.BLNK); (IT(2).EQ.BLNK) (TIT(I+1).EQ.IT(2))

E1

F1

G1

H1

J1

K1

A2

B2

C2

D2 DOC = DOC + 1

E2 WRITE (IO)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF; WRITE (1,10)TIT

F2

G2

H2

J2

K2

A3

B3 WRITE (1,1030)DOC,IT

C3 (DOC.EQ.0)

D3 END FILE IO

E3 SRCHSS(K$CLOS,'T1',6,0,0,0)

Figure 5.4.3-16 Page (8 of 14)

```
F3   SRCH$$(K$CLOS,'T2',6,0,0,0)
G3   (IO.EQ.13)
H3
J3
K3
A4
B4
C4
D4
E4
F4
G4   SRCH$$(K$DELE,'T2',6,0,0,0)
H4   (IO.EQ.14)
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5   SRCH$$(K$DELE,'T1',6,0,0,0)
J5   T1 = T1 + 1
K5
```

Figure 5.4.3-16 Page (9 of 14)

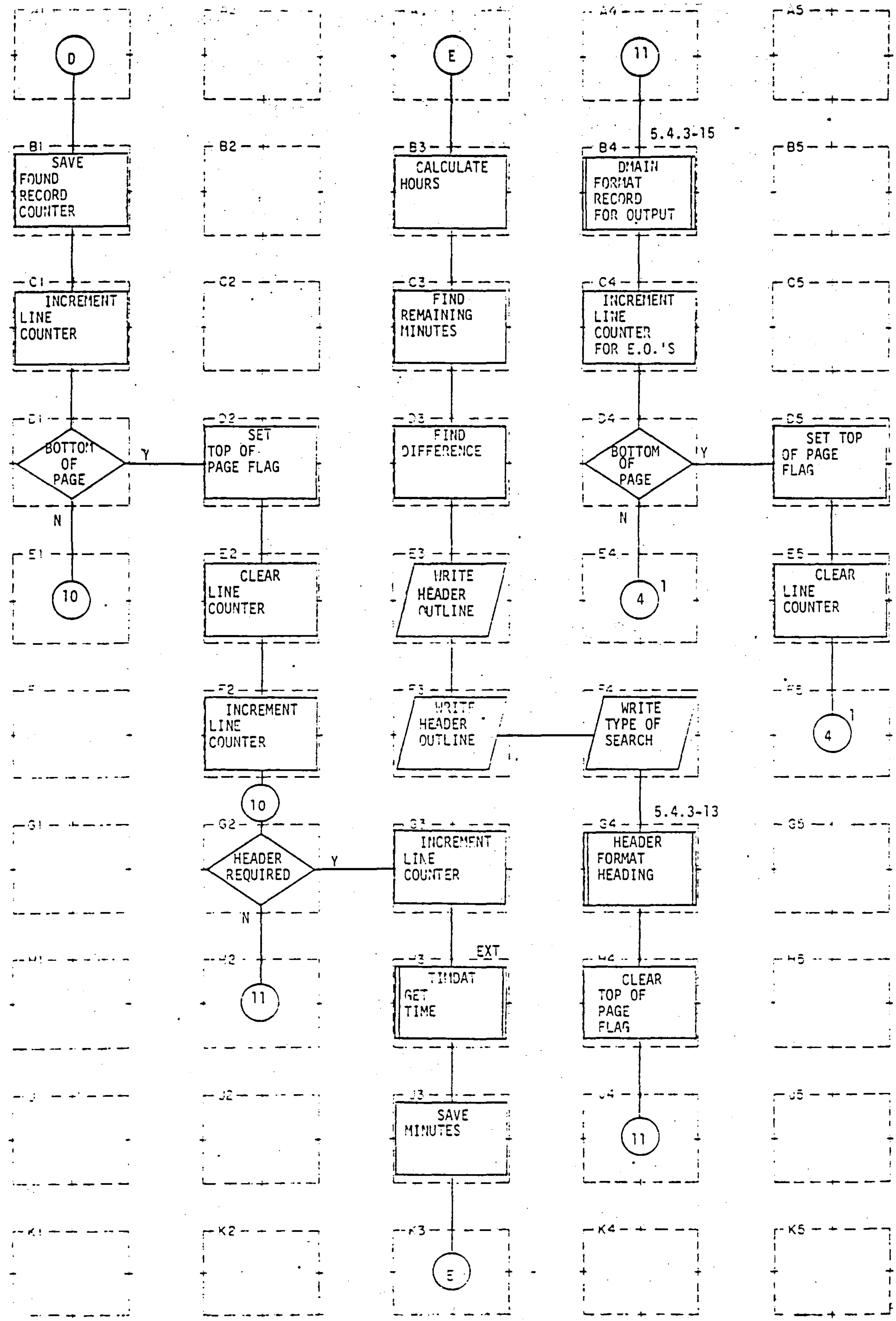


Figure 5.4.3-16

Page (10 of 14)

A1

B1 KNT = 1

C1 ILINE = ILINE + FNEO + NSHT + 3

D1 (ILINE.LE.45)

E1

F1

G1

H1

J1

K1

A2

B2

C2

D2 IPAGE = 0

E2 ILINE = 0

F2 ILINE = FNEO + NSHT + 3

G2 (IPAGE.NE.0)

H2

J2

K2

A3

B3 AH = AMIN/60.0; IH = AH

C3 IMN = IH * 60

D3 IMIN = AMIN; IDM = IMIN-IMM

E3 WRITE (7,8008) IH,IDM,(ARRAY(J),J = 1,3)

Figure 5.4.3-16 Page (11 of 14)

F3 WRITE (7,8000)

G3 ILINE = ILINE + 12

H3 TIMDAT (ARRAY,15)

J3 AMIN = ARRAY (4)

K3

A4

B4 DMAIN

C4 ILINE = ILINE + INEO

D4 (ILINE.LE.45)

E4

F4 WRITE (7,8001) ((IEX(K,L),L = 1,3),K=1,4)

G4 HEADER

H4 IPAGE = 1

J4

K4

A5

B5

C5

D5 IPAGE = 0

E5 ILINE = 0

F5

G5

H5

J5

K5

Figure 5.4.3-16

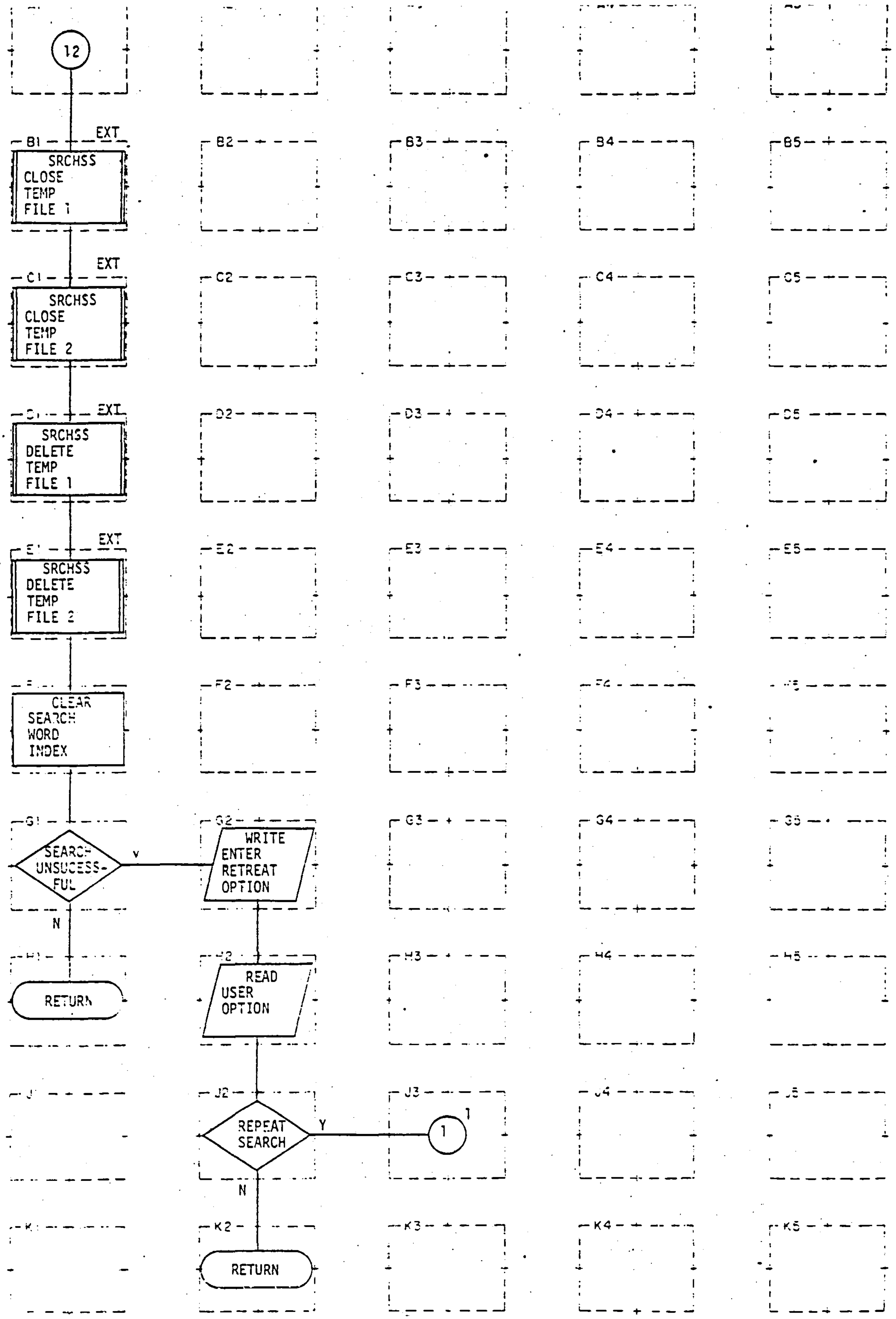


Figure 5.4.3-16

Page (13 of 14)

```
A1
B1   SRCH$$(K$CLOS,'T1',6,0,0,0)
C1   SRCH$$(K$CLOS,'T2',6,0,0,0)
D1   SRCH$$(K$DELE,'T1',6,0,0,0)
E1   SRCH$$(K$DELE,'T2',6,0,0,0)
F1   T1 = 0
G1   (DOC.NE.0)
H1
J1
K1
A2
B2
C2
D2
E2
F2
G2   WRITE (1,2000)
H2   READ (1,2001,ERR = 1999)IOPT
J2   (IOPT.EQ.'YE'); (IOPT.NE.'NO')
K2
A3
B3
C3
D3
E3
```

Figure 5.4.3-16 Page (14 of 14)

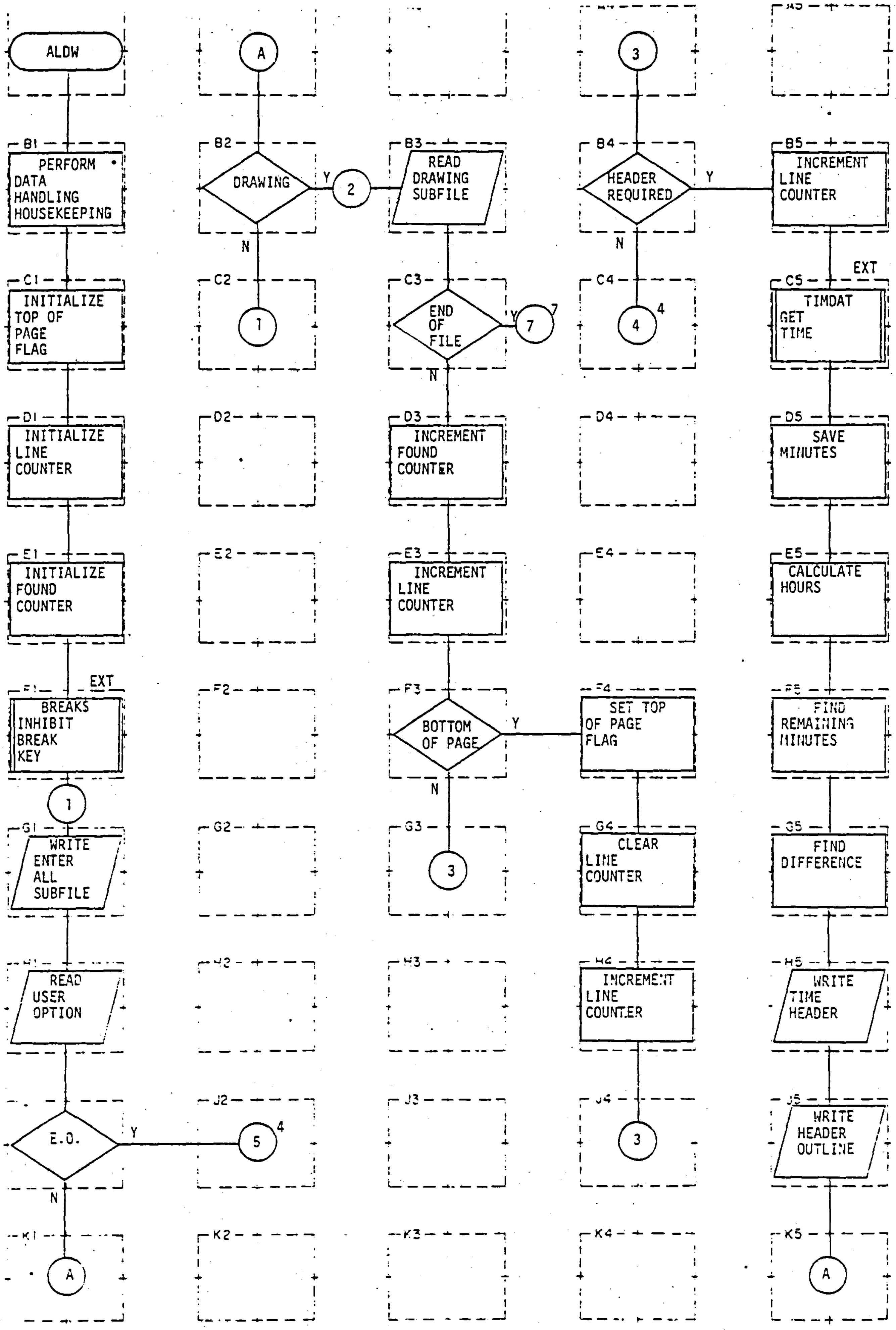


Figure 5.4.3-17

Page (1 of 9)

```
A1
B1    $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER * 2
C1    IPAGE = 0
D1    ILINE = 0
E1    KNT = 0
F1    BREAK$(.TRUE.)
G1    WRITE (1,2)
H1    READ (1,3)IOPT
J1    (IOPT.EQ.'EO')
K1
A2
B2    (IOPT.NE.'DE')
C2
D2
E2
F2
G2
H2
J2
K2
A3
B3    READ (6,END = 100) DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
C3    Performed by B3
D3    KNT = KNT + 1
E3    ILINE = ILINE + FNEO + NSHT + 3
```

Figure 5.4.3-17 Page (2 of 9)

```
F3   (ILINE.LE.45)
G3
H3
J3
K3
A4
B4   (IPAGE.NE.0)
C4
D4
E4
F4   IPAGE = 0
G4   ILINE = 0
H4   ILINE = FNEO + NSHT + 3
J4
K4
A5
B5   ILINE = ILINE + 12
C5   TIMDAT (ARRAY,15)
D5   AMIN = ARRAY (4)
E5   AH = AMIN/60.0; IH = AH
F5   IMM = IH * 60
G5   IMIN = AMIN; IDM = IMIN - IMM
H5   WRITE (7,8008)IH,IDM,(ARRAY(I),I = 1,3)
J5   WRITE (7,8000)
K5
```

Figure 5.4.3-17 Page (3 of 9)

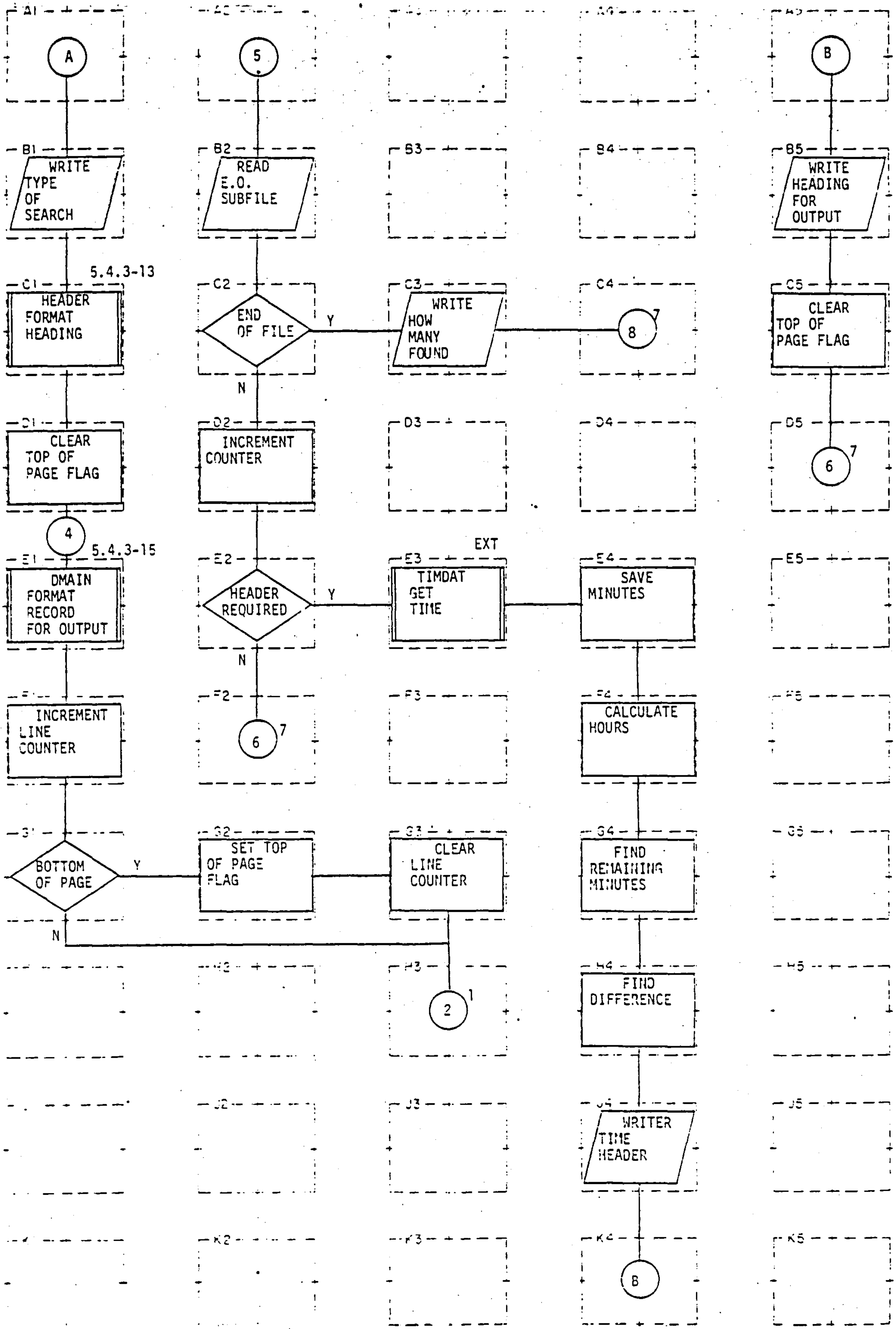


Figure 5.4.3-17

A1

B1 WRITE (7,8001)

C1 HEADER

D1 IPAGE = 1

E1 DMAIN

F1 ILINE = ILINE + INEO

G1 (ILINE.LE.45)

H1

J1

K1

A2

B2 READ (18,END = 350)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH

C2 Performed by B2

D2 KNT = KNT + 1

E2 (IPAGE.NE.0)

F2

G2 IPAGE = 0

H2

J2

K2

A3

B3

C3 WRITE (1.360)KNT

D3

E3 TIMDAT (ARRAY,15)

Figure 5.4.3-17 Page (5 of 9)

```
F3
G3   ILINE = 0
H3
J3
K3
A4
B4
C4
D4
E4   AMIN = ARRAY (4)
F4   AH = AMIN/60.0; IH = AH
G4   IMM = IH * 60
H4   IMIN = AMIN; IDM = IMIN-IMM
J4   WRITE (7,8008)IH,IDM,(ARRAY(I),I = 1,3)
K4
A5
B5   WRITE (7,300)
C5   IPAGE = 1
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.3-17 Page (6 of 9)

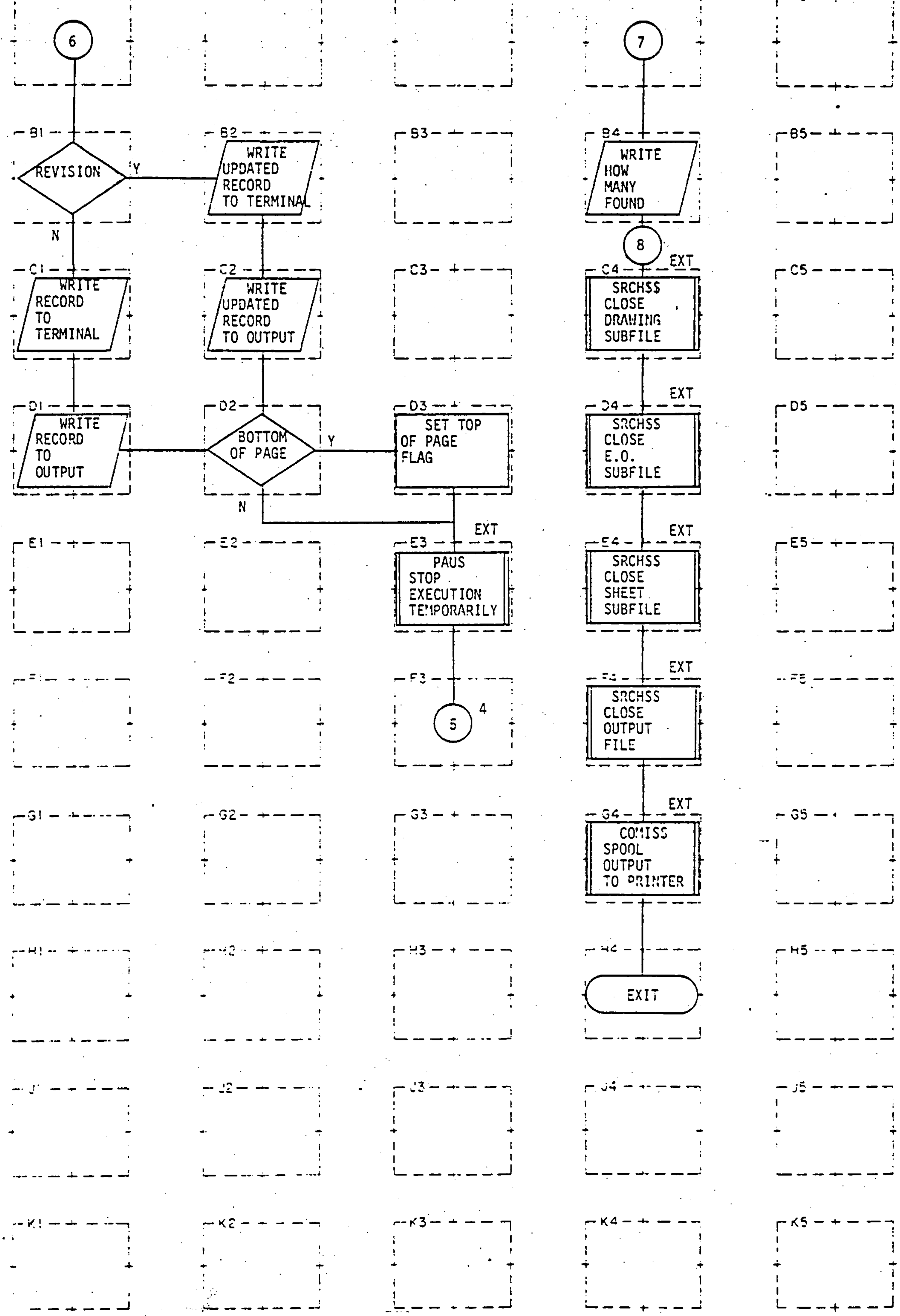


Figure 5.4.3-17

Page (7 of 9)

A1

B1 (EOREV.EQ.'NC')

C1 WRITE (1,140)KNT,EON,EOREV,EDT,((EOVEH(I,J),J = 1,2),I = 1,2)

D1 WRITE (7,230)KNT,EON,EOREV,EDT,EPTIT

E1

F1

G1

H1

J1

K1

A2

B2 WRITE (1,140)KNT,EON,EOREV,ERDT,((EOVEH(I,J),J = 1,2),I = 1,2)

C2 WRITE (7,230)KNT,EON,EOREV,ERDT,EPTIT

D2 (KNT/21.EQ.KNT/21.)

E2

F2

G2

H2

J2

K2

A3

B3

C3

D3

E3 PAUS

Figure 5.4.3-17 Page (8 of 9)

```
F3
G3
H3
J3
K3
A4
B4   WRITE (1,200)KNT
C4   SRCH$$(K$CLOS,'DRAW',6,0,0,0)
D4   SRCH$$(K$CLOS,'EO',6,0,0,0)
E4   SRCH$$(K$CLOS,'SHEET',6,0,0,0)
F4   SRCH$$(K$CLOS,'OUT',6,0,0,0)
G4   COMI$$('SOUT',4,12,IC)
H4
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.3-17 Page (9 of 9)

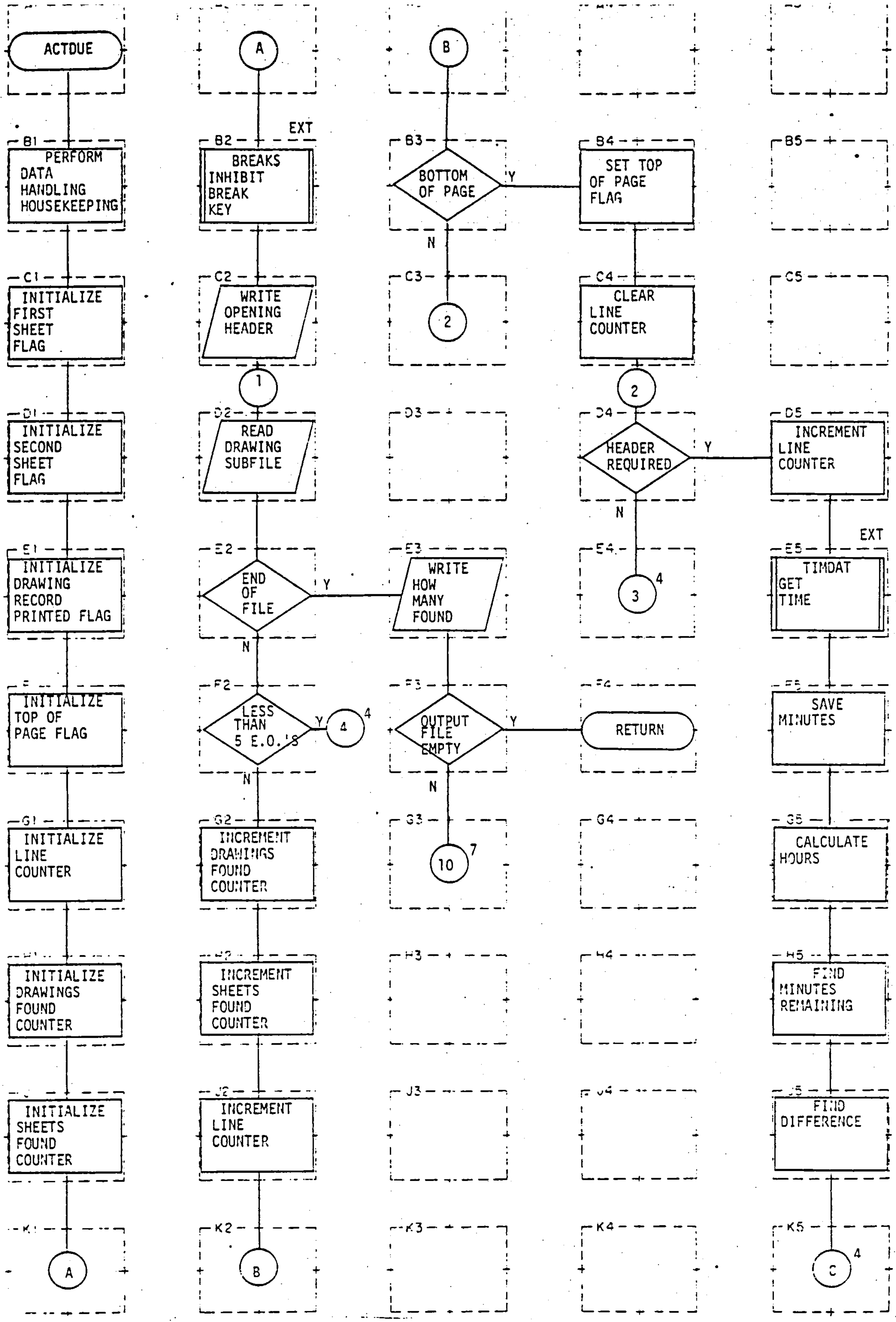


Figure 5.4.3-18

Page (1 of 9)

```
A1
B1   $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER * 4; * 2
C1   FIRST = 0
D1   SECOND = 0
E1   INEO = 0
F1   IPAGE = 0
G1   ILINE = 0
H1   KNT = 0
J1   KNTT = 0
K1
A2
B2   BREAK$(.TRUE.)
C2   WRITE (1,1)
D2   READ (6,END=100)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
E2   Performed by D2
F2   (FNEO.LT.5)
G2   KNT = KNT + 1
H2   KNTT = KNTT + 1
J2   ILINE = ILINE + FNEO + 4
K2
A3
B3   (ILINE.LE.45)
C3
D3
E3   WRITE (1,200)KNT,KNTT
```

Figure 5.4.3-18 Page (2 of 9)

F3 (KNT.EQ.0)

G3

H3

J3

K3

A4

B4 IPAGE = 0

C4 ILINE = 0

D4 (IPAGE.NE.0)

E4

F4

G4

H4

J4

K4

A5

B5

C5

D5 ILINE = ILINE + 12

E5 TIMDAT (ARRAY,15)

F5 AMIN = ARRAY (4)

G5 AH = AMIN/60.0; IH = AH

H5 IMM = IH * 60

J5 IMIN = AMIN; IDM = IMIN-IMM

K5

Figure 5.4.3-18 Page (3 of 9)

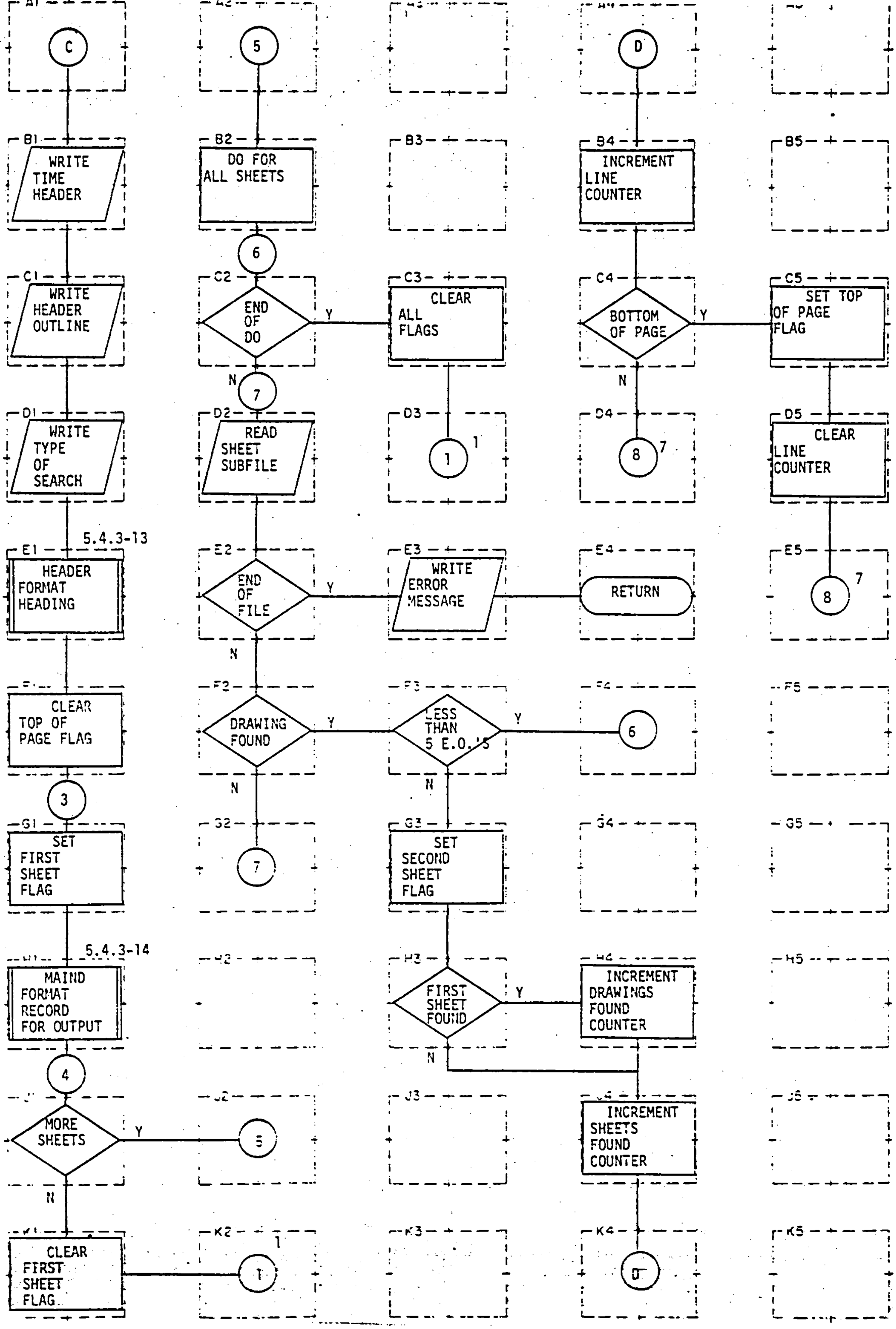


Figure 5.4.3-18

Page (4 of 9)

A1

B1 WRITE (7,8008)IH,IOM,(ARRAY(I),I = 1,3)

C1 WRITE (7,8000)

D1 WRITE (7,8001)

E1 HEADER

F1 IPAGE = 1

G1 FIRST = 1

H1 MAIND

J1 (NSHT.GT.1)

K1 FIRST = 0

A2

B2 DO 150 J = 2,NSHT

C2 Performed by B2

D2 READ (12,END = 1000)DRW,SHTN,REV,NEO,EOREF

E2 Performed by D2

F2 DO 25 K = 1,4; (DRW(K).NE.DRAW(K))

G2

H2

J2

K2

A3

B3

C3 FIRST = 0; SECOND = 0; INEO = 0

D3

E3 WRITE (1,1001)

Figure 5.4.3-18 Page (5 of 9)

F3	(NEO.LT.5)
G3	SECOND = 1
H3	(FIRST.EQ.0)
J3	
K3	
A4	
B4	ILINE = ILINE + NEO + 4
C4	(ILINE.LE.45)
D4	
E4	
F4	
G4	
H4	KNT = KNT + 1
J4	KNTT = KNTT + 1
K4	
A5	
B5	
C5	IPAGE = 0
D5	ILINE = 0
E5	
F5	
G5	
H5	
J5	
K5	

Figure 5.4.3-18 Page (6 of 9)

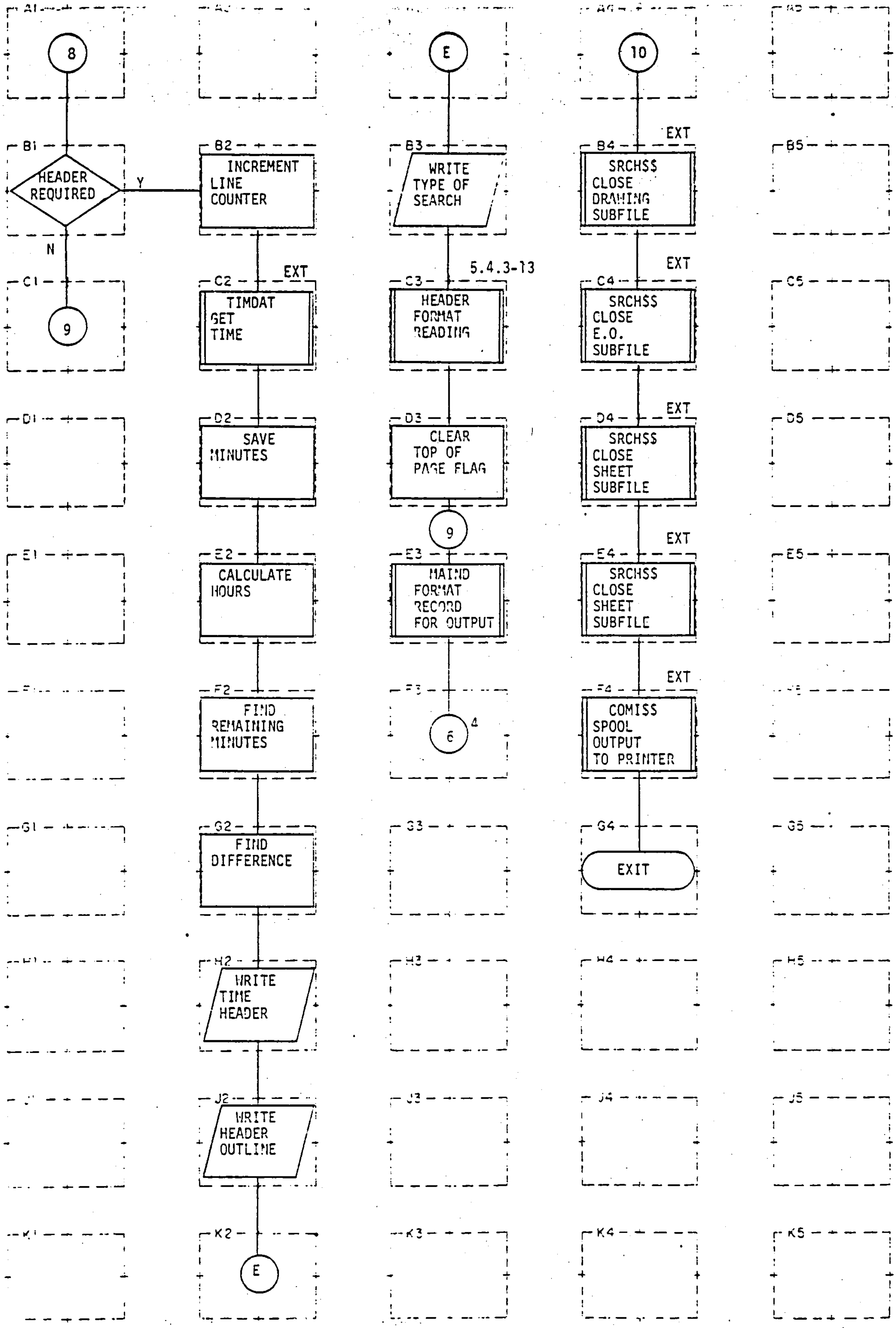


Figure 5.4.3-18

Page (7 of 9)

```
A1
B1   (IPAGE.NE.0)
C1
D1
E1
F1
G1
H1
J1
K1
A2
B2   ILINE = ILINE + 12
C2   TIMDAT(ARRAY,15)
D2   AMIN = ARRAY(4)
E2   AH = AMIN/60.0; IH = AH
F2   IMM = IH * 60
G2   IMIN = AMIN; IDM = IMIN-IMM
H2   WRITE (7,8008)IH,IDM,(ARRAY(I),I = 1,3)
J2   WRITE (7,8000)
K2
A3
B3   WRITE (7,8001)
C3   HEADER
D3   PAGE = 1
E3   MAIND
```

Figure 5.4.3-18 Page (8 of 9)

```
F3
G3
H3
J3
K3
A4
B4   SRCH$$(K$CLOS,'DRAW',6,0,0,0)
C4   SRCH$$(K$CLOS,'EO',6,0,0,0)
D4   SRCH$$(K$CLOS,'SHEET',6,0,0,0)
E4   SRCH$$(K$CLOS,'OUT',6,0,0,0)
F4   COMI$$('SOUT',4,12,IC)
G4
H4
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.3-18 Page (9 of 9)

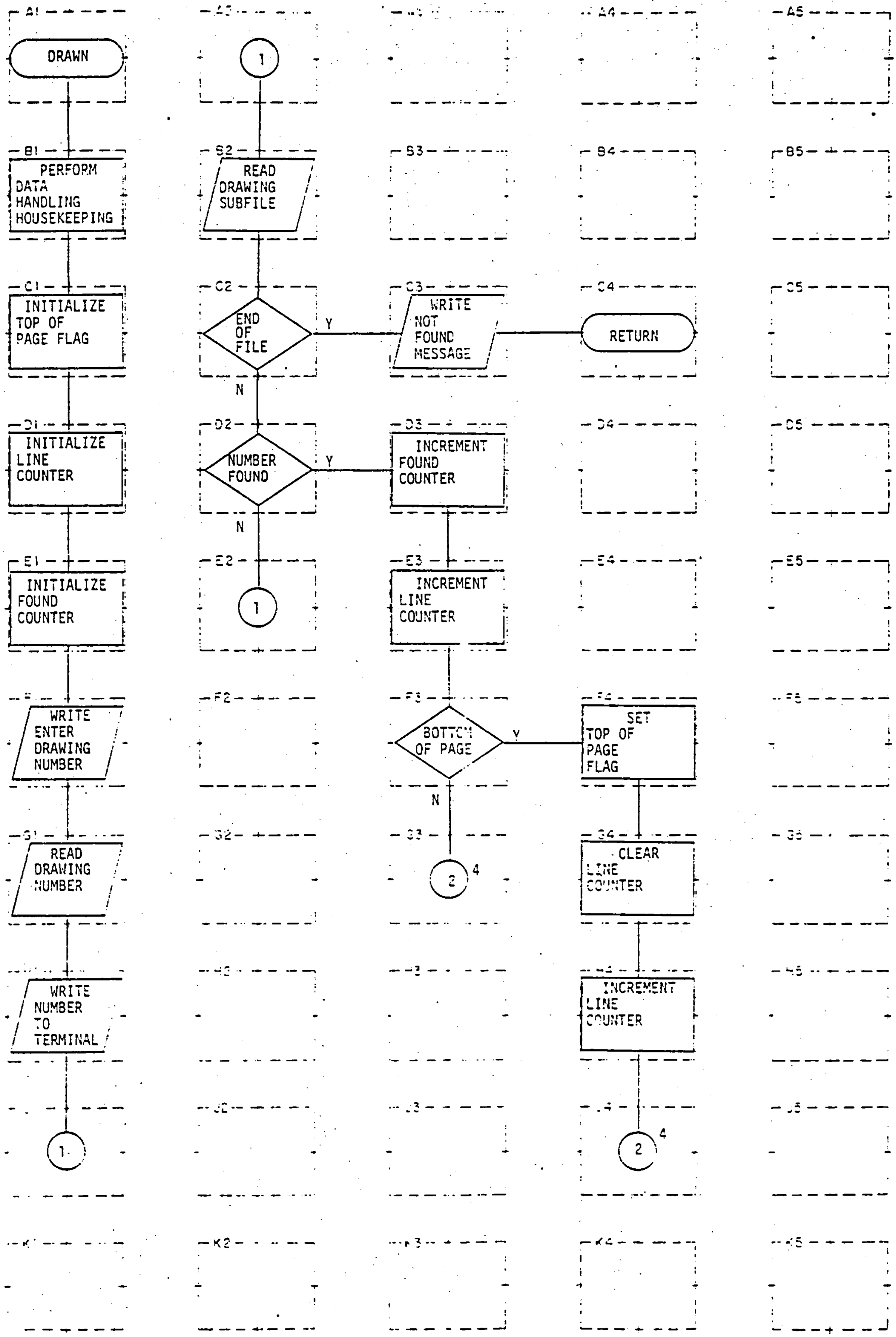


Figure 5.4.3-19

Page (1 of 6)

```
A1
B1    $INSERT COMMON; INTEGER * 4; * 2
C1    IPAGE = 0
D1    ILINE = 0
E1    KNT = 0
F1    WRITE (1,1)
G1    READ (1,2,ERR = 3)IDRAW
H1    WRITE (1,2)IDRAW
J1
K1
A2
B2    READ(6,END=200)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
C2    Performed by B2
D2    DO 1000 I = 1,4; (IDRAW(I).NE.DRAW(I))
E2
F2
G2
H2
J2
K2
A3
B3
C3    WRITE (1,250)IDRAW
D3    KNT = KNT + 1
E3    ILINE = ILINE + FNEO + NSHT + 3
```

Figure 5.4.3-19

F3 (ILINE.LE.45)

G3

H3

J3

K3

A4

B4

C4

D4

E4

F4 IPAGE = 0

G4 ILINE = 0

H4 ILINE = FNEO + NSHT + 3

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.3-19 Page (3 of 6)

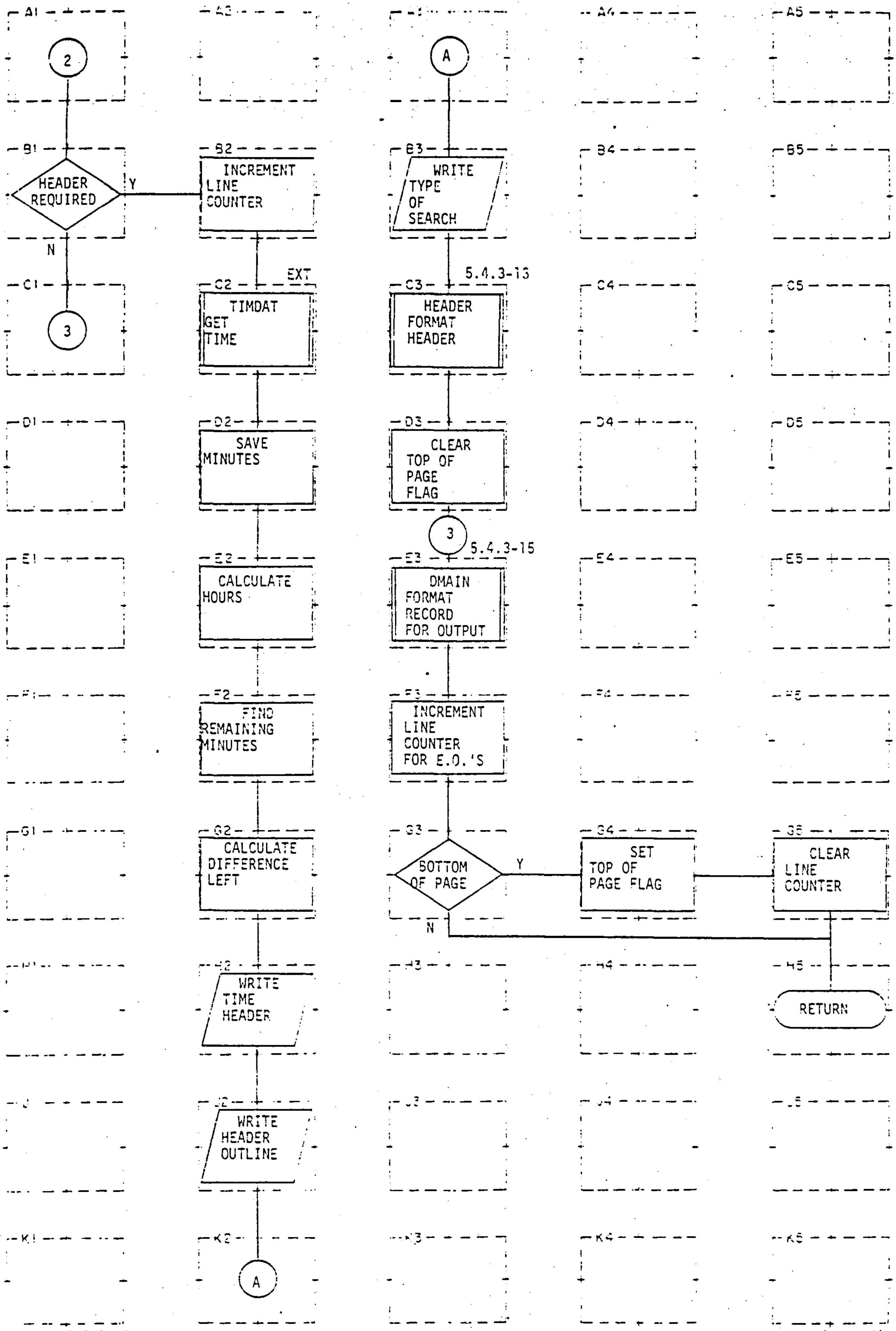


Figure 5.4.3-19

```
A1
B1   (IPAGE.NE.0)
C1
D1
E1
F1
G1
H1
J1
K1
A2
B2  ILINE = ILINE + 12
C2  TIMDAT (ARRAY, 15)
D2  AMIN + ARRAY (4)
E2  AH = AMIN/60.0; IH = AH
F2  IMM = IH * 60
G2  IMIN = AMIN; IDM = IMIN - IMM
H2  WRITE (7,8008)IH,IDM,(ARRAY(I)=1,3)
J2  WRITE (7,8000)
K2
A3
B3  WRITE (7,8001)IDRAW
C3  HEADER
D3  IPAGE = 1
E3  DMAIN
```

Figure 5.4.3-19

F3 ILINE = ILINE + INEO

G3 (ILINE.LE.45)

H3

J3

K3

A4

B4

C4

D4

E4

F4

G4 IPAGE = 0

H4 ILINE = 0

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.3-19 Page (6 of 6)

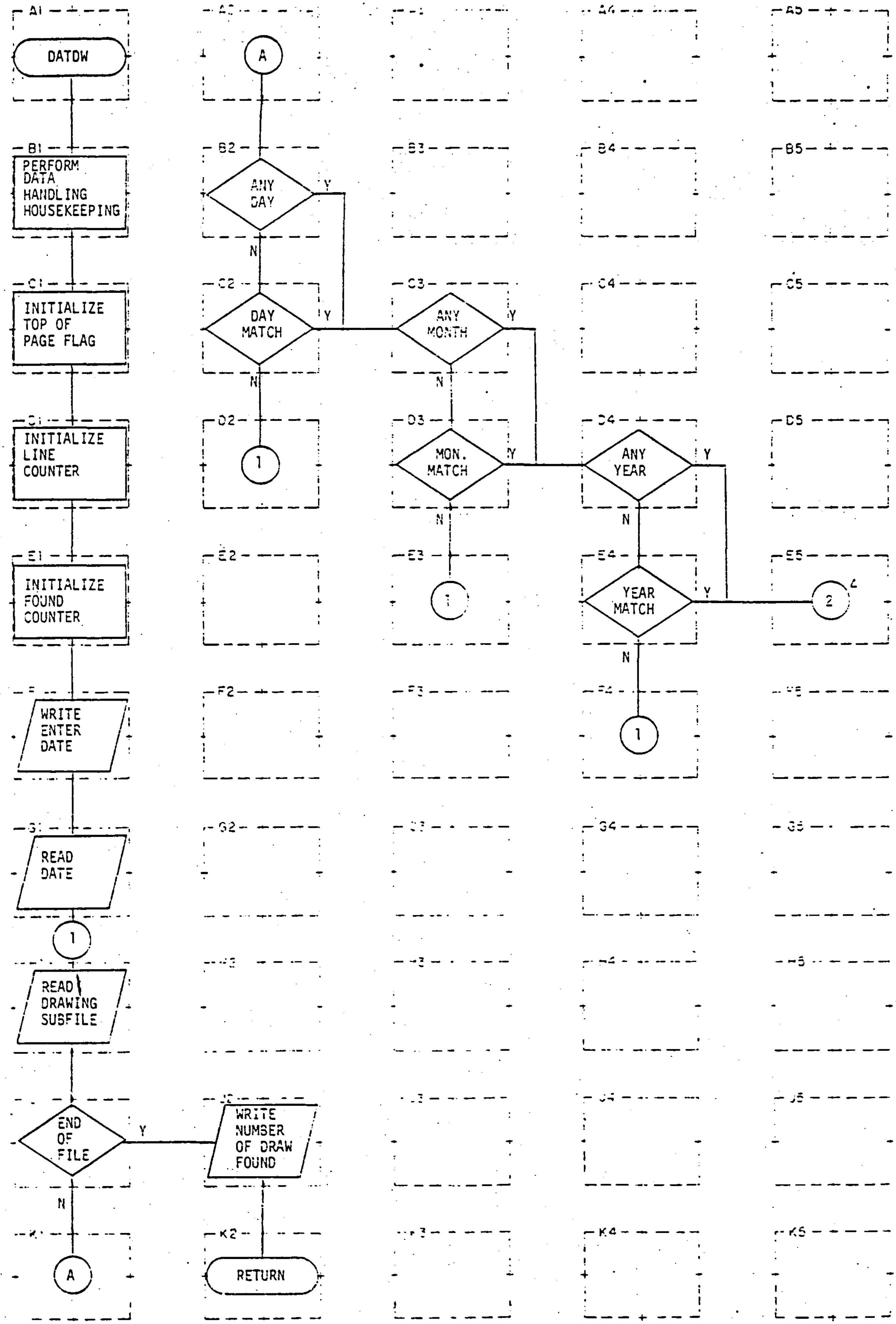


Figure 5.4.3-20

Page (1 of 6)

A1

B1 $INSERT COMMON; INTEGER*2

C1 IPAGE=0

D1 ILINE=0

E1 KNT=0

F1 WRITE(1,21)

G1 READ(1,22,ERR=2) D

H1 READ(6,END=200)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF

J1 PERFORMED BY H1

K1

A2

B2 (D(1).EQ.0)

C2 (D(1).NE.DT(1))

D2

E2

F2

G2

H2

J2 WRITE(1,250)KNT,D

K2

A3

B3

C3 (D(2).EQ.0)

D3 (D(2).NE.DT(2))

E3

Figure 5.4.3-20

F3

G3

H3

J3

K3

A4

B4

C4

D4 (D(3).EQ.0)

E4 (D(3).NE.DT(3))

F4

G4

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.3-20 Page (3 of 6)

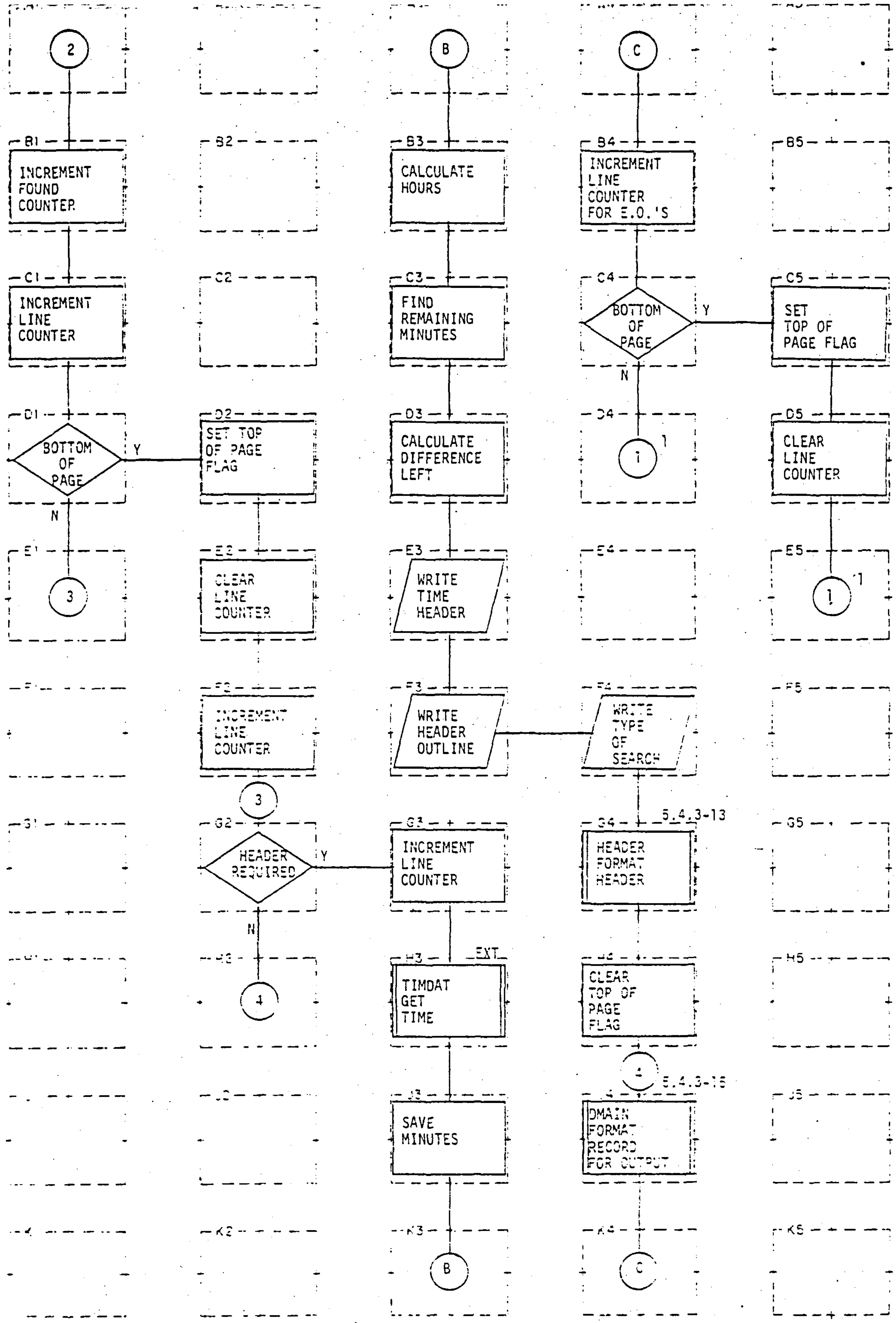


Figure 5.4.3-20

Page (4 of 6)

```
A1
B1    KNT=KNT+1
C1    ILINE=ILINE+FNEO+NSHT+3
D1
E1
F1
G1
H1
J1
K1
A2
B2
C2
D2    IPAGE=0
E2    ILINE=0
F2    ILINE=FNEO+NSHT+3
G2    (IPAGE.NE.0)
H2
J2
K2
A3
B3    AH=AMIN/60.0; IH=AH
C3    IMM=IH*60
D3    IMIN=AMIN; IDM=IMIN-IMM
E3    WRITE(7,8008)IH,IDM,(ARRAY(I),I=1,3)
```

Figure 5.4.3-20 Page (5 of 6)

F3	WRITE(7,8000)
G3	ILINE=ILINE+12
H3	TIMDAT(ARRAY,15)
J3	AMIN=ARRAY(4)
K3	
A4	
B4	ILINE=ILINE+INEO
C4	(ILINE.NE.45)
D4	
E4	
F4	WRITE(7,8001)D
G4	HEADER
H4	IPAGE=1
J4	DMAIN
K4	
A5	
B5	
C5	IPAGE=0
D5	ILINE=0
E5	
F5	
G5	
H5	
J5	
K5	

Figure 5.4.3-20 Page (6 of 6)

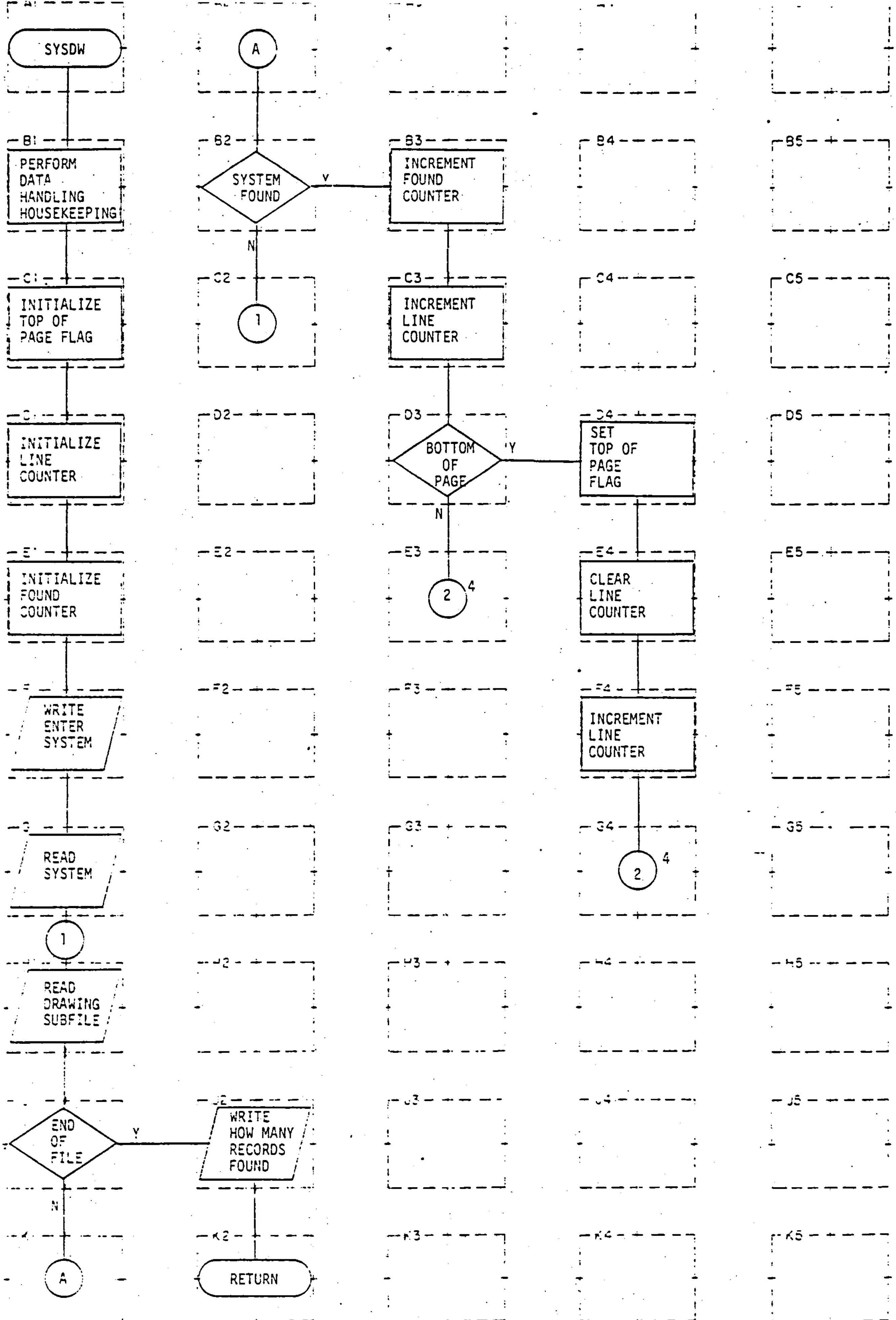


Figure 5.4.3-21

Page (1 of 6)

```
A1    $INSERT COMMON; INTEGER*4; *2
B1    IPAGE=0
C1    ILINE=0
D1    KNT=0
E1    WRITE(1,1)
F1    READ(1,2,ERR=3)DS
G1    READ(6,END=200)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
H1    PERFORMED BY H1
J1
K1
A2
B2    DO 150 I=1,3; (DS.EQ.SYS(I))
C2
D2
E2
F2
G2
H2
J2    WRITE(1,250)KNT,DS
K2
A3
B3    KNT=KNT+1
C3    ILINE=ILINE+FNEO+NSHT+3
D3    (ILINE.LE.45)
E3
```

Figure 5.4.3-21 Page (2 of 6)

F3

G3

H3

J3

K3

A4

B4

C4

D4 IPAGE=0

E4 ILINE=0

F4 ILINE=FNEO+NSHT+3

G4

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.3-21 Page (3 of 6)

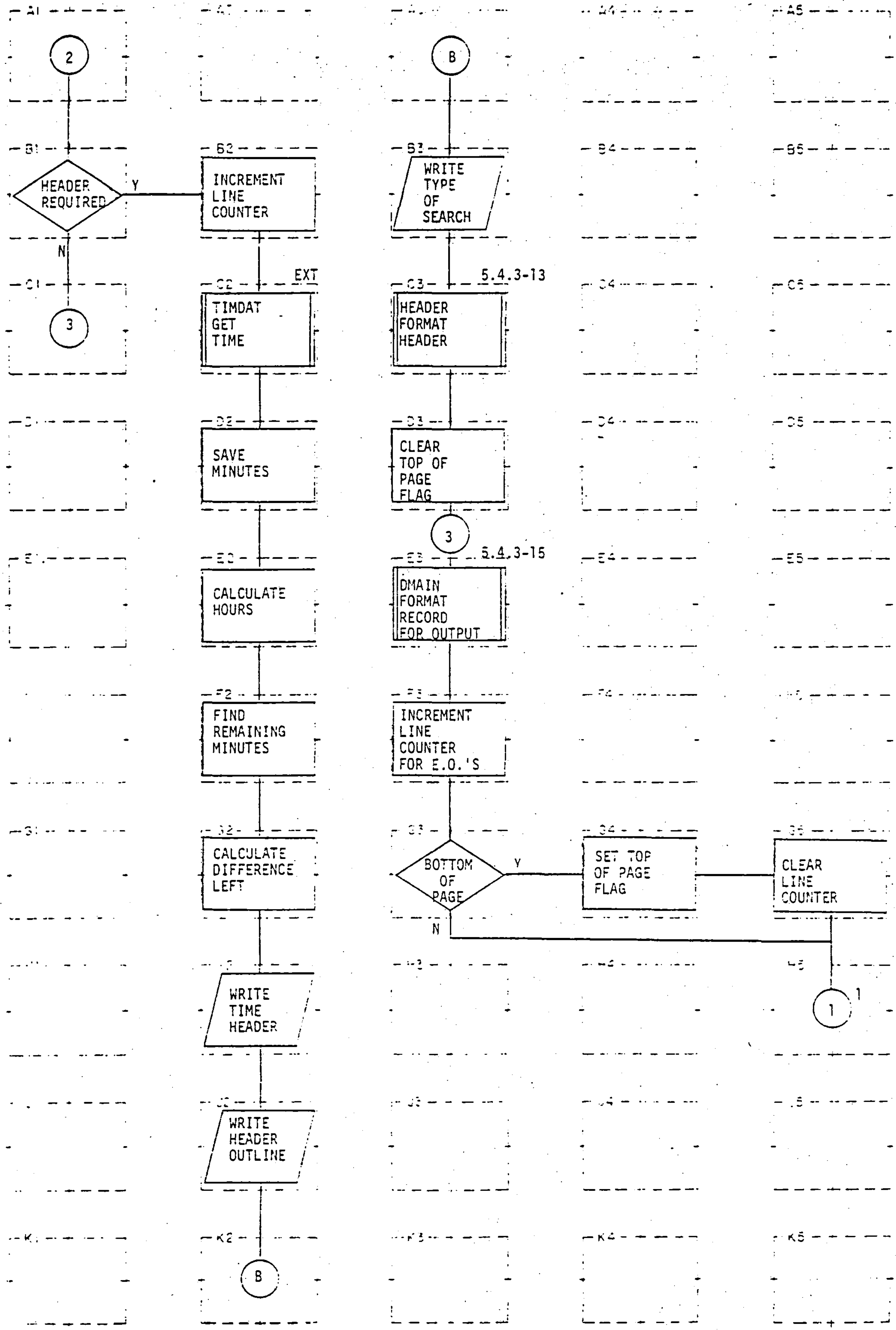


Figure 5.4.3-21

Page (4 of 6)

```
A1
B1    (IPAGE.NE.0)
C1
D1
E1
F1
G1
H1
J1
K1
A2
B2    ILINE=ILINE+12
C2    TIMDAT(ARRAY,15)
D2    AMIN=ARRAY(4)
E2    AH=AMIN/60.0; IH=AH
F2    IMM=IH*60
G2    IMIN=AMIN; IDM=IMIN-IMM
H2    WRITE(7,8008)IH,IDM,(ARRAY(I),I=1,3)
J2    WRITE(7,8000)
K2
A3
B3    WRITE(7,8001)DS
C3    HEADER
D3    IPAGE=1
E3    DMAIN
```

Figure 5.4.3-21 Page (5 of 6)

F3 ILINE=ILINE+INEO

G3 (ILINE.LE.45)

H3

J3

K3

A4

B4

C4

D4

E4

F4

G4 IPAGE=0

H4 ILINE=0

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.3-21 Page (6 of 6)

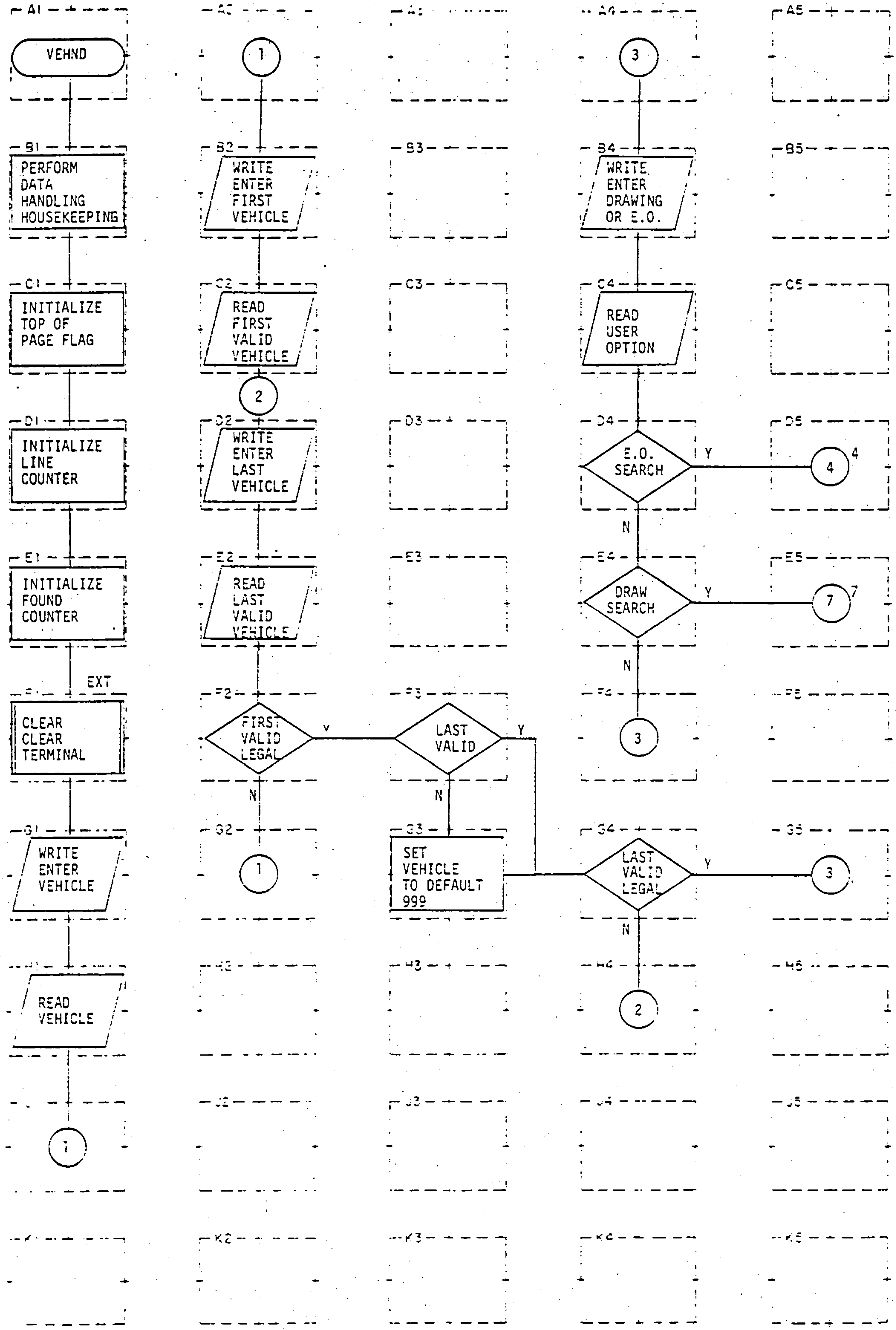


Figure 5.4.3-22

Page (1 of 12)

```
A1
B1     $INSERT COMMON; INTEGER*2
C1     IPAGE=0
D1     ILINE=0
E1     KNT=0
F1     CLEAR
G1     WRITE(1,2)
H1     READ(1,3,ERR=1)VEH1
J1
K1
A2
B2     WRITE(1,100)
C2     READ(1,101,ERR=999)(VS(I),I=1,2)
D2     WRITE(1,102)
E2     READ(1,101,ERR=998)(VS(I),I=3,4)
F2     (VEH1(1).LT.VS(1))
G2
H2
J2
K2
A3
B3
C3
D3
E3
```

Figure 5.4.3-22

F3 (VS(3).EQ.0)

G3 VS(3)=999

H3

J3

K3

A4

B4 WRITE(1,11)

C4 READ(1,12)IOPT

D4 (IOPT.EQ.'EO')

E4 (IOPT.NE.'DR')

F4

G4 (VS(3).LT.VEH1(1))

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.3-22 Page (3 of 12)

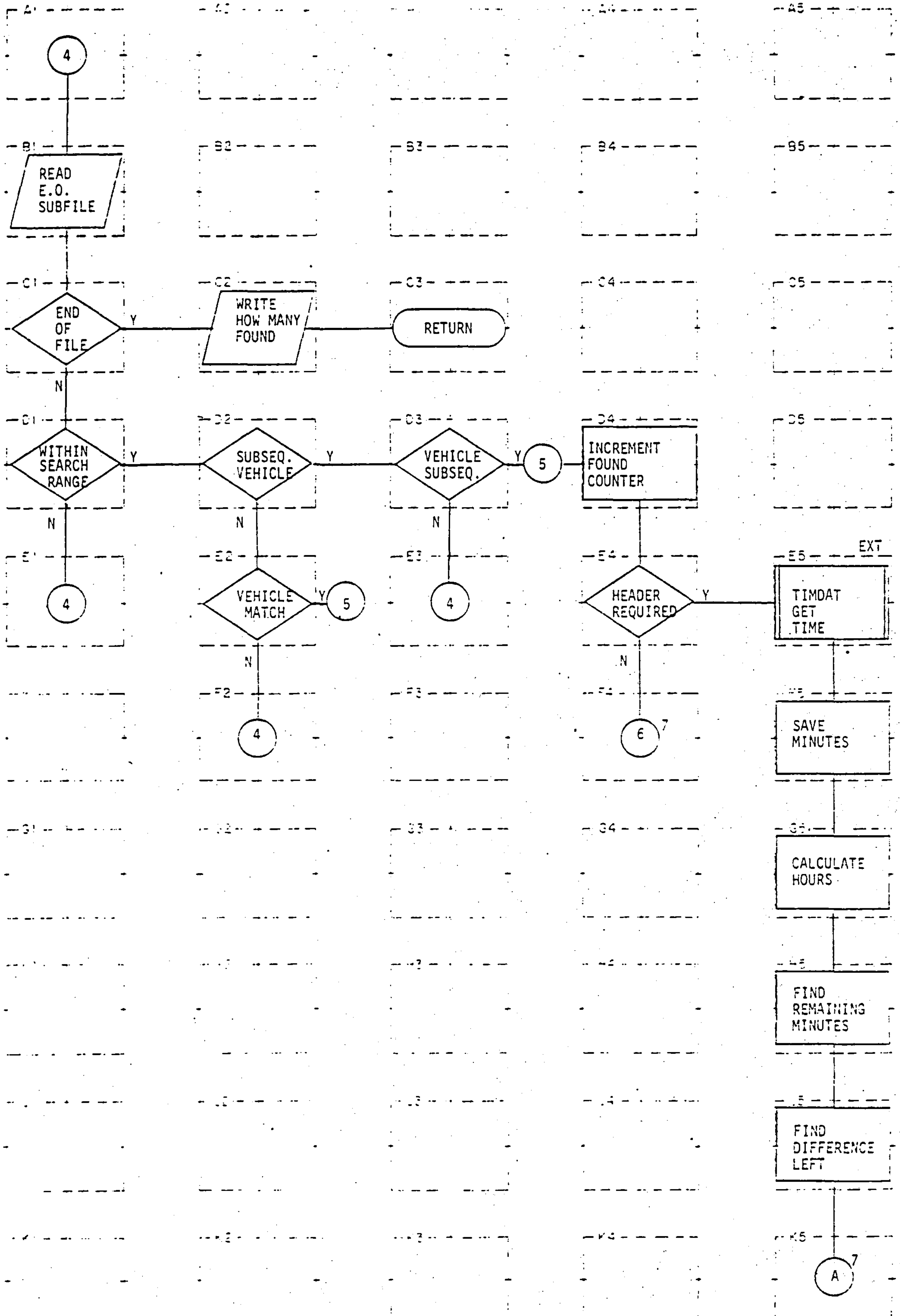


Figure 5.4.3-22

Page (4 of 12)

A1

B1 READ(18,END=400)EON,ETIT,EPTIT,EOREV,EDT,ERDT,EVOEH

C1 PERFORMED BY B1

D1 (EOVEH(1,1).LT.VS(1)); (EOVEH(2,1).GT.VS(3))

E1

F1

G1

H1

J1

K1

A2

B2

C2 WRITE(1,402)KNT,VEH1

D2 (EOVEH(1,2).NE.'S'.AND.EOVEH(1,1).EQ.VEH1(1))

E2

F2

G2

H2

J2

K2

A3

B3

C3

D3 (EOVEH(1,2).EQ.'S'.AND.EOVEH(1,1).LE.VEH1(1))

E3

Figure 5.4.3-22 Page (5 of 12)

F3

G3

H3

J3

K3

A4

B4

C4

D4 KNT=KNT+1

E4 (IPAGE.NE.0)

F4

G4

H4

J4

K4

A5

B5

C5

D5

E5 TIMDAT(ARRAY,15)

F5 AMIN=ARRAY(5)

G5 AH=AMIN/60.0; IH=AH

H5 IMM=IH*60

J5 IMIN=AMIN; IDM=IMIN-IMM

K5

Figure 5.4.3-22 Page (6 of 12)

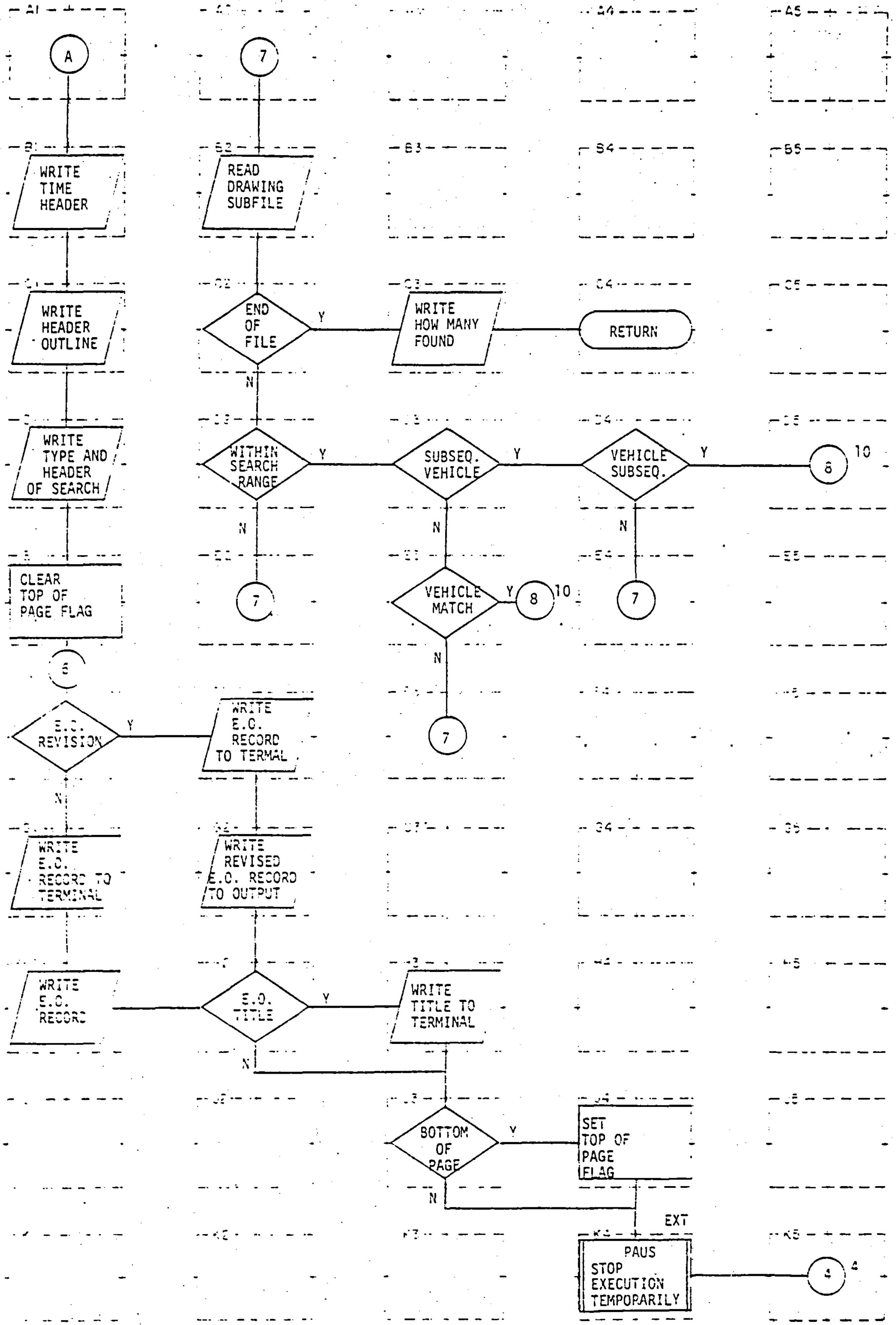


Figure 5.4.3-22

Page (7 of 12)

```
A1
B1    WRITE(7,8008)IH,IDM,(ARRAY(I),I=1,3)
C1    WRITE(7,8000)
D1    WRITE(7,349)VEH1; WRITE(7,351)
E1    IPAGE=1
F1    (EOREV.EQ.'NC')
G1    WRITE(1,310)KNT,EON,EOREV,EDT
H1    WRITE(7,320)KNT,EON,EOREV,EDT,EPTIT
J1
K1
A2
B2    READ(6,END=202)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
C2    PERFORMED BY B2
D2    (VEH(1,1).LT.VS(1)); (VEH(2,1).GT.VS(3))
E2
F2    WRITE(1,310)KNT,EON,EOREV,ERDT
G2    WRITE(7,320)KNT,EON,EOREV,ERDT,EPTIT
H2    (EPTIT(1).NE.' ')
J2
K2
A3
B3
C3    WRITE(1,201)KNT,VEH1
D3    (VEH(1,2).NE.'S'.AND.VEH(1,1).EQ.VEH1(1))
E3    PERFORMED BY D3
```

Figure 5.4.3-22 Page (8 of 12)

F3

G3

H3 WRITE(1,311)EPTIT

J3 (KNT/21.EQ.KNT/21.)

K3

A4

B4

C4

D4 (VEH(1,2).EQ.'S'.AND.VEH(1,1).LE.VEH1(1))

E4

F4

G4

H4

J4 IPAGE=0

K4 PAUS

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.3-22 Page (9 of 12)

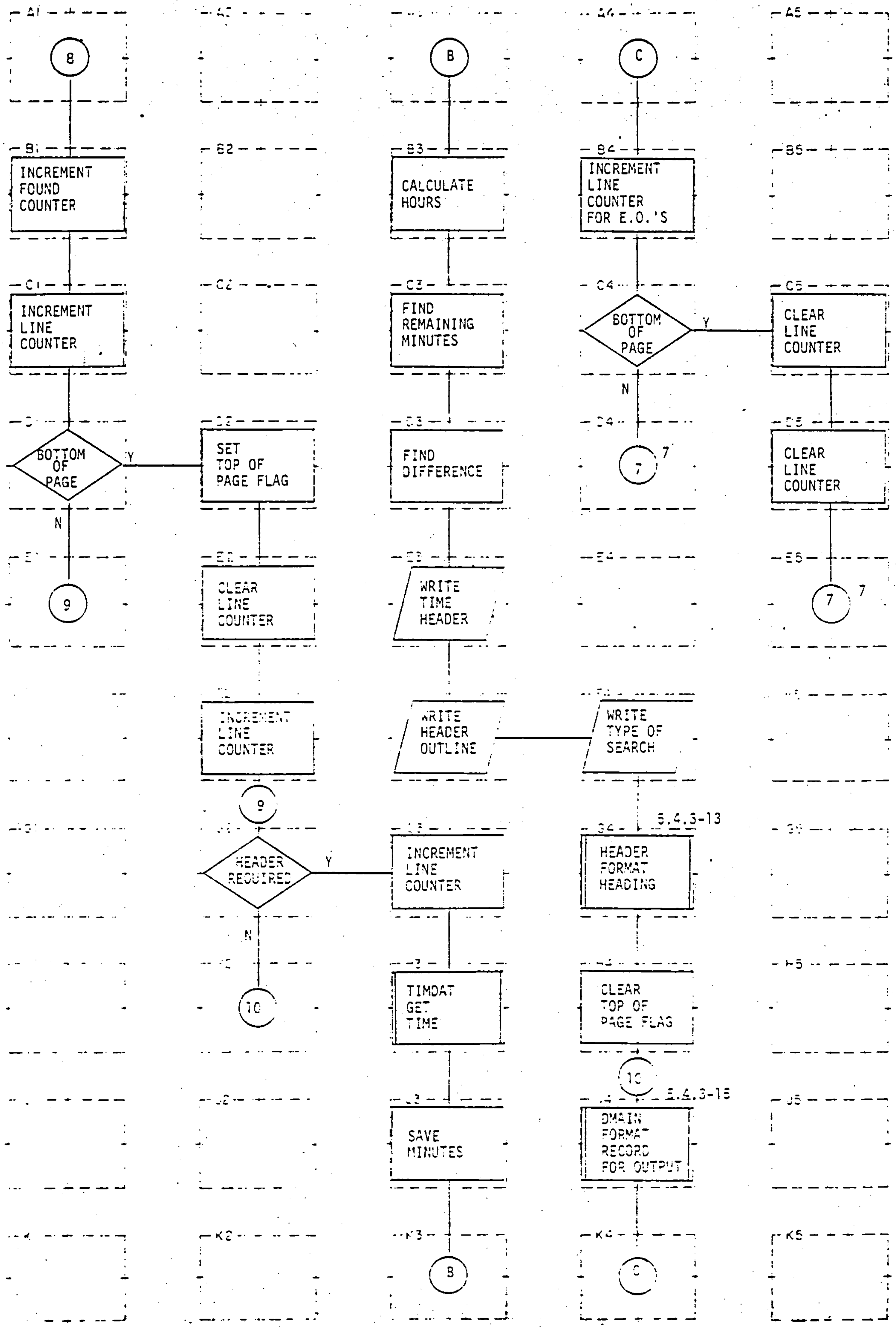


Figure 5.4.3-22

Page (10 of 12)

```
A1
B1    KNT=KNT+1
C1    ILINE=ILINE+FNEO+NSHT+3
D1    (ILINE.LE.45)
E1
F1
G1
H1
J1
K1
A2
B2
C2
D2    IPAGE=0
E2    ILINE=0
F2    ILINE=FENO+NSHT+3
G2    (IPAGE.NE.0)
H2
J2
K2
A3
B3    AH=AMIN/60.0;IH=AH
C3    IMM=IH*60
D3    IMIN=AMIN; IDM=IMIN-IMM
E3    WRITE(7,8008)IH,IDM,(ARRAY(I),I=1,3)
```

Figure 5.4.3-22 Page (11 of 12)

F3 WRITE(7,8000)

G3 ILINE=ILINE+12

H3 TIMDAT(ARRAY,15)

J3 AMIN=ARRAY(4)

K3

A4

B4 ILINE=ILINE+INEO

C4 (ILINE.LE.45)

D4

E4

F4 WRITE(7,8001)VEH1

G4 HEADER

H4 IPAGE=1

J4 DMAIN

K4

A5

B5

C5 IPAGE=0

D5 ILINE=0

E5

F5

G5

H5

J5

K5

Figure 5.4.3-22 Page (12 of 12)

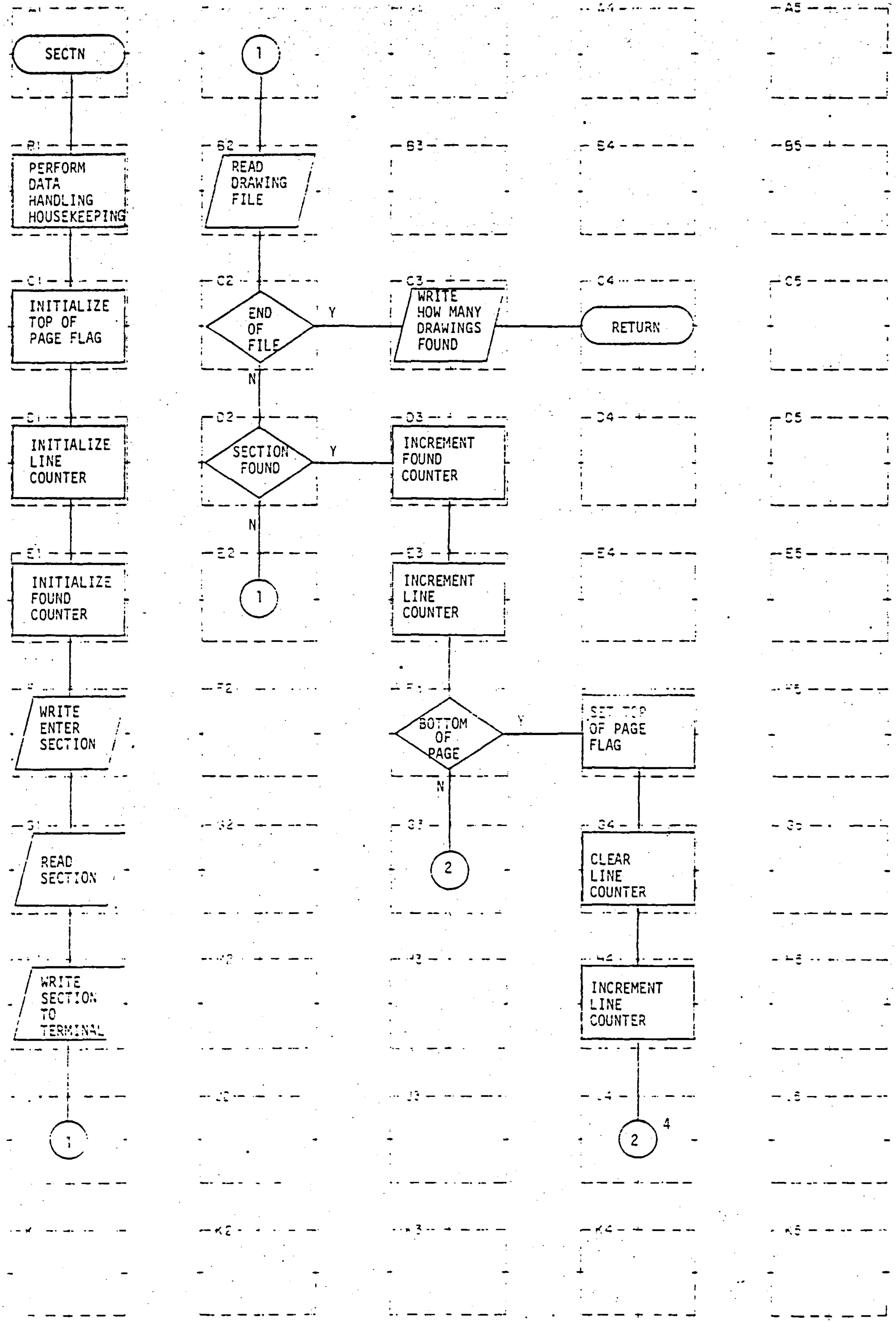


Figure 5.4.3-23

```
A1
B1    $INSERT COMMON; INTEGER*4; *2
C1    IPAGE=0
D1    ILINE=0
E1    KNT=0
F1    WRITE(1,1)
G1    READ(1,2,ERR=3)ISECT
H1    WRITE(1,2)ISECT
J1
K1
A2
B2    READ(6,END=200)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
C2    PERFORMED BY B2
D2    DO 1000 I=1,3; (ISECT(I).NE.SECT(I))
E2
F2
G2
H2
J2
K2
A3
B3
C3    WRITE(1,250)KNT,ISECT
D3    KNT=KNT+1
E3    ILINE=ILINE+FNEO+NSHT+3
```

Figure 5.4.3-23 Page (2 of 6)

F3 (ILINE.LE.45)

G3

H3

J3

K3

A4

B4

C4

D4

E4

F4 IPAGE=0

G4 ILINE=0

H4 ILINE=FNEO+NSHT+3

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.3-23 Page (3 of 6)

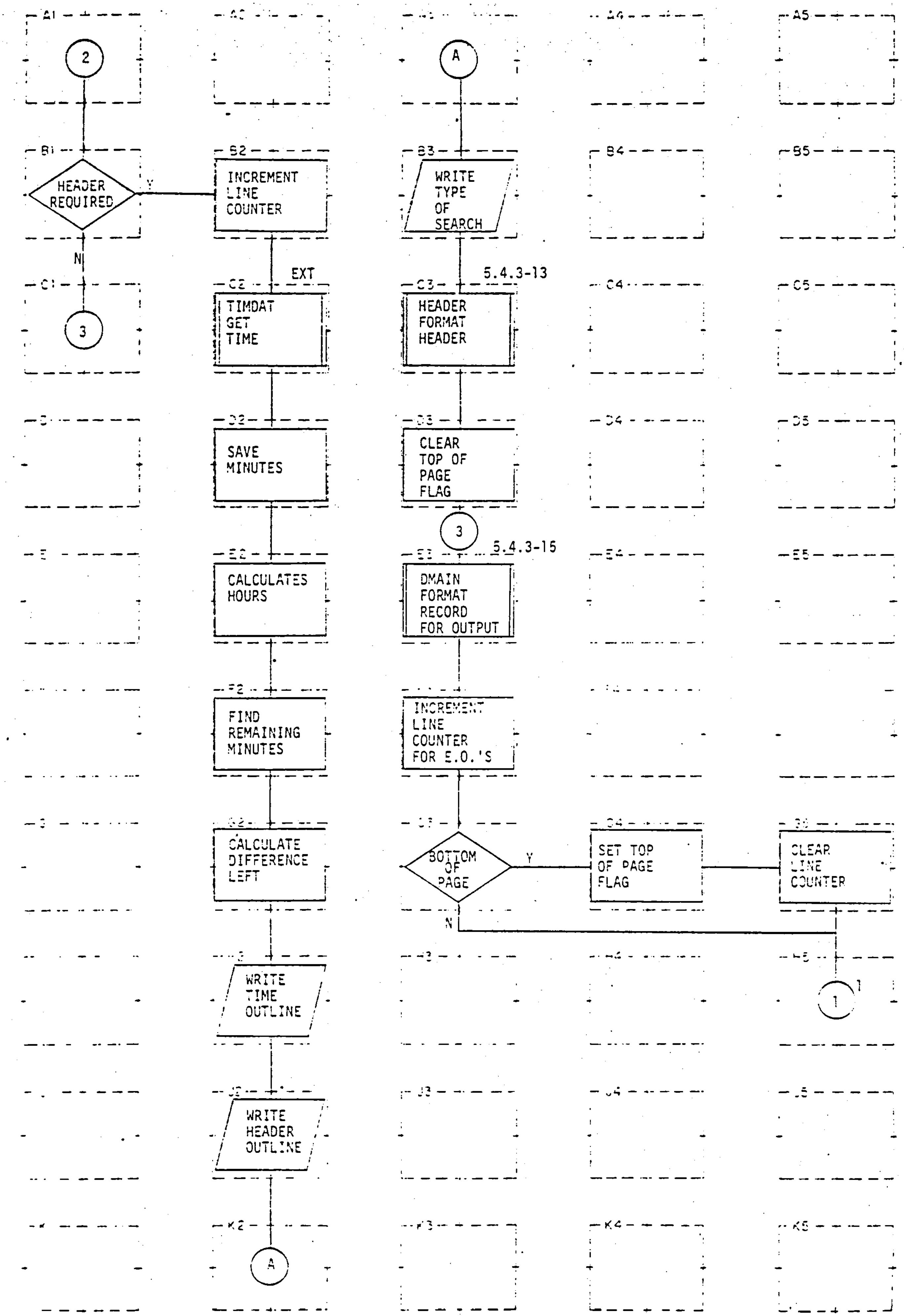


Figure 5.4.3-23

Page (4 of 6)

```
A1
B1   (IPAGE.NE.0)
C1
D1
E1
F1
G1
H1
J1
K1
A2
B2   ILINE = ILINE + 12
C2   TIMDAT (ARRAY, 15)
D2   AMIN = ARRAY (4)
E2   AH = AMIN/60.0; IH = AH
F2   IMM = IH * 60
G2   IMIN = AMIN; IDM = IMIN - IMM
H2   WRITE (7,8008) IH, IDM, (ARRAY(I), I = 1,3)
J2   WRITE (7,8000)
K2
A3
B3   WRITE (7,8001) ISECT
C3   HEADER
D3   IPAGE = 1
E3   DMAIN
```

Figure 5.4.3-23 Page (5 of 6)

F3 ILINE = ILINE + INEO

G3 (ILINE.LE.45)

H3

J3

K3

A4

B4

C4

D4

E4

F4

G4 IPAGE = 0

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5 ILINE = 0

H5

J5

K5

Figure 5.4.3-23 Page (6 of 6)

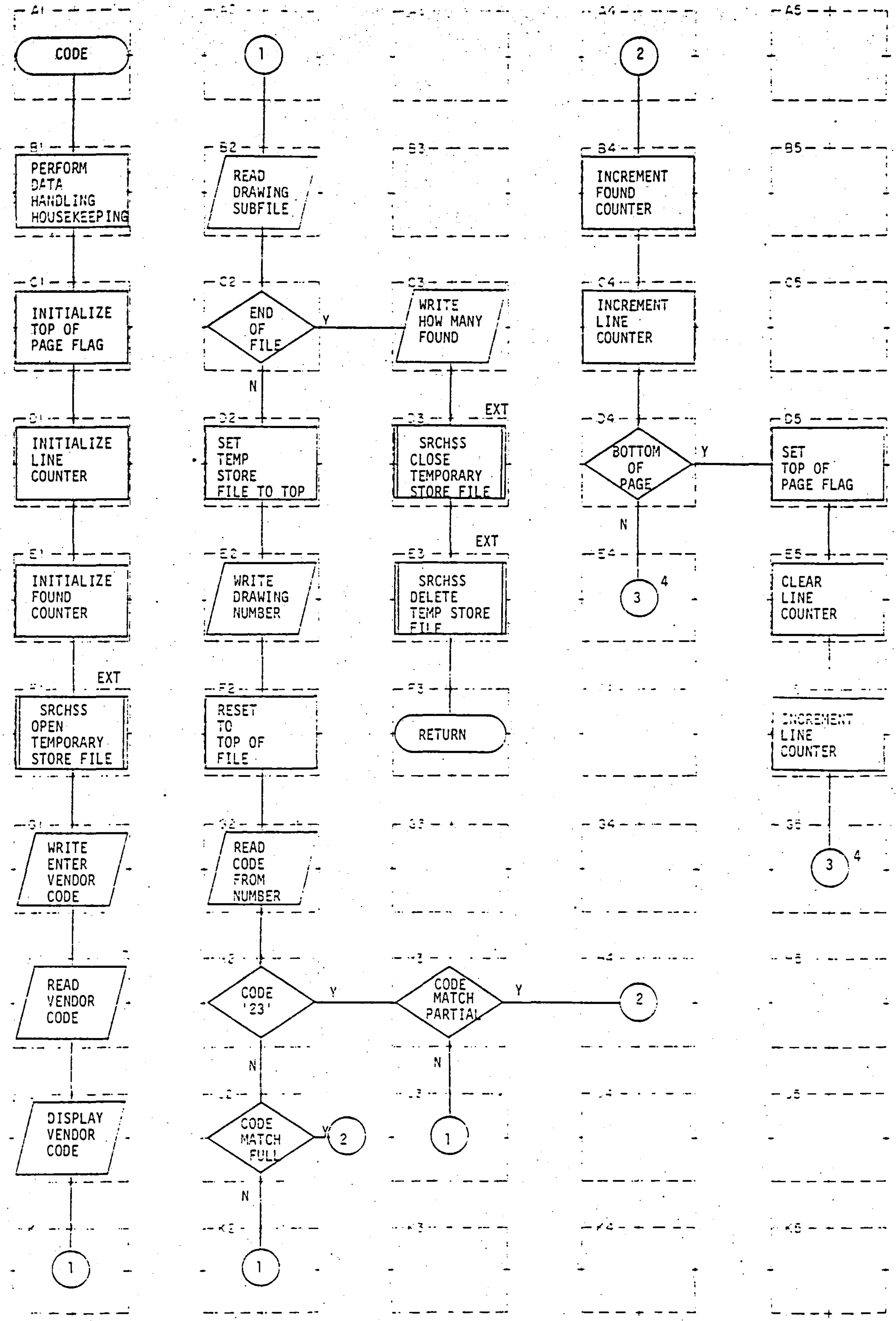


Figure 5.4.3-24

A1

B1 $INSERT COMMON; $INSERT SYSCOM>KEYS.F; INTEGER *.2

C1 IPAGE = 0

D1 ILINE = 0

E1 KNT = 0

F1 SRCH$$(K$RDWR + K$NDAM,'T3',6,6,1,IC)

G1 WRITE (1,1)

H1 READ (1,2,ERR = 3)ICODE

J1 WRITE (1,2)ICODE

K1

A2

B2 READ (6,END=200)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF

C2 Performed by B2

D2 REWIND 10

E2 WRITE (10,5) DRAW (1)

F2 REWIND 10

G2 READ (10,2) COD

H2 (ICODE(1).EQ.'23')

J2 DO 20 I = 1,2; (ICODE(I).NE.COD(I))

K2

A3

B3

C3 WRITE (1,250) KNT

D3 SRCH$$(K$CLOS,'T3',6,0,0,0)

E3 SRCH$$(K$DELE,'T3',6,0,0,0)

Figure 5.4.3-24 Page (2 of 6)

F3

G3

H3 (ICODE(1).NE.COD(1))

J3

K3

A4

B4 KNT = KNT + 1

C4 ILINE = ILINE + FNEO + NSHT + 3

D4 (ILINE.LE.45)

E4

F4

G4

H4

J4

K4

A5

B5

C5

D5 IPAGE = 0

E5 ILINE = 0

F5 ILINE = ILINE + NSHT + 3

G5

H5

J5

K5

Figure 5.4.3-24 Page (3 of 6)

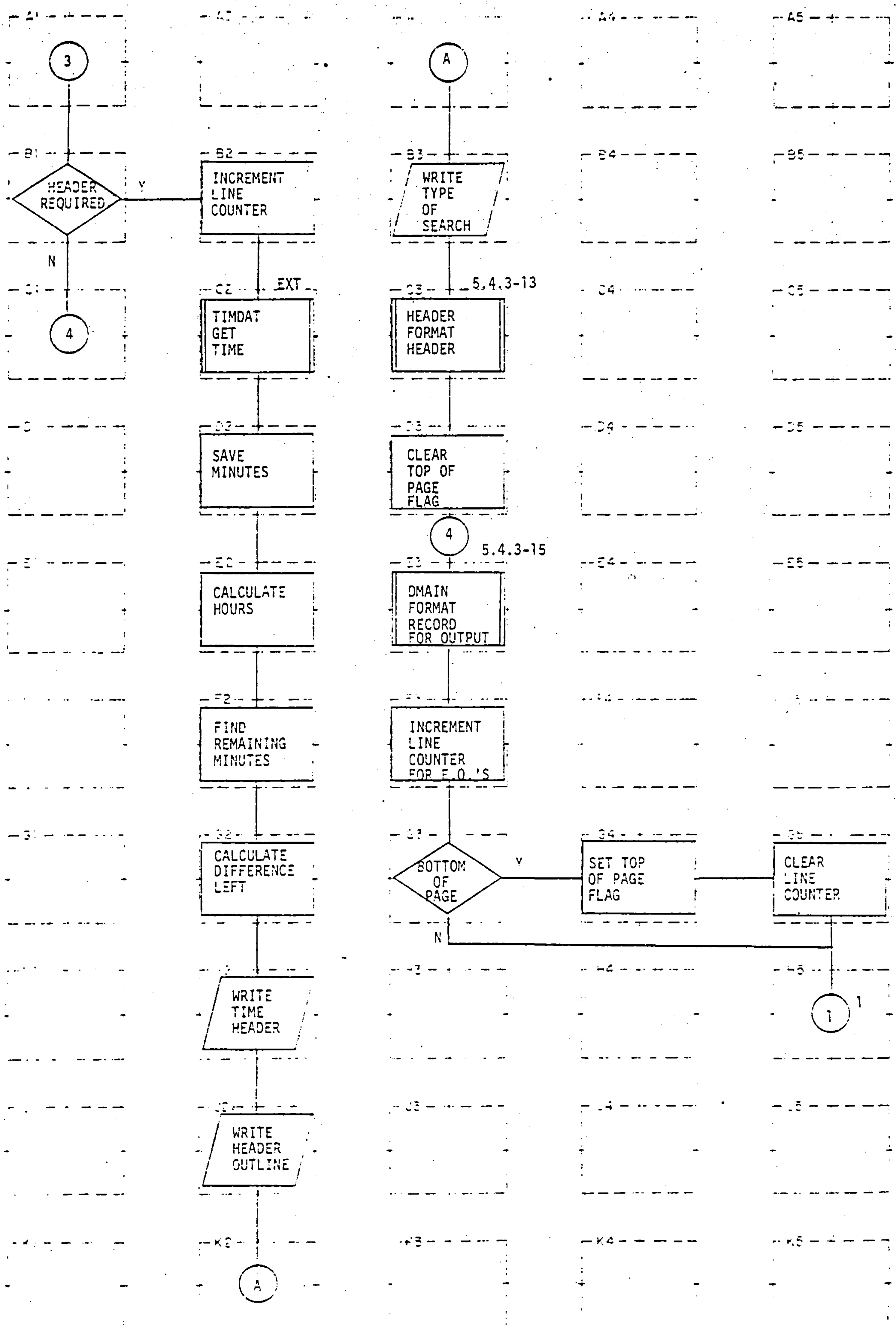


Figure 5.4.3-24

```
A1
B1   (IPAGE.NE.0)
C1
D1
E1
F1
G1
H1
J1
K1
A2
B2   ILINE = ILINE + 12
C2   TIMDAT (ARRAY,15)
D2   AMIN = ARRAY (4)
E2   AH = AMIN/60.0; IH = AH
F2   IMM = IH * 60
G2   IMIN = AMIN; IDM = IMIN - IMM
H2   WRITE (7,8008) IH,IDM, (ARRAY(I),I = 1,3)
J2   WRITE (7,8000)
K2
A3
B3   WRITE (7,8001) ICODE
C3   HEADER
D3   IPAGE = 1
E3   DMAIN
```

Figure 5.4.3-24 Page (5 of 6)

F3 ILINE = ILINE + INEO

G3 (ILINE.LE.45)

H3

J3

K3

A4

B4

C4

D4

E4

F4

G4 IPAGE = 0

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5 ILINE = 0

H5

J5

K5

Figure 5.4.3-24 Page (6 of 6)

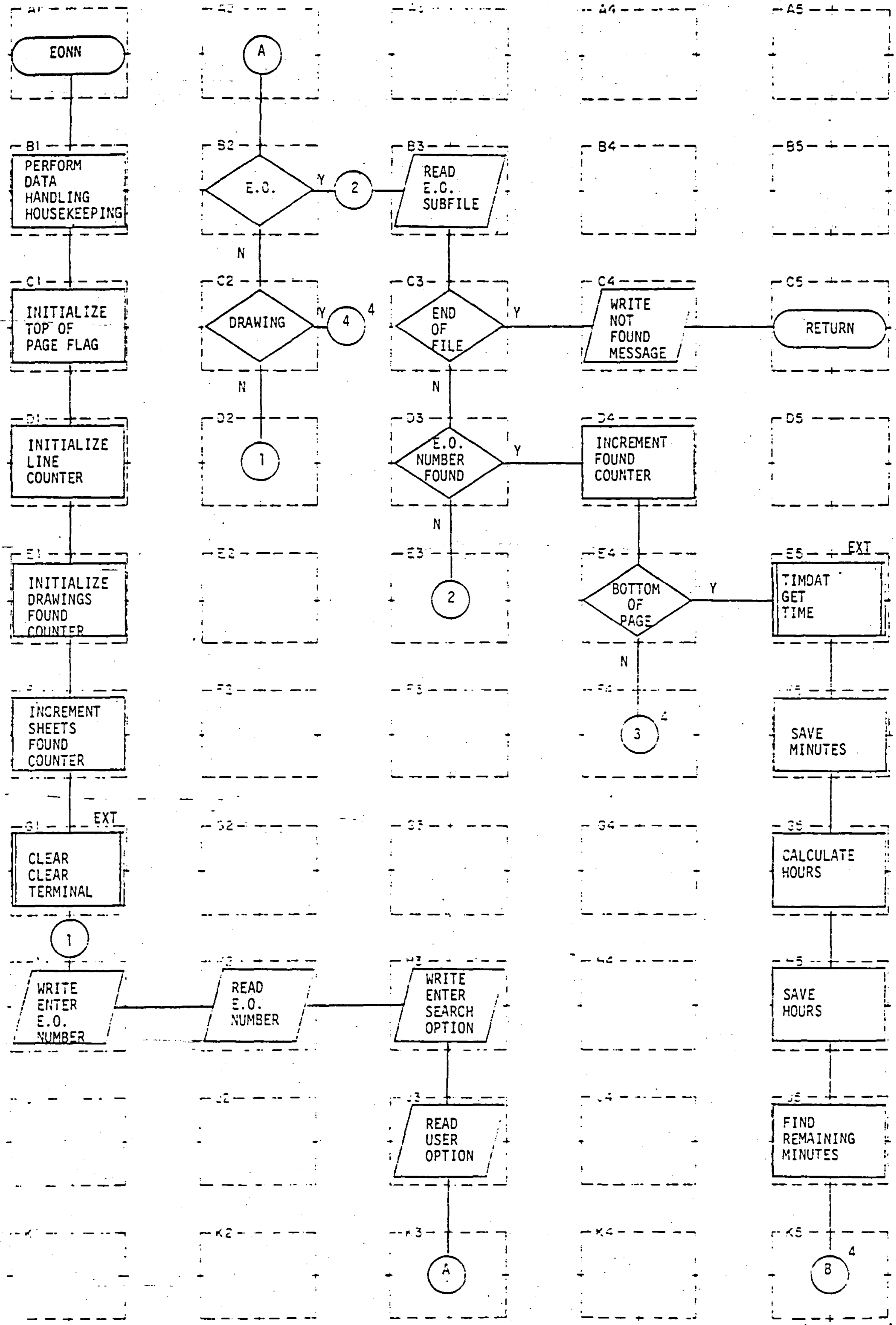


Figure 5.4.3-25

Page (1 of 12)

A1

B1 $INSERT COMMON; INTEGER * 4; * 2

C1 IPAGE = 0

D1 ILINE = 0

E1 KNT = 0

F1 KNTT = 0

G1 CLEAR

H1 WRITE (1,2)

J1

K1

A2

B2 (IOPT.EQ.'EO')

C2 (IOPT.NE.'DR')

D2

E2

F2

G2

H2 READ (1,3,ERR = 1) IEON

J2

K2

A3

B3 READ (18,END = 350) EON,ETIT,EPTIT,EOREV,EDT,ERDT,EOVEH

C3 Performed by B3

D3 DO 266 I = 1,2; (IEON(I).NE.EON(I))

E3

Figure 5.4.3-25 Page (2 of 12)

```
F3
G3
H3  WRITE (1,105)
J3  READ (1,110,ERR = 99) IOPT
K3
A4
B4
C4  WRITE (1,360)IEON
D4  KNT = KNT + 1
E4  (IPAGE.NE.0)
F4
G4
H4
J4
K4
A5
B5
C5
D5
E5  TIMDAT (ARRAY,15)
F5  AMIN + ARRAY (4)
G5  AH = AMIN/60.0
H5  IH = AH
J5  IMM = IH * 60
K5
```

Figure 5.4.3-25 Page (3 of 12)

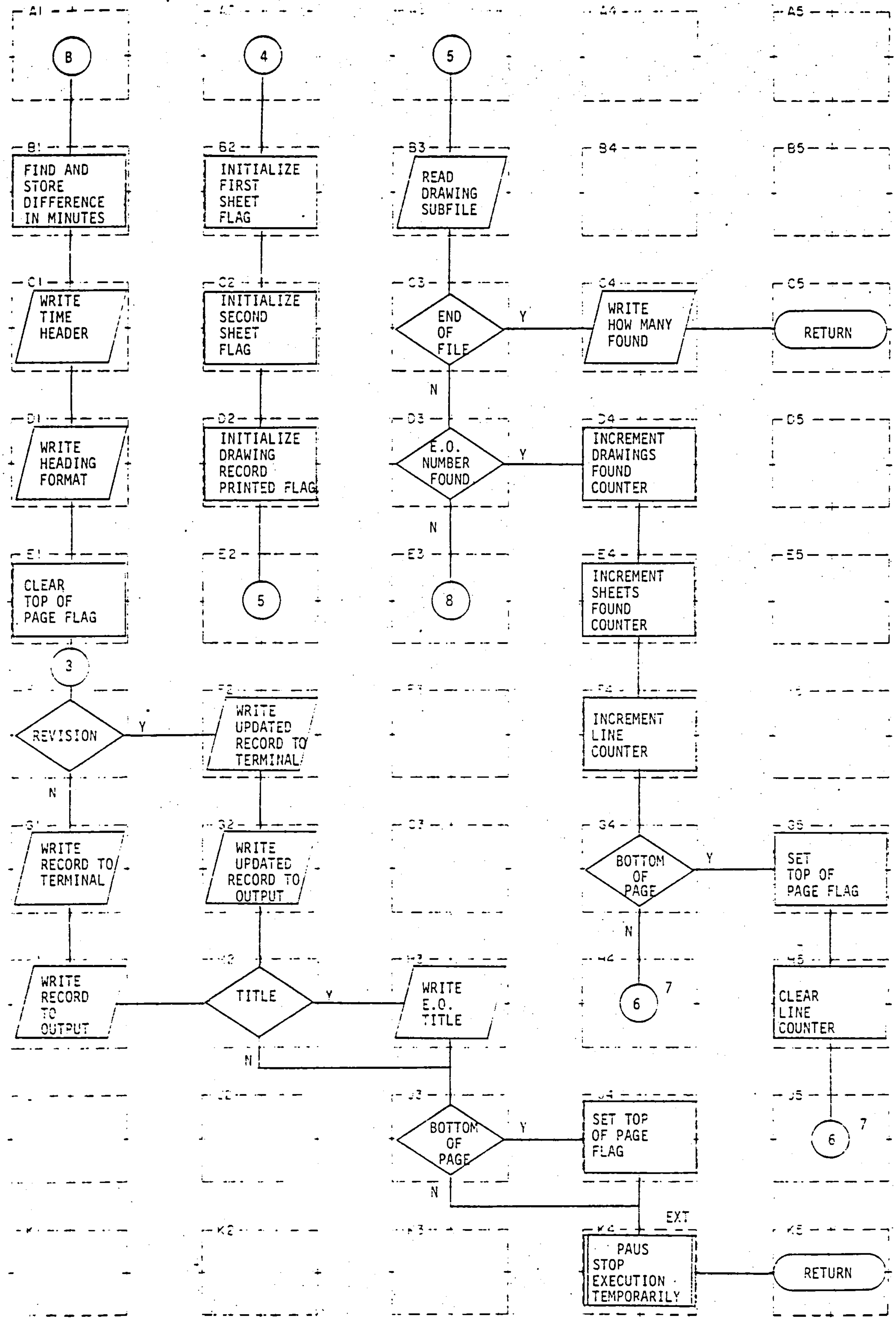


Figure 5.4.3-25

Page (4 of 12)

```
A1
B1   IMIN = AMIN; IDM = IMIN - IMM
C1   WRITE (7,1000)IH,IDM,(ARRAY(I),I = 1,3)
D1   WRITE (7,300)
E1   IPAGE = 1
F1   (EOREV.EQ.'NC')
G1   WRITE (1,140)KNT,EON,EOREV,EDT((EOVEH(I,J)J=1,2),I = 1,2)
H1   WRITE (7,230)KNT,EON,EOREV,EDT,EPTIT
J1
K1
A2
B2   FIRST = 0
C2   SECOND = 0
D2   INEO = 0
E2
F2   WRITE (1,140)KNT,EON,EOREV,ERDT,((EOVEH(I,J),J = 1,2),I = 1,2)
G2   WRITE (7,230)KNT,EON,EOREV,ERDT,EPTIT
H2   (EPTIT(1).NE.'  ')
J2
K2
A3
B3   READ (6,END=100)DRAW,TIT,PTIT,DT,SYS,VEH,SECT,NSHT,FREV,FNEO,FEOREF
C3   Performed By B3
D3   DO 2000 I=1,6; (IEON(1).NE.FEOREF(I,1)); (IEON(2).EQ.FEOREF(I,2))
E3
```

Figure 5.4.3-25 Page (5 of 12)

```
F3
G3
H3   WRITE (1,130)EPTIT
J3   (KNT/21.EQ.KNT/21.)
K3
A4
B4
C4   WRITE (1,200)KNT,KNTT,IEON
D4   KNT = KNT + 1
E4   KNTT = KNTT + 1
F4   ILINE = ILINE + FNEO + 4
G4   (ILINE.LE.45)
H4
J4   IPAGE = 0
K4   PAUS
A5
B5
C5
D5
E5
F5
G5   IPAGE = 0
H5   ILINE = 0
J5
K5
```

Figure 5.4.3-25 Page (6 of 12)

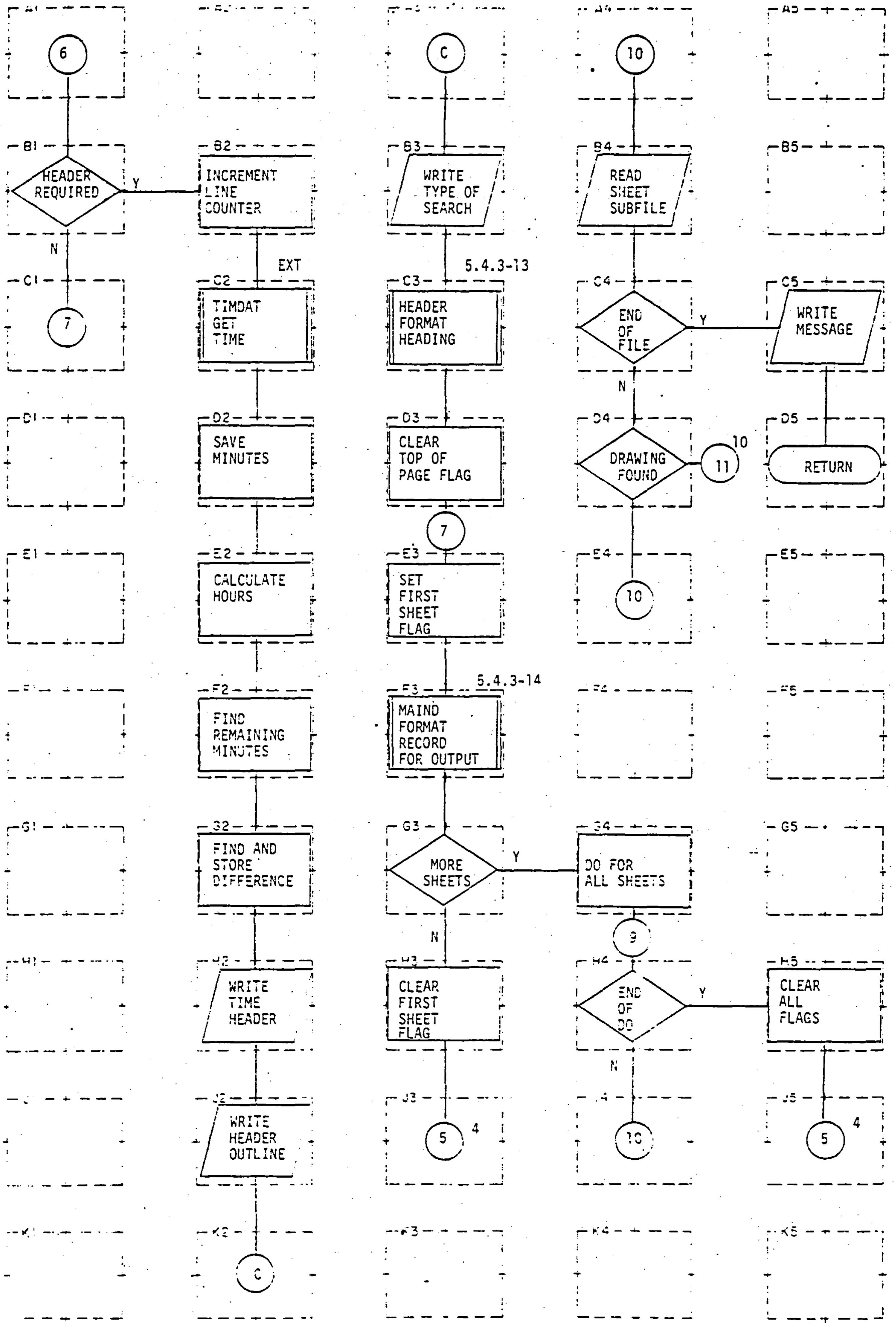


Figure 5.4.3-25

Page (7 of 12)

```
A1
B1   (IPAGE.NE.0)
C1
D1
E1
F1
G1
H1
J1
K1
A2
B2   ILINE = ILINE + 12
C2   TIMDAT (ARRAY, 15)
D2   AMIN = ARRAY (4)
E2   AH = AMIN/60.0; IH = AH
F2   IMM = IH * 60
G2   IMIN = AMIN; IDM = IMIN - IMM
H2   WRITE (7,8008)IH,IDM,(ARRAY(I),I = 1,3)
J2   WRITE (7,8000)
K2
A3
B3   WRITE (7,8001)IEON
C3   HEADER
D3   IPAGE = 1
E3   FIRST = 1
```

Figure 5.4.3-25

Page (8 of 12)

F3 MAIND

G3 (NSHT.GT.1)

H3 FIRST = 0

J3

K3

A4

B4 READ (12,END = 1001)DRW,SHTN,REV,NEO,EOREF

C4 Performed by B4

D4 DO 25 K = 1,4; (DRW(K).NE.DRAW(K))

E4

F4

G4 DO 150 J = 2,NSHT

H4 Performed by G4

J4

K4

A5

B5

C5 WRITE (1,1002)

D5

E5

F5

G5

H5 FIRST = 0; SECOND = 0; INEO = 0

J5

K5

Figure 5.4.3-25 Page (9 of 12)

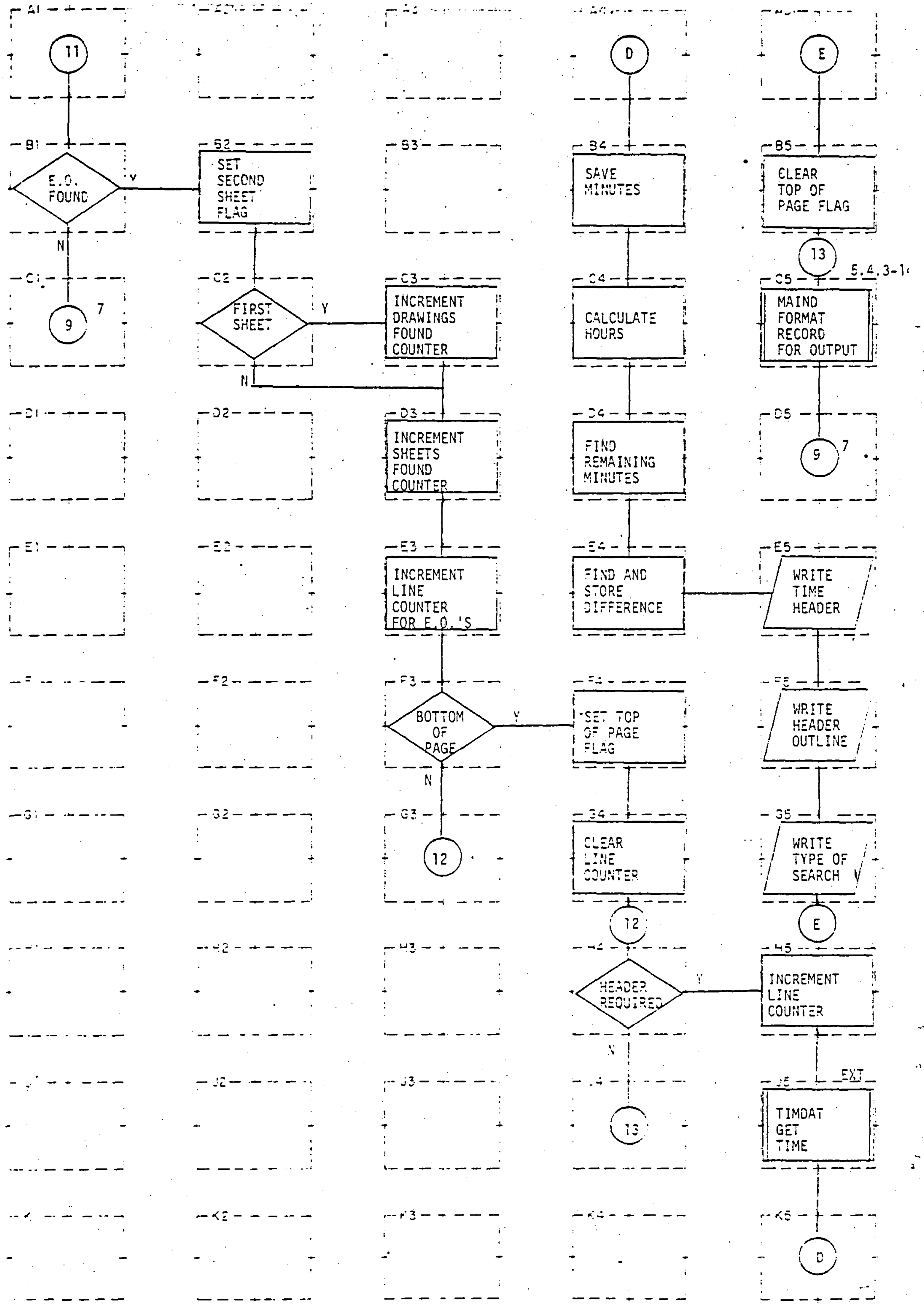


Figure 5.4.3-25

Page (10 of 12)

A1

B1 DO 2500I = 1,6; (IEON(1).NE.EOREF(I,1)); (IEON(2).EQ.EOREF(I,2))

C1

D1

E1

F1

G1

H1

J1

K1

A2

B2 SECOND = 1

C2 (FIRST.EQ.0)

D2

E2

F2

G2

H2

J2

K2

A3

B3

C3 KNT = KNT + 1

D3 KNTT = KNTT + 1

E3 ILINE = ILINE + NEO + 4

Figure 5.4.3-25 Page (11 of 12)

```
F3  (ILINE.LE.45)

G3

H3

J3

K3

A4

B4  AMIN = ARRAY (4)

C4  AH = AMIN/60.0; IH = AH

D4  IMM = IH * 60

E4  IMIN = AMIN; IDM = IMIN - IMM

F4  IPAGE = 0

G4  ILINE = 0

H4  (IPAGE.NE.0)

J4

K4

A5

B5  IPAGE = 1

C5  MAIND

D5

E5  WRITE (7,8008)IH,IDM,(ARRAY(I),I = 1,3)

F5  WRITE (7,8000)

G5  WRITE (7,8001)IEON

H5  ILINE = ILINE + 12

J5  TIMDAT (ARRAY,15)

K5
```

Figure 5.4.3-25 Page (12 of 12)

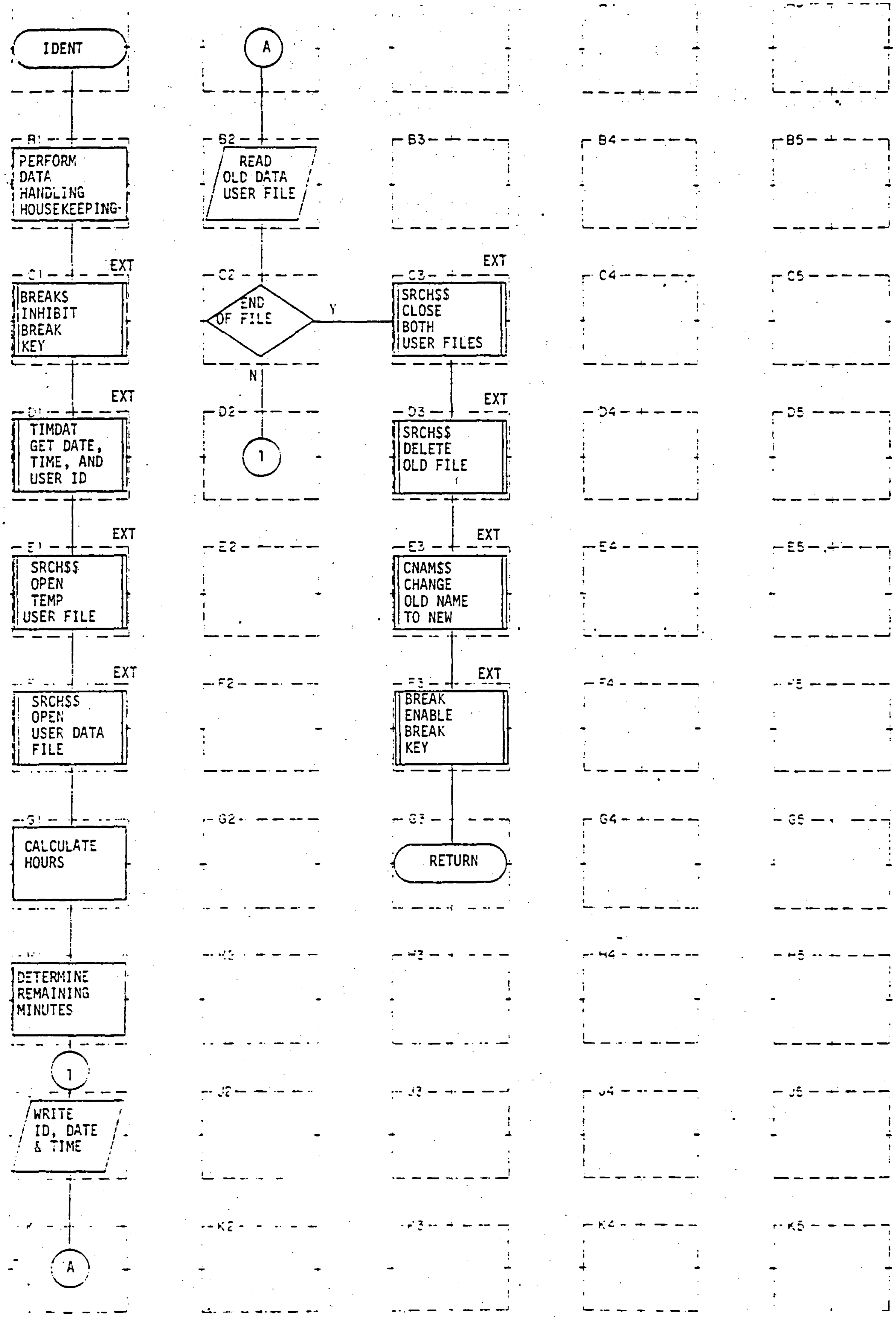


Figure 5.4.4-1

Page (1 of 3)

A1

B1 $INSERT SYSCOM>KEYS.F; INTEGER*2

C1 BREAK$ (.TRUE.)

D1 TIMDAT(ARRAY,15)

E1 SRCH$$(K$NDAM+K$RDWR,'TUSER',5,16,1,IC)

F1 SRCH$$(K$NDAM+K$RDWR,'USER',4,15,1,IC)

G1 AMIN=ARRAY(4); AH=AMIN/60.0; IH=AH

H1 IMM=IH*60; IMIM=AMIN; IDM=IMIN-IMM

J1 WRITE(20,1)(ARRAY(I),I=13,15),IH,IDM,ARRAY(5),
(ARRAY(I),I=1,3),ARRAY(12)

K1

A2

B2 READ(19,2,END=50)(ARRAY(I),I=13,15),IH,IDM,ARRAY(5),
(ARRAY(I),I=1,3),ARRAY(12)

C2 see B2

D2

E2

F2

G2

H2

J2

K2

A3

B3

C3 SRCH$$(K$CLOS,'USER',4,0,0,0); SRCH$$(K$CLOS,'TUSER',5,0,0,0);

D3 SRCH$$(K$DELE,'USER',4,0,0,0)

E3 CNAMS$('TUSER',5,'USER',4,IC)

Figure 5.4.4-1 Page (2 of 3)

F3 BREAK$(.FALSE.)

G3

H3

J3

K3

A4

B4

C4

D4

E4

F4

G4

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.4-1

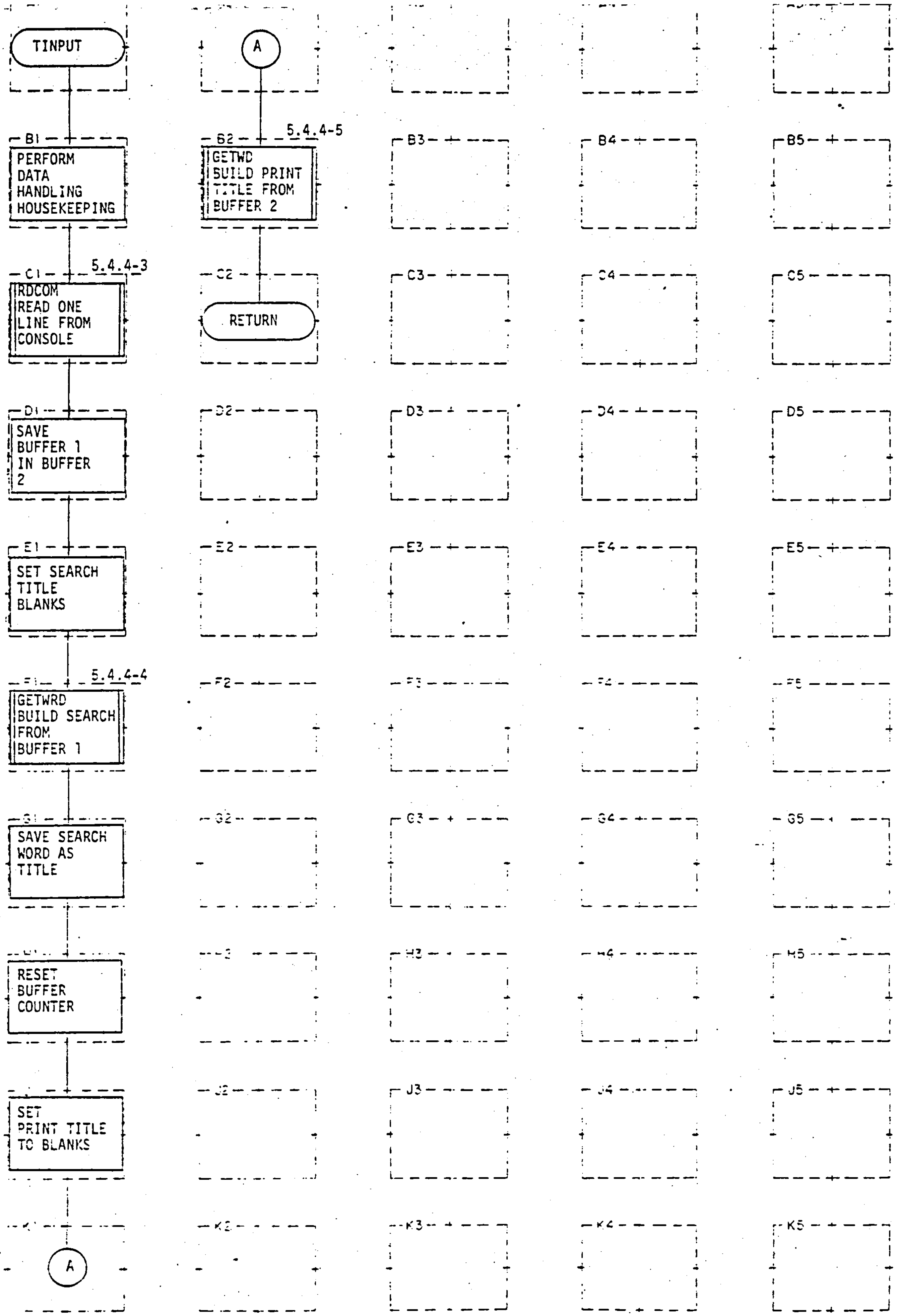


Figure 5.4.4-2

Page (1 of 2)

```
A1
B1    $INSERT COMMON; COMMON/X/PEDL; INTEGER*2; *4
C1    RDCOM(BUF)
D1    DO 5I=1,76; BUFF(I)=BUF(I)
E1    BLNK='  '; DO1I=1,21; TIL(I)=BLNK
F1    GETWRD(BUF,ARRAY,LEN)
G1    TIL(I)=ARRAY(1);TIL(I+1)=ARRAY(2); TIL(I+2)=ARRAY(3);
      TIL(I+3)=TIL=ARRAY(4)
H1    I=I+2; PEDL=1
J1    DO 200 I=1,19; PTIT(I)=BLNK
K1
A2
B2    GETWD(BUFF,PTIT)
C2
D2
E2
F2
G2
H2
J2
K2
A3
B3
C3
D3
E3
```

Figure 5.4.4-2

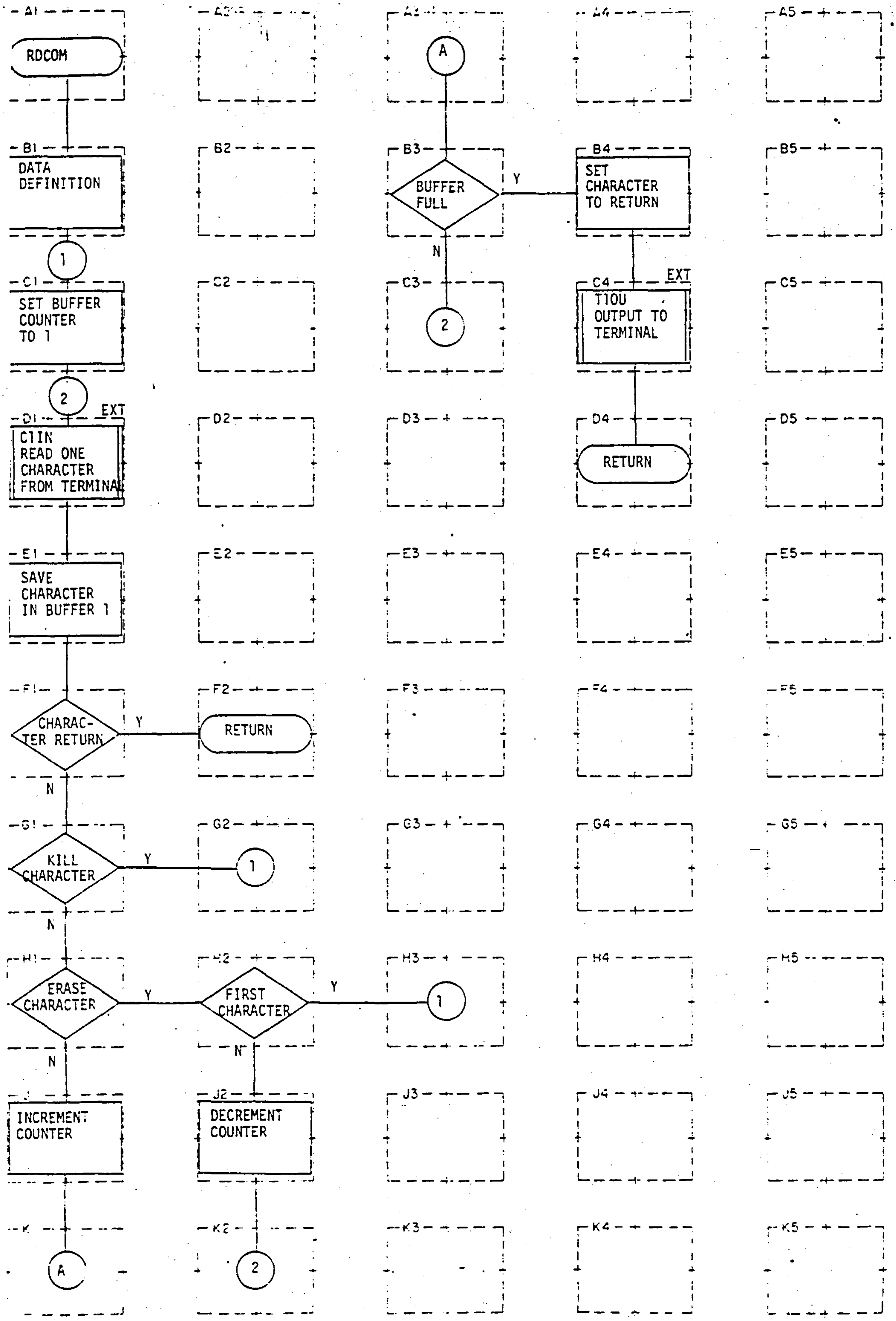


Figure 5.4.4-3 Page (1 of 3)

A1

B1 COMMON/X/PEDL; INTEGER

C1 PEDL=1; N=1

D1 C1IN(CHAR)

E1 BUF(N)=CHAR

F1 (CHAR.EQ.ANL)

G1 (CHAR.EQ.AKILL)

H1 (CHAR.EQ.AERASE)

J1 N=N+1

K1

A2

B2

C2

D2

E2

F2

G2

H2 (N.LE.2)

J2 N=N-1

K2

A3

B3 (N.GT.77)

C3

D3

E3

Figure 5.4.4-3 Page (2 of 3)

F3
G3
H3
J3
K3
A4
B4 ILF=:212
C4 T1OU(ILF)
D4
E4
F4
G4
H4
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5

Figure 5.4.4-3 Page (3 of 3)

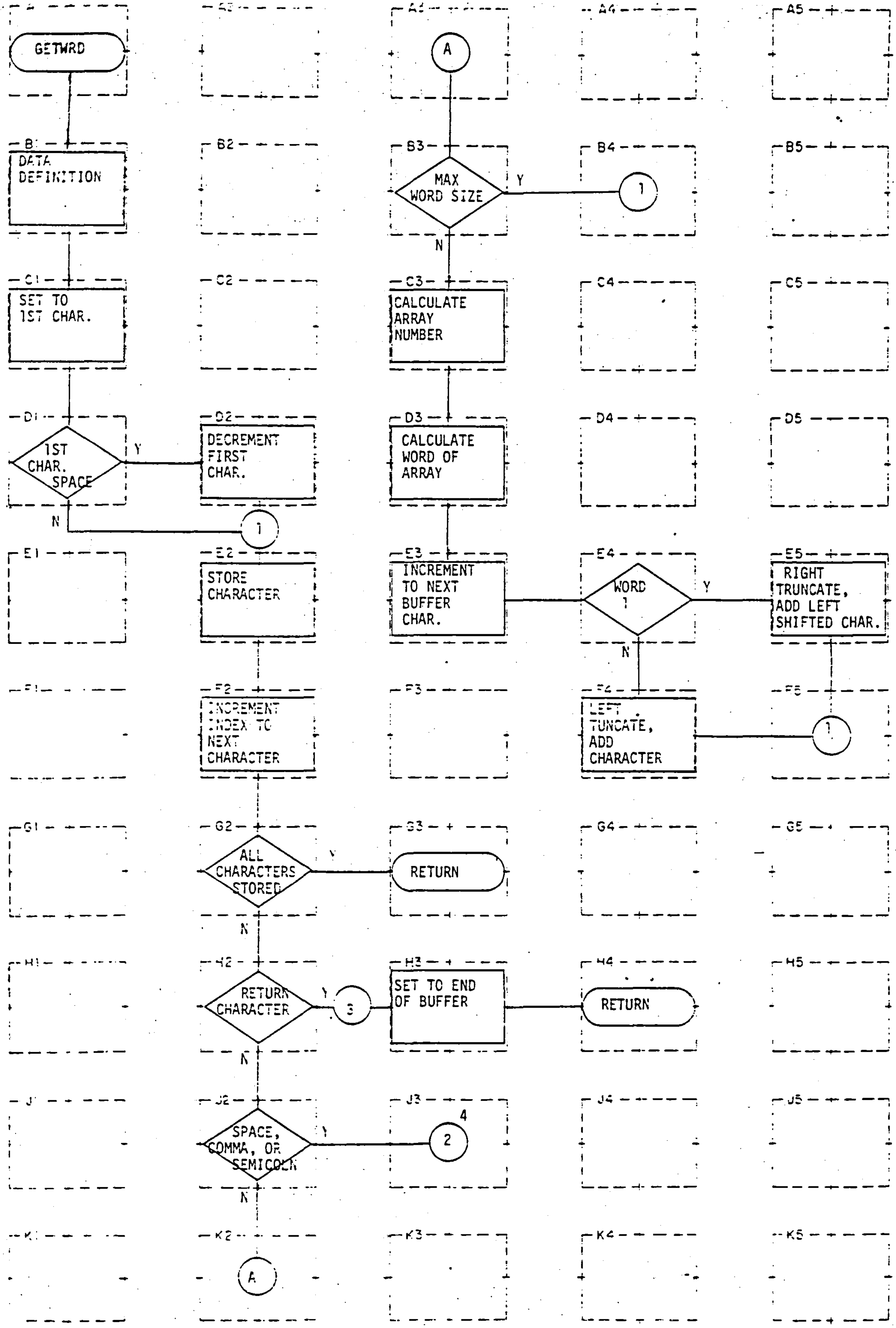


Figure 5.4.4-4

Page (1 of 5)

```
A1
B1    COMMON/X/PEDL; INTEGER
C1    DO 140 I=1,3; NAME(I)=ASPSP; N=1
D1    (BUF(1).NE.ASP)
E1
F1
G1
H1
J1
K1
A2
B2
C2
D2    DO 999 I=2,77; II=I-1; BUF(II)=BUF(I)
E2    CHAR=BUF(PEDL)
F2    PEDL=PEDL+1
G2    (PEDL.GT.77)
H2    (CHAR.EQ.ASP.OR.CHAR.EQ.ACOMMA.OR.CHAR.EQ.ASCOL)
J2
K2
A3
B3    (N.GT.LEN)
C3    I=(N+1)/2
D3    J=N-2*(N/2)
E3    N=N+1
```

Figure 5.4.4-4

F3

G3

H3 PEDL=77

J3

K3

A4

B4

C4

D4

E4 (J.EQ.1)

F4 NAME(I)=LT(NAME(I),8)+CHAR

G4

H4

J4

K4

A5

B5

C5

D5

E5 NAME(I)=RT(NAME(I),8)+LS(CHAR,8)

F5

G5

H5

J5

K5

Figure 5.4.4-4 Page (3 of 5)

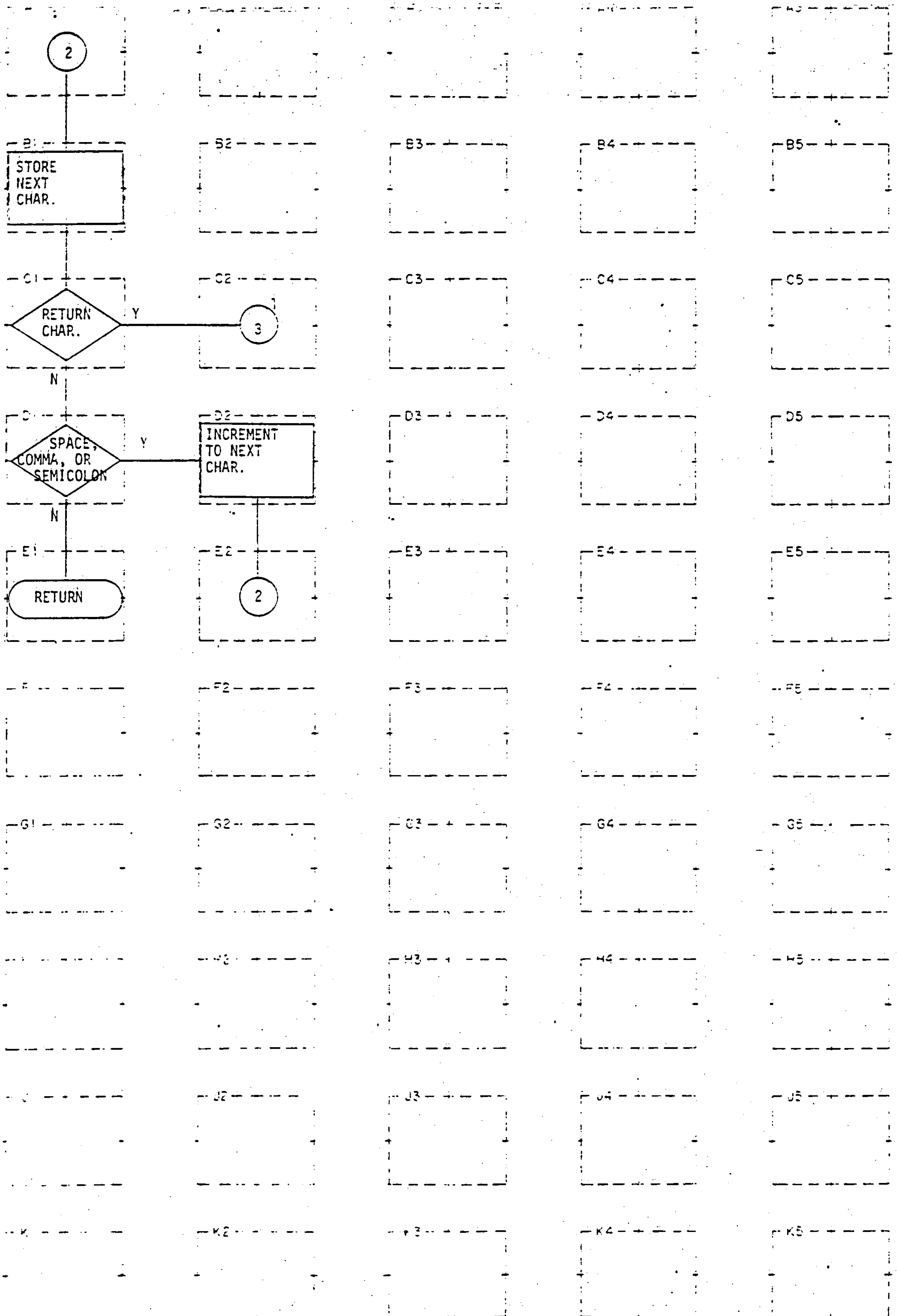


Figure 5.4.4-4

Page (4 of 5)

```
A1
B1    CHAR=BUF(PEDL)
C1    (CHAR.EQ.ANL)
D1    CHAR.NE.ASP.AND.CHAR.NE.ACOMMA.AND.CHAR.NE.ASCOL)
E1
F1
G1
H1                      :
J1                      :
K1
A2
B2
C2
D2    PEDL=PEDL+1
E2
F2
G2
H2
J2
K2
A3
B3
C3
D3
E3
```

Figure 5.4.4-4 Page (5 of 5)

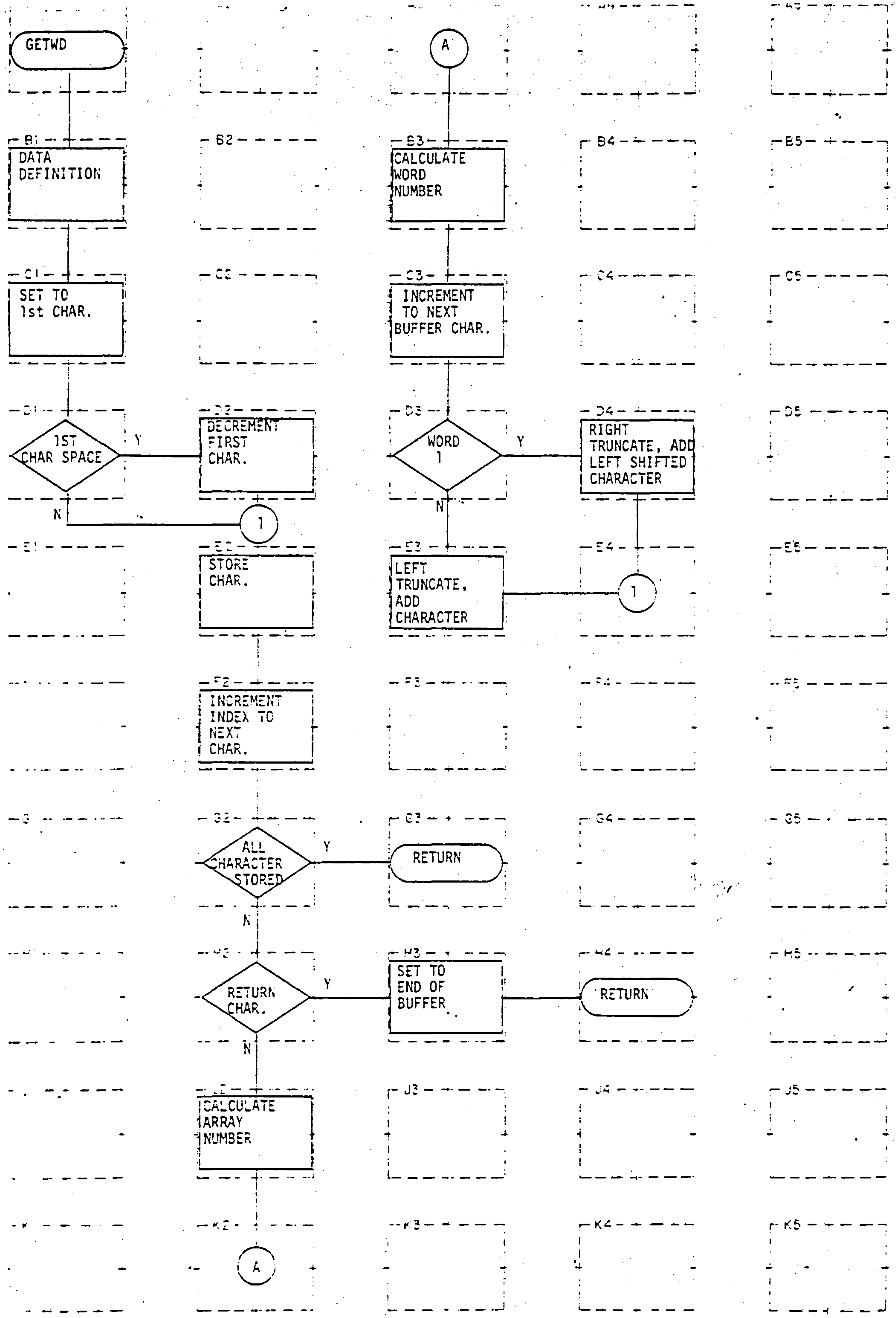


Figure 5.4.4-5

Page (1 of 3)

```
A1
B1   COMMON/X/PEDL; INTEGER
C1   DO 100 I=1,19; NAME(I)=ASPSP; N=1
D1   (BUFF(1).NE.ASP)
E1
F1
G1
H1
J1
K1
A2
B2
C2
D2   DO 999 I=2,77; II=I-1; BUFF(II)=BUFF(I)
E2   CHAR=BUFF(PEDL)
F2   PEDL=PEDL+1
G2   IPEDL.GT.77)
H2   (CHAR.EQ.ANL)
J2   I=(N+1)/2
K2
A3
B3   J=N-2*(N/2)
C3   N=N+1
D3   (J.EQ.1)
E3   NAME(I)=LT(NAME(I),8)+CHAR
```

Figure 5.4.4-5 Page (2 of 3)

```
F3
G3
H3    PEDL=77
J3
K3
A4
B4
C4
D4    NAME(I)=RT(NAME(I),8)+LS(CHAR,8)
E4
F4
G4
H4
J4
K4
A5
B5
C5
D5
E5
F5
G5
H5
J5
K5
```

Figure 5.4.4-5 Page (3 of 3)

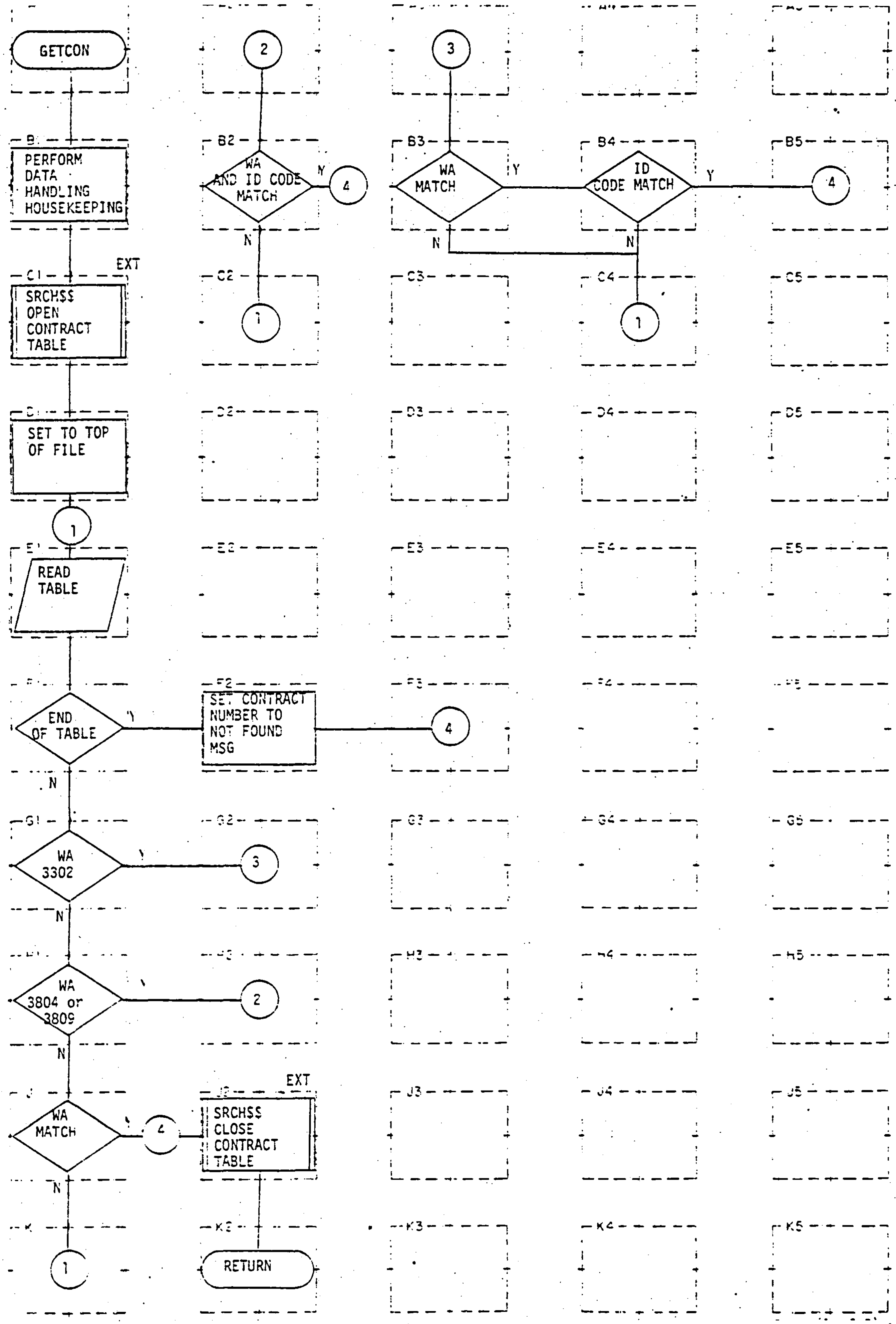


Figure 5.4.4-6

Page (1 of 3)

A1

B1 $INSERT COMMON; $INSERT SYSCOM>KEYS.F

C1 SRCHSS (KSRDWR+KSNDAM,'CTAB',6,14, IT,IC)

D1 REWIND 18

E1 READ(18,655,END=690)WA,CON

F1 see E1

G1 (WAN(1).EQ.'33'.AND.WAN(2).EQ.'02')

H1 (WAN(1).EQ.'38'.AND.WAN(2).EQ.'04'.OR.WAN(2).EQ.'09')

J1 (WAN(1).NE.WAN(1));(WAN(2).NE.WA(2))

K1

A2

B2 DO 665 I=1,4; (WAN(I).NE.WA(I))

C2

D2

E2

F2 CON(1)='WA N'; CON(2)='OT F'; CON(3)='OUND'; CON(4)='SEE'; CON(5)='RJK'

G2

H2

J2 SRCHS$(K$CLOS,'CTAB',6,0,0,0)

K2

A3

B3 (WAN(1).NE.WA(1));(WAN(2).NE.WA(2))

C3

D3

E3

Figure 5.4.4-6 Page (2 of 3)

F3

G3

H3

J3

K3

A4

B4 (WAN(3).NE.'AB').AND.WAN(3).NE.'BA');(WAN(3).EQ.'AB'.AND.WA(3).EQ.'A');
(WAN(3).EQ.'BA'.AND WA(3).EQ.'B')

C4

D4

E4

F4

G4

H4

J4

K4

A5

B5

C5

D5

E5

F5

G5

H5

J5

K5

Figure 5.4.4-6

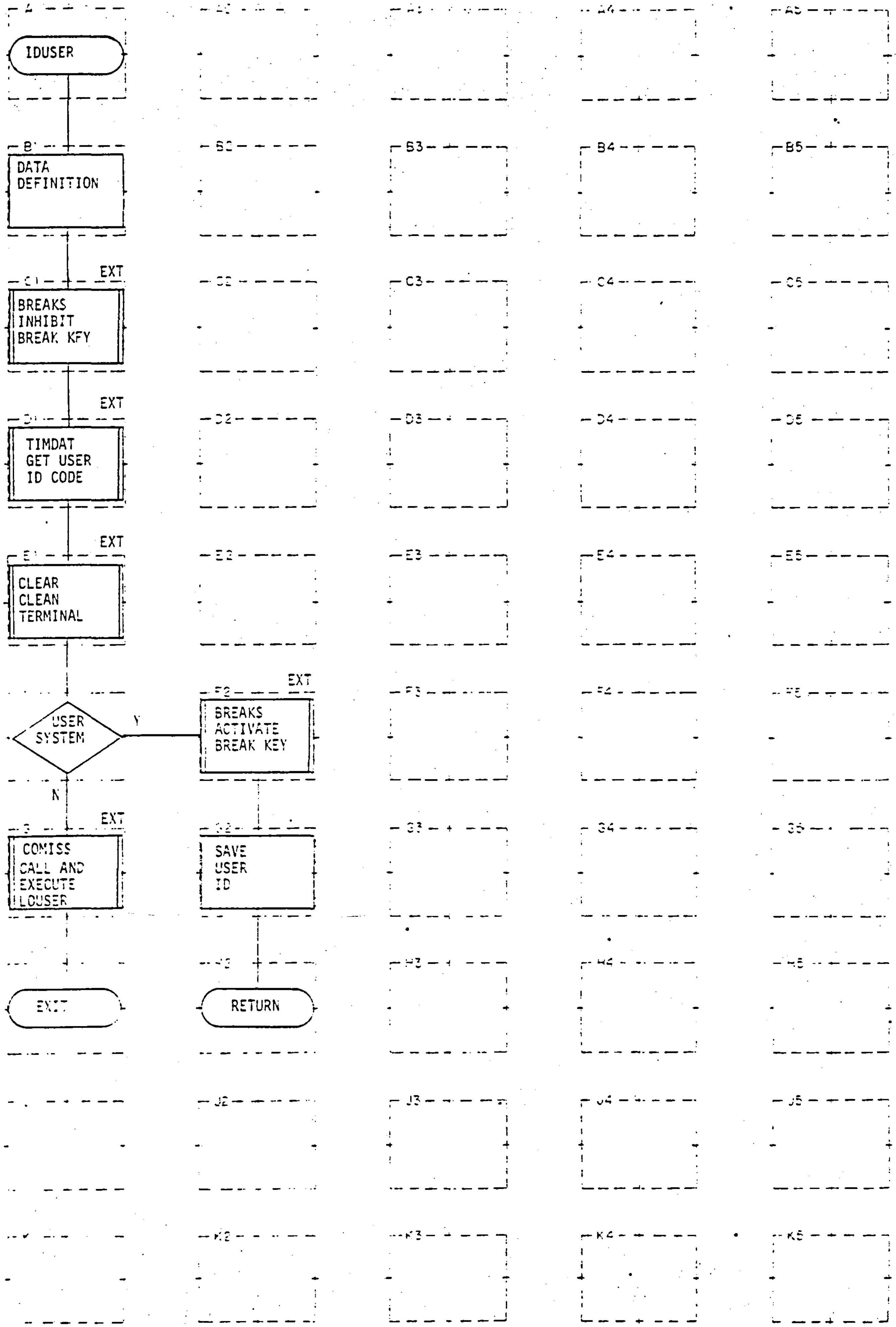


Figure 5.4.4-7 Page (1 of 2)

```
A1
B1      INTEGER*2
C1      BREAK$ (.TRUE.)
D1      TIMDAT (IA,15)
E1      CLEAR
F1      (IA(13).NE.'SY'); (IA(14).NE.'ST'); (IA(15).NE.'EM')
G1      COMI$S ('LOUSER',6,12,IC)
H1
J1
K1
A2
B2
C2
D2
E2
F2      BREAK$(.FALSE.)
G2      IAI=IA(13)
H2
J2
K2
A3
B3
C3
D3
E3
```

Figure 5.4.4-7 Page (2 of 2)

6.0 DATA BASE DESIGN

6.1 FILE STRUCTURE

6.1.1 DATA SUBFILES

6.1.1.1 MAIL CORRESPONDENCE DATA

The Mail Correspondence portion of the Mail Log data base is further subdivided into six (6) subfiles representing the six (6) types of documents. There also exists a seventh data file used for storage of special action due date items. This file provides fast and efficient access to data during the ACTION DUE DATE SEARCH, see Section 4.1.22, which is otherwise scattered throughout the six (6) data subfiles listed below:

NAME	DESCRIPTION	FUNIT	PUNIT
TRAN	TRANSMITTALS and SPECIFICATIONS	6	2
ACTD	ACTION DUE DATE	9	5
MEMO	MEMO's and LETTERS	11	7
TWFX	TWX's, MAGNAFAX's and RAPIFAX's	12	8
ANN	ANNOUNCEMENTS	13	9
PR	PURCHASE REQUESTS	14	10
MIS	MISCELLANEOUS DOCUMENTS and REPORTS	15	11

6.1.1.2 DESIGN INFORMATION RELEASE/REPORT DATA

The Design Information portion of the Mail Log data base consists of one (1) subfile.

NAME	DESCRIPTION	FUNIT	PUNIT
DIR	DIR's and REPORT's	6	2

6.1.1.3 DRAWING/ENGINEERING ORDER DATA

The Drawing portion of the Mail Log data base is further subdivided into three (3) subfiles:

NAME	DESCRIPTION	FUNIT	PUNIT
DRAW	DRAWING	6	2
SHEET	SHEET	12	8
EO	ENGINEERING ORDERS (E.O.'s)	18	14

The DRAWING subfile contains all sheet one (1) information pertaining to a specific drawing. If the drawing has more than one (1) sheet, additional information pertaining to each following sheet is contained in the SHEET subfile. Therefore, the DRAWING and SHEET subfiles together form all drawing data contained within the data base. The E.O. subfile contains pertinent information related to all Engineering Orders.

6.1.2 STORAGE FILES

6.1.2.1 MAIL CORRESPONDENCE

All archived document records are stored in one (1) of two (2) inactive files called INACTS or INACTL. Transmittal data records which are actively stored in the TRAN subfile (see Section 6.1.1.1), will be archived to INACTL. Any data records which are actively stored in any of the other five (5) subfiles will be archived to INACTS. These data records do not contain the sixteenth data item, DESCRIPTION, which is found only in the TRANSMITTAL subfile.

Another storage file, called USER, is used to record the user ID, time, date, and terminal location number for each entry.

NAME	DESCRIPTION	FUNIT	PUNIT
INACTL	INACTIVE FILE (LONG RECORDS)	9	5
INACTS	INACTIVE FILE (SHORT RECORDS)	9	5
USER	USER LOG	19	15

6.1.2.2 DESIGN INFORMATION RELEASE/REPORT

All DIR/REPORT data records are stored in an inactive file called INACT when archived.

Another storage file, called USER, is used to record the user ID, time, date, and terminal location number for each entry.

NAME	DESCRIPTION	FUNIT	PUNIT
INACT	INACTIVE FILE	9	5
USER	USER LOG	19	15

6.1.2.3 DRAWING/ENGINEERING ORDER

Each of the three (3) data subfiles described in Section 6.1.1.3 has a corresponding inactive file for archive purposes. The DRAW subfile data records are archived to INACTD. The SHEET subfile data records are archived to INACTS. Finally, the EO subfile data is archived to INACTE.

Another storage file, called USER, is used to record the user ID, time, date, and terminal location number for each entry.

NAME	DESCRIPTION	FUNIT	PUNIT
INACTD	INACTIVE FILE (DRAW)	9	5
INACTS	INACTIVE FILE (SHEET)	11	7
INACTE	INACTIVE FILE (EO)	17	13
USER	USER LOG	19	15

6.1.3 TEMPORARY WORKING STORES

6.1.3.1 MAIL CORRESPONDENCE

The CORRESPONDENCE program uses several temporary working storage files for outputting, rebuilding, restructuring, or sorting various subfile data records.

NAME	DESCRIPTION	FUNIT	PUNIT
OUT	OUTPUT FILE	7	3
REVS	REVISION DATA FILE	8	4
DATE	CURRENT DATE & DAILY DOCUMENT COUNTER	10	6
IM	DAILY INCOMING MAIL	16	12
OM	DAILY OUTGOING MAIL	17	13
VC	DAILY VOUGHT CORRESPONDENCE	18	14
T1	SUBJECT SEARCH FOUND FILE	19	15
T2	SUBJECT SEARCH FOUND FILE	20	16

6.1.3.2 DESIGN INFORMATION RELEASE/REPORT

The DIR/REPORT program uses several temporary working storage files for outputting and rebuilding data records.

NAME	DESCRIPTION	FUNIT	PUNIT
OUT	OUTPUT FILE	7	3
REVS	REVISION DATA FILE	8	4
TEMP	REBUILDING DATA FILE	10	6
T1	TITLE SEARCH FOUND FILE	11	7
T2	TITLE SEARCH FOUND FILE	12	8

6.1.3.3 DRAWING/ENGINEERING ORDER

The DRAWING/EO program uses several temporary working storage files for outputting and rebuilding data records.

NAME	DESCRIPTION	FUNIT	PUNIT
OUT	OUTPUT FILE	7	3
REVS	REVISION DATA FILE	8	4
TEMP	DRAW REBUILDING DATA FILE	10	6
ETEMP	EO REBUILDING DATA FILE	13	9
T1	TITLE SEARCH FOUND FILE	13	9
STEMP	SHEET REBUILDING DATA FILE	14	10
T2	TITLE SEARCH FOUND FILE	14	10

6.2 DATA RECORDS

This Section provides a description of each data record for all three (3) main MAIL LOG subfiles. A table of searchable data items is given along with the items formatted for output during the SEARCH MODE.

6.2.1 MAIL CORRESPONDENCE

The Correspondence data record for each document consists of up to sixteen (16) data items, as shown in Figure 6.2.1.1. All but the DAILY COUNTER are input manually by the operator. The INPUT DATE and DAILY COUNTER are assigned automatically by the computer software. The CONTRACT NUMBER may also be assigned by using the WA/ID CODE - CONTRACT TABLE, CTAB, described in Section 6.4.2. There are two (2) subjects stored in each data record: SUB, as indicated in Figure 6.2.1.1, is the searchable subject; PTIT, not shown in Figure 6.2.1.1, represents a complete subject which is used for output purposes. During the SEARCH MODE eleven (11) of these sixteen (16) data items are searchable with up to eight (8) data items being formatted for output. See Figures 6.2.1.2 and 6.2.1.3.

6.2.2 DESIGN INFORMATION RELEASE/REPORT

The DIR/REPORT data record for each document consists of up to nine (9) data items as shown in Figure 6.2.2.1. The CONTRACT NUMBER is assigned automatically by the WA/ID CODE - CONTRACT TABLE, CTAB, described in Section 6.4.2. The CONTRACT NUMBER is therefore never actually saved within the data record. There are two (2) titles stored in each data record: TIT, as indicated in Figure 6.2.2.1, is the searchable title; PTIT, not shown in Figure 6.2.2.1, represents a complete title which is used for output purposes.

During the SEARCH MODE eight (8) of nine (9) data items are searchable with the entire data record being formatted for output. See Figure 6.2.2.2.

6.2.3 DRAWING/ENGINEERING ORDER

All drawings are divided into two (2) subfiles: DRAW and SHEET. DRAW contains all first sheet data and items indicating any further sheets and

E.O.'s referenced. Each data record in this subfile contains up to ten (10) data items, as shown in Figure 6.2.3.1. There are two (2) titles stored in each data record: TIT, as indicated in Figure 6.2.3.1, is the searchable title; and PTIT represents the complete title which is used for output purposes.

If a drawing has more than one (1) sheet, each subsequent sheet forms a data record in the SHEET subfile. Each data record in this subfile contains up to five (5) data items as shown in Figure 6.2.3.1.

During the SEARCH MODE, the DRAWING subfiles contain eight (8) searchable data items with up to eight (8) data items being formatted for output. There also exists a ninth searchable data item, VENDOR CODE, which is actually a partial search on the DRAWING NUMBER data item. See Figure 6.2.3.2.

Engineering Order data records consist of up to six (6) data items, as shown in Figure 6.2.3.3. Each EO data record contains two (2) titles: ETIT, as indicated in Figure 6.2.3.3, is the searchable title; and EPTIT represents the complete title which is used for output purposes.

During the SEARCH MODE only two (2) of the data items are searchable with up to all six (6) items being formatted for output. See Figure 6.2.3.4.

Special information pertaining to the SEARCH MODE for all three (3) subfiles is given in Figure 6.2.3.5.

CORRESPONDENCE

RECORD DESCRIPTION

ITEM NO.	DESCRIPTION	VARIABLE	SIZE	TYPE
1	MAIL STATUS	MS	2 characters	ALPHA
2	AUTHOR/SOURCE	ATHR	28 characters	ALPHA
3	DOCUMENT DATE	DD	6 characters - MMDDYY	NUMERIC
4	TO/ADDRESSEE	TO	32 characters	ALPHA
5	DOCUMENT LETTER NUMBER	DLN	18 characters	ALPHA
6	SUBJECT	SUB	10 characters/word - 7 words	ALPHA
7	ROUTING	ROUT	3 characters - 6 entries	ALPHA
8	INPUT DATE	IDD	6 characters - MMDDYY	NUMERIC
9	DAILY COUNTER	COUNT	4 characters	NUMERIC
10	WA NUMBER/ID CODE	WA	8 characters	ALPHA
11	CONTRACT NUMBER	CONT	20 characters	ALPHA
12	ACTION DUE DATE	ADD	6 characters - MMDDYY	NUMERIC
13	REFERENCED DOCUMENTS	TWX	18 characters - 6 entries	ALPHA
14	FILE SYSTEM CODE	FSC	10 characters - 2 entries	ALPHA
15	RESPONSIBLE ENGINEER	NRE	3 characters - 3 entries	ALPHA
16	* DESCRIPTION	DDT	10 characters/word - 7 words - 30 entries	ALPHA

* ONLY USED IN TRANSMITTAL SUBFILE

FIGURE 6.2.1.1

CORRESPONDENCE

SEARCHABLE DATA ITEMS

ITEM NO.	DESCRIPTION	SEARCHABLE	OUTPUT
1	MAIL STATUS	*	
2	AUTHOR/SOURCE	*	
3	DOCUMENT DATE	*	
4	TO/ADDRESSEE	*	
5	DOCUMENT LETTER NUMBER	*	*
6	SUBJECT	*	*
7	ROUTING		
8	INPUT DATE	*	*
9	DAILY COUNTER		*
10	W.A. NUMBER/ID CODE	*	
11	CONTRACT NUMBER	*	
12	ACTION DUE DATE	*	**
13	REFERENCED DOCUMENTS		***
14	FILE SYSTEM CODE		*
15	RESPONSIBLE ENGINEER	*	**
16	**** DESCRIPTION		

* OUTPUT IN ALL SEARCHES

** ONLY OUTPUT DURING AN ACTION DUE SEARCH

*** OUTPUT IN ALL BUT AN ACTION DUE OR ALL SEARCH

**** ONLY USED IN TRANSMITTAL SUBFILE

FIGURE 6.2.1.2

CORRESPONDENCE

SEARCHES

DESCRIPTION	SUBFILE SELECTION	TIME FRAME
MAIL STATUS	ANY 6	ANY
AUTHOR	ANY 6	ANY
DOCUMENT DATE	ANY 6	DAY/MONTH/YEAR
TO	ANY 6	ANY
DOCUMENT LETTER NUMBER	ANY 6	ANY
SUBJECT	ANY 6	ANY
INPUT DATE	ANY 6	DAY/MONTH/YEAR
W.A. NUMBER/ID CODE	ANY 6	ANY
CONTRACT NUMBER	ANY 6	ANY
ACTION DUE	ALL 6	NONE
RESPONSIBLE ENGINEER	ANY 6	ANY
ALL	ANY 6	ANY

FIGURE 6.2.1.3

DIR/REPORT

RECORD DESCRIPTION

ITEM NO.	DESCRIPTION	VARIABLE	SIZE	TYPE
1	TITLE	TIT	10 characters/word - 7 words	ALPHA
2	DIR/REPORT NUMBER	DIR	14 characters	ALPHA
3	DATE	DT	6 characters - MMDDYY	NUMERIC
4	SYSTEM	SYS	4 characters - 3 entries	ALPHA
5	VEHICLE	VEH	4 characters - 2 entries	ALPHA
6	W.A. NUMBER/ID CODE	WAN	8 characters	ALPHA
7	* CONTRACT NUMBER	CONT	20 characters	ALPHA
8	REVISION	REV	2 characters	ALPHA
9	REVISION DATE	RDAT	6 characters - MMDDYY	NUMERIC

* NOT STORED IN DATA BASE SUBFILE
CONTAINED IN WA/CONTRACT TABLE

FIGURE 6.2.2.1

DIR/REPORT

SEARCHABLE DATA ITEMS

ITEM NO.		DESCRIPTION	SEARCHABLE	OUTPUT
1		TITLE	*	*
2		DIR/REPORT NUMBER	*	*
3		DATE	*	*
4		SYSTEM	*	*
5		VEHICLE	*	*
6		W.A. NUMBER/ID CODE	*	*
7	***	CONTRACT NUMBER	*	*
8		REVISION		*
9		REVISION DATE	**	*

** INCLUDED WITHIN THE DATE SEARCH
*** NOT STORED IN DATA BASE SUBFILE
CONTAINED IN W.A./CONTRACT TABLE

FIGURE 6.2.2.2

DRAWING RECORD DESCRIPTION

ITEM NO.	DRAW SUBFILE DESCRIPTION	VARIABLE	SIZE	TYPE
1	TITLE	TIT	10 characters/word - 7 words	ALPHA
2	DRAWING NUMBER	DRAW	14 characters	ALPHA
	* VENDOR CODE		3 characters	ALPHA
3	DATE	DT	6 characters - MMDDYY	NUMERIC
4	**SYSTEM	SYS	4 characters - 3 entries	ALPHA
5	VEHICLE	VEH	4 characters - 2 entries	ALPHA
6	**SECTION	SECT	12 characters	ALPHA
7	NUMBER OF SHEETS	NSHT	2 characters	NUMERIC
8	SHEET REVISION	FREV	2 characters	ALPHA
9	NUMBER OF E.O.'s	FNEO	2 characters	NUMERIC
10	E.O.'s REFERENCED	FEOREF	8 characters - 10 entries	ALPHA

ITEM NO.	SHEET SUBFILE DESCRIPTION	VARIABLE	SIZE	TYPE
1	DRAWING NUMBER	DRW	14 characters	ALPHA
2	SHEET NUMBER	SHTN	2 characters - 2 entries	NUMERIC
3	REVISION	REV	2 characters	ALPHA
4	NUMBER OF E.O.'s	NEO	2 characters	NUMERIC
5	E.O.'s REFERENCED	EOREF	8 characters - 10 entries	ALPHA

* CONTAINED WITHIN DRAWING NUMBER

**NOT CONTAINED IN DALLAS DATA

FIGURE 6.2.3.1

SEARCHABLE DRAWING DATA ITEMS

ITEM NO.	DRAWING SUBFILE	SEARCHABLE	OUTPUT
1	TITLE	*	*
2	DRAWING NUMBER	*	*
	VENDOR CODE	*	
3	DATE	*	*
4	SYSTEM	*	
5	VEHICLE	*	
6	SECTION	*	
7	NUMBER OF SHEETS		
8	SHEET REVISION		*
9	NUMBER OF E.O.'s	**	
10	E.O.'s REFERENCED	*	*
	SHEET SUBFILE		
1	DRAWING NUMBER		
2	SHEET NUMBER		*
3	REVISION		*
4	NUMBER OF E.O.'s		
5	E.O.'s REFERENCED		*

** NUMBER OF E.O.'s CHECKED WHEN PERFORMING A REVISION ACTION DUE SEARCH

FIGURE 6.2.3.2

ENGINEERING ORDER RECORD DESCRIPTION

ITEM NO.	DESCRIPTION	VARIABLE	SIZE	TYPE
1	* E.O. TITLE	ETIT	10 characters/word - 7 words	ALPHA
2	E.O. NUMBER	EON	8 characters	ALPHA
3	E.O. REVISION	EOREV	2 characters	ALPHA
4	E.O. DATE	EDT	6 characters - MMDDYY	NUMERIC
5	E.O. REVISON DATE	ERDT	6 characters - MMDDYY	NUMERIC
6	VEHICLE	EOVEH	4 characters - 2 entries	ALPHA

* NOT PRESENT IN DALLAS DATA

FIGURE 6.2.3.3

SEARCHABLE ENGINEERING ORDER DATA ITEMS

ITEM NO.	DESCRIPTION	SEARCHABLE	OUTPUT
1	E.O. TITLE		*
2	E.O. NUMBER	*	*
3	E.O. REVISION		*
4	E.O. DATE		*
5	E.O. REVISION DATE		*
6	VEHICLE	*	**

** NOT OUTPUT DURING A VEHICLE SEARCH

FIGURE 6.2.3.4

DRAWING/ENGINEERING ORDER SEARCHES

DESCRIPTION	SPECIAL NOTATION
DRAWING NUMBER	
DATE	DALLAS DATA ALL ONE DATE
SYSTEM	NOT APPLICABLE WITH DALLAS
SECTION	NOT APPLICABLE WITH DALLAS
VEHICLE	TWO OPTIONS: E.O.'s OR DRAWINGS
VENDOR CODE	
TITLE	**
REVISION ACTION DUE	FIVE (5) OR MORE E.O.'s
ALL	TWO OPTIONS: E.O.'s OR DRAWINGS
E.O. NUMBER	TWO OPTIONS: E.O.'s OR DRAWINGS

** DALLAS DATA TITLES SOMETIMES CONTAIN SYSTEM AND/OR SECTION

FIGURE 6.2.3.5

6.3 MISCELLANEOUS VARIABLES AND ARRAYS

This Section provides a description of all Miscellaneous Variables and Arrays used by each MAIL LOG subfile program. The following items are given for each:

(A) Variable or Array name
(B) Description of Variable or Array name
(C) Size of Variable or Array in characters
(D) Type of characters

6.3.1 MAIL CORRESPONDENCE

This Section provides a description of all variables and arrays used by the CORRESPONDENCE subroutines 4.1.1 through 4.1.29.

VARIABLE/ARRAY	DESCRIPTION	SIZE	TYPE
A	ARRAY CONTAINING USER ID	30	ALPHA
BLNK	BLANK	2	ALPHA
CD	CURRENT DATE IN JULIAN	DOUBLE PRECISION	NUMERIC
CON	CONTRACT NUMBER	20	ALPHA
COUNTR	DAILY COUNTER STORAGE	4	NUMERIC
D	DESIRED INPUT DATE	6	NUMERIC
DA	DESIRED AUTHOR	28	ALPHA
DDD	DESIRED DOCUMENT DATE	6	NUMERIC
DE	RESPONSIBLE ENGINEER FOR ACTION DUE	3	ALPHA
DF	FILE SYSTEM CODE FOR ACTION DUE	10	ALPHA
DL	DESIRED DOCUMENT LETTER NUMBER	18	ALPHA
DM	DESIRED MAIL STATUS	2	ALPHA
DOC	DOCUMENT RECORD COUNTER FOR EACH SUBJECT FOUND USING WORD SEARCH	2	NUMERIC
DPT	PRINT SUBJECT FOR ACTION DUE	77	ALPHA
DRE	DESIRED RESPONSIBLE ENGINEER	3	ALPHA
DTO	DESIRED ADDRESSEE/TO	32	ALPHA
DW	DESIRED CONTRACT NUMBER	20	ALPHA
FINISH	FLAG FOR REVISION OF DATA BASE COMPLETED	1	NUMERIC
FVD	FIRST VALID DATE	6	NUMERIC
IA	CHANGE IN TRAN SUBFILE FLAG	1	NUMERIC
IACT	ACTION DUE DATE	6	NUMERIC
IAN	USER RESPONSE STORAGE	2	ALPHA
IANN	ANNOUNCEMENT SUBFILE OPEN FLAG	1	NUMERIC
IANS	SUBFILE SELECTOR VALUE	2	NUMERIC
ICON	NUMBER OF WORDS IN SUBJECT TO BE SEARCHED	2	NUMERIC
ICOUN	DESIRED DAILY COUNTER	4	NUMERIC

VARIABLE/ARRAY	DESCRIPTION	SIZE	TYPE
ICOUNT	FILE DAILY RECORD COUNTER	4	NUMERIC
ICURR	CURRENT DATE	6	NUMERIC
ID	DAY	2	NUMERIC
IDES	USER RESPONSE FOR SEARCH MODE	2 char.- 2 entries	ALPHA
IDIFF	DIFFERENCE BETWEEN ICURR AND IACT	6	NUMERIC
IEX	WORDS USED FOR SUBJECT SEARCH	10 char.- 4 entries	ALPHA
IFILE	NUMBER OF FILES TO BE OPENED OR SPECIFIC FILE TO BE INPUT	2	NUMERIC
IHARD	COMPLETE OUTPUT OPTION FLAG	1	NUMERIC
IKNT	NUMBER OF DATA ITEMS TO BE REVISED	2	NUMERIC
ILINE	ARRAY LINE COUNTER	2	NUMERIC
ILP	NUMBER OF DESCRIPTIONS TO BE INPUT	2	NUMERIC
IM	MONTH	2	NUMERIC
IMELE	MEMO LETTER SUBFILE OPEN FLAG	1	NUMERIC
IMIS	MISCELLANEOUS SUBFILE OPEN FLAG	1	NUMERIC
IN	INPUT FILE FUNIT	2	NUMERIC
IO	OUTPUT FILE FUNIT	2	NUMERIC
IOPT	USER RESPONSE STORAGE	2	ALPHA
IPAGE	PAGE LINE COUNTER OR FIRST MATCH FOUND FLAG	2	NUMERIC
IPR	PURCHASE REQUEST SUBFILE OPEN FLAG	1	NUMERIC
IPRINT	TOP OF PAGE FLAG	1	NUMERIC
IR	NUMBER OF A DATA ITEM TO BE REVISED	2	NUMERIC
IREAD	FINISHED READING ALL SUBFILES FLAG	1	NUMERIC
IRR	FIRST TIME SEARCH FLAG	1	NUMERIC
IT	TEMPORARY SUBJECT STORAGE	77	ALPHA
ITEM	DATA ITEM NUMBER INDICATOR	2	NUMERIC
ITRSP	TRANSMITTAL SUBFILE OPEN FLAG	1	NUMERIC
ITWFX	TWX SUBFILE OPEN FLAG	1	NUMERIC
IY	YEAR	2	NUMERIC
JOUT	SPOOL NEW DATA OUTPUT AGAIN FLAG	1	NUMERIC
KNT	DOCUMENTS FOUND COUNTER	4	NUMERIC

VARIABLE/ARRAY	DESCRIPTION	SIZE	TYPE
KT	DAILY COUNTER FOR ACTION DUE	4	NUMERIC
LEN	NUMBER OF CHARACTERS/WORD	2	NUMERIC
LVD	LAST VALID DATE	6	NUMERIC
R	INPUT-REVISE FLAG	1	NUMERIC
T1	SUBJECT SEARCH WORD COUNTER	2	NUMERIC
TFVD	FIRST VALID DATE IN JULIAN	DOUBLE PRECISION	NUMERIC
TIM	DOCUMENT DATE IN JULIAN	DOUBLE PRECISION	NUMERIC
TJ	RETURN VALUE FROM JTIME SUBROUTINE	DOUBLE PRECISION	NUMERIC
TJUL	RETURN VALUE FROM JTIME SUBROUTINE	DOUBLE PRECISION	NUMERIC
TLVD	LAST VALID DATE IN JULIAN	DOUBLE PRECISION	NUMERIC
WA	DESIRED WA/ID CODE	8	ALPHA

6.3.2 DESIGN INFORMATION RELEASE/REPORT

This Section provides a description of all variables and arrays used in the DIR/REPORT subroutines 4.2.1 through 4.2.16.

VARIABLE/ARRAY	DESCRIPTION	SIZE	TYPE
A	ARRAY CONTAINING USER ID	30	ALPHA
BLNK	BLANK	2	ALPHA
CON	CONTRACT NUMBER	20	ALPHA
D	DATE	6	NUMERIC
DC	DESIRED CONTRACT NUMBER	20	ALPHA
DIRR	DIR/REPORT NUMBER	14	ALPHA
DOC	DOCUMENT RECORD COUNTER FOR EACH DIR/ REPORT FOUND DURING WORD TITLE SEARCH	2	NUMERIC
DS	DESIRED SYSTEM	12	ALPHA
DWA	DESIRED WA NUMBER	8	ALPHA
FINISH	FLAG FOR REVISION OF DATA BASE COMPLETED	1	NUMERIC
IANS	USER RESPONSE STORAGE	1	ALPHA
IC	RETURN ERROR CODE	2	NUMERIC
ICON	NUMBER OF WORDS TO SEARCH IN TITLE	2	NUMERIC
IDIR	DIR/REPORT NUMBER STORAGE	14	ALPHA
IDR	DIR/REPORT NUMBER STORAGE	14	ALPHA
IKNT	NUMBER OF RECORD TO BE ARCHIVED	2	NUMERIC
IN	INPUT FILE FUNIT	2	NUMERIC
IO	OUTPUT FILE FUNIT	2	NUMERIC
IOPT	USER RESPONSE STORAGE	2	ALPHA
IPAS	PASSWORD FOR UFD ATTACHMENT	2	ALPHA
IR	NUMBER OF A DATA ITEM TO BE REVISED	2	NUMERIC
IT	FILE TYPE OR TEMPORARY TITLE	2 or 77	ALPHA
ITY	FILE TYPE RETURN CODE	2	NUMERIC
KNT	DIR/REPORT FOUND COUNTER	4	NUMERIC
LEN	NUMBER OF CHARACTERS/WORD	2	NUMERIC
R	INPUT-REVISE FLAG	1	NUMERIC

VARIABLE/ARRAY	DESCRIPTION	SIZE	TYPE
T1	TITLE SEARCH WORD COUNTER	1	NUMERIC
VEH1	DESIRED VEHICLE	4	ALPHA
VKNT	VEHICLE FOUND COUNTER	2	NUMERIC
VS	FIRST AND LAST VALID VEHICLE	8	ALPHA
WA	WORK AUTHORIZATION/ID CODE	8	ALPHA

6.3.3 DRAWING/ENGINEERING ORDER

This Section provides a description of all variables and arrays used in the DRAWING/E.O. subroutines 4.3.1 through 4.3.25.

VARIABLE/ARRAY	DESCRIPTION	SIZE	TYPE
A	ARRAY CONTAINING USER ID	30	ALPHA
BLNK	BLANK	2	ALPHA
COD	VENDOR CODE PORTION OF THE DRAWING NUMBER	3	ALPHA
D	DATE DESIRED	6	NUMERIC
DOC	DOCUMENT RECORD COUNTER FOR EACH DRAWING FOUND DURING WORD TITLE SEARCH	2	NUMERIC
DS	SYSTEM DESIRED	12	ALPHA
EOKNT	E.O. COUNTER FOR EACH SHEET	2	NUMERIC
FINISH	FLAG FOR REVISION OF DATA BASE COMPLETED	1	NUMERIC
FIRST	FLAG FOR FIRST SHEET OPERATION; DRAW SUBFILE	1	NUMERIC
IANS	USER RESPONSE STORAGE	1	ALPHA
IC	RETURN ERROR CODE	2	NUMERIC
ICODE	DESIRED VENDOR CODE	3	ALPHA
ICON	NUMBER OF WORDS TO SEARCH IN TITLE	2	NUMERIC
IDES	USER RESPONSE STORAGE	2	ALPHA
IDR	TEMPORARY DRAWING NUMBER STORAGE	14	ALPHA
IDRAW	DRAWING NUMBER DESIRED	14	ALPHA
IEO	E.O. NUMBER DESIRED	8	ALPHA
IEOUP	E.O. UPDATE FLAG FOR NEW REVISION	1	NUMERIC
IEX	WORDS OF TITLE SEARCHED	10 char.- 4 entries	ALPHA
II	NUMBER OF E.O.'s ON 1ST SHEET	2	NUMERIC
IIEORF	REFERENCED E.O.'s FOR NEW SHEET	8 char.- 10 entries	ALPHA
IINEO	NUMBER OF E.O.'s FOR NEW SHEET	2	NUMERIC
IIREV	REVISION FOR NEW SHEET	2	ALPHA
IISHTN	SHEET NUMBER FOR NEW SHEET	4	NUMERIC
IKNT	NUMBER OF DATA ITEMS TO BE REVISED	2	NUMERIC
ILINE	OUTPUT PAGE LINE COUNTER	2	NUMERIC

VARIABLE/ARRAY	DESCRIPTION	SIZE	TYPE
IN	INPUT FILE FUNIT	2	NUMERIC
INEO	NUMBER OF E.O.'s FOR SHEET	2	NUMERIC
IO	OUTPUT FILE FUNIT	2	NUMERIC
IOPT	USER RESPONSE STORAGE	2	ALPHA
IPAGE	NEW PAGE FLAG	1	NUMERIC
IPAS	PASSWORD FOR UFD ATTACHMENT	6	ALPHA
IR	NUMBER OF A DATA ITEM TO BE REVISED	2	NUMERIC
ISECT	SECTION DESIRED	12	ALPHA
ISHT	SHEET NUMBER	4	NUMERIC
ISHTN	SHEET NUMBER	4	NUMERIC
IT	FILE TYPE OR TEMPORARY TITLE	2 or 77	ALPHA
ITY	FILE TYPE RETURN CODE	2	ALPHA
KNT	DRAWINGS FOUND COUNTER	4	NUMERIC
KNTT	SHEETS OF DRAWING FOUND COUNTER	2	NUMERIC
LEN	NUMBER OF CHARACTERS/WORD	2	NUMERIC
NEWSHT	NEW SHEET FLAG	1	NUMERIC
T1	TITLE SEARCH WORD COUNTER	1	NUMERIC
TTIT	TEMPORARY TITLE	77	ALPHA
VEH1	VEHICLE DESIRED	4	ALPHA
VS	FIRST AND LAST VALID VEHICLES	4 char.- 2 entries	ALPHA

6.3.4 GENERAL

This Section provides a description of all variables and arrays used in the general subroutines 4.4.1 through 4.4.7.

VARIABLE/ARRAY	DESCRIPTION	SIZE	TYPE
ACOMMA	COMMA CHARACTER	3	NUMERIC
AERASE	ERASE CHARACTER	3	NUMERIC
AH	ACTUAL HOURS	2	NUMERIC
AKILL	KILL CHARACTER	3	NUMERIC
AMIN	ACTUAL MINUTES	2	NUMERIC
ANL	NEW LINE CHARACTER	3	NUMERIC
ARRAY	ARRAY CONTAINING A TITLE WORD	30	ALPHA
ASCOL	SEMICOLON CHARACTER	3	NUMERIC
ASP	SPACE CHARACTER	3	NUMERIC
ASPSP	RETURN CHARACTER	3	NUMERIC
BLNK	BLANK	2	ALPHA
BUF	TEMPORARY TITLE BUFFER	76	ALPHA
BUFF	TEMPORARY TITLE BUFFER	76	ALPHA
CON	CONTRACT NUMBER	20	ALPHA
CHAR	CHARACTER FROM TERMINAL	1	ALPHA
IA	RETURN ARRAY CONTAINING USER ID	30	ALPHA
IAI	RETURN ARRAY CONTAINING USER ID	30	ALPHA
IDM	MINUTES OF DAY	2	NUMERIC
IH	HOURS OF DAY	2	NUMERIC
IMIN	TEMPORARY MINUTE STORAGE	2	NUMERIC
IMM	MINUTES PASSED	2	NUMERIC
LEN	NUMBER OF CHARACTERS/WORD	2	NUMERIC
NAME	TITLE WORD BUILT	10	ALPHA
PEDL	NUMBER OF CHARACTER	2	NUMERIC
TIL	TEMPORARY TITLE BUILT	77	ALPHA
WA	WORK AUTHORIZATION/ID CODE	8	ALPHA

6.4 TABLES

This Section describes the tables used by the MAIL LOG software.

6.4.1 SYSCOM KEYS.F

Table SYSCOM KEYS.F represents the File System Key Definitions as shown:

```
-----NOLIST
C
C     TABSET 6 11 28 69
C
      INTEGER*2 K$READ,K$WRIT,K$POSN,K$TRNC,K$RPOS,K$PRER,K$PREA,
     X    K$POSR,K$POSA,K$CONV,K$RDWR,K$CLOS,K$DELE,K$EXST,
     X    K$IUFD,K$ISEG,K$CACC,K$NSAM,K$NDAM,K$NSGS,K$NSGD,
     X    K$CURR,K$IMFD,K$ICUR,K$SETC,K$SETH,K$ALLD,K$SPOS,
     X    K$GOND,K$MSIZ,K$MENT,K$ENTR,K$SENT,K$GPOS,K$UPOS,
     X    K$PROT,K$DTIM,K$DMPB,K$NRTN,K$SRTN,K$IRTN
C
      PARAMETER
     X
     X /*******************************************************/
     X /*
     X /*
     X /*       KEY DEFINITIONS
     X /*
     X /*
     X /********************* PRWF$$ *********************
     X /*                 ****** RWKEY  ******
     X    K$READ = :1,      /* READ
     X    K$WRIT = :2,      /* WRITE
     X    K$POSN = :3,      /* POSITION ONLY
     X    K$TRNC = :4,      /* TRUNCATE
     X    K$RPOS = :5,      /* READ CURRENT POSITION
     X /*                 ****** POSKEY ******
     X    K$PRER = :0,      /* PRE-POSITION RELATIVE
     X    K$PREA = :10,     /* PRE-POSITION ABSOLUTE
     X    K$POSR = :20,     /* POST-POSITION RELATIVE
     X    K$POSA = :30,     /* POST-POSITION ABSOLUTE
     X /*                 ****** MODE   ******
     X    K$CONV = :400,    /* CONVENIENT NUMBER OF WORDS
     X /*
     X /********************* SRCH$$ *********************
     X /*                 ****** ACTION ******
     X /* K$READ = :1,      /* OPEN FOR READ
     X /* K$WRIT = :2,      /* OPEN FOR WRITE
     X    K$RDWR = :3,      /* OPEN FOR READING AND WRITING
     X    K$CLOS = :4,      /* CLOSE FILE UNIT
     X    K$DELE = :5,      /* DELETE FILE
     X    K$EXST = :6,      /* CHECK FILE'S EXISTENCE
```

```
X /*                  ****** REF     ******
X     K$IUFD = :0,       /* FILE ENTRY IS IN UFD
X     K$ISEG = :100,     /* FILE ENTRY IS IN SEGMENT DIRECTORY
X     K$CACC = :1000,    /* CHANGE ACCESS
X /*                  ****** NEWFIL ******
X     K$NSAM = :0,       /* NEW SAM FILE
X     K$NDAM = :2000,    /* NEW DAM FILE
X     K$NSGS = :4000,    /* NEW SAM SEGMENT DIRECTORY
X     K$NSGD = :6000,    /* NEW DAM SEGMENT DIRECTORY
X     K$CURR = :177777,/* CURRENTLY ATTACHED UFD
X /*
X /********************* ATCH$$ *********************
X /*                  ****** KEY     ******
X     K$IMFD = :0,       /* UFD IS IN MFD
X     K$ICUR = :2,       /* UFD IS IN CURRENT UFD
X /*                  ****** KEYMOD ******
X     K$SETC = :0,       /* SET CURRENT UFD (DO NOT SET HOME)
X     K$SETH = :1,       /* SET HOME UFD (AS WELL AS CURRENT)
X /*                  ****** NAME    ******
X     K$HOME = :0,       /* RETURN TO HOME UFD (KEY=K$IMFD)
X /*                  ****** LDISK   ******
X     K$ALLD = :100000,/* SEARCH ALL DISKS
X /* K$CURR = :177777,/* SEARCH MFD OF CURRENT DISK
X /*
X /********************* SGDR$$ *********************
X /*                  ****** KEY     ******
X     K$SPOS = :1,       /* POSITION TO ENTRY NUMBER IN SEGDIR
X     K$GOND = :2,       /* POSITION TO END OF SEGDIR
X     K$GPOS = :3,       /* RETURN CURRENT ENTRY NUMBER
X     K$MSIZ = :4,       /* MAKE SEGDIR GIVEN NR OF ENTRIES
X     K$MVNT = :5,       /* MOVE FILE ENTRY TO NEW POSITION
X /*
X /********************* RDEN$$ *********************
X /*                  ****** KEY     ******
X /* K$READ = :1,       /* READ NEXT ENTRY
X     K$RSUB = :2,       /* READ NEXT SUB-ENTRY
X /* K$GPOS = :3,       /* RETURN CURRENT POSITION IN UFD
X     K$UPOS = :4,       /* POSITION IN UFD
X /*
X /********************* SATR$$ *********************
X /*                  ****** KEY     ******
X     K$PROT = :1,       /* SET PROTECTION
X     K$DTIM = :2,       /* SET DATE/TIME MODIFIED
X     K$DMPB = :3,       /* SET DUMPED BIT
X /*
X /********************* ERRPR$$ ********************
X /*                  ****** KEY     ******
X     K$NRTN = :0,       /* NEVER RETURN TO USER
X     K$SRTN = :1,       /* RETURN AFTER START COMMAND
X     K$IRTN = :2        /* IMMEDIATE RETURN TO USER
X /*
X /*
X /***********************************************************
```

6.4.2 CTAB

Table CTAB represents the WORK AUTHORIZATION/ID CODE - CONTRACT NUMBER TABLE. This table is referenced in operation of the DIR/REPORT and CORRESPONDENCE subfiles only.

WA/ID CODE	CONTRACT/TASK	WA/ID CODE	CONTRACT/TASK
2902	I.R.&D.	3219	NAS1-6049
2903	BID/PROPOSAL	3221	NAS1-5610
3050	NAS1-1295	3223	NAS1-5883
3079	NAS1-900	3228	NAS1-5880
3081	NAS1-1113	3232	NAS1-6020
3082	NAS1-1255	3234	NAS1-6748
3089	NAS1-1255	3242	NAS1-6020
3091	NAS1-1481	3245	NAS1-6935
3116	NAS1-1807	3246	NAS1-6935
3117	NAS1-900	3258	NAS1-6868
3118	NAS1-1928	3263	NAS1-6957
3119	NAS1-1481	3270	NAS1-7199
3123	NAS1-2165	3275	NAS1-6935
3125	NAS1-2189	3282	NAS1-7256
3126	NAS1-1113	3284	NAS1-7256
3129	NAS1-2455	3288	A.F.4701-68-C-0252
3130	NAS1-1295	3293	NAS1-7256
3132	NAS1-1946	3300	NAS1-9258
3133	NAS1-1295	3302	NAS1-6935
3154	NAS1-2650	3302A	NAS1-6935-36
3157	NAS1-2165	3302B	NAS1-6935-41
3160	NAS1-2617	3303	ARMY-DAHC60-70-C0041
3164	NAS1-3420	3305	A.F.4701-69-C-0392
3165	NAS1-3420	3313	NAS1-9994
3170	NAS1-3589	3329	NAS1-10534
3171	NAS1-3615	3333	NAS1-10000
3172	NAS1-3683	3334	NAS1-10000/TASK J
3176	NAS1-3657	3335	NAS1-10000/TASK M
3180	NAS1-3899	3336	NAS1-10000/TASK R
3182	NAS1-3899	3337	NAS1-10000/TASK S
3183	NAS1-3915	3340	NAS1-10500
3187	NAS1-4325	3341	NAS1-10500
3192	NAS1-3589	3342	NAS1-10500
3195	NAS1-5539	3343	NAS1-10500
3196	NAS1-4899	3347	NAS1-10848
3202	NAS1-4664	3354	NAS1-11000
3207	NAS1-4664	3359	NAS1-10000/TASK W
3210	NAS1-5592	3362	NAS1-10000/TASK V

WA/ID CODE	CONTRACT/TASK
3381	NAS1-12500
3382	NAS1-12500/TASK J
3383	NAS1-12500/TASK M
3384	NAS1-12500/TASK R
3385	NAS1-12500/TASK S
3507	NAS1-12500/TASK W
3525	NAS1-15000
3526	NAS1-15100
3527	NAS1-15100
3532	NAS1-14500
3801	NAS1-6024
3804AAAJ	NAS1-3405
3804AABM	NAS1-6020
3804EABB	NAS1-5369
3804EABN	NAS1-7888
3809AAAB	NAS1-1013
3809AAAD	NAS1-2215
3809AAAE	NAS1-2478
3809AAAF	NAS1-553
3809AAAH	NAS1-3311
3809AAAM	NAS1-4494
3809AAAN	NAS1-4664
3809BAAL	NAS1-1255
3809BAAM	NAS1-1255
3809EABP	NAS1-5539
3811	NAS1-2165
3812	NAS1-3420
3859	NAS1-3420

7.0 MAIL LOG OUTPUTS

Outputs generated by the SPADS MAIL LOG program are described and exhibited in Section 7.0 of the Program Summary and Specification Manual. If this document is not available, a similar set of outputs and descriptions may be found in Section 5.0 of the Operating Instructions Manual.

8.0 EXTERNAL CALLS

The purpose of this section is to provide a reference list for all subroutines used by, but external to, the SPADS MAIL LOG software package.

8.1 SYSTEM SOFTWARE ROUTINES

A description of each of the following routines may be found in the PRIME REFERENCE GUIDES:

PDR3110 -	"File Management System"	(FMS)
PDR3106 -	"Software Library"	(SL)
PDR3057 -	"Fortran Programmer's Guide"	(FPG)

ROUTINE	FMS	SL	FPG
ATCH$$	X	X	X
BREAK$	X	X	
C1IN	X	X	
CNAM$$	X	X	X
COMI$$	X	X	X
ENDFILE			X
EXIT	X		X
LS		X	X
LT		X	X
RECYCL	X	X	
RESU$$	X	X	X
REWIND			X
RT		X	X
SRCH$$	X	X	X
T1OU		X	
TIMDAT	X		

8.2 MISCELLANEOUS ROUTINES

The following subroutines are used by the SPADS MAIL LOG software package, but are not found within the PRIMOS operation system. These routines are defined at load time and shown in Appendix E.

8.2.1 CLEAR

This subroutine is used to clear the user terminal. Appendix E, Figure 1 depicts the source code for this subroutine.

8.2.2 PAUS

This subroutine performs the following functions:

If many document records are found during a search and it is observed that needed information will soon disappear from the screen, the user may temporarily stop terminal display by depressing the space bar. Terminal display may be restarted by depressing the 'Q' key.

At this time the source code for this subroutine is not available. However, a routine used by this PAUS routine, CHKLIN, is available. Appendix E, Figure 2 depicts the source code for the Check Line subroutine.

8.2.3 JTIME

This subroutine is only used in the MAIL CORRESPONDENCE portion of program. This procedure converts a given date, month, date, and year, into Julian time. Appendix E, Figure 3 depicts the source code for this subroutine.

9.0 SPECIAL SUPPORT ROUTINES

The main body of the DRAWING/E.O. subfile data must be converted from magnetic tape to disk and reformatted for the SPADS MAIL LOG data base subfile structure. See Section 6.1.1.3.

To accomplish this conversion, the following steps and special support routines are used:

(a) MAGRST data from tape to disk; designate data as DDATA file.

(b) Manually examine the DDATA file using the EDITOR. Delete all records referencing to SEI's. Note: SEI's are usually the first 25 to 50 records on the file.

(c) Begin execution of conversion by using routine PHASE 1. This is accomplished by entering R *PHASE 1. This routine picks out the necessary data from the Dallas data and builds a new data file called NEW.

(d) PHASE 2 is executed in the same manner as PHASE 1. This routine modifies the vehicle numbers and builds a searchable title. The procedure also formats all data for data base subfile compatibility. The new data file constructed during this phase is called FINAL.

(e) PHASE 2 has a checking routine called TTEST. This routine displays on the terminal each data record within FINAL.

(f) PHASE 3 is actually made up of several subroutines which build the DRAW and SHEET subfiles from the FINAL data file. Each subfile has its own checking routine:

(1) DRAW is checked by TEST. The TEST routine builds an output file called OUT containing all DRAW data items for each data record.

(2) SHEET is checked by CHECKS. The CHECKS routine builds an output file called SHT containing all SHEET data items for each data record.

The output files must be manually spooled.

(g) PHASE 4 must be executed overnight due its long running time. This routine builds the Engineering Order data file, EO, from the FINAL data file. Each E.O. number entered is checked for a previous entry. This process becomes progressively more time consuming as the E.O. data file builds and exceeds 1500 records.

(h) All data subfiles must be transferred from the TRANSPOSEDRAW UFD to the F_DRAW UFD. After the old subfiles have been deleted or their names changed.

(i) The E.O. data file may now be checked by executing an E.O. PRINT ALL search in the MAIL LOG program.

Note that all these routines are located in the TRANSPOSEDRAW UFD in MFD 1. The source code for each of these routines are given in Appendix F.

Figure 1	PHASE 1
Figure 2	PHASE 2
Figure 3	PHASE 3
Figure 4	PHASE 4
Figure 5	TTEST
Figure 6	TEST
Figure 7	CHECKS