```
                    RDBUFF    0E,BUFFER,LENGTH,,80


30                  CLEAR     X              CLEAR LOOP COUNTER
35                  CLEAR     A
47                  +LDT      #80            SET MAXIMUM RECORD LENGTH
50      $ABLOOP     TD        =X'0E'         TEST INPUT DEVICE
55                  JEQ       $ABLOOP        LOOP UNTIL READY
60                  RD        =X'0E'         READ CHARACTER INTO REG A
75                  STCH      BUFFER,X       STORE CHARACTER IN BUFFER
80                  TIXR      T              LOOP UNLESS MAXIMUM LENGTH
87                  JLT       $ABLOOP          HAS BEEN REACHED
90      $ABEXIT     STX       LENGTH         SAVE RECORD LENGTH
```

(c)


```
                    RDBUFF    F1,BUFF,RLENG,04


30                  CLEAR     X              CLEAR LOOP COUNTER
35                  CLEAR     A
40                  LDCH      =X'04'         SET EOR CHARACTER
42                  RMO       A,S
45                  +LDT      #4096          SET MAX LENGTH = 4096
50      $ACLOOP     TD        =X'F1'         TEST INPUT DEVICE
55                  JEQ       $ACLOOP        LOOP UNTIL READY
60                  RD        =X'F1'         READ CHARACTER INTO REG A
65                  COMPR     A,S            TEST FOR END OF RECORD
70                  JEQ       $ACEXIT        EXIT LOOP IF EOR
75                  STCH      BUFF,X         STORE CHARACTER IN BUFFER
80                  TIXR      T              LOOP UNLESS MAXIMUM LENGTH
85                  JLT       $ACLOOP          HAS BEEN REACHED
90      $ACEXIT     STX       RLENG          SAVE RECORD LENGTH
```

(d)

Figure 4.8 *(cont'd)*