D. (CONTINUED)

BEGINNING AT LOCATION 500, THE A-ADDRESSES OF THE MOVE AND COMPARE INSTRUCTIONS ARE STARTED AT 779. THE PRINT, PUNCH, AND READ AREAS ARE THEN CLEARED AND A COMMAND IS GIVEN TO READ A PRE-PUNCHED CARD AT THE PUNCH FEED READ STATION, PUNCH THE CARD AHEAD OF IT, AND BRANCH. IF NO BRANCH, AN ERROR IS INDICATED WITH THE MACHINE STOPPING AT LOCATION 555. IF BRANCH, THE PROGRAM BRANCHES TO SELECT THE CARD IN STACKER 4 AND MOVE THE READ AREA TO THE PRINT AND PUNCH AREAS. THE INFORMATION IN THE PRINT AREA SHOULD BE AN EXACT IMAGE OF THE INFORMATION IN THE READ AREA WHICH WILL LATER BE COMPARED WITH THE RIPPLE TABLE IN STORAGE. THE INFORMATION IN THE PUNCH AREA, HOWEVER, IS RE-ARRANGED IN THE FOLLOWING MANNER:

COLUMNS 1-40 ARE STORED IN PUNCH POSITIONS 141-180
COLUMNS 41-80 ARE STORED IN PUNCH POSITIONS 101-140

NOTE: THIS ARRANGEMENT PRODUCES A CRISSCROSS PATTERN WHEN THE CARD IS PUNCHED FOR THE SECOND TIME.

AT THIS POINT A COMPARISON IS MADE BETWEEN THE INFORMATION IN THE TABLE AND THE INFORMATION IN THE READ AREA.

NEXT, A READ COMMAND IS GIVEN.

A BRANCH UNEQUAL IS THEN USED TO CHECK THE PUNCH FEED READ OPERATION FOR CORRECT TRANSFER OF INFORMATION TO THE READ AREA. AN EQUAL INDICATES NO ERROR.

THE LOOP IS REPEATED UNTIL ALL DETAIL CARDS ARE READ.

E. STOPS

STORAGE ADDR. REG	TYPE OF HALT
500	TO ALLOW STKR. 4 CARDS TO BE PLACED IN PUNCH HOPPER.
555	THE 4 555 R INSTRUCTION FAILED TO BRANCH.
690	COMPARE ERROR BETWEEN TABLE AND READ IN AREA OCCURRED.

F. PRINTOUTS

TWO LINES ARE PRINTED. THE FIRST LINE WITH CARD NO. REPRESENTS THE CARD READ, AND THE SECOND LINE REPRESENTS THE TABLE. PRINTING FOR CORRECT RESULTS IS OBTAINED WHEN SENSE SWITCH C IS SET TO THE ON POSITION. THE FIRST LINE IS ALWAYS PRINTED WITH A PRINT PUNCH-FEED-READ INSTRUCTION (6R).