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UNIVERSITY OF DURHAM

DEPARTMENT OF GEOGRAPHY

THE CHARACTERISTICS OF A NATIONAL DIGITAL TOPOGRAPHIC DATABASE

ANNEXURES TO THE MAIN TEXT OF A DISSERTATION PRESENTED IN PARTIAL FULFILMENT OF THE REQUIREMENTS
FOR THE DEGREE OF MASTER OF SCIENCE IN SPATIAL DATA ANALYSIS IN GEOGRAPHY

TIMOTHY A. ADAMS B.SC.

GRADUATE SOCIETY

SEPTEMBER 1979

4

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AAAAAAAAA    NN        NN  NN          NN  EEEEEEEEEEEE  XX          XX              11
AAAAAAAAAAA   NNN       NN  NNN         NN  EEEEEEEEEEEE  XX          XX              111
AA       AA   NNNN      NN  NNNN        NN  EE              XX      XX               1111
AA       AA   NN NN     NN  NN NN       NN  EE               XX    XX                 11
AA       AA   NN  NN    NN  NN  NN      NN  EE                XX  XX                  11
AAAAAAAAAAAA  NN   NN   NN  NN   NN     NN  EEEEEEEE            XXXX                   11
AAAAAAAAAAAA  NN    NN  NN  NN    NN    NN  EEEEEEEE            XXXX                   11
AA       AA   NN     NN NN  NN     NN   NN  EE                XX  XX                   11
AA       AA   NN      NNNN  NN      NNNN    EE               XX    XX                  11
AA       AA   NN       NNN  NN       NNN    EE              XX      XX                 11
AA       AA   NN        NN  NN        NN  EEEEEEEEEEEE  XX          XX          1111111111
AA       AA   NN         N  NN         N  EEEEEEEEEEEE  XX          XX          1111111111
```
5

```
1     C
2     C
3     C***********************************************************************
4     C
5     C            T H I S   I S   P R O G R A M   B Y F E A T U R E   (VERSION 2)
6     C
7     C
8     C            WRITTEN BY T. A. ADAMS - UNIVERSITY OF DURHAM -  (13 JANUARY 1979)
9     C
10    C
11    C            THIS IS A PROGRAM TO MANIPULATE ORDNANCE SURVEY DIGITAL DATA IN
12    C            DMC FORMAT
13    C
14    C            OPTIONS ARE AVAILABLE TO 'DELETE' OR 'SELECT' USER DEFINED FEATURES
15    C            UP TO 20 FEATURE TYPES CAN BE MANIPULATED AT ANY TIME
16    C
17    C            DMC FORMAT IS PRESERVED THROUGHOUT
18    C
19    C            INPUT IS CURRENTLY ON LOGICAL UNIT 3 ATTACHED TO 'MAG'
20    C            OUTPUT IS CURRENTLY ON LOGICAL UNIT 2 ATTACHED TO 'NEW'
21    C
22    C
23    C***********************************************************************
24    C
25    C
26    C
27          DIMENSION FC(20)
28          DATA FOUR/'  -4'/,FIVE/'  -5'/,TWO/'  -2'/,THREE/'  -3'/,BL/'    '
29         1/,DEL/'DELE'/
30          NEW=2
31          MAG=3
32          IN=5
33          LP=6
34          KOUNT=0
35          IFLAG=0
36          JFLAG=0
37    C
38    C------DETERMINATION OF WHETHER USER REQUIRES TO SELECT
39    C------OR DELETE SPECIFIC F/CODES
40    C
41          WRITE(LP,2)
42        2 FORMAT(///,' ARE YOU TO DELETE OR SELECT ?')
43          READ(IN,5)WHAT
44        5 FORMAT(A4)
45          IF(WHAT.EQ.DEL)JFLAG=1
46    C
47    C------HOW MANY F/CODES TO BE HANDLED ?
48    C
49          WRITE(LP,10)
50       10 FORMAT(' HOW MANY FEATURE EXTRACTIONS  (I3)')
51          READ(IN,11)NO
52       11 FORMAT(I3)
53    C
54    C------IS THE ASSIGNED NUMBER VALID ?
55    C
56          IF(NO.LE.0)STOP 111
57          IF(NO.GT.20)WRITE(LP,12)
58       12 FORMAT(' LIMITS EXCEEDED---20 EXTRACTIONS ASSUMED')
59          IF(NO.GT.20)NO=20
60          WRITE(LP,13)
61       13 FORMAT(' TYPE IN EACH FEATURE CODE (I4) FORMAT')
62    C
63    C------INPUT OF USER DEFINED F/CODE LIST
64    C
65          DO 15 I=1,NO
66       15 READ(IN,14)FC(I)
67       14 FORMAT(A4)
68    C
69    C------ARE WE AT THE START OF A DIGITAL SHEET ?
70    C
71          READ(MAG,16)ICHAR1,ICHAR2
72       16 FORMAT(2I4)
73          IF(ICHAR1.EQ.-1)GOTO18
74          WRITE(LP,17)
75       17 FORMAT(' JOB ABORTED...-1 CODE EXPECTED BUT NOT FOUND')
76          STOP 999
77    C
78    C------INPUT OF OS DATA IN DMC FORMAT
79    C
80       18 WRITE(NEW,16)ICHAR1,ICHAR2
81          READ(MAG,19)IRE,IRN,IGRID,ISCALE
82       19 FORMAT(I8/I8/I8/I8)
83          WRITE(NEW,19)IRE,IRN,IGRID,ISCALE
84    C
85    C
86    C
87       21 READ(MAG,20,END=300)CHAR1,CHAR2
88       20 FORMAT(2A4)
89          IF(CHAR1.EQ.TWO)GOTO200
90          IF(CHAR1.EQ.THREE)GOTO300
91          IF(CHAR1.EQ.FOUR)GOTO400
92          IF(CHAR1.EQ.FIVE)GOTO500
93          IF(IFLAG.EQ.1)WRITE(NEW,20)CHAR1,CHAR2
94          GOTO21
95      200 WRITE(NEW,20)CHAR1,CHAR2
96          WRITE(LP,201)
97      201 FORMAT(' END OF SHEET DETECTED')
98          WRITE(NEW,20)THREE,BL
99          GOTO777
100     300 WRITE(LP,301)
101     301 FORMAT(' END OF FILE DETECTED BEFORE END OF SHEET...-2 INSERTED')
102         WRITE(NEW,20)TWO,BL
103         WRITE(NEW,20)THREE,BL
104         GOTO777
105     400 READ(MAG,20)TYPE1,TYPE2
106         IFLAG=0
107         DO 401 I=1,NO
108     401 IF(TYPE2.EQ.FC(I))IFLAG=1
109         IF(JFLAG.EQ.0)GOTO407
110         IF(IFLAG)407,403,404
111     403 IFLAG=1
112         GOTO407
113     404 IFLAG=0
114     407 IF(IFLAG.EQ.1)WRITE(NEW,20)CHAR1,CHAR2
115         IF(IFLAG.EQ.1)WRITE(NEW,20)TYPE1,TYPE2
116         IF(IFLAG.EQ.1)KOUNT=KOUNT+1
117         GOTO21
118     500 IF(IFLAG.EQ.1)WRITE(NEW,20)CHAR1,CHAR2
```

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    120          GOTO21
    121      777 WRITE(LP,778)KOUNT
    122      778 FORMAT(/////,' JOB COMPLETED ',I6,' FEATURE CODES EXTRACTED',//)
    123          STOP 777
    124          END
END OF FILE
```

```
AAAAAAAAA     NN          NN  NN          NN  EEEEEEEEEEEE  XX          XX              2222222222
AAAAAAAAAAA    NNN         NN  NNN         NN  EEEEEEEFEEEEE  XX          XX            222222222222
AA        AA   NNNN        NN  NNNN        NN  EE              XX        XX             22          22
AA        AA   NN NN       NN  NN NN       NN  EE               XX      XX                         22
AA        AA   NN  NN      NN  NN  NN      NN  EE                XX    XX                           22
AAAAAAAAAAA    NN   NN     NN  NN   NN     NN  EEEEEEEE           XXXX                              22
AAAAAAAAAAA    NN    NN    NN  NN    NN    NN  EEEEEEEE           XXXX                            22
AA        AA   NN     NN   NN  NN     NN   NN  EE               XX    XX                        22
AA        AA   NN      NNNN NN  NN      NNNN NN  EE            XX      XX                      22
AA        AA   NN       NNN NN  NN       NNN NN  EE           XX        XX                   22
AA        AA   NN        NN  NN  NN        NN  EEEEEEEEEEEE  XX          XX            222222222222
AA        AA   NN         N  NN            N  EEEEEEEEEEEE  XX          XX            222222222222
```

8

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          REAL*8 SUMX1(271),SUMX2(271),SUMX3(271),SUMX4(271)
      1   DIMENSION CCOUNT(17),FCOUNT(271),FDCONT(271)
      2   DIMENSION PREFIX(13,7),QUADR(2,2)
      3   DIMENSION FLINES(271),
      4  1AVE(271),SD(271),SKEW(271),RKUR(271),FDMAX(271),FDMIN(271)
      5   DIMENSION FPTS(271)
      6   DIMENSION NDATE(2)
      7 C
      8 C*******************************************************************
      9 C
     10 C         PROGRAM TO ANALYSE O.S. DIGITAL DATA AS PART OF M.SC. THESIS.
     11 C         WRITTEN BY T.A.ADAMS - UNIVERSITY OF DURHAM. (MARK 4 - 20-06-79)
     12 C         INPUT OF THE MAP DATA IS CURRENTLY ON LOGICAL UNIT 3
     13 C         (CAN BE ALTERED WITH DIFFERENT ASSIGNMENT TO 'MAG')
     14 C         OUTPUT VIA LINE PRINTER IS CURRENTLY ON LOGICAL UNIT 2
     15 C         (CAN BE ALTERED WITH DIFFERENT ASSIGNMENT TO 'LP')
     16 C         INPUT OF THE PROGRAM COMMANDS IS CURRENTLY ON LOGICAL UNIT 5
     17 C         (CAN BE ALTERED WITH DIFFERENT ASSIGNMENT TO 'ITT')
     18 C         OUTPUT VIA TERMINAL FOR PROGRAM MESSAGES IS CURRENTLY
     19 C         ON LOGICAL UNIT 6
     20 C         (CAN BE ALTERED WITH DIFFERENT ASSIGNMENT TO 'MESS')
     21 C         INPUT/OUTPUT TO LOGICAL UNIT 10 IS A DISK FILE TO STORE
     22 C         CUMULATIVE DIGITAL DATA STATISTICS --
     23 C         INPUT/OUTPUT TO LOGICAL UNIT 11 IS A DISK FILE TO STORE
     24 C         THE SHEET NAMES OF EACH MAP AS IT HAS BEEN PROCESSED
     25 C         INPUT/OUTPUT TO LOGICAL UNIT 12 IS A DISK FILE TO STORE
     26 C         DIGITAL DATA STATISTICS PER MAP SHEET FOR INDIVIDUAL PULLOUT
     27 C         BY THE PROGRAM COMMAND 'RECOVERY'
     28 C         OUTPUT FROM FILE 13 IS A FEATURE CODE DESCRIPTION
     29 C         DATABASE - THE DISK FILE IS RANDOM ACCESS
     30 C         EACH RECORD IS FORMATTED 80A1
     31 C
     32 C         CURRENT FLAGS IN OPERATION:
     33 C         IFLAG  -  PROVIDES A CHECK THAT MAP CODES -1 TO -5 ALL TALLY
     34 C         JFLAG  -  SET TO 1 DURING AN IGNORED CODE (I.E. CODED 0,>271)
     35 C         KFLAG  -  IS NORMALLY SET TO 0 BUT IS SET TO 1 FOR EVERY FEATURE
     36 C                   WHICH INVOLVES THE JOINING OF 2 OR MORE CO-ORD. SETS
     37 C         LFLAG  -  IS SET TO 0 WHILST ANALYSIS IS EITHER CURRENTLY INSIDE
     38 C                   MAP DATA OR AT END OF FILE, BUT IS SET TO 1 WHILST
     39 C                   ANALYSIS IS OUTSIDE MAP DATA WITHIN THE DATA FILE
     40 C         MFLAG  -  IS IN COMMON/ONE/ AND COUNTS THE NUMBER OF LINES ON THE
     41 C                   CURRENT FEATURE IF IT IS OF THE LINE TYPE
     42 C         LNTEST -  SET TO 0 NORMALLY BUT CET TO 1 FOR -7 TYPE CODES
     43 C         MAPCNT -  COUNTS THE NO. OF ANALYSES DONE -- MAX = 20 --
     44 C
     45 C         STORAGE ARRAYS IN OPERATION:
     46 C         CCOUNT(17)  -  COUNTS THE FREQUENCY OF EACH -TYPE CODE
     47 C         FCOUNT(271) -  COUNTS THE FREQUENCY OF EACH MAP FEATURE TYPE
     48 C         FDCONT(271) -  COUNTS THE DISTANCE OF LINES GENERATED ON EACH
     49 C                        FEATURE
     50 C         FDMAX(271)  -  ACCUMULATES THE MAX DISTN. BETWEEN TWO POINTS
     51 C                        ON A LINE FEATURE
     52 C         FDMIN(271)  -  ACCUMULATES THE MIN DISTN. BETWEEN TWO POINTS
     53 C                        ON A LINE FEATURE
     54 C         FPTS(271)   -  COUNTS THE NO. OF DIGITISED POINTS USED PER
     55 C                        LINE TYPE FEATURE
     56 C         SUMX1(271)  -  IS NOT DISPLAYED AS SUCH - BUT STORES THE SUM OF
     57 C                        THE DISTANCES
     58 C                        PER FEATURE TYPE IN ORDER TO COMPUTE A MEAN DISTN.
     59 C                        BETWEEN PTS
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9

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     61 C                        FOR EACH FEATURE (COMPUTATION IN ROUTINE GUASS)
     62 C         SUMX2(271)  -  AS SUMX1(271) BUT SUM OF DISTANCES SQUARED FOR
     63 C                        STANDARD DEVIATION
     64 C         SUMX3(271)  -  AS SUMX1(271) BUT SUM OF DISTANCES CUBED FOR
     65 C                        SKEWNESS
     66 C         SUMX4(271)  -  AS SUMX1(271) BUT SUM OF DISTANCES TO THE FOURTH
     67 C                        POWER FOR KURTOSIS
     68 C         N.B.        -  SUMX1, SUMX2, SUMX3, SUMX4 ARRAYS ARE
     69 C                        REAL*8 VARIABLES
     70 C
     71 C         STORAGE VARIABLES IN OPERATION:
     72 C         RLINE   -  COUNTS THE NO. OF INTERNAL FEATURE LINES (-7 TYPE)
     73 C         RILINE  -  COUNTS THE NO. OF INVISIBLE INTERNAL FEATURE LINES
     74 C         CDIST   -  COUNTS THE CUMULATIVE DISTANCE OF THESE LINES
     75 C         CMDIST  -  CONVERTS CDIST TO MAP SCALE
     76 C         RLETT   -  COUNTS THE NO. OF CHARACTERS PER ANALYSIS
     77 C         RDIST   -  ACCUMULATES DISTANCES GENERATED BY THE -15 CODE
     78 C         FDIST   -  SEPERATES CDIST INTO ITS FEATURE BREAKDOWN FOR FDCOUNT
     79 C         PTS     -  COUNTS THE NUMBER OF POINTS IN THE FILE
     80 C         RECS    -  COUNTS THE NUMBER OF RECORDS IN THE FILE
     81 C         RIGNOR  -  COUNTS THE NUMBER OF IGNORED CODES (ILLEGAL SPEC.)
     82 C
     83 C*******************************************************************
     84 C
     85 C         DEFINE FILE 10(600,4,L,NEXT)
     86 C         DEFINE FILE 11(600,12,E,NEXT)
     87           DATA WHAT/4H    /,STUS/4HSTAT/,ANLS/4HANAL/,RINT/4HINIT/,QUIT/4HQU
     88          1IT/,PULL/4HRECO/,DESC/4HDESC/,STRA/4HSTRA/
     89 C         DATA CCOUNT/17*0./,FCOUNT/271*0./,RLETT/0./,RDIST/0./,IFLAG/0/
     90 C         DATA RLINE/0./,LFLAG/0/,FDCONT/271*0./,RILINE/0./
     91 C
     92 C------PREFIX CODES FOR THE ACTUAL O.S. MAP SHEET REFERENCE
     93 C
     94           DATA PREFIX/'SV','SQ','SL','SF','SA','NV','NQ','NL','NF','NA','HV',
     95          1,'HQ','HL','SW','SR','SM','SG','SB','NW','NR','NM','NG','NB','HW',
     96          2'HR','HM','SX','SS','SN','SH','SC','NX','NS','NN','NH','NC','HX','
     97          3HS','HN','SY','ST','SO','SJ','SD','NY','NT','NO','NJ','ND','HY','H
     98          4T','HO','SZ','SU','SP','SK','SE','NZ','NU','NP','NK','NE','HZ','HU
     99          5','HP','TV','TQ','TL','TF','TA','OV','OQ','OL','OF','OA','JV','JQ'
    100          6,'JL','TW','TR','TM','TG','TB','OW','OR','OM','OG','OB','JW','JR',
    101          7'JM'/,QUADR/'SW','NW','SE','NE'/
    102           COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
    103           COMMON/TWO/CCOUNT,FCOUNT,FDCONT,RLETT,RLINE,RILINE,TLINE,
    104          1CMDIST,IPX1,IPY1,SCALE,IPX2,IPY2,IPX,IPY,RECS,PTS,RIGNOR,RECIG
    105           COMMON/THREE/MAG,LP,ITT,MESS
    106           COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
    107          1FDMAX,FDMIN,FPTS
    108           JFLAG=0
    109           LFLAG=0
    110           ITT=5
    111           MESS=6
    112           MAPCNT=0
    113           LP=2
    114           MAG=3
    115 C
    116 C------INPUT OF THE OS DATA STUDY USER COMMANDS
    117 C
    118           WRITE(MESS,5)
    119         5 FORMAT(' O.S. DATA STUDY --- TYPE IN INSTRUCTION, OR HELP, OR QUIT
    120          1')
```

```
121     10 READ(ITT,1101,END=399,ERR=15)WHAT
122        IF(WHAT.EQ.STUS)CALL STATUS(WHAT)
123        IF(WHAT.EQ.RINT)CALL INIT
124        IF(WHAT.EQ.PULL)CALL PULOUT
125        IF(WHAT.EQ.STRA)CALL STRFY
126        IF(WHAT.EQ.DESC)CALL FEATCO
127        IF(WHAT.EQ.QUIT)STOP 888
128        IF(WHAT.EQ.ANLS)GOTO25
129     15 WRITE(MESS,20)
130     20 FORMAT(' ? -- COMMANDS ALLOWED ARE: ANALYSIS, STATUS, INITIALISE,'
131        1,' RECOVERY, QUIT, DESCRIPTION, STRATIFY'/7X' (FIRST FOUR CHA',
132        1,'RACTERS WILL SUFFICE) ',/,7X,'OK -- PLEASE RETYPE')
133        GOTO10
134     C
135     C------ANALYSIS ROUTINE - INITIALISATION OF ACCUMULATORS
136     C
137     25 MFLAG=0
138        RILINE=0.
139        CDIST=0.
140        RIGNOR=0.
141        RECIG=0.
142        RECS=0.
143        PTS=0.
144        IPX2=1
145        IPY2=1
146        DO 30 I=1,271
147        FCOUNT(I)=0.
148        FDCONT(I)=0.
149        FLINES(I)=0.
150        SUMX1(I)=0.
151        SUMX2(I)=0.
152        SUMX3(I)=0.
153        SUMX4(I)=0.
154        FDMAX(I)=0.
155        FDMIN(I)=32767.
156        AVE(I)=0.
157        SKEW(I)=0.
158        RKUR(I)=0.
159        FPTS(I)=0.
160        SD(I)=0.
161        FLINES(I)=0.
162     30 CONTINUE
163        DO 35 I=1,17
164     35 CCOUNT(I)=0.
165        RLETT=0.
166        RDIST=0.
167        IFLAG=0
168        RLINE=0.
169     C
170     C------INPUT OF EACH LINE FROM THE O.S. DATA FILE
171     C
172     40 READ(MAG,45,END=301,ERR=301)ICHAR1,ICHAR2
173     45 FORMAT(2I4)
174        IF(JFLAG.EQ.1.AND.ICHAR1.EQ.-4)JFLAG=0
175        IF(JFLAG.EQ.1.AND.ICHAR1.EQ.-2)JFLAG=0
176        IF(JFLAG.EQ.1.AND.ICHAR1.EQ.-3)JFLAG=0
177        IF(LFLAG.EQ.0.AND.JFLAG.EQ.0)RECS=RECS+1.
178        IF(JFLAG.EQ.1)RECIG=RECIG+1.
179        IF(JFLAG.EQ.1.AND.ICHAR1.EQ.-11)GOTO2000
180        IF(JFLAG.EQ.1)GOTO40

181        IF(LFLAG.EQ.1)GOTO1900
182     50 IF(ICHAR1.GE.0)GOTO1800
183        ICHEK=ICHAR2
184     C
185     C------SELECT THE APPROPRIATE ACTION TO TAKE DEPENDING
186     C------ON WHICH MINUS (-) CODE HAS BEEN DETECTED
187     C
188        IROUTE=IABS(ICHAR1)
189        GOTO(100,200,300,400,500,600,700,800,900,1000,
190        11100,1200,1300,1400,1500,1600,1700),IROUTE
191     C
192     C------CODES -1 TO -5 DO NOT TALLY
193     C
194        WRITE(LP,55)ICHAR1,FNO
195     55 FORMAT(///,100('*'),//,' *****ERROR***** CODE 1 READ AS',
196        11X,I6,' DURING FEATURE NO. ',F8.0,//,100('*'),/)
197        STOP
198     100 WRITE(MESS,101)
199     101 FORMAT(1H ,'START OF SHEET DETECTED')
200        MAPCNT=MAPCNT+1
201        CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
202        READ(MAG,102)REFE,REFN,SQSIZE,SCALE
203     102 FORMAT(F8.0/F8.0/F8.0/F8.0)
204        RECS=RECS+4.
205     C
206     C------DETERMINATION OF ACTUAL O.S. REFERENCE FOR THE MAP SHEET
207     C------FROM THE SUPPLIED COORDS OF THE SHEET L. H. CORNER
208     C
209        IF(SCALE.GT.2500)GOTO40
210        IPX=INT(REFE/100000.)
211        IPY=INT(REFN/100000.)
212        IPX1=INT((REFE-(FLOAT(IPX)*100000.))/1000.)
213        IPY1=INT((REFN-(FLOAT(IPY)*100000.))/1000.)
214        IPX=IPX+1
215        IPY=IPY+1
216        IF(SCALE.EQ.1250.)GOTO104
217        WRITE(MESS,103)PREFIX(IPY,IPX),IPX1,IPY1
218     103 FORMAT(/,' ANALYSIS ON MAP SHEET ',A2,1X,2I2,/)
219        GOTO40
220     104 IPXX=INT(REFE-(FLOAT(IPX-1)*100000.)-(FLOAT(IPX1)*1000.))
221        IPYY=INT(REFN-(FLOAT(IPY-1)*100000.)-(FLOAT(IPY1)*1000.))
222        IF(IPXX.EQ.500)IPX2=2
223        IF(IPYY.EQ.500)IPY2=2
224        WRITE(MESS,105)PREFIX(IPY,IPX),IPX1,IPY1,QUADR(IPY2,IPX2)
225     105 FORMAT(/,' ANALYSIS ON MAP SHEET ',A2,1X,2I2,A2,/)
226     C
227     C------END OF SHEET DETECTED, HENCE SET THE OUTPUT
228     C------OF RESULTS ROUTINE INTO OPERATION
229     C
230        GOTO40
231     200 WRITE(MESS,201)
232     201 FORMAT(' END OF SHEET DETECTED')
233        CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
234     C
235     C------DETERMINATION OF GUASSIAN STATISTICS
236     C
237        DO 202 I=1,271
238        IF(FLINES(I).EQ.0.)GOTO202
239        CALL GUASS(FLINES(I),SUMX1(I),SUMX2(I),SUMX3(I),SUMX4(I),AVE(I),SD
```

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241    202 CONTINUE
242        C
243        C------TEST IF THERE IS CONSISTENCY IN THIS SHEETS
244        C------CODES -1 TO -5
245        C
246            LFLAG=1
247            IF(CCOUNT(1).EQ.CCOUNT(2))IFLAG=IFLAG+1
248            IF(CCOUNT(4).EQ.CCOUNT(5))IFLAG=IFLAG+1
249            WRITE(LP,205)CCOUNT(1)
250        205 FORMAT(1H1,//,' RESULTS OF THE ANALYSIS OF ',F4.0,' MAP SHEETS',
251       1/,1X,42('='),///)
252        C
253        C-----OUTPUT OF THE ACTUAL O.S. REFERENCE FOR THE MAP SHEET
254        C
255            IF(SCALE.EQ.2500.)WRITE(LP,103)PREFIX(IPY,IPX),IPX1,IPY1
256            IF(SCALE.EQ.1250.)WRITE(LP,105)PREFIX(IPY,IPX),IPX1,IPY1,QUADR
257       1(IPY2,IPX2)
258            IF(IFLAG.EQ.2)GOTO215
259        C
260        C------INFORM USER OF INCONSISTENCY IN CODES -1 TO -5
261        C
262            WRITE(LP,210)
263        210 FORMAT(100('*'),//,' *****ERRORS HAVE BEEN DETECTED.....CHECK',
264       1' CODES -1 TO -5*****',//,100('*'),//)
265        215 WRITE(LP,220)SCALE
266        220 FORMAT(/' THE PLOTTING SCALE OF THE MAPS WERE 1 :',F8.0,///)
267        C
268        C------PRINT RESULTS ON LP THEN STORE THESE ALSO ON DISK
269        C
270            CALL PRINT
271            CALL STORE
272            IF(MAPCNT.GE.40)GOTO300
273            GOTO25
274        C
275        C------END OF FILE DETECTED HENCE STOP THE PROGRAM
276        C
277        300 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
278        301 WRITE(LP,302)
279        302 FORMAT(' END OF FILE DETECTED')
280        C
281        C------DETERMINATION OF TODAYS DATE FOR OUTPUT THEN STOP
282        C
283            CALL TIME(10,0,NDATE)
284            WRITE(LP,398)NDATE
285        398 FORMAT(///,' END OF ANALYSIS --- T.A.ADAMS (',2A4,')',/////)
286        399 STOP
287        C
288        C
289        C------APPROPRIATE ACTIONS ON THE DETECTION OF THE (-) CODES
290        C
291        C
292        C------START OF NEW FEATURE
293        C
294        400 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
295            FNO=FLOAT(ICHAR2)
296            KFLAG=0
297            MFLAG=0
298            FDIST=0.
299            LNTEST=0
300            GOTO40
```

II

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301        C
302        C------END OF CURRENT FEATURE
303        C
304        500 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
305            IF(LNTEST.EQ.0)GOTO40
306            FDCONT(IFNO)=FDCONT(IFNO)+(FDIST*1000./SCALE)
307            GOTO40
308        C
309        C------DUMMY CODE  -  NO ACTION
310        C
311        600 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
312            GOTO40
313        C
314        C------LINE FEATURE DETECTED
315        C
316        700 LNTEST=1
317            IF(ICHAR2.GT.271.OR.ICHAR2.LE.0)GOTO701
318            JFNO=ICHAR2
319            CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
320            FCOUNT(ICHAR2)=FCOUNT(ICHAR2)+1.
321            IFNO=ICHAR2
322            GOTO40
323        701 WRITE(LP,702)FNO,ICHAR2
324        702 FORMAT(' FEATURE NO. ',F8.0,' IS CODED AS ',I4,' ...IGNORED')
325            RIGNOR=RIGNOR+1.
326            JFLAG=1
327            RECS=RECS-2.
328            RECIG=RECIG+2.
329            CCOUNT(4)=CCOUNT(4)-1.
330            GOTO40
331        C
332        C------POINT OR TEXT FEATURE DETECTED
333        C
334        800 IF(ICHAR2.GT.271.OR.ICHAR2.LE.0)GOTO 701
335            JFNO=ICHAR2
336            CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
337            FCOUNT(ICHAR2)=FCOUNT(ICHAR2)+1.
338            GOTO40
339        C
340        C------STARTING GRID SQUARE OR A PASS INTO A NEW GRID
341        C------SQUARE FOR THE CURRENT FEATURE
342        C
343        900 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
344            IF(MFLAG.GT.0)GOTO902
345            READ(MAG,45)IGRDE,IGRDN
346            RECS=RECS+1.
347            NEWGE=IGRDE
348            NEWGN=IGRDN
349            READ(MAG,901)STPTE,STPTN
350            PTS=PTS+1.
351            FPTS(JFNO)=FPTS(JFNO)+1.
352        901 FORMAT(2F4.3)
353            RECS=RECS+1.
354            CALL SYMDN(JFNO,STPTE,STPTN,IGRDE,IGRDN)
355            GOTO40
356        902 READ(MAG,45)NEWGE,NEWGN
357            READ(MAG,901)CONTE,CONTN
358            RLINE=RLINE+1.
359            RECS=RECS+2.
```

```
361          FPTS(JFNO)=FPTS(JFNO)+1.
362          CALL SYMDN(JFNO,CONTE,CONTN,NEWGE,NEWGN)
363          GOTO40
364    C
365    C------TEXT CLASSIFICATION
366    C
367     1000 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
368          READ(MAG,1001)ISTYLE,HT
369          RECS=RECS+1.
370     1001 FORMAT(I4,F4.1)
371          GOTO40
372    C
373    C------CHARACTER (TEXT) READS AND A COUNT OF HOW MANY
374    C------THERE ARE
375    C
376     1100 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
377          RLETT=RLETT+FLOAT(ICHAR2)
378          TEXTNO=FLOAT(ICHAR2)/8.
379          ITEXT=INT(TEXTNO)
380          TEXTNO=TEXTNO-FLOAT(ITEXT)
381          IF(TEXTNO.GT.0.)ITEXT=ITEXT+1
382          DO 1102 I=1,ITEXT
383          READ(MAG,1101)TEXT1,TEXT2
384     1101 FORMAT(2A4)
385          RECS=RECS+1.
386     1102 CONTINUE
387          GOTO40
388     1200 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
389          GOTO40
390    C
391    C------INVISIBLE LINE FLAG DETECTED
392    C
393     1300 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
394    C
395    C------INVISIBLE LINE COUNT
396    C
397          RILINE=RILINE+1.
398          RLINE=RLINE-1.
399          GOTO40
400    C
401    C------DUMMY CODE  -  UNUSED
402    C
403     1400 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
404          GOTO40
405    C
406    C------SPECIAL -15 DISTANCE CODE (BEARING AND DISTANCE)
407    C
408     1500 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
409          RDIST=RDIST+ICHAR2
410          GOTO40
411    C
412    C------DUMMY CODE  -  UNUSED
413    C
414     1600 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
415          GOTO40
416    C
417    C------CONTOUR DETECTED WITH APPROPRIATE HT VALUE
418    C
419     1700 CCOUNT(IROUTE)=CCOUNT(IROUTE)+1.
420          READ(MAG,1701)HTE,HTN
```

```
421     1701 FORMAT(2F4.3)
422          RECS=RECS+1.
423          GOTO40
424    C
425    C------PROCEDURE TO RUN WHEN THE NEXT IN A SET OF COORDS HAS BEEN READ
426    C
427     1800 RLINE=RLINE+1.
428          PTS=PTS+1.
429          FPTS(JFNO)=FPTS(JFNO)+1.
430          KFLAG=1
431          XPT=FLOAT(ICHAR1)/1000.
432          YPT=FLOAT(ICHAR2)/1000.
433          CALL SYMDN(JFNO,XPT,YPT,NEWGE,NEWGN)
434          GOTO40
435    C
436    C------IS THE ANALYSIS INSIDE A MAP SHEET DATA SET?
437    C
438     1900 IF(ICHAR1.EQ.-1.OR.ICHAR1.EQ.-3)LFLAG=0
439          IF(LFLAG.EQ.0)RECS=RECS+1.
440          IF(ICHAR1.EQ.-6)GOTO50
441          IF(LFLAG.EQ.0)GOTO50
442          GOTO40
443    C
444    C------HANDLING OF IGNORED TEXT...THE NEED FOR AN A4 FORMAT
445    C
446     2000 T=FLOAT(ICHAR2)/8.
447          IT=INT(T)
448          T=T-FLOAT(IT)
449          IF(T.GT.0.)IT=IT+1
450          DO 2001 I=1,IT
451          READ(MAG,1101)T1,T2
452          RECIG=RECIG+1.
453     2001 CONTINUE
454          GOTO40
455          END
456    C
457    C
458    C
459    C
460    C
461          SUBROUTINE SYMDN(JFNO,X,Y,IGRDE,IGRDN)
462    C
463    C------SUBROUTINE TO COMPUTE THE TOTAL DISTANCES GENERATED BY LINE
464    C------FEATURES.--(OTHER THAN THOSE ASSIGNED BY CODE -15)
465    C
466    C
467          REAL*8 SUMX1(271),SUMX2(271),SUMX3(271),SUMX4(271)
468          DIMENSION COORDE(2),COORDN(2)
469          DIMENSION FLINES(271),
470         1AVE(271),SD(271),SKEW(271),RKUR(271),FDMAX(271),FDMIN(271)
471          DIMENSION FPTS(271)
472          COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
473          COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
474         1FDMAX,FDMIN,FPTS
475          IF(LNTEST.EQ.0)GOTO5
476          FULLE=REFE+(IGRDE*SQSIZE)+(X*SQSIZE)
477          FULLN=REFN+(IGRDN*SQSIZE)+(Y*SQSIZE)
478          I=MFLAG-1
```

```
482    2 J=2
483      IF(MFLAG.LT.2)GOTO3
484      COORDE(1)=COORDE(2)
485      COORDN(1)=COORDN(2)
486    3 COORDE(J)=FULLE
487      COORDN(J)=FULLN
488      IF(J.EQ.1)GOTO4
489      DIST=SQRT((COORDE(1)-COORDE(2))**2+(COORDN(1)-COORDN(2))**2)
490      CDIST=CDIST+DIST
491      FDIST=FDIST+DIST
492 C
493 C------ACCUMULATION OF MEAN, SD, SKEW, KURT. PARAMETERS
494 C
495      SUMX1(JFNO)=SUMX1(JFNO)+DIST
496      SUMX2(JFNO)=SUMX2(JFNO)+(DIST**2)
497      SUMX3(JFNO)=SUMX3(JFNO)+(DIST**3)
498      SUMX4(JFNO)=SUMX4(JFNO)+(DIST**4)
499      FLINES(JFNO)=FLINES(JFNO)+1.
500 C
501 C------IS THIS DISTN. A MAX OR MIN FOR THIS FEATURE SO FAR?
502 C
503      INDEX=IFIX(FLINES(JFNO))
504      CALL FMSET(DIST,INDEX,FDMAX(JFNO),FDMIN(JFNO))
505    4 MFLAG=MFLAG+1
506    5 RETURN
507      END
508 C
509 C
510 C
511 C
512 C
513 C
514      SUBROUTINE PRINT
515 C
516 C
517 C------THIS IS A SUBROUTINE TO GENERATE LINE PRINTER OUTPUT OF THE
518 C------THE ANALYSIS RESULTS. IT EXECUTES DURING EITHER AN ANALYSIS
519 C------RUN OR A STATUS RUN.
520 C
521 C
522 C------PRINT GENERATES APPROX. 4 PAGES (NUMAC SMALL SIZE) ON A
523 C------STATUS RUN AND 3 ON AN ANALYSIS RUN.
524 C
525 C
526      REAL*8 SUMX1(271),SUMX2(271),SUMX3(271),SUMX4(271)
527      DIMENSION CCOUNT(17),FCOUNT(271),FDCONT(271)
528      DIMENSION FLINES(271),
529     1AVE(271),SD(271),SKEW(271),RKUR(271),FDMAX(271),FDMIN(271)
530      DIMENSION FPTS(271)
531      DIMENSION A(80)
532      COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
533      COMMON/TWO/CCOUNT,FCOUNT,FDCONT,RLETT,RLINE,RILINE,TLINE,
534     1CMDIST,IPX1,IPY1,SCALE,IPX2,IPY2,IPX,IPY,RECS,PTS,RIGNOR,RECIG
535      COMMON/THREE/MAG,LP,ITT,MESS
536      COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
537     1FDMAX,FDMIN,FPTS
538      WRITE(LP,10)(I,CCOUNT(I),I=1,17)
539   10 FORMAT(//,5X,'FREQUENCIES',/,5X,11('-'),///,I4,' START OF SHEET',9
540     1X,F9.0,//,I4,' END OF FILE',12X,F9.
541     20,//,I4,' START OF FEATURE',7X,F9.0,//,I4,' END OF FEATURE',9X,F9.
542     30,//,I4,' NO ACTION (7 TRK)',6X,F9.0,//,I4,' FEATURES (LINE)',8X,F
543     49.0,//,I4,' FEATURES (TEXT,SYMBOL)',1X,F9.0,//,I4,' GRID SQUARE IN
544     5DICATOR',2X,F9.0,//,I4,' TEXT CLASSIFICATION',4X,F9.0,//,I4,' CHAR
545     9ACTER CALLS ',7X,F9.0,//,I4,' NO OF ORIENTATIONS',5X,F9.0,//,I4,'
546     7INVISIBLE LINE FLAG',4X,F9.0,//,I4,' N/A',20X,F9.0,//,I4,' DISTANC
547     8E CALLS ',8X,F9.0,//,I4,' N/A',20X,F9.0,//,I4,' CONTOUR CALLS',10X
548     9,F9.0,/////)
549      WRITE(LP,15)
550   15 FORMAT(1H1,/,21X,'FEATURES INCLUDED',/,21X,17('='),///)
551      WRITE(LP,16)
552   16 FORMAT(60X,'----GROUND----',25X,'------GROUND------')
553      WRITE(LP,17)
554   17 FORMAT(19X,'NO.',5X,'NO.',5X,'TOTAL LINE',5X,'GROUND',4X,'MEAN',
555     1' STANDARD',/,1X,' F/CODE    FREQ.    PTS    LINES    LENGTH (MM)  '
556     2,'DIST (M)    DIST  DEVIATION   SKEW   KURTOSIS    MAXIMUM    MIN
557     3IMUM',/,1X,6('-'),2X,6('-'),1X,8('-'),1X,8('-'),2X,11('-'),2X,10('
558     4-'),1X,6('-'),1X,9('-'),2X,7('-'),2X,11('-'),1X,10('-'),1X,10('-')
559     5)
560 C
561 C------SUPPRESSION OF INFO NOT RELEVANT TO CURRENT MAP SHEET
562 C
563      DO 22 J=1,271
564      IF(FCOUNT(J).EQ.0.)GOTO22
565      IF(FDCONT(J).EQ.0.)GOTO20
566      GD=(FDCONT(J)/1000.)*SCALE
567      WRITE(LP,18)J,FCOUNT(J),FPTS(J),FLINES(J),FDCONT(J),GD,AVE(J),SD(J
568     1),SKEW(J),RKUR(J),FDMAX(J),FDMIN(J)
569   18 FORMAT(3X,I3,F8.0,F9.0,F9.0,F13.1,F12.2,F7.1,F10.3,F10.4,F12.3,F11
570     1.2,F11.2)
571      GOTO22
572   20 WRITE(LP,21)J,FCOUNT(J),FPTS(J)
573   21 FORMAT(3X,I3,F8.0,F9.0)
574   22 CONTINUE
575      WRITE(LP,35)RLETT,RDIST
576   35 FORMAT(/////' A TOTAL NUMBER OF ',F8.0,' CHARACTERS EXIST',//,' TOT
577     1AL DISTANCE OF -15 CODED LINES = ',F8.0,' GND. METRES',/)
578      CMDIST=CDIST*100/SCALE
579      TLINE=RLINE+RILINE
580      WRITE(LP,45)RLINE,RILINE,TLINE,CDIST,CMDIST
581   45 FORMAT(' TOTAL INKED IN LINES  = ',F10.0,//,' TOTAL INVISIBLE'
582     1,' LINES = ',F10.0,//,' TOTAL LINES GENERATED =',
583     21X,F10.0,//,' TOTAL DISTANCE GENERATED BY LINES = ',F15.2,' M'
584     3,'ETRES AT GROUND SCALE',/,35X,'= ',F15.3,' CMS AT MAP SCALE')
585      WRITE(LP,50)RECS,PTS
586   50 FORMAT(//,' NUMBER OF RECORDS IN THE FILE = ',F15.0,//,' NUMBER ',
587     1'OF POINTS IN THE FILE  = ',F15.0)
588      WRITE(LP,54)RIGNOR,RECIG
589   54 FORMAT(/,' NUMBER OF IGNORED CODES (0 OR >271)    = ',F10.0,//,
590     1' NUMBER OF IGNORED RECORDS (0 OR >271) = ',F10.0)
591 C
592 C
593 C------OUTPUT OF THE FEATURE CODE DESCRIPTIONS FOR THIS SHEET
594 C
595 C
596      WRITE(LP,60)
597   60 FORMAT(//,' FEATURE CODE DESCRIPTION ',/,1X,24('-'),//,
598     1' FEATURE    FEATURE',/,'  CODE       TYPE',20X,
599     2' DESCRIPTION',/,1X,9('-'),1X,9('-'),17X,13('-'),//)
```

13

```
601      IF(FCOUNT(1).EQ.0.)GOTO65
602      READ(13'I,62)A
603      WRITE(LP,63)A
604   62 FORMAT(80A1)
605   63 FORMAT(20A1,10X,60A1)
606   65 CONTINUE
607   C
608   C------PRINT A LINE ACROSS  PAPER TO SIGNIFY END OF INFO
609   C
610      WRITE(LP,70)
611   70 FORMAT(//,120('-'),//)
612      RETURN
613      END
614   C
615   C
616   C
617   C
618   C
619   C
620      SUBROUTINE INIT
621   C
622   C------INITIALISING PROGRAM FOR STATUS FILES
623   C
624   C------N.B. EVERYTHING SET TO EITHER A ZERO OR A BLANK AS APPROP.
625   C------ARRAY FDMIN IS SET TO A LUDICROUS HIGH VALUE (32767) SO
626   C------THAT THIS IS QUICKLY REPLACED BY THE CORRECT MIN VALUE
627   C
628   C
629      REAL*8 R271D(271)
630      DIMENSION R17(17),R40(40),R271(271),R271M(271)
631      DATA BLANK/'    '/
632      DO 1 I=1,17
633    1 R17(I)=0.
634      DO 2 I=1,40
635    2 R40(I)=0.
636      DO 3 I=1,271
637      R271M(I)=32767.
638      R271D(I)=0.0D0
639    3 R271(I)=0.
640      WRITE(10'1)R17
641      DO 4 I=1,2
642    4 WRITE(10'I+1)R271
643      WRITE(10'4)R40
644      DO 5 I=1,4
645    5 WRITE(10'I+4)R271D
646      DO 6 I=1,2
647    6 WRITE(10'I+8)R271
648      WRITE(10'11)R271M
649      WRITE(10'12)R271
650   C
651      DO 12 I=1,1000
652      WRITE(11'I,10)BLANK,BLANK,BLANK
653   10 FORMAT(3A4)
654   12 CONTINUE
655      I=1
656      J=1
657      WRITE(11'I,15)J
658   15 FORMAT(I12)
659      STOP 777
660      END
```

14

```
661   C
662   C
663   C
664   C
665   C
666   C
667      SUBROUTINE STORE
668   C
669   C
670   C------THIS IS A SUBROUTINE TO STORE ON DISK FILES 10, 11 AND 12
671   C------THE GENERATED ANALYSIS RESULTS.
672   C
673   C
674      REAL*8 SUMX1(271),SUMX2(271),SUMX3(271),SUMX4(271)
675      REAL*8 SX1(271),SX2(271),SX3(271),SX4(271)
676      DIMENSION CCOUNT(17),FCOUNT(271),FDCONT(271)
677      DIMENSION FLINES(271),
678     1AVE(271),SD(271),SKEW(271),RKUR(271),FDMAX(271),FDMIN(271)
679      DIMENSION FPTS(271)
680      DIMENSION PREFIX(13,7),QUADR(2,2)
681      DIMENSION C(17),F(271),FD(271),STAT(40)
682      DIMENSION FLTOT(271)
683      DIMENSION FP(271)
684      DIMENSION RMAX(271), RMIN(271)
685      DIMENSION NDATE(2)
686      DATA PREFIX/'SV','SQ','SL','SF','SA','NV','NQ','NL','NF','NA','HV'
687     1,'HQ','HL','SW','SR','SM','SG','SB','NW','NR','NM','NG','NB','HW',
688     2'HR','HM','SX','SS','SN','SH','SC','NX','NS','NN','NH','NC','HX',
689     3HS','HN','SY','ST','SO','SJ','SD','NY','NT','NO','NJ','ND','HY','H
690     4T','HO','SZ','SU','SP','SK','SE','NZ','NU','NP','NK','NE','HZ','HU
691     5','HP','TV','TQ','TL','TF','TA','OV','OQ','OL','OF','OA','JV','JQ'
692     6,'JL','TW','TR','TM','TG','TB','OW','OR','OM','OG','OB','JW','JR',
693     7JM'/,QUADR/'SW','NW','SE','NE'/
694      DATA BLANK/2H  /
695      COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
696      COMMON/TWO/CCOUNT,FCOUNT,FDCONT,RLETT,RLINE,RILINE,TLINE,
697     1CMDIST,IPX1,IPY1,SCALE,IPX2,IPY2,IPX,IPY,RECS,PTS,RIGNOR,RECIG
698      COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
699     1FDMAX,FDMIN,FPTS
700      NEXT=1
701      LIMIT=271
702   C
703   C
704      READ(10'1)C
705      DO 1 I=1,17
706    1 C(I)=C(I)+CCOUNT(I)
707      WRITE(10'1)C
708   C
709      READ(10'2)F
710      DO 3 I=1,LIMIT
711    3 F(I)=F(I)+FCOUNT(I)
712      WRITE(10'2)F
713   C
714      READ(10'3)FD
715      DO 4 I=1,LIMIT
716    4 FD(I)=FD(I)+FDCONT(I)
717      WRITE(10'3)FD
718   C
719   C------THE ARRAY STAT CAN HOLD UP TO 40 PIECES OF INFO RELEVANT
```

```
721   C
722           READ(10'4)STAT
723           STAT(1)=STAT(1)+RLETT
724           STAT(2)=STAT(2)+RDIST
725           STAT(3)=STAT(3)+RLINE
726           STAT(4)=STAT(4)+RILINE
727           STAT(5)=STAT(5)+TLINE
728           STAT(6)=STAT(6)+CDIST
729           STAT(7)=STAT(7)+CMDIST
730           STAT(8)=STAT(8)+RECS
731           STAT(9)=STAT(9)+PTS
732           STAT(10)=STAT(10)+RIGNOR
733           STAT(11)=STAT(11)+RECIG
734           WRITE(10'4)STAT
735   C
736   C------READ HOW MANY SHEETS HAVE BEEN PROCESSED SO FAR
737   C
738           READ(11'1,7)INDIC
739         7 FORMAT(I12)
740   C
741           READ(10'5)SX1
742           DO 16 I=1,LIMIT
743        16 SX1(I)=SX1(I)+SUMX1(I)
744           WRITE(10'5)SX1
745   C
746           READ(10'6)SX2
747           DO 17 I=1,LIMIT
748        17 SX2(I)=SX2(I)+SUMX2(I)
749           WRITE(10'6)SX2
750   C
751           READ(10'7)SX3
752           DO 18 I=1,LIMIT
753        18 SX3(I)=SX3(I)+SUMX3(I)
754           WRITE(10'7)SX3
755   C
756           READ(10'8)SX4
757           DO 19 I=1,LIMIT
758        19 SX4(I)=SX4(I)+SUMX4(I)
759           WRITE(10'8)SX4
760   C
761           READ(10'9)FLTOT
762           DO 20 I=1,LIMIT
763        20 FLTOT(I)=FLTOT(I)+FLINES(I)
764           WRITE(10'9)FLTOT
765   C
766   C------HAVE WE A NEW MAX OR MIN DISTANCE FROM THIS SHEET WHICH
767   C------WILL AFFECT THE STATUS RESULTS ?
768   C
769           READ(10'10)RMAX
770           DO 23 I=1,LIMIT
771           IF(FLINES(I).EQ.0.)GOTO23
772           CALL FMSET(FDMAX(I),INDIC,RMAX(I),RMIN(I))
773        23 CONTINUE
774           WRITE(10'10)RMAX
775   C
776           READ(10'11)RMIN
777           DO 25 I=1,LIMIT
778           IF(FLINES(I).EQ.0.)GOTO25
779           CALL FMSET(FDMIN(I),INDIC,RMAX(I),RMIN(I))
780        25 CONTINUE
781           WRITE(10'11)RMIN
782   C
783           READ(10'12)FP
784           DO 28 I=1,LIMIT
785        28 FP(I)=FP(I)+FPTS(I)
786           WRITE(10'12)FP
787   C
788   C
789   C------STORAGE TO DISK FILE 12 OF INDIVIDUAL SHEET INFO.
790   C
791   C
792           IPOSN=(INDIC-1)*12
793           WRITE(12'IPOSN+1)CCOUNT
794           WRITE(12'IPOSN+2)FCOUNT
795           WRITE(12'IPOSN+3)FDCONT
796           DO 30 I=1,40
797        30 STAT(I)=0.
798           STAT(1)=RLETT
799           STAT(2)=RDIST
800           STAT(3)=RLINE
801           STAT(4)=RILINE
802           STAT(5)=TLINE
803           STAT(6)=CDIST
804           STAT(7)=CMDIST
805           STAT(8)=RECS
806           STAT(9)=PTS
807           STAT(10)=RIGNOR
808           STAT(11)=RECIG
809           WRITE(12'IPOSN+4)STAT
810           WRITE(12'IPOSN+5)AVE
811           WRITE(12'IPOSN+6)SD
812           WRITE(12'IPOSN+7)SKEW
813           WRITE(12'IPOSN+8)RKUR
814           WRITE(12'IPOSN+9)FLINES
815           WRITE(12'IPOSN+10)FDMAX
816           WRITE(12'IPOSN+11)FDMIN
817           WRITE(12'IPOSN+12)FPTS
818   C
819   C
820   C------INCLUSION OF THIS SHEET NAME TO THE INDEX FILE 11
821   C------AND UPDATE OF THE NO. OF SHEETS PROCESSED
822   C
823   C------N.B. FILE 11 RECORD 1 IS I12 FORMAT AND STORES A NO.
824   C------WHICH REPRESENTS THE NEXT FREE RECORD FOR INPUT
825   C------OF DATA IN FILES 11 AND 12
826   C
827   C
828   C
829           INDIC=INDIC+1
830           I=INDIC
831           WRITE(11'1,7)INDIC
832           IF(SCALE.EQ.1250)BLANK=QUADR(IPY2,IPX2)
833           IF(SCALE.EQ.50000.)GOTO9
834           WRITE(11'I,8)PREFIX(IPY,IPX),IPX1,IPY1,BLANK
835         8 FORMAT(A2,1X,2I2,A2,3X)
836           RETURN
837         9 ISC=IFIX(SCALE)
838           WRITE(11'I,10)ISC
839        10 FORMAT(I9,3X)
```

15

```
842      C
843      C
844      C
845      C
846      C
847      C
848            SUBROUTINE STATUS(WHAT)
849      C
850      C
851      C------THIS IS A SUBROUTINE TO PULL OUT FROM DISK FILES 10 AND 11 THE
852      C------CURRENT STATUS OF THE OS DATA STUDY --- THE OUTPUT GENERATED TAKES
853      C------EXACTLY THE SAME FORMAT AS AN ANALYSIS RUN SINCE SUBROUTINE PRINT
854      C------IS CALLED IN EXACTLY THE SAME WAY.
855      C
856      C----- IN ORDER TO RUN, THIS ROUTINE REQUIRES THE SCALE OF THE DATA ALREADY
857      C------ANALYSED IN ORDER TO COMPUTE STATISTICS RELATING TO MAP SCALE MEASURES
858      C
859      C------THIS IS OBTAINED BY CALLING SCCHEQ (SCALE CHECK)
860      C
861      C
862            REAL*8 SUMX1(271),SUMX2(271),SUMX3(271),SUMX4(271)
863            DIMENSION CCOUNT(17),FCOUNT(271),FDCONT(271)
864            DIMENSION STAT(40),A(7),B(7),C(7)
865            DIMENSION FLINES(271),
866           1AVE(271),SD(271),SKEW(271),RKUR(271),FDMAX(271),FDMIN(271)
867            DIMENSION FPTS(271)
868            DIMENSION NDATE(2)
869            DATA YES/4HYES /
870            COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
871            COMMON/TWO/CCOUNT,FCOUNT,FDCONT,RLETT,RLINE,RILINE,TLINE,
872           1CMDIST,IPX1,IPY1,SCALE,IPX2,IPY2,IPX,IPY,RECS,PTS,RIGNOR,RECIG
873            COMMON/THREE/MAG,LP,ITT,MESS
874            COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
875           1FDMAX,FDMIN,FPTS
876            NEXT=1
877            LIMIT=271
878      C******NOT USED NOW IN THIS MARK4 VERSION******
879      C      WRITE(MESS,3)
880      C    3 FORMAT(' GIVE THE SCALE OF THE FILE 10 (F6.0)')
881      C      READ(ITT,4)SCALE
882      C    4 FORMAT(F6.0)
883      C
884      C------DETERMINATION OF THE SCALE OF THESE SHEETS
885      C
886            CALL SCCHEQ(SCALE)
887      C
888      C------READ FROM FILE 10 THE STATUS OF THE STUDY SO FAR
889      C
890            READ(10'1)CCOUNT
891            READ(10'2)FCOUNT
892            READ(10'3)FDCONT
893            READ(10'4)STAT
894            RLETT=STAT(1)
895            RDIST=STAT(2)
896            RLINE=STAT(3)
897            RILINE=STAT(4)
898            TLINE=STAT(5)
899            CDIST=STAT(6)
900            CMDIST=STAT(7)
901            RECS=STAT(8)
902            PTS=STAT(9)
903            RIGNOR=STAT(10)
904            RECIG=STAT(11)
905      C
906      C-------PRESENT A TITLE ON THE LP
907      C
908            READ(11'1,5)INDIC
909        5 FORMAT(I12)
910            IND=INDIC-1
911            WRITE(LP,6)IND,SCALE
912        6 FORMAT(1H1,'CURRENT STATUS OF THE O.S. DIGITAL DATA STATISTICS AFT
913           1ER ',I4,' SHEET ANALYSES ON THE ',F8.0,' DATA',/,1X,97('='),
914           2///)
915      C
916      C
917            READ(10'5)SUMX1
918            READ(10'6)SUMX2
919            READ(10'7)SUMX3
920            READ(10'8)SUMX4
921            READ(10'9)FLINES
922      C
923      C------DETERMINATION OF THE GUASSIAN STATISTICS FOR THE
924      C------STATUS RESULTS
925      C
926            DO 7 I=1,LIMIT
927            IF(FLINES(I).EQ.0.)GOTO7
928            CALL GUASS(FLINES(I),SUMX1(I),SUMX2(I),SUMX3(I),SUMX4(I),AVE(I),SD
929           1(I),SKEW(I),RKUR(I),FCOUNT(I))
930        7 CONTINUE
931            READ(10'10)FDMAX
932            READ(10'11)FDMIN
933            READ(10'12)FPTS
934      C
935      C------OUTPUT OF RESULTS
936      C
937            CALL PRINT
938            WRITE(MESS,8)
939        8 FORMAT(//' DO YOU REQUIRE A LIST OF THE MAP SHEETS BEEN PROCESSED
940           1?')
941            READ(ITT,9)QN
942        9 FORMAT(A4)
943            IF(QN.EQ.YES)GOTO11
944            WRITE(MESS,10)
945       10 FORMAT(' NO MAP SHEET LIST REQUIRED',///,' JOB COMPLETED',////)
946            GOTO20
947       11 WRITE(LP,12)
948       12 FORMAT(1H1,/,' CURRENT LIST OF MAP SHEETS BEEN PROCESSED',/,1X,41(
949           1'='),////)
950            IF(IND.LE.0)WRITE(LP,13)
951            IF(IND.LE.0)GOTO20
952       13 FORMAT(////,5X,' LIST EMPTY',////)
953            P1=FLOAT(IND)/7.
954            J=INT(P1)
955            IF(J.EQ.0)GOTO18
956            DO 17 I=1,J
957            DO 14 K=1,7
958       14 READ(11'((I-1)*7)+K+1,15)A(K),B(K),C(K)
```

```
962        17 CONTINUE
963        18 JJ=J*7
964           J=IND-JJ
965           IF(J.EQ.0)GOTO20
966           DO 19 I=1,J
967        19 READ(11'JJ+I+1,15)A(I),B(I),C(I)
968           WRITE(LP,16)((A(K),B(K),C(K)),K=1,J)
969     C
970     C------STOP THE PROGRAM WITH A FINAL REMINDER OF THE NO. OF
971     C------SHEETS PROCESSED SO FAR AND GIVE A RECORD OF TODAYS
972     C------DATE
973     C
974        20 CALL TIME(10,0,NDATE)
975           WRITE(LP,21)IND,NDATE
976        21 FORMAT(////,' A TOTAL OF ',I4,' MAP SHEETS HAVE BEEN PROCESSED',/
977          1,1X,46('-'),////,' END OF STATUS RUN ---  (',2A4,')',////)
978           STOP 777
979           END
980     C
981     C
982     C
983     C
984     C
985           SUBROUTINE FMSET(D,INDEX,DMAX,DMIN)
986     C
987     C
988     C------THIS IS A SUBROUTINE TO DETERMINE THE MAXIMUM AND MINIMUM
989     C------VALUES OF A GIVEN SET
990     C
991     C------D IS THE VALUE
992     C------INDEX IS THE TEST COUNTER
993     C
994     C
995           IF(INDEX-1)4,3,4
996         3 DMAX=D
997           DMIN=D
998           RETURN
999         4 IF(D-DMAX)6,6,5
1000        5 DMAX=D
1001        6 IF(D-DMIN)7,8,8
1002        7 DMIN=D
1003        8 RETURN
1004          END
1005    C
1006    C
1007    C
1008    C
1009    C
1010          SUBROUTINE GUASS(RN,SX1,SX2,SX3,SX4,AV,SD,SK,RK,COUNT)
1011          REAL*8 SX1,SX2,SX3,SX4
1012    C
1013    C
1014    C------THIS IS A SUBROUTINE TO COMPUTE MEAN, STANDARD DEVIATION, SKEWNESS
1015    C------AND KURTOSIS OF A DITRIBUTION >3 VALUES
1016    C
1017    C------RN = NO. OF VALUE IN DISTBN.
1018    C------SX1= SUM OF X VALUES
1019    C------SX2= SUM OF X**2 VALUES
1020    C------SX3= SUM OF X**3 VALUES
1021    C------SX4= SUM OF X**4 VALUES
1022    C------AV = RESULTANT MEAN
1023    C------SD = STANDARD DEVIATION
1024    C------SK = SKEW
1025    C------RK = KURTOSIS
1026    C
1027    C------SEE PAGES 184+ OF THE SPSS MANUAL FOR FORMULAE IMPLEMENTED
1028    C
1029    C
1030    C
1031          AV=0.
1032          SD=0.
1033          SK=0.
1034          RK=0.
1035    C
1036    C------SUPPRESS ALL IF NO. OF LINES <= 0
1037    C
1038          IF(RN.LE.0.)GOTO100
1039          AV=SX1/RN
1040    C
1041    C------SUPPRESS ALL BUT THE MEAN IF NO. OF LINES <= 3
1042    C
1043          IF(RN.LE.3.)GOTO100
1044          V=(SX2-(RN*AV*AV))/(RN-1.)
1045          SKA=((SX3-(3.*AV*SX2)+(3.*AV*AV*SX1))/RN)-(AV*AV*AV)
1046          IF(V.LT.0.)GOTO100
1047          SD=SQRT(V)
1048          SK=SKA/(SD*SD*SD)
1049          RKA=(SX4-(4.*AV*SX3)+(6.*AV*AV*SX2)-(4.*AV*AV*AV*SX1))/RN
1050          RKB=RKA+(AV*AV*AV*AV)
1051          RK=RKB/(V*V)
1052          RK=RK-3.
1053       100 RETURN
1054          END
1055    C
1056    C
1057    C
1058    C
1059    C
1060    C
1061          SUBROUTINE PULOUT
1062    C
1063    C
1064    C------THIS IS A SUBROUTINE TO INTERFACE THE PROGRAM WITH THE
1065    C------RANDOM ACCESS DISK FILE ON LOGICAL UNIT 12
1066    C
1067    C------IT ALLOWS THE RECOVERY OF DIGITAL DATA STATISTICS FOR EITHER
1068    C------A NAMED MAP SHEET OR A MAP SHEET WHOSE STACK POSITION IS KNOWN
1069    C
1070    C------THE ROUTINE IS ENTIRELY INTERACTIVE AND ASKS QNS WHERE NECESSARY
1071    C
1072    C------IF A MAP SHEET OR LIST POSITION DOES NOT EXIST THE ROUTINE WILL
1073    C------PROVIDE AN ERROR MESSAGE AND STOP
1074    C
1075    C
1076    C
1077          REAL*8 SUMX1(271),SUMX2(271),SUMX3(271),SUMX4(271)
1078          DIMENSION CCOUNT(17),FCOUNT(271),FDCONT(271)
1079          DIMENSION FLINES(271),
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1082            DIMENSION RNAME(3),SHEET(3)
1083            DIMENSION STAT(40)
1084            COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
1085            COMMON/TWO/CCOUNT,FCOUNT,FDCONT,RLETT,RLINE,RILINE,TLINE,
1086           1CMDIST,IPX1,IPY1,SCALE,IPX2,IPY2,IPX,IPY,RECS,PTS,RIGNOR,RECIG
1087            COMMON/THREE/MAG,LP,ITT,MESS
1088            COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
1089           1FDMAX,FDMIN,FPTS
1090            DATA YES/4HYES /
1091      C
1092      C------IS A RECOVERY FEASIBLE ?
1093      C
1094            READ(11'1,5)INDIC
1095          5 FORMAT(I12)
1096            IF(INDIC.LE.1)STOP 999
1097      C
1098      C------DISCOVER WHETHER USER KNOWS STACK POSN. OR JUST THE
1099      C------NAME OF THE SHEET HE WANTS RETRIEVING
1100      C
1101            WRITE(MESS,10)
1102         10 FORMAT(' DO YOU KNOW THE LIST POSITION OF YOUR REQD. SHEET?')
1103            READ(ITT,20)QN
1104         20 FORMAT(A4)
1105            IF(QN.EQ.YES)GOTO70
1106      C
1107      C------SEARCH FOR REQ'D SHEET KNOWING ITS NAME ONLY
1108      C
1109         25 WRITE(MESS,30)
1110         30 FORMAT(' OK -- GIVE THE SHEET NAME IN RIGID FORMAT (3A4)')
1111            READ(ITT,40)((SHEET(I)),I=1,3)
1112         40 FORMAT(3A4)
1113            IND=INDIC+1
1114            I=1
1115         50 I=I+1
1116            IF(I.GT.IND)GOTO60
1117            READ(11'I,40)(RNAME(I),I=1,3)
1118            IF(RNAME(1).EQ.SHEET(1).AND.RNAME(2).EQ.SHEET(2).AND.RNAME(3).EQ.S
1119           1HEET(3))GOTO90
1120            GOTO50
1121         60 WRITE(MESS,65)
1122         65 FORMAT(' NO SHEET OF THIS NAME HAS BEEN PROCESSED')
1123            GOTO 120
1124      C
1125      C------SEARCH FOR REQ'D SHEET KNOWING ITS STACK POSN.
1126      C
1127         70 WRITE(MESS,75)
1128         75 FORMAT(' GIVE THE LIST POSITION (I5)')
1129            READ(ITT,80)LIST
1130         80 FORMAT(I5)
1131            IF(LIST.GE.INDIC)GOTO60
1132            IPOSN=LIST
1133            READ(11'LIST+1,40)(RNAME(I),I=1,3)
1134            GOTO100
1135         90 IPOSN=I-1
1136        100 IPOSN=(IPOSN-1)*12
1137            READ(12'IPOSN+1)CCOUNT
1138            READ(12'IPOSN+2)FCOUNT
1139            READ(12'IPOSN+3)FDCONT
1140            READ(12'IPOSN+4)STAT
```

```
1141            RLETT=STAT(1)
1142            RDIST=STAT(2)
1143            RLINE=STAT(3)
1144            RILINE=STAT(4)
1145            TLINE=STAT(5)
1146            CDIST=STAT(6)
1147            CMDIST=STAT(7)
1148            RECS=STAT(8)
1149            PTS=STAT(9)
1150            RIGNOR=STAT(10)
1151            RECIG=STAT(11)
1152            READ(12'IPOSN+5)AVE
1153            READ(12'IPOSN+6)SD
1154            READ(12'IPOSN+7)SKEW
1155            READ(12'IPOSN+8)RKUR
1156            READ(12'IPOSN+9)FLINES
1157            READ(12'IPOSN+10)FDMAX
1158            READ(12'IPOSN+11)FDMIN
1159            READ(12'IPOSN+12)FPTS
1160      C
1161      C
1162      C******NOT USED IN THIS MARK4 VERSION*****
1163      C
1164      C
1165      C      WRITE(MESS,105)
1166      C 105 FORMAT(' GIVE THE SCALE OF FILE 12 (F6.0)')
1167      C      READ(ITT,110)SCALE
1168      C 110 FORMAT(F6.0)
1169      C
1170      C------DETERMINE THE SCALE OF THIS SHEET
1171      C
1172            CALL SCCHEQ(SCALE)
1173      C
1174      C------PRESENT A TITLE THEN PRINT OUT RESULTS
1175      C
1176            WRITE(LP,115)(RNAME(I),I=1,3)
1177        115 FORMAT(1H1,' RECOVERY OF STATISTICS GENERATED FOR OS SHEET ',3A4,
1178           1/,1X,58('='),//)
1179            CALL PRINT
1180        120 WRITE(MESS,121)
1181        121 FORMAT(' ANYMORE ?')
1182            READ(ITT,20)QN2
1183            IF(QN2.EQ.YES.AND.QN.EQ.YES)GOTO70
1184            IF(QN2.EQ.YES)GOTO25
1185            STOP 777
1186            END
1187      C
1188      C
1189      C
1190      C
1191      C
1192            SUBROUTINE FEATCO
1193      C
1194      C------THIS IS A SUBROUTINE TO PRINT OUT A DESCRIPTION OF THE OS DIGITAL
1195      C------FEATURE CODES ----- IT RUNS WITH THE OS DATA STUDY
1196      C                         COMMAND 'DESCRIPTION'
1197      C
1198      C------THE INFORMATION IS STORED AS 80A1 IN DISK FILE 13 ---
1199      C------AT NUMAC THIS IS GGK3:F13. ON DISK MTS.?
```

```
1202          DIMENSION A(80),IPOSN(20)
1203          COMMON/THREE/MAG,LP,ITT,MESS
1204          DATA ALL/4HALL /,SPEC/4HSPEC/
1205          LIMIT=271
1206    C
1207    C------DOES USER WANT ALL CODES DUMPED TO LP
1208    C------OR JUST A SPECIFIC SELECTION (UP TO 20)
1209    C------ON THE TERMINAL SCREEN ?
1210    C
1211          WRITE(MESS,5)
1212        5 FORMAT(' SPECIFIC CODE (SPEC) OR ALL (ALL ) ?')
1213        6 READ(ITT,10)QN
1214       10 FORMAT(A4)
1215          IF(QN.EQ.SPEC)GOTO40
1216          IF(QN.EQ.ALL)GOTO20
1217          WRITE(MESS,12)
1218       12 FORMAT(' ERROR TYPE EITHER SPEC OR ALL')
1219          GOTO6
1220    C
1221    C------USER REQUIRES ALL THE CODES ON THE LP
1222    C
1223       20 WRITE(LP,25)
1224       25 FORMAT(1H1,///,' O.S. DIGITAL MAPPING FEATURE CODE DESCRIPTION'
1225         1/,1X,46('='),//,' FEATURE    FEATURE',/,'    CODE         TYPE',20X,
1226         2' DESCRIPTION',/,1X,9('-'),1X,9('-'),17X,13('-'),//)
1227          DO 30 I=1,LIMIT
1228          READ(13'I,28)A
1229       28 FORMAT(80A1)
1230       30 WRITE(LP,32)A
1231       32 FORMAT(20A1,10X,60A1/)
1232          WRITE(LP,35)
1233       35 FORMAT(///,' CORRECT ON 12 MAY 1978',//)
1234          STOP 777
1235    C
1236    C------USER ONLY REQUIRES A SPECIFIC SELECTION ON SCREEN
1237    C
1238       40 WRITE(MESS,45)
1239       45 FORMAT(' HOW MANY SPECIFIC CODES ?  (I3)')
1240          READ(ITT,46)NUMB
1241       46 FORMAT(I3)
1242          IF(NUMB.EQ.0)STOP 111
1243          IF(NUMB.GT.20)WRITE(MESS,47)
1244       47 FORMAT(' TOO MANY -- 20 ASSUMED')
1245          IF(NUMB.GT.20)NUMB=20
1246          WRITE(MESS,48)
1247       48 FORMAT(' TYPE THEM IN ONE AT A TIME  -- (I3)')
1248          DO 50 J=1,NUMB
1249       50 READ(ITT,46)IPOSN(J)
1250          DO 55 J=1,NUMB
1251          READ(13'IPOSN(J),28)A
1252       55 WRITE(MESS,32)A
1253          STOP 777
1254          END
1255    C
1256    C
1257    C
1258    C
1259    C
1260    C
```

19

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1261          SUBROUTINE SCCHEQ(SCALE)
1262    C
1263    C
1264    C------THIS IS A SUBROUTINE TO DETERMINE FROM PREVIOUS INFO.
1265    C------THE SCALE OF THE CURRENT DATA FILES BEING USED
1266    C
1267    C------AT PRESENT THE ROUTINE CAN DETECT SCALES OF:
1268    C------      1 / 1250
1269    C------      1 / 2500
1270    C------      1 / 50000
1271    C
1272    C------IF THE ROUTINE CANNOT DISCOVER THE SCALE FROM INFO GIVEN
1273    C------IT ASKS FOR USER INTERVENTION ON LOGICAL UNIT ATTACHED TO 'MESS'
1274    C
1275    C
1276    C
1277          DIMENSION QUADR(4)
1278          DATA BL/'  '/,ZERO/'00'/,QUADR/'NE','SE','SW','NW'/
1279          COMMON/THREE/MAG,LP,ITT,MESS
1280          SCALE=0.
1281    C
1282    C------ROUTINE USES THE FIRST SHEET NAME (FILE 11 REC 2)
1283    C------TO ACT AS A SEARCH TOOL FOR THE SCALE OF ENTIRE
1284    C------FILE
1285    C
1286          READ(11'2,10)S
1287       10 FORMAT(7X,A2,3X)
1288          IF(S.EQ.BL)SCALE=2500.
1289          IF(S.EQ.ZERO)SCALE=50000.
1290          DO 20 I=1,4
1291          IF(S.EQ.QUADR(I))SCALE=1250.
1292       20 CONTINUE
1293          IF(SCALE.GT.0.)RETURN
1294    C
1295    C------UNUSUAL SHEET NAME DETECTED -- ASK FOR ASSISTANCE
1296    C
1297          WRITE(MESS,30)
1298       30 FORMAT(' TYPE IN THE SCALE OF THE MAP SHEETS  (F6.0)')
1299          READ(ITT,40)SCALE
1300       40 FORMAT(F6.0)
1301          RETURN
1302          END
1303    C
1304    C
1305    C
1306    C
1307    C
1308    C
1309          SUBROUTINE STRFY
1310    C
1311    C------THIS IS A SUBROUTINE TO GROUP SELECTED MAP SHEETS
1312    C------TOGETHER WHICH CONSTITUTE THE VARIOUS STRATA OF
1313    C------THE STRATIFIED SAMPLE NATURE OF THE DATABASE HELD
1314    C------IN FILES 11 AND 12
1315    C
1316    C------IT PERFORMS EXACTLY THE SAME AS PULOUT EXCEPT THAT
1317    C------IT ALLOWS THE GROUPING TOGETHER OF MORE THAN ONE
1318    C------SHEET AT A TIME
1319    C
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1322          DIMENSION CCOUNT(17),FCOUNT(271),FDCONT(271)
1323          DIMENSION FLINES(271),
1324         1AVE(271),SD(271),SKEW(271),RKUR(271),FDMAX(271),FDMIN(271)
1325          DIMENSION FPTS(271)
1326          DIMENSION RNAME(3),SHEET(3)
1327          DIMENSION STAT(40),TITLE(50)
1328          DIMENSION SUMCC(17),SUMFC(271),SUMFD(271),SFL(271),RMAX(271),
1329         1RMIN(271),SFPTS(271),SSTAT(40)
1330          COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
1331          COMMON/TWO/CCOUNT,FCOUNT,FDCONT,RLETT,RLINE,RILINE,TLINE,
1332         1CMDIST,IPX1,IPY1,SCALE,IPX2,IPY2,IPX,IPY,RECS,PTS,RIGNOR,RECIG
1333          COMMON/THREE/MAG,LP,ITT,MESS
1334          COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
1335         1FDMAX,FDMIN,FPTS
1336    C
1337    C------IS A RECOVERY FEASIBLE ?
1338    C
1339          READ(11'1,5)INDIC
1340        5 FORMAT(I12)
1341          IF(INDIC.LE.1)STOP 999
1342    C
1343    C------INITIALISATION OF THE ARRAYS TO HOLD THE SUMMED VARS
1344    C
1345          DO 1 I=1,17
1346        1 SUMCC(I)=0.
1347          DO 2 I=1,271
1348          SUMFC(I)=0.
1349          SUMFD(I)=0.
1350          RMAX(I)=0.
1351          RMIN(I)=32767.
1352          SFL(I)=0.
1353        2 SFPTS(I)=0.
1354          DO 3 I=1,40
1355        3 SSTAT(I)=0.
1356          KOUNT=0.
1357    C
1358    C------INTRODUCTION OF THE SUBROUTINE ENTRY TO THE USER
1359    C------AND INPUT OF A TITLE TO APPEAR AT THE TOP OF THE
1360    C------GENERATED L.P. OUTPUT
1361    C
1362          WRITE(MESS,6)
1363        6 FORMAT(/,' STRATIFICATION STATUS FOR SELECTED MAP SHEETS',//,
1364         1' GIVE A TITLE FOR THE RESULTANT OUTPUT (<=50 CHARS)')
1365          READ(ITT,7)(TITLE(I),I=1,50)
1366        7 FORMAT(50A1)
1367          WRITE(MESS,9)
1368        8 FORMAT(' OK... NOW',
1369         1' TYPE IN RIGID FORMAT (3A4) THE REQUIRED SHEETS ONE AT A TIME',
1370         2/,' THEN FINISH THE LIST WITH $ENDFILE')
1371    C
1372    C------INPUT OF REQUIRED SHEET NAME TO BE INCLUDED IN STRATA
1373    C
1374       10 READ(ITT,20,END=150)(SHEET(I),I=1,3)
1375       20 FORMAT(3A4)
1376    C
1377    C------SEARCH FOR POSITION OF REQUIRED SHEET BY SCANNING
1378    C------INDEX FILE 11
1379    C
1380          IND=INDIC-1
1381          I=1
1382       50 I=I+1
1383          IF(I.GT.IND)GOTO60
1384          READ(11'I,20)(RNAME(I),I=1,3)
1385          IF(RNAME(1).EQ.SHEET(1).AND.RNAME(2).EQ.SHEET(2).AND.RNAME(3).EQ.S
1386         1HEET(3))GOTO90
1387          GOTO50
1388       60 WRITE(MESS,65)
1389       65 FORMAT(' NO SHEET OF THIS NAME CAN BE FOUND...NOT INCLUDED ',
1390         1/,' CONTINUE SUPPLYING SHEET NAMES ')
1391          GOTO10
1392    C
1393    C------KOUNT PROVIDES A COUNT OF THE NO. OF SHEETS INCLUDED
1394    C------IN THIS STRATA
1395    C
1396       90 KOUNT=KOUNT+1
1397    C
1398    C------RETRIEVAL FROM FILE 12 OF THE INFO FOR REQ'D SHEET
1399    C
1400          IPOSN=I-1
1401          IPOSN=(IPOSN-1)*12
1402          READ(12'IPOSN+1)CCOUNT
1403          READ(12'IPOSN+2)FCOUNT
1404          READ(12'IPOSN+3)FDCONT
1405          READ(12'IPOSN+4)STAT
1406          READ(12'IPOSN+5)AVE
1407          READ(12'IPOSN+6)SD
1408          READ(12'IPOSN+7)SKEW
1409          READ(12'IPOSN+8)RKUR
1410          READ(12'IPOSN+9)FLINES
1411          READ(12'IPOSN+10)FDMAX
1412          READ(12'IPOSN+11)FDMIN
1413          READ(12'IPOSN+12)FPTS
1414    C
1415    C------DETERMINE THE SCALE OF THIS SHEET
1416    C
1417          CALL SCCHEQ(SCALE)
1418    C
1419    C------SUM THE VALUES OF THIS SHEET INTO
1420    C------ACCUMULATION ARRAYS
1421    C
1422          DO 100 I=1,17
1423      100 SUMCC(I)=SUMCC(I)+CCOUNT(I)
1424          DO 110 I=1,40
1425      110 SSTAT(I)=SSTAT(I)+STAT(I)
1426          DO 120 I=1,271
1427          SFPTS(I)=SFPTS(I)+FPTS(I)
1428          SUMFC(I)=SUMFC(I)+FCOUNT(I)
1429          SFL(I)=SFL(I)+FLINES(I)
1430      120 SUMFD(I)=SUMFD(I)+FDCONT(I)
1431          DO 125 I=1,271
1432          IF(FLINES(I).EQ.0.0)GOTO125
1433          CALL FMSET(FDMAX(I),KOUNT+1,RMAX(I),RMIN(I))
1434      125 CONTINUE
1435          DO 130 I=1,271
1436          IF(FLINES(I).EQ.0.0)GOTO130
1437          CALL FMSET(FDMIN(I),KOUNT+1,RMAX(I),RMIN(I))
1438      130 CONTINUE
```

20

```
1442     C
1443     C------DETERMINATION OF AVERAGES TO ACT AS WEIGHTS FOR
1444     C------EACH STRATA TO ENABLE COMPARISON
1445     C
1446     C------COUNTS ARE NO LONGER ABSOLUTE BUT RATIOS
1447     C
1448         150 WRITE(MESS,151)KOUNT
1449         151 FORMAT(//,1X,I4,' SHEETS',/)
1450             IF(KOUNT.LE.0)STOP 888
1451             DO 160I=1,271
1452             IF(SFL(I).EQ.0.0)GOTO160
1453             AVE(I)=(SUMFD(I)*SCALE/1000.)/SFL(I)
1454         160 CONTINUE
1455     C
1456     C
1457     C
1458             DO 170 I=1,40
1459         170 SSTAT(I)=SSTAT(I)/FLOAT(KOUNT)
1460             RLETT=SSTAT(1)
1461             RDIST=SSTAT(2)
1462             RLINE=SSTAT(3)
1463             RILINE=SSTAT(4)
1464             TLINE=SSTAT(5)
1465             CDIST=SSTAT(6)
1466             CMDIST=SSTAT(7)
1467             RECS=SSTAT(8)
1468             PTS=SSTAT(9)
1469             RIGNOR=SSTAT(10)
1470             RECIG=SSTAT(11)
1471             DO 185 I=1,271
1472             FDMAX(I)=RMAX(I)
1473             FDMIN(I)=RMIN(I)
1474             FPTS(I)=SFPTS(I)/FLOAT(KOUNT)
1475             FCOUNT(I)=SUMFC(I)/FLOAT(KOUNT)
1476             FDCONT(I)=SUMFD(I)/FLOAT(KOUNT)
1477             FLINES(I)=SFL(I)/FLOAT(KOUNT)
1478     C
1479     C------SUPPRESSION OF 2ND 3RD AND 4TH MOMENTS
1480     C
1481             SD(I)=0.
1482             SKEW(I)=0.
1483             RKUR(I)=0.
1484         185 CONTINUE
1485             DO 186 I=1,17
1486         186 CCOUNT(I)=SUMCC(I)/FLOAT(KOUNT)
1487     C
1488     C------OUTPUT TO L.P.
1489     C
1490             WRITE(LP,200)KOUNT,SCALE
1491         200 FORMAT(1H1,/,' STRATIFICATION SELECTION OF ',I4,' SHEETS ',
1492            1'FROM THE ',F7.0,' DATA',/,62('='))
1493             WRITE(LP,205)(TITLE(I),I=1,50),KOUNT
1494         205 FORMAT(1X,50A1,//,' (NOTE:- ALL COUNTS ARE MEANED FOR THE ',
1495            1I4,' SHEETS)')
1496     C
1497     C------CALL OF NEW PRINT ROUTINE 'PRINT2' TO HANDLE
1498     C------RATIO NATURE OF THE DATA
1499     C
1500             CALL PRINT2
1501
1502             WRITE(LP,210)
1503         210 FORMAT(//,' END OF STRATIFICATION RUN',////)
1504             STOP 111
1505             END
1505     C
1506     C
1507     C
1508     C
1509     C
1510     C
1511             SUBROUTINE PRINT2
1512     C
1513     C
1514     C------THIS IS A SPECIAL VERSION OF SUBROUTINE PRINT
1515     C------IT PERFORMS THE SAME FUNCTION AS 'PRINT' BUT HANDLES THE RATIO DATA
1516     C------WHICH IS PRODUCED DURING A STRATIFICATION RUN
1517     C
1518     C
1519     C
1520     C------THIS IS A SUBROUTINE TO GENERATE LINE PRINTER OUTPUT OF THE
1521     C------THE ANALYSIS RESULTS. IT EXECUTES DURING A
1522     C------STRATIFICATION RUN .
1523     C
1524     C
1525     C------RATIO DATA HANDLED BY TWO DEC PLACES IN OUTPUT VARS
1526     C
1527     C
1528             REAL*8 SUMX1(271),SUMX2(271),SUMX3(271),SUMX4(271)
1529             DIMENSION CCOUNT(17),FCOUNT(271),FDCONT(271)
1530             DIMENSION FLINES(271),
1531            1AVE(271),SD(271),SKEW(271),RKUR(271),FDMAX(271),FDMIN(271)
1532             DIMENSION FPTS(271)
1533             DIMENSION A(80)
1534             COMMON/ONE/RDIST,SQSIZE,MFLAG,REFE,REFN,CDIST,FDIST,LNTEST
1535             COMMON/TWO/CCOUNT,FCOUNT,FDCONT,RLETT,RLINE,RILINE,TLINE,
1536            1CMDIST,IPX1,IPY1,SCALE,IPX2,IPY2,IPX,IPY,RECS,PTS,RIGNOR,RECIG
1537             COMMON/THREE/MAG,LP,ITT,MESS
1538             COMMON/FOUR/SUMX1,SUMX2,SUMX3,SUMX4,FLINES,AVE,SD,SKEW,RKUR,
1539            1FDMAX,FDMIN,FPTS
1540             WRITE(LP,10)(I,CCOUNT(I),I=1,17)
1541         10 FORMAT(//,5X,'FREQUENCIES',/,5X,11('-'),///,I4,' START OF SHEET',9
1542            1X,F9.2,//,I4,' END OF SHEET',11X,F9.2,//,I4,' END OF FILE',12X,F9.
1543            22,//,I4,' START OF FEATURE',7X,F9.2,//,I4,' END OF FEATURE',9X,F9.
1544            32,//,I4,' NO ACTION (7 TRK)',6X,F9.2,//,I4,' FEATURES (LINE)',8X,F
1545            49.2,//,I4,' FEATURES (TEXT,SYMBOL)',1X,F9.2,//,I4,' GRID SQUARE IN
1546            5DICATOR',2X,F9.2,//,I4,' TEXT CLASSIFICATION',4X,F9.2,//,I4,' CHAR
1547            9ACTER CALLS ',7X,F9.2,//,I4,' NO OF ORIENTATIONS',5X,F9.2,//,I4,'
1548            7INVISIBLE LINE FLAG',4X,F9.2,//,I4,' N/A',20X,F9.2,//,I4,' DISTANC
1549            8E CALLS ',8X,F9.2,//,I4,' N/A',20X,F9.2,//,I4,' CONTOUR CALLS',10X
1550            9,F9.2,/////)
1551             WRITE(LP,15)
1552         15 FORMAT(1H1,/,21X,'FEATURES INCLUDED',/,21X,17('='),///)
1553             WRITE(LP,16)
1554         16 FORMAT(73X,'-------GROUND-------',5X,'--------GROUND--------')
1555             WRITE(LP,17)
1556         17 FORMAT(23X,'NO.',7X,'NO.',7X,'TOTAL LINE         GROUND       MEAN
1557            1      STANDARD',/,1X,'F/CODE    FREQ.       PTS       LINES        LEN
1558            2GTH (MM)        DIST (M)         DIST           DEVIATION      MAXIMUM
```

```
1562   C------SUPPRESSION OF INFO NOT RELEVANT TO CURRENT MAP SHEET
1563   C
1564         DO 22 J=1,271
1565         IF(FCOUNT(J).EQ.0.)GOTO22
1566         IF(FDCONT(J).EQ.0.)GOTO20
1567         GD=(FDCONT(J)/1000.)*SCALE
1568         WRITE(LP,18)J,FCOUNT(J),FPTS(J),FLINES(J),FDCONT(J),GD,AVE(J),FDMA
1569        1X(J),FDMIN(J)
1570      18 FORMAT(3X,I3,F10.2,F12.2,F12.2,F14.2,F14.2,F10.2,17X,F12.3,F13.3)
1571         GOTO22
1572      20 WRITE(LP,21)J,FCOUNT(J),FPTS(J)
1573      21 FORMAT(3X,I3,F10.2,F12.2)
1574      22 CONTINUE
1575         WRITE(LP,35)RLETT,RDIST
1576      35 FORMAT(////' A TOTAL NUMBER OF ',F10.2,' CHARACTERS EXIST',//,' TO
1577        1TAL DISTANCE OF -15 CODED LINES = ',F10.2,' GND. METRES',/)
1578         CMDIST=CDIST*100/SCALE
1579         TLINE=RLINE+RILINE
1580         WRITE(LP,45)RLINE,RILINE,TLINE,CDIST,CMDIST
1581      45 FORMAT(' TOTAL INKED IN LINES  = ',F12.2,//,' TOTAL INVISIBLE'
1582        1,' LINES = ',F12.2,//,' TOTAL LINES GENERATED =',
1583        21X,F12.2,//,' TOTAL DISTANCE GENERATED BY LINES = ',F15.2,' M'
1584        3,'ETRES AT GROUND SCALE',/,35X,'= ',F15.3,' CMS AT MAP SCALE')
1585         WRITE(LP,50)RECS,PTS
1586      50 FORMAT(//,' NUMBER OF RECORDS IN THE FILE = ',F17.2,//,' NUMBER ',
1587        1'OF POINTS IN THE FILE  = ',F17.2)
1588         WRITE(LP,54)RIGNOR,RECIG
1589      54 FORMAT(/,' NUMBER OF IGNORED CODES (0 OR >271)    = ',F12.2,//,
1590        1' NUMBER OF IGNORED RECORDS (0 OR >271)  = ',F12.2)
1591   C
1592   C
1593   C------OUTPUT OF THE FEATURE CODE DESCRIPTIONS FOR THIS SHEET
1594   C
1595   C
1596         WRITE(LP,60)
1597      60 FORMAT(//,' FEATURE CODE DESCRIPTION ',/,1X,24('-'),//,
1598        1'  FEATURE     FEATURE',/,'   CODE       TYPE',20X,
1599        2' DESCRIPTION',/,1X,9('-'),1X,9('-'),17X,13('-'),//)
1600         DO 65 I=1,271
1601         IF(FCOUNT(I).EQ.0.)GOTO65
1602         READ(13'I,62)A
1603         WRITE(LP,63)A
1604      62 FORMAT(80A1)
1605      63 FORMAT(20A1,10X,60A1)
1606      65 CONTINUE
1607   C
1608   C------PRINT A LINE ACROSS  PAPER TO SIGNIFY END OF INFO
1609   C
1610         WRITE(LP,70)
1611      70 FORMAT(//,120('-'),//)
1612         RETURN
1613         END
END OF FILE
```

22

```
AAAAAAAAA     NN        NN  NN        NN  EEEEEEEEEEEE  XX        XX              3333333333
AAAAAAAAAAAA  NNN       NN  NNN       NN  EEEEEEEEEEEE  XX        XX              333333333333
AA        AA  NNNN      NN  NNNN      NN  EE               XX    XX               33        33
AA        AA  NN NN     NN  NN NN     NN  EE                 XX  XX                         33
AA        AA  NN  NN    NN  NN  NN    NN  EE                  XXXX                          33
AAAAAAAAAAAA  NN   NN   NN  NN   NN   NN  EEEEEEEE            XXXX                        3333
AAAAAAAAAAAA  NN   NN   NN  NN   NN   NN  EEEEEEEE            XXXX                        3333
AA        AA  NN    NN  NN  NN    NN  NN  EE                 XX  XX                         33
AA        AA  NN     NNNN   NN     NNNN   EE                XX    XX                        33
AA        AA  NN      NNN   NN      NNN   EE               XX        XX            33       33
AA        AA  NN       NN   NN       NN   EEEEEEEEEEEE  XX        XX               333333333333
AA        AA  NN        N   NN        N   EEEEEEEEEEEE  XX        XX                3333333333
```

23

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FREQUENCIES

```
 1 START OF SHEET            1.
 2 END OF SHEET             1.
 3 END OF FILE              0.
 4 START OF FEATURE      2100.
 5 END OF FEATURE        2100.
 6 NO ACTION (7 TRK)        0.
 7 FEATURES (LINE)       1804.
 8 FEATURES (TEXT,SYMBOL) 296.
 9 GRID SQUARE INDICATOR  3266.
10 TEXT CLASSIFICATION     259.
11 CHARACTER CALLS         259.
12 NO OF ORIENTATIONS     1997.
13 INVISIBLE LINE FLAG     377.
14 N/A                      0.
15 DISTANCE CALLS           0.
16 N/A                      0.
17 CONTOUR CALLS            0.
```

FEATURES INCLUDED
=====================

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND---- MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	-------GROUND------ MAXIMUM	MINIMUM
1	19.	228.	209.	816.6	1020.79	4.9	5.559	2.4620	8.246	36.70	0.06
2	192.	673.	486.	1175.5	1470.59	3.0	2.018	2.2587	10.127	18.25	0.25
3	137.	1547.	1410.	5665.1	7081.32	5.0	5.569	4.9101	43.547	31.19	0.06
4	37.	133.	96.	216.6	270.81	2.8	4.637	4.5260	26.552	36.10	0.06
6	10.	20.	10.	59.6	74.51	7.5	1.796	0.3995	-1.164	10.35	5.07
12	3.	3.									
13	3.	3.									
16	6.	134.	123.	1659.3	2039.17	16.0	10.160	0.8367	1.917	57.57	0.73
17	1.	21.	20.	347.9	434.93	21.7	9.743	0.4007	1.309	48.77	2.45
20	1.	2.	1.	1.0	1.24	1.2	0.0	0.0	0.0	1.24	1.24
21	74.	1852.	1778.	4709.2	5386.48	3.3	7.674	7.7670	91.076	108.31	0.0
22	39.	784.	755.	3560.8	4450.43	5.9	10.121	6.3559	56.057	136.05	0.06
23	2.	55.	53.	71.8	89.86	1.7	1.094	1.1832	1.379	5.25	0.09
24	1.	1.									
26	9.	9.									
27	12.	12.									
28	259.	259.									
29	85.	1504.	1419.	5425.2	6731.55	4.8	6.919	5.0675	42.417	91.73	0.0
30	778.	3661.	2883.	10127.3	12659.18	4.4	6.319	3.7489	23.402	36.38	0.0
31	8.	55.	47.	90.4	112.97	2.4	3.278	3.7331	16.932	20.46	0.09
32	138.	2001.	1803.	3720.8	4650.95	2.5	3.651	5.2123	44.141	49.81	0.0
34	10.	23.	13.	78.5	98.09	7.5	3.717	-0.0692	-0.640	14.30	0.94
35	7.	68.	53.	160.6	200.81	3.5	5.983	5.2058	31.007	43.25	0.09
37	2.	2.									
52	254.	1260.	946.	1038.4	1297.97	1.4	0.805	3.3806	17.300	7.75	0.06
57	5.	5.									
64	1.	4.	3.	17.0	21.27	7.1	0.0	0.0	0.0	14.82	2.45
69	1.	1.									
70	1.	1.									
78	1.	99.	98.	493.6	617.04	6.3	15.819	5.4606	31.363	132.87	0.09
84	4.	417.	413.	376.3	470.38	1.1	0.732	1.3431	2.200	4.04	0.06

A TOTAL NUMBER OF   1815. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0. GND. METRES.

TOTAL INKED IN LINES   =   12312.

TOTAL INVISIBLE LINES =   377.

TOTAL LINES GENERATED =   12689.

TOTAL DISTANCE GENERATED BY LINES =   49719.37 METRES AT GROUND SCALE
                                   =   3977.549 CMS AT MAP SCALE

NUMBER OF POINTS IN THE FILE = 1920 .

NUMBER OF IGNORED CODES (0 OR >271)   =   0 .

NUMBER OF IGNORED RECORDS (0 OR >271)   =   0 .

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING — PUBLIC
2	LINE	BUILDING — MINOR
3	LINE	BUILDING — OTHER
4	LINE	BUILDING — OPEN SIDED
6	LINE	ARCHWAY SYMBOL
12	POINT	BOUNDARY — MEREING SYMBOL FULL
13	POINT	BOUNDARY — MEREING SYMBOL HALF
15	LINE	RAILWAY — STANDARD GUAGE
17	LINE	BOUNDARY — GENERAL
20	LINE	RAILWAY — SWITCH
21	LINE	ROAD PECKS (CARRIAGEWAY)
22	LINE	ROAD — CENTRE LINE
23	LINE	PATH (UM)
24	POINT	MINOR CONTROL POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC — NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
37	POINT	TELEPHONE CALL BOX — GPO
52	LINE	STEP TREADS
57	POINT	POINT FEATURES — DOT
64	LINE	SINGLE STREAM
69	POINT	FLOW ARROW — SMALL
70	POINT	CULVERT BAR
78	LINE	BOUNDARY — WARD
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)

FREQUENCIES

1	START OF SHEET	268.
2	END OF SHEET	268.
3	END OF FILE	0.
4	START OF FEATURE	384197.
5	END OF FEATURE	384196.
6	NO ACTION (7 TRK)	26859.
7	FEATURES (LINE)	313585.
8	FEATURES (TEXT,SYMBOL)	70612.
9	GRID SQUARE INDICATOR	623586.
10	TEXT CLASSIFICATION	59421.
11	CHARACTER CALLS	59421.
12	NO OF ORIENTATIONS	384136.
13	INVISIBLE LINE FLAG	13117.
14	N/A	0.
15	DISTANCE CALLS	39.
16	N/A	0.
17	CONTOUR CALLS	0.

FEATURES INCLUDED
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F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	GROUND MAXIMUM	MINIMUM
1	1084.	17121.	16037.	72342.2	90602.69	5.7	7.261	2.9496	18.442	122.26	0.0
2	28553.	127611.	99058.	244124.7	305155.81	3.1	2.571	6.5897	174.750	126.58	0.0
3	49994.	464390.	414396.	1923975.0	2404969.00	5.8	7.145	5.5827	37.387	423.89	0.0
4	12707.	35984.	23277.	86144.2	107680.19	4.6	6.867	6.3914	70.923	159.69	0.0
5	148.	334.	186.	1295.4	1516.75	8.7	9.006	2.5930	8.809	59.22	0.14
6	1878.	3801.	1923.	14313.1	19641.36	9.7	6.367	9.2464	131.373	114.43	0.59
7	20.	849.	829.	3499.5	4374.42	5.5	7.475	6.3090	70.143	116.06	0.06
8	114.	4103.	3989.	16175.6	20216.88	5.1	6.410	4.2558	35.284	106.83	0.0
10	58.	2189.	2131.	15181.9	18977.52	8.9	15.448	4.5545	28.151	163.99	0.0
11	1.	1.									
12	187.	187.									
13	96.	96.									
14	16.	270.	254.	1206.7	1508.34	5.9	19.250	4.9425	24.042	127.26	0.0
15	3296.	44293.	40997.	366234.9	457793.56	11.2	18.658	11.1084	215.970	512.36	0.0
16	21.	120.	99.	593.3	856.55	8.8	7.227	0.8291	-0.227	29.97	0.09
17	1.	21.	20.	347.9	434.93	21.7	9.743	0.4007	1.309	48.77	2.45
18	2.	50.	48.	675.4	844.19	17.6	19.820	1.9470	2.940	87.56	0.14
19	24.	150.	126.	2916.4	3645.55	28.9	36.347	2.1861	5.633	209.05	0.63
20	1137.	2287.	1150.	1315.7	1645.82	1.4	0.275	4.5677	61.348	5.07	0.0
21	8963.	307654.	298691.	992005.4	1240085.00	4.2	8.337	6.3699	86.726	325.55	0.0
22	50.	1038.	988.	4403.1	5510.14	5.6	9.213	6.6021	63.771	136.05	0.06
23	142.	3669.	3527.	14745.7	18429.63	5.2	10.534	8.1195	94.039	201.38	0.0
24	2284.	2284.									
25	17.	17.									
26	1226.	1226.									
27	2740.	2740.									
28	59439.	59419.									
29	19038.	166691.	147653.	719802.0	899752.19	6.1	6.768	4.3786	40.113	214.87	0.0
30	144735.	505261.	361016.	2319261.0	2899076.00	8.0	8.723	3.1085	27.338	238.29	0.0
31	6763.	84670.	77907.	252525.3	315655.56	4.1	6.929	5.0236	49.651	203.59	0.0
32	17224.	179802.	162578.	578027.4	722534.13	4.4	7.717	7.8152	193.297	402.62	0.0
33	226.	1165.	939.	8762.6	10952.96	11.7	27.754	13.6819	225.300	504.51	0.0
34	362.	1056.	694.	5511.4	6889.30	9.9	8.928	1.6499	3.861	55.02	0.0
35	372.	10645.	10273.	22385.5	28606.83	2.8	4.907	7.7993	100.745	113.17	0.0
36	23.	912.	889.	1560.1	1950.18	2.2	3.730	4.7807	29.778	35.66	0.0
37	325.	325.									
44	1.	4.	3.	187.3	234.79	78.3	0.0	0.0	0.0	108.74	37.92
45	5.	67.	62.	97.9	122.42	2.0	2.630	2.6993	6.157	15.29	0.20
47	51.	197.	136.	9945.3	12431.65	91.4	75.676	1.2089	1.125	325.96	1.06
48	1.	1.									
49	39.	39.									
51	36.	35.									
52	8638.	36564.	27926.	32671.1	40838.85	1.5	1.289	9.6242	157.768	58.77	0.0
54	3.	3.									
55	6.	94.	88.	1469.7	1837.09	20.9	54.306	8.0312	69.227	505.74	0.46
57	3857.	3857.									
58	26.	26.									
			20073.	47329.6	59161.98	1.9	3.658	12.0034	309.905	174.35	0.0
							6.05	3.9426	26.112	115.22	0.0

	157.				1.102.4	2.0	3.605	6.0090	76.707	76.60	0.0
65	235.	6060.	5925.	16120.2	20150.24	3.5	5.601	7.3310	107.407	132.47	0.0
66	89.	2384.	2205.	960.3.1	12002.90	5.2	10.034	5.5336	48.283	152.32	0.0
67	2.	2.									
68	61.	61.									
69	132.	132.									
70	157.	157.									
71	84.	3668.	3534.	9226.6	11533.21	3.2	5.271	3.8585	23.958	73.55	0.0
72	10.	2133.	2123.	2561.3	3325.95	1.6	1.546	3.5247	24.944	19.30	0.0
78	129.	5434.	5305.	33383.9	42454.87	8.0	13.004	5.4615	46.021	185.08	0.0
79	2.	39.	37.	330.5	488.09	13.2	19.415	2.3763	5.600	90.80	0.14
80	37.	816.	779.	3585.4	4431.75	5.8	8.777	3.9147	22.841	90.07	0.05
81	76.	2362.	2286.	7736.9	9571.07	4.2	4.823	4.1420	48.764	89.88	0.0
83	2002.	16172.	14170.	61492.7	76865.83	5.4	7.430	3.2539	18.729	115.44	0.0
84	13.	798.	785.	825.0	1031.25	1.3	1.950	7.5893	72.046	24.74	0.0
85	9.	37.	78.	1240.7	1558.84	19.9	31.631	3.0469	10.774	188.96	0.13
86	6.	42.	36.	771.3	964.18	26.5	49.517	2.2455	4.300	210.77	1.09
88	5.	68.	63.	424.9	531.12	3.4	12.692	2.7401	7.106	58.17	1.13
89	88.	2180.	2092.	15350.0	19187.64	9.2	12.176	3.7679	21.813	146.97	0.0
90	164.	4646.	4482.	34177.1	42721.25	9.5	15.128	4.4343	27.800	182.60	0.0
91	11.	832.	821.	1530.0	1912.51	2.3	2.542	7.3158	82.883	42.82	0.0
92	12.	284.	272.	1434.5	1808.15	6.9	9.853	3.4868	14.528	50.91	0.14
93	118.	2557.	2439.	22273.7	27345.78	11.4	19.972	5.1247	41.779	307.53	0.0
94	5.	383.	378.	696.3	870.43	2.3	2.929	8.0492	79.021	35.24	0.0
95	7.	35.	28.	477.5	596.83	21.3	9.030	0.2256	-0.974	39.25	7.46
96	294.	6188.	5894.	52131.7	65152.11	11.1	18.263	4.3441	27.775	257.09	0.0
97	73.	1864.	1791.	9994.2	12492.73	7.0	12.128	5.6203	51.670	175.23	0.06
98	2340.	31475.	29135.	253724.3	317155.25	10.9	18.408	4.4399	33.159	287.54	0.0
99	8.	518.	510.	475.1	593.63	1.2	1.011	1.6935	2.405	5.76	0.06
100	115.	2405.	2290.	20510.9	25638.63	11.2	17.141	7.1040	84.843	318.44	0.0
101	22.	335.	311.	4934.8	6168.46	19.8	37.054	5.3671	42.351	499.22	0.28
102	215.	4393.	4178.	27270.7	34088.36	8.2	12.711	7.0626	73.173	187.60	0.0
103	147.	294.	147.	2411.1	3013.89	20.5	12.324	1.3107	1.963	68.30	2.07
104	1.	2.	1.	1.1	1.32	1.3	0.0	0.0	0.0	1.32	1.32
108	374.	5744.	5370.	12883.9	16111.09	3.0	5.152	4.0912	24.621	53.82	0.0
109	4.	8.	4.	4.9	6.10	1.5	0.324	0.6597	-1.755	2.00	1.30

A TOTAL NUMBER OF 537299. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   3411. GND. METRES

TOTAL INKED IN LINES = 1840201.

TOTAL INVISIBLE LINES =   13117.

TOTAL LINES GENERATED = 1853318.

TOTAL DISTANCE GENERATED BY LINES =   10533100.00 METRES AT GROUND SCALE
                                       =   542647.938 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   5287610.

NUMBER OF POINTS IN THE FILE =   2237495.

NUMBER OF IGNORED CODES (0 OR >271)   =   2245.

NUMBER OF IGNORED RECORDS (0 OR >271) =   73151.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	BUILDING DIVISION - BROKEN LINE
6	LINE	ARCHWAY SYMBOL
7	LINE	BOUNDARY - PARISH OR COMMUNITY
8	LINE	BOUNDARY - DISTRICT
10	LINE	BOUNDARY - ELECTORAL DIVISION
11	POINT	BOUNDARY - POST OR STONE
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
14	LINE	RAILWAY - NARROW GUAGE
15	LINE	RAILWAY - STANDARD GUAGE
16	LINE	RAILWAY - UNDERGROUND
17	LINE	BOUNDARY - GENERAL
18	LINE	RAILWAY - DISUSED, CENTRE LINE
19	LINE	RAILWAY - DISMANTLED CENTRE LINE
20	LINE	RAILWAY - SWITCH
21	LINE	ROAD PECKS (CARRIAGEWAY)
22	LINE	ROAD - CENTRE LINE
23	LINE	PATH (UP)
24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
33	LINE	TUNNEL ALIGNMENT
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - SPO
44	LINE	PIPE LINE - OBSTACLE
45	LINE	PIPE LINE - SUSPENDED OR NON OBSTACLE
47	LINE	ELECTRICITY TRANSMISSION LINE
48	POINT	ELECTRICITY PYLON - STANDARD
49	POINT	ELECTRICITY PYLON - SURVEYED
51	POINT	ELECTRICITY POSTS (SURVEYED)
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES - DOT

61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
67	POINT	FLOW ARROW - LARGE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
71	LINE	MEAN HIGH WATER (MHWS)
72	LINE	MEAN LOW WATER (MLWS)
78	LINE	BOUNDARY - WARD
79	LINE	BOUNDARY - PARLY CONST
80	LINE	CL - TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
85	LINE	CL MOTORWAY DUAL CARRIAGEWAY
86	LINE	CL MOTORWAY SINGLE CARRIAGEWAY
88	LINE	CL MOTORWAY SLIP ROAD
89	LINE	CL TRUNK/MAIN DUAL CARRIAGEWAY
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
91	LINE	CL TRUNK/MAIN ROUNDABOUT
92	LINE	CL SECONDARY DUAL CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
94	LINE	CL SECONDARY ROUNDABOUT
95	LINE	CL MINOR DUAL CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
99	LINE	CL MINOR ROUNDABOUT
100	LINE	CL RAILWAY - MULTIPLE TRACK
101	LINE	CL RAILWAY - SINGLE TRACK
102	LINE	CL RAILWAY - SIDINGS
103	LINE	ALIGNMENT FEATURE
104	LINE	NORMAL TIDAL HEIGHT
108	LINE	SURVEYED PECKS (BANKS ETC)
109	LINE	RAILWAY - BUFFERS / RETARDERS

CURRENT LIST OF MAP SHEETS BEEN PROCESSED
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NZ 2641NE	NZ 2642NE	SP 585NW	SP 585NE	SP 586SE	SP 586NW	SP 587SE
SP 588SW	SP 588SE	SP 588NW	SP 588NE	SP 685SW	SP 785SW	SP 785SE
SP 785NW	SP 785NE	SP 686SW	SP 686NW	SP 686NE	SP 786SW	SP 786SE
SP 786NW	SP 786NE	SP 687SW	SP 687SE	SP 687NW	SP 687NE	SP 787SW
SP 787SE	SP 787NW	SP 787NE	SP 688SW	SP 688SE	SP 688NW	SP 688NE
SP 788SW	SP 788SE	SP 788NW	SP 788NE	SP 985SE	SP 885NE	SP 985SW
TQ 6693SW	TQ 6693SE	TQ 6693NE	TQ 6793SW	TQ 6793SE	TQ 6793NW	TQ 6793NE
TQ 6694SW	TQ 6694NW	TQ 6694NE	TQ 6794SW	TQ 6794SE	TQ 6794NW	TQ 6794NE
TQ 6892SW	TQ 6892SE	TQ 6892NW	TQ 6892NE	TQ 6693NW	SK 22 3SW	SK 22 3SE
SK 22 3NE	SE 1830SW	SE 1830SE	SE 1830NE	SE 1930SW	SE 1930SE	SE 1930NW
SE 1930NE	SE 1831SW	SE 1831SE	SE 1831NW	SE 1831NE	SE 1931SW	SE 1931SE
SE 1931NW	SE 1931NE	SE 1832SW	SE 1832SE	SE 1832NW	SE 1832NE	SE 1932SW
SE 1932SE	SE 1932NW	SU 67 9SE	SU 67 9NE	SU 4012SW	SU 4012SE	SU 4012NW
SU 4112SW	SU 4013SW	SU 4014NW	SU 4212NW	SU 4213SW	SU 4213NE	SU 4313SE
SU 4313NW	SU 4313NW	SU 4214SW	SU 4314SW	SU 4314SE	SU 4314NW	SU 4314NE
SU 6711NE	SU 6812SE	NZ 2651SE	NZ 2651NW	NZ 2651NE	NZ 2751SW	NZ 2751SE
NZ 2751NW	NZ 2751NE	NZ 2652SW	NZ 2652SE	SP 985SE	SP 985NW	SP 985NE
SP 866SW	SP 866SE	SP 866NW	SP 866NE	SP 986SW	SP 985SE	SP 986NW
SP 887SW	SP 887SE	SP 887NW	SP 887NE	SP 987SW	SP 987NW	SP 888SW
SP 888SE	SP 888NW	SP 988SW	SP 988SE	SP 988NW	SP 988NE	NZ 2551SW
NZ 2551SE	NZ 2551NW	NZ 2551NE	NZ 2552SW	NZ 2552SE	NZ 2552NW	NZ 2552NE
NZ 2553SW	NZ 2553SE	NZ 2553NW	NZ 2553NE	NZ 2554SW	NZ 2554SE	NZ 2554NW
NZ 2554NE	NZ 2651SW	NZ 2652NE	NZ 2752SW	NZ 2752SE	NZ 2752NW	NZ 2752NE
NZ 2653SW	NZ 2653SE	NZ 2653NW	NZ 2653NE	NZ 2753SW	NZ 2753SE	NZ 2753NW
NZ 2753NE	NZ 2654SW	NZ 2654SE	NZ 2654NW	NZ 2654NE	NZ 2754SW	NZ 2754SE

SP 589SW	SP 589SE	SP 589NW	SP 589NE	SP 639SW	SP 689SE	SP 639NW
SP 689NE	SP 789SW	SP 789NW	SP 789NE	SP 889SW	SP 989NW	SP 889NE
SP 989SW	SP 989SE	SP 989NW	SP 989NE	SK 21 2SW	SK 22 2NW	SU 4113SW
SU 4113SE	SU 4113NW	SU 4113NE	SU 4014SW	SU 4014SE	SU 4014NE	SU 4114SW
SU 4114SE	SU 4114NW	SU 4114NE	SU 4212SW	SU 4212SE	SU 4212NE	SU 4312SW
SU 4312SE	SU 4312NW	SU 4312NE	SU 4313SW	SU 4313NE	SU 4214SE	SU 4214NW
SU 4214NE	SU 6711SW	SU 6711SE	SU 6812NE	SK 20 2SW	SK 20 2SE	SK 20 2NW
SK 20 2NE	SK 21 2SE	SK 21 2NW	SK 21 2NE	SK 20 3SW	SK 20 3SE	SK 20 3NW
SK 20 3NE	SK 21 3SW	SK 21 3SE	SK 21 3NW	SK 21 3NE	SK 20 4SW	SK 20 4SE
SK 20 4NW	SK 20 4NE	SK 21 4SW	SK 21 4SE	SK 21 4NW	SK 21 4NE	SK 22 2SW
SK 22 2SE	SK 22 2NE	SK 22 3NW	SK 22 4SW	SK 22 4SE	SK 22 4NW	SK 22 4NE
SU 6810SW	SP 8968SE					

A TOTAL OF 268 MAP SHEETS HAVE BEEN PROCESSED

END OF STATUS RUN --- (07-16-79)

29

(NOTE:- ALL COUNTS ARE MEANED FOR THE 47 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	336.38
5	END OF FEATURE	336.38
6	NO ACTION (7 TRK)	92.32
7	FEATURES (LINE)	692.93
3	FEATURES (TEXT,SYMBOL)	143.40
9	GRID SQUARE INDICATOR	1441.38
10	TEXT CLASSIFICATION	120.34
11	CHARACTER CALLS	120.34
12	NO OF ORIENTATIONS	336.68
13	INVISIBLE LINE FLAG	17.23
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

30

FEATURES INCLUDED
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F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	-------GROUND------- MEAN DIST	STANDARD DEVIATION	-------GROUND------- MAXIMUM	MINIMUM
1	1.04	16.66	15.52	81.90	102.38	5.58		42.350	0.0
2	67.13	303.36	236.23	700.01	875.01	3.70		54.159	0.0
3	106.13	953.72	847.60	4475.91	5594.88	6.60		236.498	0.0
4	10.04	26.87	16.83	76.63	95.79	5.69		80.443	0.0
5	0.02	0.06	0.04	0.16	0.19	4.57		5.883	3.255
6	1.23	2.55	1.32	8.75	10.94	8.29		43.085	1.405
7	0.36	15.13	14.77	61.03	76.28	5.17		116.056	0.063
8	0.81	41.15	40.34	129.27	161.58	4.01		89.199	0.063
10	0.09	15.00	14.91	31.51	39.39	2.64		61.506	0.0
12	1.49	1.49							
13	0.47	0.47							
14	0.02	1.30	1.28	2.73	3.41	2.67		43.965	0.451
15	4.30	50.47	46.17	788.77	985.96	21.35		505.229	0.0
16	0.04	0.09	0.04	0.75	0.94	22.02		22.381	21.660
19	0.15	1.53	1.36	23.24	35.30	25.52		110.350	0.625
20	0.36	0.72	0.36	0.42	0.53	1.45		1.668	1.288
21	33.02	1092.06	1059.04	3203.25	4004.06	3.78		163.251	0.0
23	1.28	33.66	32.38	133.23	166.54	5.14		143.546	0.0
24	0.06	0.06							
25	0.04	0.04							
26	1.53	1.53							
27	4.49	4.49							
28	120.51	120.32							
29	37.53	519.66	482.13	2162.39	2702.99	5.61		210.030	0.0
30	323.43	1207.72	884.30	5943.79	7429.73	8.40		232.172	0.0
31	10.21	133.51	123.30	458.73	573.41	4.65		113.454	0.0
32	66.17	750.66	684.49	2955.10	3693.88	5.40		402.624	0.0
33	0.57	1.19	0.62	4.33	5.41	8.78		16.300	3.527
34	0.28	0.91	0.64	2.87	3.59	5.62		21.762	0.946
35	3.70	103.17	99.47	235.83	294.79	2.96		87.474	0.0
36	0.04	0.55	0.51	1.04	1.30	2.55		6.481	0.280
37	0.40	0.40							
47	0.13	0.70	0.57	50.08	62.60	108.97		200.255	1.063
51	0.77	0.77							
52	17.83	46.72	28.39	36.42	45.52	1.58		8.633	0.088
54	0.02	0.02							
57	12.00	12.00							
58	0.40	0.40							
59	2.28	176.60	174.32	212.97	266.22	1.53		174.347	0.0
61	0.09	1.21	1.13	1.77	2.22	1.97		6.016	0.063
62	0.17	15.83	15.66	14.70	18.38	1.17		7.220	0.0
64	0.87	33.17	32.30	37.11	46.38	1.44		32.378	0.0
65	0.77	18.79	18.02	55.23	69.04	3.83		61.236	0.0
68	0.43	0.43							
69	0.45	0.45							
70	0.45	0.45							
78	0.11	15.47	15.36	36.83	46.03	3.00		53.872	0.0
80	0.17	3.17	3.00	15.87	19.83	6.61		61.863	0.063

98	0.11	4.62	4.51	19.49	24.36	5.40		25.523	0.063
103	0.30	0.60	0.30	3.19	3.99	13.39		23.521	5.498
108	0.15	0.62	0.47	1.72	2.14	4.58		16.905	0.760

A TOTAL NUMBER OF   656.08 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0.0 GND. METRES

TOTAL INKED IN LINES =   4908.96

TOTAL INVISIBLE LINES =   17.23

TOTAL LINES GENERATED =   4926.19

TOTAL DISTANCE GENERATED BY LINES =   27607.11 METRES AT GROUND SCALE
                                  =   2208.568 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   12520.53

NUMBER OF POINTS IN THE FILE =   5762.38

NUMBER OF IGNORED CODES (0 OR >271)   =   17.53

NUMBER OF IGNORED RECORDS (0 OR >271) =   504.60

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	BUILDING DIVISION - BROKEN LINE
6	LINE	ARCHWAY SYMBOL
7	LINE	BOUNDARY - PARISH OR COMMUNITY
8	LINE	BOUNDARY - DISTRICT
10	LINE	BOUNDARY - ELECTORAL DIVISION
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
14	LINE	RAILWAY - NARROW GUAGE
15	LINE	RAILWAY - STANDARD GUAGE
16	LINE	RAILWAY - UNDERGROUND
19	LINE	RAILWAY - DISMANTLED CENTRE LINE
20	LINE	RAILWAY - SWITCH
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK

27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
33	LINE	TUNNEL ALIGNMENT
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
47	LINE	ELECTRICITY TRANSMISSION LINE
51	POINT	ELECTRICITY POSTS (SURVEYED)
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER (.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
78	LINE	BOUNDARY - WARD
80	LINE	CL - TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
98	LINE	CL MINOR - OTHER ROADS
103	LINE	ALIGNMENT FEATURE
108	LINE	SURVEYED PECKS (BANKS ETC)

END OF STRATIFICATION RUN

DENSE URBAN / FLAT (BIRMINGHAM)

(NOTE:- ALL COUNTS ARE MEANED FOR THE   65 SHEETS)

FREQUENCIES

1 START OF SHEET	1.00
2 END OF SHEET	1.00
3 END OF FILE	0.0
4 START OF FEATURE	1932.48
5 END OF FEATURE	1932.46
6 NO ACTION (7 TRK)	102.63
7 FEATURES (LINE)	1535.28
8 FEATURES (TEXT,SYMBOL)	397.20
9 GRID SQUARE INDICATOR	3043.11
10 TEXT CLASSIFICATION	335.13
11 CHARACTER CALLS	335.13
12 NO OF ORIENTATIONS	1932.69
13 INVISIBLE LINE FLAG	94.68
14 N/A	0.0
15 DISTANCE CALLS	0.12
16 N/A	0.0
17 CONTOUR CALLS	0.0

32

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	MINIMUM
1	7.58	130.13	122.60	502.57	628.22	5.12		62.737	0.0
2	73.91	324.62	250.71	530.29	662.86	2.64		90.226	0.0
3	235.62	2265.91	2030.29	9946.74	12433.42	6.12		423.895	0.0
4	75.26	237.00	161.74	625.07	781.34	4.83		159.688	0.0
5	1.63	3.75	2.12	15.96	19.95	9.40		59.223	0.140
6	18.09	36.55	18.46	149.47	186.84	10.12		114.430	1.338
8	0.02	0.09	0.08	1.02	1.27	16.57		25.001	13.188
10	0.32	7.54	9.22	81.88	102.35	11.11		143.753	0.0
12	0.34	0.34							
13	0.32	0.32							
14	0.06	0.85	0.78	1.84	2.29	2.92		25.430	0.063
15	16.46	204.75	188.29	1488.73	1860.91	9.88		217.778	0.0
16	0.22	1.58	1.37	8.36	10.45	7.63		29.974	0.088
19	0.18	0.66	0.43	19.10	23.87	50.06		209.047	2.809
20	5.91	11.86	5.95	6.79	8.49	1.43		3.109	0.850
21	45.15	1356.40	1311.25	5080.77	6350.96	4.84		325.361	0.0
24	11.77	11.77							
25	0.06	0.06							
26	8.48	8.48							
27	18.38	18.38							
28	335.29	335.17							
29	92.22	595.08	503.66	2840.99	3551.23	7.05		214.867	0.0
30	745.25	2404.52	1659.28	9981.71	12477.14	7.52		184.184	0.0
31	34.66	390.03	354.38	1356.87	1696.09	4.79		203.588	0.0
32	72.28	760.02	687.74	1958.42	2448.03	3.56		123.805	0.0
33	1.97	11.54	9.57	103.89	129.86	13.57		504.513	0.063
34	3.15	9.85	6.69	56.57	70.71	10.57		55.018	0.0
35	0.54	8.12	7.58	18.32	22.89	3.02		35.351	0.063
36	0.11	5.72	5.62	4.69	5.87	1.04		7.256	0.063
37	2.13	2.13							
45	0.05	0.97	0.92	1.14	1.43	1.54		15.290	0.198
47	0.08	0.15	0.08	9.80	12.24	159.17		276.583	87.843
49	0.12	0.12							
52	62.78	280.51	217.72	266.07	332.59	1.53		38.772	0.0
57	19.48	19.48							
58	0.02	0.02							
59	1.63	19.55	17.92	86.52	108.15	6.03		93.746	0.063
60	2.88	47.29	44.42	223.81	279.76	6.30		115.291	0.0
61	0.08	1.08	1.00	2.36	3.57	3.57		23.620	0.177
62	0.05	3.43	3.43	2.62	3.27	0.95		9.210	0.063
66	0.75	11.29	10.54	84.52	105.65	10.03		152.324	0.0
68	0.17	0.17							
69	0.22	0.22							
78	0.62	18.58	17.97	171.91	214.89	11.96		185.080	0.063
79	0.03	0.60	0.57	6.01	7.51	13.19		90.663	0.140
80	0.08	1.15	1.03	6.96	8.69	8.07		25.280	0.063
81	0.12	1.75	1.63	7.45	9.31	5.71		31.201	0.063
82	7.00	46.85	38.75	156.04	195.05	5.03		81.604	0.063

88	0.08	1.05	0.77	6.56	8.17	3.43	140.968	3.414
89	1.02	24.78	23.77	161.73	202.16	8.51	140.968	0.0
90	1.46	40.68	39.20	273.27	341.59	8.71	182.600	0.0
91	0.09	7.55	7.46	16.09	20.11	2.69	42.818	0.0
92	0.17	4.17	4.00	19.38	24.22	6.06	55.633	0.140
93	1.37	25.12	23.75	235.50	294.49	12.40	307.329	0.0
94	0.03	2.85	2.82	5.41	6.77	2.40	35.241	0.0
95	0.11	0.54	0.43	7.35	9.18	21.32	39.249	7.463
96	2.17	35.91	33.74	385.05	481.31	14.27	257.093	0.0
97	0.25	2.78	2.54	30.27	37.83	14.90	104.620	0.063
98	15.89	189.92	174.03	1728.95	2161.19	12.42	287.545	0.0
99	0.03	1.95	1.92	3.99	4.99	2.59	5.764	0.088
100	0.94	13.94	13.00	127.44	159.29	12.25	262.945	0.063
101	0.20	5.17	2.97	54.56	68.20	22.97	173.098	0.280
102	0.97	17.09	16.12	122.96	153.70	9.53	153.826	0.063
103	0.48	0.95	0.48	7.42	9.28	19.46	33.225	4.352
104	2.83	55.80	52.97	110.61	138.27	2.61	45.269	0.0

A TOTAL NUMBER OF   2050.75 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   11.03 GND. METRES

TOTAL INKED IN LINES   =   8002.23

TOTAL INVISIBLE LINES =   94.68

TOTAL LINES GENERATED =   8096.91

TOTAL DISTANCE GENERATED BY LINES =   48903.32 METRES AT GROUND SCALE
                                  =   3912.265 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   25377.69

NUMBER OF POINTS IN THE FILE =   10029.26

NUMBER OF IGNORED CODES (0 OR >271)   =   3.69

NUMBER OF IGNORED RECORDS (0 OR >271) =   78.91

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	BUILDING DIVISION - BROKEN LINE
6	LINE	ARCHWAY SYMBOL
8	LINE	BOUNDARY - DISTRICT
10	LINE	BOUNDARY - ELECTORAL DIVISION
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
14	LINE	RAILWAY - NARROW GUAGE
15	LINE	RAILWAY - STANDARD GUAGE
16	LINE	RAILWAY - UNDERGROUND
19	LINE	RAILWAY - DISMANTLED CENTRE LINE
20	LINE	RAILWAY - SWITCH
21	LINE	ROAD PECKS (CARRIAGEWAY)
24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
33	LINE	TUNNEL ALIGNMENT
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
45	LINE	PIPE LINE - SUSPENDED OR NON OBSTACLE
47	LINE	ELECTRICITY TRANSMISSION LINE
49	POINT	ELECTRICITY PYLON - SURVEYED
52	LINE	STEP TREADS
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
60	LINE	BANK OF CANAL
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
78	LINE	BOUNDARY - WARD
79	LINE	BOUNDARY - PARLY CONST
80	LINE	CL - TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
85	LINE	CL MOTORWAY DUAL CARRIAGEWAY
86	LINE	CL MOTORWAY SINGLE CARRIAGEWAY
88	LINE	CL MOTORWAY SLIP ROAD
89	LINE	CL TRUNK/MAIN DUAL CARRIAGEWAY
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
91	LINE	CL TRUNK/MAIN ROUNDABOUT
92	LINE	CL SECONDARY DUAL CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
94	LINE	CL SECONDARY ROUNDABOUT
95	LINE	CL MINOR DUAL CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
99	LINE	CL MINOR ROUNDABOUT
100	LINE	CL RAILWAY - MULTIPLE TRACK
101	LINE	CL RAILWAY - SINGLE TRACK

END OF STRATIFICATION RUN

STRATIFICATION SELECTION OF   35 SHEETS FROM THE   1250: DATA
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AVERAGE DENSE URBAN / FLAT   (TAMWORTH)

(NOTE:- ALL COUNTS ARE MEANED FOR THE   35 SHEETS)

FREQUENCIES
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1 START OF SHEET   1.00
2 END OF SHEET   1.00
3 END OF FILE   0.0
4 START OF FEATURE   1201.63
5 END OF FEATURE   1201.63
6 NO ACTION (7 TRK)   108.09
7 FEATURES (LINE)   1019.20
8 FEATURES (TEXT,SYMBOL)   182.43
9 GRID SQUARE INDICATOR   1952.29
10 TEXT CLASSIFICATION   157.06
11 CHARACTER CALLS   157.06
12 NO OF ORIENTATIONS   1202.11
13 INVISIBLE LINE FLAG   15.49
14 N/A   0.0
15 DISTANCE CALLS   0.23
16 N/A   0.0
17 CONTOUR CALLS   0.0

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	STANDARD DEVIATION	GROUND MAXIMUM	MINIMUM
1	1.77	20.86	25.09	164.17	205.21	8.18		46.486	0.125
2	113.00	473.54	366.54	1079.14	1348.92	3.74		126.575	0.0
3	157.69	1269.67	1111.89	5396.59	6745.74	6.07		152.271	0.0
4	56.69	136.94	74.26	207.59	259.43	3.49		103.492	0.088
6	2.51	5.17	2.66	14.70	18.38	6.92		13.449	0.590
7	0.09	3.94	3.86	18.04	22.54	5.84		32.731	0.063
8	0.31	15.34	15.03	85.58	107.10	7.13		54.780	0.063
10	0.29	12.11	11.83	66.48	85.60	7.24		103.544	0.0
11	0.03	0.03							
12	0.29	0.29							
13	0.51	0.51							
15	4.14	48.94	44.80	722.85	903.56	20.17		512.363	0.063
18	0.06	1.43	1.37	19.30	24.12	17.59		87.561	0.140
20	0.57	1.17	0.60	0.70	0.88	1.46		1.822	0.088
21	27.43	999.37	971.94	2945.19	3681.49	3.79		189.756	0.0
23	0.49	18.00	17.51	39.44	49.30	2.81		32.227	0.0
24	1.06	1.06							
25	0.03	0.03							
26	1.34	1.34							
27	3.89	3.89							
28	157.06	157.06							
29	40.03	355.60	316.57	1586.22	1982.78	6.26		153.509	0.0
30	471.03	1751.00	1279.97	8301.39	10376.74	8.11		233.347	0.0
31	18.34	251.45	233.11	729.97	912.46	3.91		87.082	0.0
32	82.60	826.51	743.91	2835.32	3544.15	4.76		227.486	0.0
33	0.77	1.66	0.89	6.45	8.07	9.11		15.409	1.132
34	1.60	3.26	1.66	14.62	18.28	11.03		22.577	0.877
35	1.40	61.94	60.54	126.22	157.78	2.61		85.819	0.0
37	0.63	0.63							
47	0.37	1.14	0.77	47.92	59.90	77.65		319.249	3.213
49	0.23	0.23							
52	19.17	54.57	35.40	41.57	51.96	1.47		3.356	0.0
54	0.03	0.03							
55	0.09	2.26	2.17	22.65	28.31	13.04		63.066	0.455
57	16.11	16.11							
58	0.03	0.03							
59	2.77	269.60	266.83	367.71	459.64	1.72		52.655	0.0
60	1.14	57.03	55.89	175.47	219.33	3.92		73.601	0.0
61	2.49	164.06	161.57	375.99	469.99	2.91		56.998	0.0
62	0.51	27.51	27.00	46.37	58.72	2.10		29.541	0.0
65	1.83	62.31	60.49	134.00	167.50	2.77		125.083	0.0
66	0.11	5.97	5.86	21.49	26.86	4.59		43.884	0.088
67	0.06	0.06							
68	0.43	0.43							
69	0.29	0.29							
70	0.43	0.43							
78	0.20	22.80	22.60	56.15	70.19	3.11		43.060	0.0
80	0.03	1.03	1.00	3.05	3.82	3.82		15.899	0.063
81	0.09	7.29	7.20	17.60	22.00	3.06		17.226	0.063
83	4.54	36.11	31.57	134.88	168.60	5.34		48.490	0.063
90	0.03	0.89	0.86	11.57	14.47	16.88		79.103	0.940
92	0.03	0.37	0.34	6.71	8.39	24.48		60.914	9.197
93	0.06	1.97	1.91	15.73	19.66	10.27		39.815	0.198
94	0.06	4.23	4.17	8.15	10.19	2.44		18.223	0.140
96	0.11	2.71	2.60	23.59	29.49	11.34		100.343	0.063
97	0.57	8.86	8.29	55.25	69.06	8.34		111.762	0.125
98	3.17	51.43	48.26	286.11	357.64	7.41		178.366	0.0
99	0.03	4.54	4.51	1.59	1.99	0.44		0.578	0.337
103	0.03	0.06	0.03	0.30	0.38	13.34		13.341	13.341
108	0.94	16.97	16.03	48.37	60.47	3.77		36.122	0.063

A TOTAL NUMBER OF   818.43 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   14.86 GND. METRES

TOTAL INKED IN LINES =   6027.88

TOTAL INVISIBLE LINES =   15.49

TOTAL LINES GENERATED =   6043.37

TOTAL DISTANCE GENERATED BY LINES =   32320.43 METRES AT GROUND SCALE
                                  =   2625.634 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   16635.83

NUMBER OF POINTS IN THE FILE =   7244.97

NUMBER OF IGNORED CODES (0 OR >271)   =   17.26

NUMBER OF IGNORED RECORDS (0 OR >271) =   533.29

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
6	LINE	ARCHWAY SYMBOL
7	LINE	BOUNDARY - PARISH OR COMMUNITY
8	LINE	BOUNDARY - DISTRICT
10	LINE	BOUNDARY - ELECTORAL DIVISION
11	POINT	BOUNDARY - POST OR STONE
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
15	LINE	RAILWAY - STANDARD GUAGE
18	LINE	RAILWAY - DISUSED, CENTRE LINE

35

24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC — NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
33	LINE	TUNNEL ALIGNMENT
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
37	POINT	TELEPHONE CALL BOX — GPO
47	LINE	ELECTRICITY TRANSMISSION LINE
49	POINT	ELECTRICITY PYLON — SURVEYED
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES — DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON — WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
60	LINE	BANK OF CANAL
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
67	POINT	FLOW ARROW — LARGE
68	POINT	FLOW ARROW — MEDIUM
69	POINT	FLOW ARROW — SMALL
70	POINT	CULVERT BAR
78	LINE	BOUNDARY — WARD
80	LINE	CL — TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
92	LINE	CL SECONDARY DUAL CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
94	LINE	CL SECONDARY ROUNDABOUT
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR — OTHER ROADS
99	LINE	CL MINOR ROUNDABOUT
103	LINE	ALIGNMENT FEATURE
108	LINE	SURVEYED PECKS (BANKS ETC)

END OF STRATIFICATION RUN

STRATIFICATION SELECTION OF   46 SHEETS FROM THE   1250. DATA
===
DENSE URBAN / HILLY (SOUTHAMPTON)

(NOTE:- ALL COUNTS ARE MEANED FOR THE   46 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	1794.67
5	END OF FEATURE	1794.67
6	NO ACTION (7 TPK)	84.83
7	FEATURES (LINE)	1459.24
8	FEATURES (TEXT,SYMBOL)	335.43
9	GRID SQUARE INDICATOR	2832.26
10	TEXT CLASSIFICATION	272.07
11	CHARACTER CALLS	272.07
12	NO OF ORIENTATIONS	1794.76
13	INVISIBLE LINE FLAG	54.91
14	N/A	0.0
15	DISTANCE CALLS	0.11
16	N/A	0.0
17	CONTOUR CALLS	0.0

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	STANDARD DEVIATION	GROUND MAXIMUM	MINIMUM
1	6.04	94.61	78.57	379.88	474.85	6.04		122.259	0.0
2	195.07	873.13	578.07	1507.82	1884.77	2.78		50.280	0.0
3	278.64	2585.70	2305.65	9477.38	11846.71	5.14		189.790	0.0
4	58.17	163.03	105.26	403.25	504.07	4.79		100.359	0.0
5	0.22	9.54	6.33	1.63	2.04	6.25		21.506	0.868
6	4.00	5.17	4.17	29.57	36.96	8.86		21.916	1.707
10	0.30	4.83	4.52	76.12	95.15	21.04		163.989	0.063
12	0.25	0.33							
13	0.13	0.13							
14	0.24	3.35	3.11	20.85	26.06	8.38		127.263	0.0
15	13.26	151.67	148.39	1288.65	1610.81	10.86		139.698	0.0
20	4.62	8.02	4.20	4.63	5.79	1.38		2.748	0.0
21	31.61	969.20	956.59	4034.77	5043.45	5.38		198.419	0.0
23	0.13	1.39	1.26	6.44	8.05	6.39		22.400	0.699
24	22.17	22.17							
25	0.11	0.11							
26	6.07	6.07							
27	12.07	12.07							
28	272.11	272.07							
29	64.76	691.74	626.98	3214.44	4018.05	6.41		120.876	0.0
30	667.91	2107.20	1498.28	11761.48	14701.85	9.81		148.691	0.0
31	19.61	200.67	181.07	565.86	707.32	3.91		100.598	0.0
32	54.67	668.74	614.07	2014.31	2517.89	4.10		133.526	0.0
33	0.22	2.54	2.33	17.53	21.91	9.42		286.281	0.0
34	0.57	1.59	1.02	7.97	9.96	9.75		23.230	0.088
35	0.65	14.30	13.65	27.37	34.21	2.51		21.021	0.0
37	1.91	1.91							
44	0.02	0.09	0.07	4.08	5.10	79.26		108.744	37.923
47	0.15	0.63	0.48	19.69	24.62	51.47		95.673	4.819
49	0.11	0.11							
52	28.43	135.52	107.09	115.32	144.15	1.35		20.001	0.063
54	0.02	0.02							
57	18.54	18.54							
58	0.02	0.02							
59	1.96	163.93	161.98	199.58	249.47	1.54		117.009	0.0
61	0.28	13.67	13.39	18.86	23.57	1.76		23.300	0.0
62	0.63	30.61	29.98	40.51	50.64	1.69		24.736	0.0
64	1.11	21.04	19.93	42.20	52.75	2.65		56.506	0.0
65	1.46	26.41	24.96	83.71	104.64	4.19		63.454	0.0
68	0.02	0.02							
69	0.83	0.83							
70	1.09	1.09							
71	1.50	74.15	72.65	188.12	235.14	3.24		73.551	0.0
72	0.22	46.37	46.15	57.86	72.33	1.57		19.300	0.0
78	0.89	29.41	28.52	237.41	296.76	10.40		171.349	0.0
80	0.07	0.72	0.65	3.89	4.87	7.46		31.314	0.063
81	0.17	1.72	1.54	5.07	6.34	4.11		19.975	0.063
83	5.65	43.54	37.89	149.52	186.90	4.93		93.885	0.0
89	0.22	6.83	6.61	61.24	76.55	11.58		69.001	0.063
90	0.78	24.69	23.80	189.43	236.78	9.95		166.695	0.0
91	0.02	0.78	0.76	2.24	2.80	3.68		15.875	0.504
93	0.09	1.65	1.57	15.54	19.55	12.49		111.189	0.753
96	1.33	31.30	29.98	231.08	238.81	9.63		198.467	0.063
97	0.39	17.00	16.61	44.02	55.03	3.31		46.402	0.088
98	10.13	142.15	132.02	1296.27	1620.34	12.27		287.403	0.0
99	0.09	4.15	4.07	2.91	3.63	0.89		1.822	0.063
100	0.35	7.28	6.93	93.21	116.52	16.80		195.728	0.0
101	0.04	0.17	0.13	9.09	11.36	87.11		409.216	5.144
102	1.11	25.65	22.54	153.53	191.92	3.51		88.414	0.0
103	0.25	0.52	0.26	2.29	2.86	10.96		30.911	3.310
104	0.02	0.04	0.02	0.02	0.03	1.32		1.318	1.318
108	2.24	24.52	22.28	61.55	76.94	3.45		63.821	0.063
109	0.07	0.13	0.07	0.07	0.09	1.37		1.458	1.301

A TOTAL NUMBER OF   1454.67 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   10.93 GND. METRES

TOTAL INKED IN LINES   =   7966.52

TOTAL INVISIBLE LINES =   54.91

TOTAL LINES GENERATED =   8021.43

TOTAL DISTANCE GENERATED BY LINES =   47696.09 METRES AT GROUND SCALE
                                   =   3815.686 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   33966.17

NUMBER OF POINTS IN THE FILE =   9816.06

NUMBER OF IGNORED CODES (0 OR >271)   =   6.00

NUMBER OF IGNORED RECORDS (0 OR >271) =   174.48

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	BUILDING DIVISION - BROKEN LINE
6	LINE	ARCHWAY SYMBOL
10	LINE	BOUNDARY - ELECTORAL DIVISION
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
14	LINE	RAILWAY - NARROW GUAGE

37

24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
33	LINE	TUNNEL ALIGNMENT
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
37	POINT	TELEPHONE CALL BOX - GPO
44	LINE	PIPE LINE - OBSTACLE
47	LINE	ELECTRICITY TRANSMISSION LINE
49	POINT	ELECTRICITY PYLON - SURVEYED
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
71	LINE	MEAN HIGH WATER (MHWS)
72	LINE	MEAN LOW WATER (MLWS)
78	LINE	BOUNDARY - WARD
80	LINE	CL - TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
89	LINE	CL TRUNK/MAIN DUAL CARRIAGEWAY
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
91	LINE	CL TRUNK/MAIN ROUNDABOUT
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
99	LINE	CL MINOR ROUNDABOUT
100	LINE	CL RAILWAY - MULTIPLE TRACK
101	LINE	CL RAILWAY - SINGLE TRACK
102	LINE	CL RAILWAY - SIDINGS
103	LINE	ALIGNMENT FEATURE
104	LINE	NORMAL TIDAL HEIGHT
108	LINE	SURVEYED PECKS (BANKS ETC)
109	LINE	RAILWAY - BUFFERS / RETARDERS

38

END OF STRATIFICATION RUN

LIGHT DENSE URBAN / HILLY (BRADFORD)

(NOTE:- ALL COUNTS ARE MEANED FOR THE   22 SHEETS)

FREQUENCIES

1 START OF SHEET	1.00
2 END OF SHEET	1.00
3 END OF FILE	0.0
4 START OF FEATURE	1353.45
5 END OF FEATURE	1353.45
6 NO ACTION (7 TRK)	124.77
7 FEATURES (LINE)	1109.39
8 FEATURES (TEXT,SYMBOL)	243.36
9 GRID SQUARE INDICATOR	2185.45
10 TEXT CLASSIFICATION	217.77
11 CHARACTER CALLS	217.77
12 NO OF ORIENTATIONS	1353.73
13 INVISIBLE LINE FLAG	59.73
14 N/A	0.0
15 DISTANCE CALLS	0.32
16 N/A	0.0
17 CONTOUR CALLS	0.0

39

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	STANDARD DEVIATION	GROUND MAXIMUM	MINIMUM
1	1.77	20.18	13.41	102.13	127.66	6.93		62.349	0.088
2	72.36	314.77	242.41	632.21	791.51	3.27		33.970	0.0
3	156.82	1152.23	495.41	5986.64	7483.30	7.51		182.625	0.0
4	33.55	55.27	51.73	166.39	207.87	4.02		46.858	0.225
5	0.68	1.35	0.68	1.95	2.46	3.60		9.478	1.838
6	9.05	18.23	9.18	72.35	90.44	9.85		15.265	2.211
8	0.27	14.62	14.55	82.58	103.34	7.10		37.892	0.0
10	0.09	1.55	1.45	25.93	32.41	22.28		93.137	0.628
12	0.77	0.77							
13	0.27	0.27							
15	9.82	119.27	108.45	900.43	1125.53	10.38		156.641	0.063
19	0.23	1.59	1.36	15.81	19.76	14.49		33.216	3.438
20	2.55	5.09	3.33	3.03	3.79	1.49		1.761	1.168
21	33.64	1058.36	1024.73	3296.63	4120.78	4.02		125.073	0.0
23	1.14	14.23	13.09	87.38	109.23	8.34		57.464	0.125
24	4.77	4.77							
25	0.14	0.14							
26	3.59	3.59							
27	8.50	8.50							
28	217.77	217.77							
29	56.95	499.14	433.18	2200.03	2750.03	6.35		132.231	0.0
30	525.32	1025.91	1301.59	7870.09	9838.73	7.56		239.290	0.0
31	46.27	590.18	543.91	1752.03	2190.04	4.03		121.926	0.0
32	87.68	612.38	524.68	2390.19	2987.73	5.69		154.567	0.0
34	0.59	2.05	1.45	8.52	10.65	7.32		14.604	0.364
35	0.68	21.27	20.59	62.94	78.68	3.82		95.470	0.063
36	0.59	18.68	18.09	49.70	62.13	3.43		35.663	0.0
37	0.73	0.73							
47	0.55	2.00	1.45	75.25	94.07	64.67		233.748	2.188
48	0.05	0.05							
49	0.32	0.32							
52	23.73	111.05	97.32	99.23	124.04	1.42		15.554	0.063
57	6.55	6.55							
58	0.05	0.05							
59	0.68	52.59	51.91	46.64	58.30	1.12		13.814	0.0
61	0.27	0.64	0.36	2.01	2.51	6.91		8.702	1.174
62	0.59	11.59	11.00	30.60	38.25	3.46		49.823	0.0
64	0.45	22.00	21.55	25.27	31.58	1.47		33.709	0.0
65	0.41	5.73	5.32	15.01	18.77	3.53		19.080	0.063
66	0.23	17.00	16.77	17.11	21.39	1.28		14.605	0.063
68	0.05	0.05							
69	0.32	0.32							
78	0.36	8.18	7.82	80.08	100.11	12.80		54.828	0.395
80	0.32	6.91	6.59	32.08	40.09	6.08		90.070	0.140
81	0.64	16.41	15.77	58.95	73.69	4.67		89.981	0.063
83	21.86	179.82	157.95	802.65	1003.29	6.35		109.123	0.0
84	0.27	13.32	13.05	14.37	17.96	1.38		24.738	0.0
89	0.09	2.14	2.05	21.38	26.73	13.07		27.482	3.001

97	0.32	9.73	9.41	52.10	77.02	9.2.		225.471	1.2
98	16.09	186.27	170.18	1359.86	1699.82	9.99		135.087	0.576
100	0.50	5.86	5.36	69.78	87.23	16.26		191.783	1.439
101	0.27	2.09	1.82	33.07	41.33	22.73		14.790	0.258
102	0.09	0.77	0.68	2.95	3.57	5.23		46.791	11.985
103	0.23	0.45	0.23	4.64	5.81	25.54		2.991	2.991
108	0.05	0.09	0.05	0.11	0.14	2.99			

A TOTAL NUMBER OF   1165.56 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   15.64 GND. METRES

TOTAL INKED IN LINES =   5903.86

TOTAL INVISIBLE LINES =   50.73

TOTAL LINES GENERATED =   5954.59

TOTAL DISTANCE GENERATED BY LINES =   36192.91 METRES AT GROUND SCALE
                                  =   2895.432 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   18065.77

NUMBER OF POINTS IN THE FILE =   7308.04

NUMBER OF IGNORED CODES (0 OR >271)   =   3.32

NUMBER OF IGNORED RECORDS (0 OR >271) =   112.73

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	BUILDING DIVISION - BROKEN LINE
6	LINE	ARCHWAY SYMBOL
8	LINE	BOUNDARY - DISTRICT
10	LINE	BOUNDARY - ELECTORAL DIVISION
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
15	LINE	RAILWAY - STANDARD GUAGE
19	LINE	RAILWAY - DISMANTLED CENTRE LINE
20	LINE	RAILWAY - SWITCH
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT

FEATURE CODE	FEATURE TYPE	DESCRIPTION
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
47	LINE	ELECTRICITY TRANSMISSION LINE
48	POINT	ELECTRICITY PYLON - STANDARD
49	POINT	ELECTRICITY PYLON - SURVEYED
52	LINE	STEP TREADS
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
78	LINE	BOUNDARY - WARD
80	LINE	CL - TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
89	LINE	CL TRUNK/MAIN DUAL CARRIAGEWAY
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
100	LINE	CL RAILWAY - MULTIPLE TRACK
101	LINE	CL RAILWAY - SINGLE TRACK
102	LINE	CL RAILWAY - SIDINGS
103	LINE	ALIGNMENT FEATURE
108	LINE	SURVEYED PECKS (BANKS ETC)

END OF STRATIFICATION RUN

LIGHT DENSE URBAN / FLAT (BILLERICAY, ESSEX)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 19 SHEETS)

FREQUENCIES
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1 START OF SHEET	1.00
2 END OF SHEET	1.00
3 END OF FILE	0.0
4 START OF FEATURE	773.16
5 END OF FEATURE	773.16
6 NO ACTION (7 TRK)	108.53
7 FEATURES (LINE)	650.53
8 FEATURES (TEXT,SYMBOL)	122.63
9 GRID SQUARE INDICATOR	1355.21
10 TEXT CLASSIFICATION	110.21
11 CHARACTER CALLS	110.21
12 NO OF ORIENTATIONS	773.16
13 INVISIBLE LINE FLAG	14.26
14 N/A	0.0
15 DISTANCE CALLS	0.0
16 N/A	0.0
17 CONTOUR CALLS	0.0

41

FEATURES INCLUDED
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F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	STANDARD DEVIATION	GROUND MAXIMUM	MINIMUM
1	2.37	28.42	26.05	155.84	194.80	7.48		64.143	0.063
2	70.53	312.63	242.11	780.58	975.73	4.03		22.780	0.063
3	135.05	1000.21	925.16	4352.41	5441.75	5.88		67.701	0.0
4	20.84	57.21	36.37	105.64	132.05	3.63		27.438	0.088
6	0.84	1.68	0.84	5.03	6.29	7.47		17.560	2.069
10	0.05	3.63	3.58	20.47	25.58	7.15		38.609	0.140
12	0.05	0.05							
15	1.16	6.47	7.32	94.93	118.66	16.22		40.536	0.063
20	0.11	0.21	0.11	0.13	0.16	1.49		1.544	1.443
21	18.05	633.37	615.32	2151.02	2698.76	4.37		127.198	0.0
23	1.11	28.16	27.05	163.09	203.86	7.54		201.375	0.0
24	0.16	0.16							
25	0.11	0.11							
26	1.84	1.84							
27	3.42	3.42							
28	110.21	110.21							
29	35.58	398.47	362.89	1631.24	2039.05	5.62		125.868	0.0
30	283.84	1244.05	960.21	6555.23	8194.04	8.53		143.648	0.0
31	20.53	309.95	289.42	748.82	936.02	3.23		83.468	0.0
32	21.68	187.89	166.21	548.15	685.19	4.12		100.755	0.0
34	0.11	0.21	0.11	1.22	1.53	14.52		14.613	14.428
35	0.84	9.63	8.79	40.96	51.20	5.83		34.342	0.063
37	0.47	0.47							
52	4.21	27.37	23.16	24.41	30.51	1.32		6.985	0.088
57	1.37	1.37							
59	0.84	58.32	57.47	106.44	133.04	2.31		52.273	0.0
61	0.11	1.37	1.26	19.97	24.96	19.76		42.068	9.830
62	0.74	36.26	35.53	22.30	28.50	0.80		13.551	0.0
64	3.26	105.79	102.53	223.43	279.29	2.72		76.084	0.0
65	1.05	30.89	29.84	77.21	96.51	3.23		40.318	0.0
66	0.37	43.11	42.74	60.27	75.34	1.76		33.668	0.088
68	0.05	0.05							
69	1.74	1.74							
70	3.26	3.26							
78	0.47	9.84	9.37	78.27	97.84	10.44		32.909	0.319
80	0.32	10.95	10.63	33.54	41.92	3.94		80.097	0.063
81	0.84	26.26	25.42	79.66	99.58	3.92		25.566	0.063
83	15.68	187.00	171.32	676.43	845.53	4.94		115.445	0.0
84	0.05	0.79	0.74	3.61	4.52	6.13		24.596	0.637
90	0.37	15.63	15.26	108.46	135.58	8.38		35.085	0.088
91	0.05	2.37	2.32	3.69	4.61	1.99		4.507	0.442
93	0.32	18.47	18.16	86.35	107.94	5.94		36.015	0.063
94	0.05	2.63	2.58	3.12	3.89	1.51		2.289	0.063
96	0.58	21.53	20.95	123.27	154.08	7.36		66.946	0.063
97	0.32	17.74	17.42	108.95	136.18	7.82		36.476	0.063
98	7.68	180.58	172.89	707.94	884.93	5.12		177.830	0.0
100	0.21	16.00	15.79	23.11	28.89	1.83		17.792	0.125
107	0.21	0.42	0.21	1.61	2.01	9.55		13.638	5.792

A TOTAL NUMBER OF   627.11 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0.0   GND. METRES

TOTAL INKED IN LINES =   4432.89

TOTAL INVISIBLE LINES =   14.26

TOTAL LINES GENERATED =   4447.16

TOTAL DISTANCE GENERATED BY LINES =   24904.73 METRES AT GROUND SCALE
                                   =   1992.346 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   11511.52

NUMBER OF POINTS IN THE FILE   =   5220.31

NUMBER OF IGNORED CODES (0 OR >271)   =   0.84

NUMBER OF IGNORED RECORDS (0 OR >271) =   25.79

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	ARCHWAY SYMBOL
10	LINE	BOUNDARY - ELECTORAL DIVISION
12	POINT	BOUNDARY - MEREING SYMBOL FULL
15	LINE	RAILWAY - STANDARD GUAGE
20	LINE	RAILWAY - SWITCH
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
37	POINT	TELEPHONE CALL BOX - GPO
52	LINE	STEP TREADS
57	POINT	POINT FEATURES - DOT
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
78	LINE	BOUNDARY - WARD
80	LINE	CL - TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
91	LINE	CL TRUNK/MAIN ROUNDABOUT
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
94	LINE	CL SECONDARY ROUNDABOUT
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
100	LINE	CL RAILWAY - MULTIPLE TRACK
103	LINE	ALIGNMENT FEATURE
108	LINE	SURVEYED PECKS (BANKS ETC)

END OF STRATIFICATION RUN

42

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AAAAAAAAA    NN        NN  NN        NN  EEEEEEEEEEEE  XX        XX                    444
AAAAAAAAAAA   NNN       NN  NNN       NN  EEEEEEEEEEEE  XX        XX                   4444
AA        AA  NNNN      NN  NNNN      NN  EE              XX    XX                    44  44
AA        AA  NN NN     NN  NN NN     NN  EE                XX XX                     44  44
AA        AA  NN  NN    NN  NN  NN    NN  EE                 XXXX                     44  44
AAAAAAAAAAAA  NN   NN   NN  NN   NN   NN  EEEEEEEE           XXXX                  4444444444
AAAAAAAAAAAA  NN    NN  NN  NN    NN  NN  EEEEEEEE          XX XX                  4444444444
AA        AA  NN     NN NN  NN     NN NN  EE                XX  XX                        44
AA        AA  NN      NNNN  NN      NNNN  EE               XX    XX                       44
AA        AA  NN       NNN  NN       NNN  EE               XX    XX                       44
AA        AA  NN        NN  NN        NN  EEEEEEEEEEEE     XX      XX                      44
AA        AA  NN         N  NN         N  EEEEEEEEEEEE     XX      XX                      44
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43

FREQUENCIES
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1 START OF SHEET   1.

2 END OF SHEET   1.

3 END OF FILE   0.

4 START OF FEATURE   136.

5 END OF FEATURE   136.

6 NO ACTION (7 TRK)   53.

7 FEATURES (LINE)   111.

8 FEATURES (TEXT,SYMBOL)   25.

9 GRID SQUARE INDICATOR   269.

10 TEXT CLASSIFICATION   16.

11 CHARACTER CALLS   16.

12 NO OF ORIENTATIONS   136.

13 INVISIBLE LINE FLAG   0.

14 N/A   0.

15 DISTANCE CALLS   0.

16 N/A   0.

17 CONTOUR CALLS   0.

FEATURES INCLUDED
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F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	SKEW	KURTOSIS	GROUND MAXIMUM	GROUND MINIMUM
2	4.	19.	15.	28.5	71.13	4.7	1.745	0.8589	-0.525	8.27	3.07
3	19.	83.	64.	279.6	608.90	10.9	3.089	1.4066	1.351	35.35	0.87
4	10.	22.	12.	61.8	154.59	12.9	5.791	-0.0606	-1.550	21.23	5.31
8	1.	57.	56.	213.0	532.60	9.5	11.467	1.8528	2.724	49.23	0.06
13	2.	2.									
21	2.	13.	15.	41.3	103.27	6.5	4.672	1.3211	1.764	19.83	0.44
23	1.	71.	70.	208.0	519.92	7.4	10.024	2.5822	6.498	51.71	0.18
24	2.	2.									
28	16.	16.									
29	9.	127.	118.	415.3	1038.14	8.8	14.136	4.0860	22.731	110.76	0.06
30	44.	437.	395.	2371.9	5929.66	15.1	22.572	2.7184	3.488	146.15	0.06
32	2.	10.	8.	6.2	20.52	2.6	3.402	1.6457	1.188	10.94	0.31
35	1.	31.	30.	23.5	71.24	2.4	1.988	2.1300	4.450	9.75	0.13
59	7.	115.	108.	424.2	1060.60	9.8	25.661	6.0835	38.612	136.50	0.13
61	1.	6.	5.	38.9	97.27	19.5	20.154	0.4099	-1.975	47.96	1.51
62	1.	43.	42.	40.4	101.03	2.4	5.097	3.5022	11.544	24.87	0.06
64	3.	50.	47.	375.6	941.85	20.0	26.925	1.2451	0.339	94.29	0.13
65	3.	29.	26.	66.7	166.32	6.4	6.316	1.7426	3.002	28.11	0.56
69	3.	3.									
70	2.	2.									
99	3.	47.	44.	197.3	493.24	11.2	12.384	2.1296	4.860	60.71	0.42

A TOTAL NUMBER OF   125. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0. GND. METRES

TOTAL INKED IN LINES =   1054.

TOTAL INVISIBLE LINES =   0.

TOTAL LINES GENERATED =   1054.

TOTAL DISTANCE GENERATED BY LINES =   11999.36 METRES AT GROUND SCALE
                                   =   479.974 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   2351.

NUMBER OF POINTS IN THE FILE   =   1190.

NUMBER OF IGNORED CODES (0 OR >271)   =   3.

NUMBER OF IGNORED RECORDS (0 OR >271) =   25.

FEATURE CODE	FEATURE TYPE	DESCRIPTION
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
8	LINE	BOUNDARY - DISTRICT
13	POINT	BOUNDARY - MEREING SYMBOL HALF
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
24	POINT	MINOR CONTROL POINT
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
98	LINE	CL MINOR - OTHER ROADS

45

FREQUENCIES

1 START OF SHEET   210.
2 END OF SHEET   210.
3 END OF FILE   0.
4 START OF FEATURE   65024.
5 END OF FEATURE   65021.
6 NO ACTION (7 TRK)   20411.
7 FEATURES (LINE)   48755.
8 FEATURES (TEXT,SYMBOL)   16269.
9 GRID SQUARE INDICATOR   131665.
10 TEXT CLASSIFICATION   11105.
11 CHARACTER CALLS   11105.
12 NO OF ORIENTATIONS   65227.
13 INVISIBLE LINE FLAG   295.
14 N/A   0.
15 DISTANCE CALLS   5.
16 N/A   0.
17 CONTOUR CALLS   0.

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND---- MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	------GROUND------ MAXIMUM	MINIMUM
1	53.	623.	570.	1286.9	3217.30	5.6	5.211	2.0059	5.482	37.25	0.13
2	3072.	14059.	10937.	19184.0	47959.86	4.4	2.946	3.5265	24.997	42.92	0.06
3	4922.	34254.	29332.	83738.3	209345.55	7.1	6.015	2.3749	9.609	81.69	0.06
4	960.	2565.	1605.	5231.8	13079.42	8.1	6.331	1.8233	4.777	49.90	0.06
5	2.	4.	2.	3.0	7.44	3.7	0.0	0.0	0.0	3.94	3.50
6	14.	29.	14.	34.4	86.07	6.1	1.535	-0.4925	-1.042	7.93	3.35
7	186.	21166.	20980.	45509.3	113773.25	5.4	8.073	6.8569	116.529	285.13	0.06
8	24.	1831.	1807.	5574.6	13936.49	7.7	12.615	3.3480	14.756	118.95	0.06
9	18.	3035.	3017.	5210.1	13025.19	4.3	6.787	4.5144	29.549	91.19	0.06
11	2.	2.									
12	395.	395.									
13	225.	225.									
14	4.	36.	32.	33.3	83.23	2.6	2.589	1.5049	1.775	11.25	0.12
15	10.	293.	283.	2483.9	6209.64	21.9	49.364	7.9074	71.821	518.58	0.20
19	23.	652.	629.	4260.3	10650.62	16.9	14.738	1.7085	3.275	87.46	0.13
20	4.	8.	4.	5.1	12.84	3.2	1.000	-0.3065	-1.991	4.19	1.89
21	2570.	59687.	57117.	171494.0	428734.94	7.5	11.726	6.5479	86.417	292.41	0.06
22	7.	116.	109.	379.4	948.48	8.7	6.661	1.4160	2.324	34.77	0.14
23	264.	9321.	9057.	21233.5	53083.65	5.9	6.094	5.8587	75.251	210.59	0.06
24	20.	20.									
25	10.	10.									
26	574.	574.									
27	1428.	1428.									
28	11114.	11104.									
29	3189.	101330.	98141.	246074.6	615186.38	6.3	9.947	8.8248	178.102	472.25	0.06
30	21575.	367927.	346352.	892034.4	2230085.00	6.4	10.908	7.5011	115.335	394.00	0.06
31	1203.	24186.	22983.	49738.6	124346.50	5.4	8.224	8.0069	169.952	318.41	0.06
32	1713.	26246.	24533.	63077.3	157693.31	6.4	9.972	6.2682	86.890	263.41	0.06
33	23.	50.	27.	93.5	233.87	8.7	8.011	1.6091	1.538	30.83	0.61
34	2.	4.	2.	4.0	10.02	5.0	0.0	0.0	0.0	5.13	4.89
35	1364.	44232.	42868.	73632.9	184207.13	4.3	6.951	10.4420	235.155	279.49	0.06
36	521.	20646.	20125.	20062.9	50157.24	2.5	3.509	5.0531	37.233	58.36	0.06
37	21.	21.									
39	1.	1.									
44	4.	17.	13.	72.3	180.80	13.9	9.237	0.6200	-1.308	29.67	3.95
45	4.	11.	7.	59.6	149.12	21.3	16.531	0.3833	-1.800	45.11	5.64
47	15.	40.	25.	1566.8	3916.97	156.7	118.970	0.6142	-0.940	377.76	0.54
48	2.	2.									
49	5.	5.									
50	4.	4.									
51	16.	16.									
52	301.	1014.	713.	437.8	1094.49	1.5	0.581	1.8649	6.037	4.86	0.31
53	2.	2.									
54	13.	13.									
55	88.	2468.	2380.	2697.1	6742.67	2.8	9.788	19.3132	459.388	287.14	0.06
57	268.	268.									
58	77.	77.									
59	749.	69900.	69151.	74537.6	186343.88	2.7	3.457	9.5384	295.197	186.50	0.06

65	196.	4316.	4120.	9417.5	23545.02	5.7	9.4??	3.???4	?.????		
66	122.	12318.	12196.	15761.5	39403.82	3.2	4.724	9.1111	154.545	140.52	0.06
67	1.	1.									
68	7.	7.									
69	1003.	1003.									
70	868.	868.									
71	36.	8692.	8656.	2966.0	7414.88	0.9	0.734	3.8256	38.768	16.76	0.06
72	115.	5831.	5716.	1996.9	4992.20	0.9	0.790	3.9522	35.193	13.96	0.06
78	1.	2.	1.	0.4	1.02	1.0	0.0	0.0	0.0	1.02	1.02
80	667.	21951.	21284.	58387.2	145967.81	6.9	9.230	9.5691	380.113	495.64	0.06
81	1386.	47856.	46470.	112705.6	281763.88	6.1	7.973	4.6479	45.310	219.38	0.06
82	221.	221.									
83	76.	770.	694.	1657.1	4142.75	6.0	6.889	1.9680	4.582	42.42	0.06
84	193.	8969.	8776.	7365.3	19663.21	2.2	2.539	7.1201	107.347	65.09	0.06
90	12.	511.	499.	4094.6	10236.57	20.5	23.051	2.4869	7.528	162.38	0.13
93	29.	1092.	1063.	7961.8	19904.59	18.7	18.715	2.2841	7.125	143.66	0.06
96	112.	6623.	6511.	27083.0	67707.50	10.4	14.173	5.6747	55.075	232.78	0.06
97	149.	9279.	9130.	29542.4	73856.06	8.1	9.717	4.8271	60.406	221.38	0.06
98	572.	17450.	16878.	47483.8	118709.50	7.0	9.356	4.7213	45.100	210.82	0.06
101	5.	140.	135.	1241.7	3104.19	23.0	46.176	9.2387	96.228	519.72	0.14
103	18.	36.	18.	138.0	344.95	19.2	11.137	0.9154	-0.560	41.80	6.82
108	13.	247.	234.	446.2	1115.58	4.8	5.449	2.2359	6.304	32.85	0.13

A TOTAL NUMBER OF   89416. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   236. GND. METRES

TOTAL INKED IN LINES =   1005104.

TOTAL INVISIBLE LINES =   295.

TOTAL LINES GENERATED =   1005399.

TOTAL DISTANCE GENERATED BY LINES =   5570655.00 METRES AT GROUND SCALE
                                  =   222826.188 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   1644115.

NUMBER OF POINTS IN THE FILE =   1070413.

NUMBER OF IGNORED CODES (0 OR >271)   =   446.

NUMBER OF IGNORED RECORDS (0 OR >271) =   30088.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR

3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
5	LINE	BUILDING DIVISION - BROKEN LINE
6	LINE	ARCHWAY SYMBOL
7	LINE	BOUNDARY - PARISH OR COMMUNITY
8	LINE	BOUNDARY - DISTRICT
9	LINE	BOUNDARY - COUNTY OR REGION
11	POINT	BOUNDARY - POST OR STONE
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
14	LINE	RAILWAY - NARROW GUAGE
15	LINE	RAILWAY - STANDARD GUAGE
19	LINE	RAILWAY - DISMANTLED CENTRE LINE
20	LINE	RAILWAY - SWITCH
21	LINE	ROAD PECKS (CARRIAGEWAY)
22	LINE	ROAD - CENTRE LINE
23	LINE	PATH (UM)
24	POINT	MINOR CONTROL POINT
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
33	LINE	TUNNEL ALIGNMENT
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
39	POINT	TELEPHONE CALL BOX - RAC
44	LINE	PIPE LINE - OBSTACLE
45	LINE	PIPE LINE - SUSPENDED OR NON OBSTACLE
47	LINE	ELECTRICITY TRANSMISSION LINE
48	POINT	ELECTRICITY PYLON - STANDARD
49	POINT	ELECTRICITY PYLON - SURVEYED
50	POINT	ELECTRICITY PYLON - PART
51	POINT	ELECTRICITY POSTS (SURVEYED)
52	LINE	STEP TREADS
53	POINT	CAVE SYMBOL
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
67	POINT	FLOW ARROW - LARGE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
71	LINE	MEAN HIGH WATER (MHWS)
72	LINE	MEAN LOW WATER (MLWS)
78	LINE	BOUNDARY - WARD

83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
101	LINE	CL RAILWAY - SINGLE TRACK
103	LINE	ALIGNMENT FEATURE
108	LINE	SURVEYED PECKS (BANKS ETC)

48

CURRENT LIST OF MAP SHEETS BEEN PROCESSED
==

SU 66 9	SU 67 9	SU 66 7	SU 8618	SU 8718	SU 8619	SU 8719
SU 8816	SU 8916	SU 8817	SU 8917	SU 8819	SU 8919	NZ 747
SW 3633	SW 3733	SW 3634	SW 3734	SU 8617	SU 8717	SU 8818
SU 8918	SX 2068	SX 2168	SX 2069	SX 2169	SX 2268	SX 2368
SX 2269	SX 2369	SX 2468	SX 2568	SX 2469	SX 2569	SX 2668
SX 2768	SX 2669	SX 2769	SO 2894	SO 2994	SO 2095	SO 2195
SO 2096	SO 2196	SO 2097	SO 2197	SO 2098	SO 2198	SO 2099
SO 2199	SO 2295	SO 2395	SO 2296	SO 2396	SO 2297	SO 2397
SO 2298	SO 2398	SO 2299	SO 2399	SO 2495	SO 2496	SO 2497
SO 2498	SO 2499	SO 2895	SO 2995	SO 2896	SO 2996	SO 2897
SO 2997	SO 3094	SO 3095	SO 3096	SO 3097	SU 6611	SU 8016
SU 8116	SU 8017	SU 8117	SU 8018	SU 8118	SU 8019	SU 8119
SU 8216	SU 8316	SU 8217	SU 8317	SU 8218	SU 8318	SU 8219
SU 8319	SU 8416	SU 8516	SU 8417	SU 8517	SU 8418	SU 8518
SU 8419	SU 8519	SU 8616	SU 8716	SX 2066	SX 2166	SX 2067
SX 2167	SX 2266	SX 2366	SX 2267	SX 2367	SX 2466	SX 2566
SX 2467	SX 2567	SX 2566	SX 2766	SX 2667	SX 2767	SX 1470
SX 1570	SX 1471	SX 1571	SX 1472	SX 1572	SX 1473	SX 1573
SX 1474	SX 1574	SX 1670	SX 1770	SX 1671	SX 1771	SX 1672
SX 1772	SX 1673	SX 1773	SX 1674	SX 1774	SX 1870	SX 1970
SX 1871	SX 1971	SX 1872	SX 1972	SX 1873	SX 1973	SX 1874
SX 1974	NZ 640	NZ 740	NZ 641	NZ 741	NZ 642	NZ 742
NZ 643	NZ 743	NZ 644	NZ 744	NZ 840	NZ 940	NZ 841
NZ 941	NZ 842	NZ 942	NZ 843	NZ 943	NZ 844	NZ 944
NZ 645	NZ 745	NZ 746	NZ 746	NZ 547	NZ 747	NZ 645

NZ 1340	NZ 1241	NZ 1341	NZ 1242	NZ 1342	NZ 1243	NZ 1343
NZ 1244	NZ 1344	NZ 1045	NZ 1145	NZ 1046	NZ 1146	NZ 1047
NZ 1147	NZ 1245	NZ 1345	NZ 1246	NZ 1346	NZ 1247	NZ 1347

A TOTAL OF 210 MAP SHEETS HAVE BEEN PROCESSED

END OF STATUS RUN --- (07-16-79)

AVERAGE DENSE URBAN / HILLY (DERWENTSIDE)

(NOTE:- ALL COUNTS ARE MEANED FOR THE   60 SHEETS)

FREQUENCIES

1 START OF SHEET	1.00
2 END OF SHEET	1.00
3 END OF FILE	0.0
4 START OF FEATURE	194.60
5 END OF FEATURE	194.60
6 NO ACTION (7 TRK)	89.08
7 FEATURES (LINE)	133.50
8 FEATURES (TEXT,SYMBOL)	61.10
9 GRID SQUARE INDICATOR	445.32
10 TEXT CLASSIFICATION	38.18
11 CHARACTER CALLS	38.18
12 NO OF ORIENTATIONS	195.62
13 INVISIBLE LINE FLAG	1.48
14 N/A	0.0
15 DISTANCE CALLS	0.0
16 N/A	0.0
17 CONTOUR CALLS	0.0

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	MINIMUM
1	0.07	0.87	0.80	1.64	4.10	5.13		19.137	1.079
2	5.48	24.23	18.75	40.91	102.27	5.45		33.495	0.225
3	9.22	61.55	52.33	173.17	432.94	8.27		56.911	0.063
4	2.10	5.23	3.17	11.32	28.54	9.43		27.306	0.773
5	0.03	0.07	0.03	0.10	0.26	7.72		7.607	7.627
7	0.83	46.10	45.22	219.69	549.22	12.15		172.717	0.063
8	0.18	6.72	6.53	48.16	120.40	18.43		113.449	0.125
11	0.02	0.02							
12	1.92	1.92							
13	1.03	1.03							
19	0.08	3.52	3.43	22.29	55.72	16.23		65.920	0.125
21	8.75	269.07	260.32	1099.80	2749.51	10.56		292.413	0.063
23	0.48	18.02	17.53	40.96	102.39	5.84		45.790	0.063
25	0.02	0.02							
26	2.78	2.78							
27	4.93	4.93							
28	38.20	38.18							
29	8.58	221.88	213.20	1067.51	2668.78	12.52		472.248	0.063
30	57.17	671.65	614.48	3247.49	8118.72	13.21		394.000	0.063
31	2.68	66.03	63.35	176.31	440.77	6.96		138.299	0.063
32	5.87	136.38	131.02	381.54	953.85	7.28		166.953	0.063
35	7.48	241.80	234.32	409.42	1023.56	4.37		203.508	0.063
36	0.52	24.38	24.17	23.82	59.55	2.46		23.891	0.063
37	0.02	0.02							
39	0.02	0.02							
44	0.02	0.03	0.02	0.20	0.49	29.67		29.665	29.665
52	0.77	4.50	3.73	2.30	5.75	1.54		4.684	0.795
54	0.02	0.02							
55	0.18	13.05	12.87	23.58	58.94	4.58		112.800	0.063
57	0.45	0.45							
58	0.53	0.53							
59	3.08	279.35	276.27	316.96	792.41	2.87		58.787	0.063
62	1.02	61.62	60.60	45.57	113.93	1.88		52.904	0.063
64	9.58	433.55	423.37	554.92	1387.29	3.27		215.757	0.063
65	1.42	24.60	23.18	61.47	153.68	6.63		131.466	0.063
66	0.38	34.95	34.57	34.26	85.65	2.48		35.955	0.063
68	0.03	0.03							
69	5.38	5.38							
70	4.83	4.83							
73	0.02	0.02	0.02	0.01	0.02	1.02		1.017	1.017
80	1.40	35.92	34.52	113.73	284.33	8.24		83.280	0.063
81	3.07	68.45	65.38	195.62	489.04	7.48		142.907	0.063
82	0.93	0.93							
83	0.10	0.98	0.88	2.44	6.09	6.90		33.500	0.198
84	0.60	51.68	51.08	45.29	113.23	2.22		62.826	0.063
90	0.13	4.62	4.48	43.48	108.70	24.25		162.383	0.125
93	0.02	1.30	1.28	5.35	13.38	10.43		30.544	0.783
96	0.42	24.77	24.35	134.31	335.77	13.79		232.778	0.088
					7	138.0			

A TOTAL NUMBER OF   338.23 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0.0   GND. METRES

TOTAL INKED IN LINES   =   2759.95

TOTAL INVISIBLE LINES   =   1.48

TOTAL LINES GENERATED   =   2761.43

TOTAL DISTANCE GENERATED BY LINES =   21803.96 METRES AT GROUND SCALE
                                     =   872.158 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   4803.28

NUMBER OF POINTS IN THE FILE =   2956.02

NUMBER OF IGNORED CODES (0 OR >271)   =   2.52

NUMBER OF IGNORED RECORDS (0 OR >271) =   147.37

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
6	LINE	ARCHWAY SYMBOL
7	LINE	BOUNDARY - PARISH OR COMMUNITY
8	LINE	BOUNDARY - DISTRICT
11	POINT	BOUNDARY - POST OR STONE
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
19	LINE	RAILWAY - DISMANTLED CENTRE LINE
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
39	POINT	TELEPHONE CALL BOX - RAC
44	LINE	PIPE LINE - OBSTACLE
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
78	LINE	BOUNDARY - WARD
80	LINE	CL - TRACK
81	LINE	TRACK
82	POINT	OBJECTS SHOWN BY CIRCLE (WATER 0.60 MM)
83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
103	LINE	ALIGNMENT FEATURE
108	LINE	SURVEYED PECKS (BANKS ETC)

END OF STRATIFICATION RUN

LIGHT DENSE URBAN / HILLY (CORNWALL)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 30 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	181.77
5	END OF FEATURE	181.77
6	NO ACTION (7 TRK)	101.80
7	FEATURES (LINE)	137.30
8	FEATURES (TEXT,SYMBOL)	44.47
9	GRID SQUARE INDICATOR	396.93
10	TEXT CLASSIFICATION	27.57
11	CHARACTER CALLS	27.57
12	NO OF ORIENTATIONS	182.00
13	INVISIBLE LINE FLAG	0.07
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

52

FEATURES INCLUDED
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F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	MINIMUM
1	0.03	0.23	0.74	0.20	1.65	9.24		17.029	2.258
2	9.53	42.57	33.13	75.58	189.21	5.71		32.146	0.515
3	4.83	37.17	32.33	91.88	229.69	7.10		48.329	0.198
4	1.30	3.53	2.23	7.49	18.73	8.39		26.843	0.063
7	0.40	44.23	43.83	75.12	187.80	4.28		81.975	0.063
8	0.33	24.77	24.45	60.13	150.32	6.15		90.185	0.063
12	1.23	1.23							
13	0.37	0.37							
21	7.47	209.43	201.97	637.96	1594.91	7.90		192.354	0.063
23	0.27	10.90	10.63	31.75	79.38	7.47		112.706	0.063
25	0.03	0.03							
26	1.87	1.87							
27	5.73	5.73							
28	27.70	27.57							
29	6.13	206.80	200.67	616.18	1540.45	7.68		303.224	0.063
30	76.07	1525.30	1449.23	3901.28	9753.19	6.73		300.992	0.063
31	0.73	16.03	15.30	38.21	95.51	6.24		313.408	0.063
32	6.30	125.03	118.77	268.76	671.90	5.66		143.063	0.063
35	7.00	268.63	261.63	438.20	1095.50	4.19		137.837	0.063
36	1.10	36.83	35.73	30.15	75.39	2.11		24.050	0.063
37	0.03	0.03							
52	2.30	5.00	2.70	1.56	3.91	1.45		2.918	0.313
54	0.13	0.13							
55	2.37	51.50	49.13	22.29	55.72	1.13		22.120	0.063
57	2.97	2.97							
58	0.97	0.97							
59	4.37	381.03	376.67	459.45	1148.64	3.05		72.707	0.063
61	0.17	4.90	4.73	11.88	29.69	6.27		26.152	0.140
62	2.00	180.90	178.90	115.54	288.85	1.61		39.391	0.063
64	4.17	234.33	230.17	267.71	669.29	2.91		148.977	0.063
65	0.13	1.50	1.37	5.33	13.33	9.76		46.002	0.590
68	0.07	0.07							
69	2.80	2.80							
70	0.70	0.70							
80	0.03	0.33	0.30	2.54	6.34	21.15		42.556	4.729
96	0.07	2.60	2.53	14.56	36.39	14.36		31.337	0.198
98	0.07	2.60	2.53	5.84	14.59	5.76		16.578	0.140

A TOTAL NUMBER OF 234.83 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES = 0.0 GND. METRES

TOTAL INKED IN LINES = 3279.03

TOTAL INVISIBLE LINES = 0.07

NUMBER OF RECORDS IN THE FILE =   5106.70

NUMBER OF POINTS IN THE FILE =   3460.73

NUMBER OF IGNORED CODES (0 OR >271)   =   4.60

NUMBER OF IGNORED RECORDS (0 OR >271) =   343.40

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
7	LINE	BOUNDARY - PARISH OR COMMUNITY
8	LINE	BOUNDARY - DISTRICT
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
80	LINE	CL - TRACK
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
98	LINE	CL MINOR - OTHER ROADS

53

END OF STRATIFICATION RUN

==

LIGHT DENSE URBAN / UNDULATING (CORNWALL)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 32 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	497.03
5	END OF FEATURE	496.94
6	NO ACTION (7 TRK)	121.94
7	FEATURES (LINE)	364.03
8	FEATURES (TEXT,SYMBOL)	113.00
9	GRID SQUARE INDICATOR	910.69
10	TEXT CLASSIFICATION	77.13
11	CHARACTER CALLS	77.13
12	NO OF ORIENTATIONS	497.63
13	INVISIBLE LINE FLAG	1.00
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED
=================

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	MINIMUM
1	0.47	4.50	4.03	9.21	23.03	5.71		27.542	0.625
2	26.50	126.50	100.00	157.94	394.84	3.95		28.007	0.063
3	50.69	364.50	313.81	848.00	2120.01	6.76		59.877	0.063
4	8.75	23.53	14.79	45.60	113.99	7.71		33.260	0.088
7	0.94	135.22	134.38	226.95	567.37	4.22		43.500	0.063
12	1.09	1.09							
13	0.91	0.91							
19	0.31	7.56	7.25	28.74	71.86	9.91		52.444	0.140
21	21.28	329.47	308.19	553.84	1334.59	4.49		83.462	0.063
23	0.28	7.25	6.97	14.16	35.41	5.08		30.952	0.088
25	0.03	0.03							
26	4.44	4.44							
27	12.44	12.44							
28	77.25	77.13							
29	36.63	1259.53	1222.91	2165.93	5414.82	4.43		90.475	0.063
30	167.13	3286.25	3121.13	5613.99	14034.98	4.50		132.689	0.063
31	15.28	262.56	247.28	517.06	1292.66	5.23		99.131	0.063
32	8.59	90.22	81.63	143.54	358.84	4.40		85.068	0.063
35	4.44	134.50	130.06	186.74	466.65	3.59		122.932	0.063
36	0.59	26.09	25.50	19.63	49.07	1.92		37.059	0.063
37	0.13	0.13							
44	0.03	0.31	0.28	0.96	2.39	8.50		16.402	3.953
45	0.03	0.16	0.13	1.12	2.81	22.44		41.450	5.641
52	0.06	0.13	0.06	0.03	0.07	1.06		1.127	0.988
57	1.34	1.34							
58	0.34	0.34							
59	8.38	492.75	486.38	523.21	1308.02	2.69		45.749	0.063
61	0.22	10.22	10.00	18.54	46.34	4.63		23.482	0.063
62	0.75	26.09	25.34	21.73	54.34	2.14		36.123	0.063
64	14.00	502.28	488.28	527.57	1318.93	2.70		86.298	0.063
65	0.16	2.53	2.38	3.49	8.73	3.68		24.246	0.063
66	1.34	104.84	103.50	159.82	399.55	3.86		42.316	0.063
68	0.03	0.03							
69	7.75	7.75							
70	4.19	4.19							
80	1.81	77.56	75.75	152.15	380.38	5.02		80.035	0.063
81	4.69	164.81	160.13	303.63	759.08	4.74		75.193	0.063
82	3.06	3.06							
83	0.47	4.31	3.84	4.53	11.32	2.94		32.731	0.063
84	1.22	28.97	27.75	38.38	96.95	3.46		65.091	0.063
93	0.13	5.16	5.03	41.21	103.03	20.48		74.152	1.876
96	1.63	89.09	87.47	315.22	788.05	9.01		218.306	0.063
97	2.56	148.72	146.16	423.87	1059.69	7.25		221.361	0.063
98	6.53	218.75	212.22	535.30	1338.25	6.31		210.622	0.063
103	0.03	0.06	0.03	0.48	1.20	38.40		38.405	38.405
108	0.22	5.19	4.97	6.81	17.02	3.43		13.705	0.125

```
TOTAL DISTANCE OF -15 CODED LINES =        0.0  GND. METRES

TOTAL INKED IN LINES  =      7556.50

TOTAL INVISIBLE LINES  =         1.09

TOTAL LINES GENERATED  =      7557.59

TOTAL DISTANCE GENERATED BY LINES =        54015.34 METRES AT GROUND SCALE
                                      =     1360.614 CMS AT MAP SCALE


NUMBER OF RECORDS IN THE FILE  =          12206.22

NUMBER OF POINTS IN THE FILE  =            8054.50

NUMBER OF IGNORED CODES (0 OR >271)    =        1.47

NUMBER OF IGNORED RECORDS (0 OR >271)  =      119.28


FEATURE CODE DESCRIPTION
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    FEATURE    FEATURE
     CODE       TYPE                 DESCRIPTION
   ---------  ---------            ---------------


       1        LINE               BUILDING - PUBLIC
       2        LINE               BUILDING - MINOR
       3        LINE               BUILDING - OTHER
       4        LINE               BUILDING - OPEN SIDED
       7        LINE               BOUNDARY - PARISH OR COMMUNITY
      12        POINT              BOUNDARY - MEREING SYMBOL FULL
      13        POINT              BOUNDARY - MEREING SYMBOL HALF
      19        LINE               RAILWAY - DISMANTLED CENTRE LINE
      21        LINE               ROAD PECKS (CARRIAGEWAY)
      23        LINE               PATH (UM)
      25        POINT              TRIANGULATION POINT
      26        POINT              BENCH MARK
      27        POINT              SURFACE LEVEL   (SPOT HEIGHT)
      28        TEXT               NAME / NUMBER, POSITION
      29        LINE               ROAD FENCE, WALL ETC (CASING DEFINITIVE)
      30        LINE               FENCE, WALL ETC - NON ROAD
      31        LINE               ROAD PECKS  (CASING DEFINITIVE)
      32        LINE               SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
      35        LINE               VEGETATION LIMITS   (SKETCHED PECKS)
      36        LINE               GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
      37        POINT              TELEPHONE CALL BOX - GPO
      44        LINE               PIPE LINE - OBSTACLE
      45        LINE               PIPE LINE - SUSPENDED OR NON OBSTACLE
      52        LINE               STEP TREADS
      57        POINT              POINT FEATURES  - DOT
      58        POINT              OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
      59        LINE               BANK OF DOUBLE RIVER / STREAM
      61        LINE               BANK OF DOUBLE DRAIN
      62        LINE               BANK OF LAKE / POND


      64        LINE               SINGLE STREAM
      65        LINE               SINGLE DRAIN
      66        LINE               CENTRE LINE OF DOUBLE WATER FEATURE
      68        POINT              FLOW ARROW - MEDIUM
      69        POINT              FLOW ARROW - SMALL
      70        POINT              CULVERT BAR
      80        LINE               CL - TRACK
      81        LINE               TRACK
      82        POINT              OBJECTS SHOWN BY CIRCLE  (WATER  0.60 MM)
      83        LINE               ROAD PECKS (PAVEMENT  ETC)
      84        LINE               GROUND SURFACE FEATURE LIMITS  (SKETCHED PECKS)
      93        LINE               CL  SECONDARY   SINGLE CARRIAGEWAY
      96        LINE               CL  MINOR  SINGLE CARRIAGEWAY MORE 4 M
      97        LINE               CL  MINOR  SINGLE CARRIAGEWAY LESS 4 M
      98        LINE               CL  MINOR - OTHER ROADS
     103        LINE               ALIGNMENT FEATURE
     108        LINE               SURVEYED PECKS  (BANKS  ETC)
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END OF STRATIFICATION RUN

DENSE URBAN / HILLY (WEST SUSSEX)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 40 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	267.67
5	END OF FEATURE	267.67
6	NO ACTION (7 TRK)	96.97
7	FEATURES (LINE)	191.22
8	FEATURES (TEXT,SYMBOL)	76.45
9	GRID SQUARE INDICATOR	605.77
10	TEXT CLASSIFICATION	55.57
11	CHARACTER CALLS	55.57
12	NO OF ORIENTATIONS	269.60
13	INVISIBLE LINE FLAG	1.00
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED
==================

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	GROUND MINIMUM
1	0.32	4.60	4.27	6.55	16.38	3.83		17.063	0.188
2	10.67	51.80	41.13	70.57	176.43	4.29		42.925	0.063
3	17.85	126.90	109.05	327.74	819.34	7.51		81.592	0.063
4	3.80	9.92	6.13	19.48	48.69	7.95		41.677	0.198
6	0.10	0.20	0.10	0.22	0.56	5.62		7.926	2.350
7	1.67	212.02	210.35	408.11	1020.28	4.85		285.131	0.063
11	0.02	0.02							
12	3.00	3.00							
13	2.13	2.13							
19	0.15	2.22	2.07	30.03	75.08	36.18		87.464	0.593
21	10.63	235.00	224.38	562.64	1406.61	6.27		215.091	0.063
23	4.10	150.15	146.05	334.00	835.01	5.72		210.592	0.063
25	0.07	0.07							
26	2.15	2.15							
27	7.40	7.40							
28	55.60	55.57							
29	11.15	343.52	332.38	810.70	2026.75	6.10		88.755	0.063
30	69.97	1533.38	1463.40	3842.79	9608.96	6.56		330.520	0.063
31	4.80	116.80	112.00	252.65	631.64	5.64		79.196	0.063
32	9.60	149.95	140.35	421.49	1053.73	7.51		226.730	0.063
35	5.35	148.92	143.57	299.14	747.86	5.21		279.485	0.063
36	1.25	56.00	54.75	58.92	147.31	2.69		44.566	0.063
37	0.13	0.13							
47	0.07	0.22	0.15	6.12	15.30	102.03		140.967	0.538
51	0.10	0.10							
52	0.45	1.75	1.30	0.85	2.12	1.63		2.725	0.954
54	0.02	0.02							
55	0.02	1.97	1.95	4.60	11.51	5.90		23.315	1.463
57	0.67	0.67							
58	0.02	0.02							
59	1.92	192.47	190.55	163.38	408.45	2.14		47.440	0.063
61	0.17	4.97	4.80	4.63	11.59	2.41		16.850	0.125
62	1.88	88.25	86.38	65.23	163.08	1.89		34.247	0.063
64	3.65	244.75	241.10	243.84	609.61	2.53		45.966	0.063
65	0.97	26.97	26.00	54.32	135.80	5.22		122.254	0.063
66	0.30	22.42	22.13	20.52	51.31	2.32		17.559	0.063
69	2.05	2.05							
70	2.82	2.82							
80	9.57	341.90	332.32	939.55	2348.87	7.07		495.642	0.063
81	16.92	747.60	730.67	1801.41	4503.51	6.16		218.382	0.063
82	0.30	0.30							
83	0.27	2.65	2.38	6.03	15.07	6.34		36.156	0.313
84	0.52	16.05	15.52	13.46	33.64	2.17		29.847	0.063
90	0.07	5.07	5.00	31.17	77.92	15.58		51.151	0.188
93	0.05	2.95	2.90	13.46	34.91	12.04		45.444	0.288
96	0.38	32.75	32.38	113.46	283.65	8.76		61.933	0.063
97	0.45	24.22	23.77	99.85	249.62	10.50		155.626	0.063
98	1.95	55.60	53.65	162.78	406.96	7.59		74.586	0.063
				3.09	7.71				

A TOTAL NUMBER OF   444.95 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0.0 GND. METRES

TOTAL INKED IN LINES =   4763.02

TOTAL INVISIBLE LINES =   1.00

TOTAL LINES GENERATED =   4764.02

TOTAL DISTANCE GENERATED BY LINES =   27975.95 METRES AT GROUND SCALE
                                    =   1119.038 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   7567.65

NUMBER OF POINTS IN THE FILE =   5031.67

NUMBER OF IGNORED CODES (0 OR >271)   =   1.00

NUMBER OF IGNORED RECORDS (0 OR >271) =   127.65

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
6	LINE	ARCHWAY SYMBOL
7	LINE	BOUNDARY - PARISH OR COMMUNITY
11	POINT	BOUNDARY - POST OR STONE
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
19	LINE	RAILWAY - DISMANTLED CENTRE LINE
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
47	LINE	ELECTRICITY TRANSMISSION LINE
51	POINT	ELECTRICITY POSTS (SURVEYED)
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
80	LINE	CL - TRACK
81	LINE	TRACK
82	POINT	OBJECTS SHOWN BY CIRCLE (WATER 0.60 MM)
83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
103	LINE	SURVEYED PECKS (BANKS ETC)

END OF STRATIFICATION RUN

==
DENSE/LT. DENSE URBAN / HILLY/UNDULATING (SALOP)

(NOTE:- ALL COUNTS ARE MEANED FOR THE 25 SHEETS)

FREQUENCIES

```
 1 START OF SHEET          1.00
 2 END OF SHEET            1.00
 3 END OF FILE             0.0
 4 START OF FEATURE        343.84
 5 END OF FEATURE          343.84
 6 NO ACTION (7 TRK)       92.08
 7 FEATURES (LINE)         268.32
 8 FEATURES (TEXT,SYMBOL)  75.52
 9 GRID SQUARE INDICATOR   692.52
10 TEXT CLASSIFICATION     49.36
11 CHARACTER CALLS         49.36
12 NO OF ORIENTATIONS      345.00
13 INVISIBLE LINE FLAG     2.24
14 N/A                     0.0
15 DISTANCE CALLS          0.0
16 N/A                     0.0
17 CONTOUR CALLS           0.0
```

FEATURES INCLUDED
==================

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	MINIMUM
1	0.32	5.16	4.84	11.32	29.30	5.85		31.207	0.125
2	16.68	73.60	56.92	91.55	223.88	4.02		25.085	0.125
3	33.40	210.24	176.84	502.55	1256.38	7.10		62.353	0.063
4	8.52	23.72	15.20	53.30	133.24	8.77		49.305	0.438
6	0.24	0.48	0.24	0.60	1.51	6.30		7.269	5.458
7	1.00	153.36	152.36	220.41	551.02	3.62		92.162	0.063
9	0.56	97.16	96.60	145.97	364.93	3.78		71.030	0.063
12	2.24	2.24							
13	1.12	1.12							
15	0.40	11.72	11.32	99.35	248.39	21.96		518.581	0.198
21	13.00	348.56	335.56	979.67	2449.17	7.30		213.945	0.063
22	0.24	3.96	3.72	14.39	35.98	9.67		34.773	0.699
23	0.28	12.24	11.96	24.07	60.18	5.03		50.290	0.063
25	0.08	0.08							
26	2.16	2.16							
27	4.48	4.48							
28	49.32	49.32							
29	12.32	438.84	476.52	1223.76	3059.41	6.42		303.893	0.063
30	118.84	1854.48	1735.64	4564.01	11260.03	5.49		342.753	0.063
31	3.12	56.00	52.98	137.57	343.92	6.50		105.066	0.063
32	10.68	125.08	114.40	243.63	609.07	5.32		263.409	0.063
33	0.64	1.28	0.64	1.24	3.09	4.84		6.488	2.824
34	0.08	0.16	0.08	0.16	0.40	5.01		5.127	4.890
35	6.00	200.64	194.64	285.15	712.88	3.66		129.034	0.063
36	2.88	140.88	138.00	208.70	521.76	3.78		58.302	0.063
37	0.12	0.12							
47	0.16	0.60	0.44	18.79	46.98	106.77		193.062	14.629
48	0.08	0.08							
51	0.48	0.48							
52	3.56	10.24	6.68	3.89	9.71	1.45		4.361	0.699
54	0.24	0.24							
55	0.16	0.60	0.44	16.31	40.77	92.67		287.143	4.112
57	1.28	1.28							
58	0.08	0.08							
59	2.96	504.52	501.56	517.37	1293.42	2.58		117.576	0.063
61	0.16	2.20	2.04	3.86	9.65	4.73		23.258	0.125
62	4.20	197.80	193.60	125.82	314.56	1.62		37.900	0.063
64	10.32	376.32	366.00	548.28	1370.69	3.75		139.691	0.063
65	1.08	43.04	41.96	80.78	201.94	4.81		104.514	0.063
66	1.40	193.16	191.76	263.38	658.46	3.43		140.522	0.063
67	0.04	0.04							
68	0.08	0.08							
69	5.76	5.76							
70	7.16	7.16							
80	2.56	57.68	55.12	174.49	436.22	7.91		75.024	0.063
81	5.96	133.68	127.72	359.72	899.29	7.04		174.015	0.063
82	0.80	0.80							
83	0.24	2.56	2.32	4.15	10.36	4.47		17.545	0.198
				5.94	14.80				

96	0.50	27.04	27.03	103.02	270.06	9.97	215.591	0.063
97	0.48	32.96	32.43	109.75	274.36	3.45	43.251	0.063
98	4.04	85.03	81.90	282.75	706.88	8.73	180.823	0.063
101	0.20	5.60	5.40	49.67	124.17	22.99	519.720	0.140
103	0.08	0.16	0.08	0.33	0.82	10.28	11.947	8.614

A TOTAL NUMBER OF   362.68 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0.0 GND. METRES

TOTAL INKED IN LINES   =   5239.80

TOTAL INVISIBLE LINES   =   2.24

TOTAL LINES GENERATED   =   5242.04

TOTAL DISTANCE GENERATED BY LINES =   29019.29 METRES AT GROUND SCALE
                                    =   1160.771 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   8569.92

NUMBER OF POINTS IN THE FILE   =   5585.68

NUMBER OF IGNORED CODES (0 OR >271)   =   0.12

NUMBER OF IGNORED RECORDS (0 OR >271) =   3.00

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
6	LINE	ARCHWAY SYMBOL
7	LINE	BOUNDARY - PARISH OR COMMUNITY
9	LINE	BOUNDARY - COUNTY OR REGION
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
15	LINE	RAILWAY - STANDARD GUAGE
21	LINE	ROAD PECKS (CARRIAGEWAY)
22	LINE	ROAD - CENTRE LINE
23	LINE	PATH (UM)
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD

59

31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
33	LINE	TUNNEL ALIGNMENT
34	LINE	SUBWAY / UNDERPASS ALIGNMENT
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
47	LINE	ELECTRICITY TRANSMISSION LINE
48	POINT	ELECTRICITY PYLON - STANDARD
51	POINT	ELECTRICITY POSTS (SURVEYED)
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES - DOT
58	POINT	OBJECTS SHOWN BY CIRCLE (NON - WATER 0.60 MM)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
67	POINT	FLOW ARROW - LARGE
68	POINT	FLOW ARROW - MEDIUM
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
80	LINE	CL - TRACK
81	LINE	TRACK
82	POINT	OBJECTS SHOWN BY CIRCLE (WATER 0.60 MM)
83	LINE	ROAD PECKS (PAVEMENT ETC)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS
101	LINE	CL RAILWAY - SINGLE TRACK
103	LINE	ALIGNMENT FEATURE

END OF STRATIFICATION RUN

(NOTE:- ALL COUNTS ARE MEANED FOR THE   12 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	362.83
5	END OF FEATURE	362.83
6	NO ACTION (7 TRK)	92.92
7	FEATURES (LINE)	283.00
8	FEATURES (TEXT,SYMBOL)	79.83
9	GRID SQUARE INDICATOR	738.33
10	TEXT CLASSIFICATION	50.50
11	CHARACTER CALLS	50.50
12	NO OF ORIENTATIONS	363.17
13	INVISIBLE LINE FLAG	0.58
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

FEATURES INCLUDED
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F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	STANDARD DEVIATION	GROUND MAXIMUM	MINIMUM
1	0.42	2.42	2.00	4.63	11.58	5.79		11.347	1.512
2	17.92	83.42	65.50	101.58	253.95	3.88		17.379	0.177
3	23.08	135.33	113.25	307.73	769.32	6.68		40.675	0.253
4	5.42	15.42	10.00	30.65	76.63	7.66		22.497	0.125
8	3.08	38.17	38.08	18.16	45.39	1.19		20.828	0.063
9	0.33	50.50	50.17	130.06	325.16	6.48		91.192	0.063
12	1.50	1.50							
13	0.33	0.33							
21	14.42	344.33	329.92	769.02	1922.56	5.83		175.741	0.063
22	0.08	1.42	1.33	1.63	4.08	3.06		7.603	0.063
23	1.50	50.67	49.17	96.52	241.30	4.91		43.459	0.063
25	0.08	0.08							
26	3.00	3.00							
27	6.33	6.33							
28	50.50	50.50							
29	13.25	735.75	722.50	1217.43	3043.58	4.21		146.993	0.063
30	119.67	3062.83	2943.17	5264.29	13160.72	4.47		234.800	0.063
31	6.17	125.58	112.42	221.59	553.97	4.64		90.226	0.063
32	6.17	76.50	64.33	101.83	254.57	3.96		70.722	0.063
35	11.42	389.92	372.50	676.15	1690.41	4.47		87.597	0.063
36	23.25	669.83	646.58	616.12	1540.30	2.38		34.541	0.063
37	0.25	0.25							
52	0.50	2.17	1.67	1.08	2.71	1.63		2.699	0.884
54	0.08	0.08							
55	0.08	3.83	3.75	1.83	4.58	1.22		3.443	0.140
57	0.83	0.83							
59	3.08	237.67	234.58	163.73	409.34	1.74		20.421	0.063
62	0.58	12.17	11.58	5.43	13.57	1.17		4.957	0.063
64	14.00	989.00	976.00	903.04	2257.59	2.32		63.496	0.063
65	0.58	8.50	7.92	19.55	48.88	6.17		41.934	0.140
66	6.50	90.83	90.33	84.64	211.59	2.34		19.539	0.063
69	7.25	7.25							
70	7.25	7.25							
80	3.67	127.50	125.83	291.84	729.60	5.89		84.915	0.063
81	11.33	285.50	274.17	629.35	1573.38	5.74		67.013	0.063
82	2.42	2.42							
84	0.67	28.50	28.33	25.40	63.49	2.20		31.256	0.063
97	1.50	125.00	123.50	382.34	955.85	7.74		203.288	0.063
98	3.33	129.25	125.92	333.13	832.81	6.61		193.986	0.063

A TOTAL NUMBER OF   390.67 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0.0 GND. METRES

TOTAL INKED IN LINES =   7526.41

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        TOTAL DISTANCE GENERATED BY LINES =        30984.88 METRES AT GROUND SCALE
                                          =        1239.395 CMS AT MAP SCALE


NUMBER OF RECORDS IN THE FILE =                11951.25

NUMBER OF POINTS IN THE FILE  =                7899.83

NUMBER OF IGNORED CODES (0 OR >271)   =            0.0

NUMBER OF IGNORED RECORDS (0 OR >271) =            0.0
```

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING - PUBLIC
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
8	LINE	BOUNDARY - DISTRICT
9	LINE	BOUNDARY - COUNTY OR REGION
12	POINT	BOUNDARY - MEREING SYMBOL FULL
13	POINT	BOUNDARY - MEREING SYMBOL HALF
21	LINE	ROAD PECKS (CARRIAGEWAY)
22	LINE	ROAD - CENTRE LINE
23	LINE	PATH (UM)
25	POINT	TRIANGULATION POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
36	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS SUPPRESSED)
37	POINT	TELEPHONE CALL BOX - GPO
52	LINE	STEP TREADS
54	POINT	ANTIQUITY SYMBOL
55	LINE	ANTIQUITY PECKS (COURSE OF)
57	POINT	POINT FEATURES - DOT
59	LINE	BANK OF DOUBLE RIVER / STREAM
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
80	LINE	CL - TRACK
81	LINE	TRACK
82	POINT	OBJECTS SHOWN BY CIRCLE (WATER 0.60 MM)
84	LINE	GROUND SURFACE FEATURE LIMITS (SKETCHED PECKS)
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
98	LINE	CL MINOR - OTHER ROADS

61

END OF STRATIFICATION RUN

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AAAAAAAAAA    NN        NN NN        NN  EEEEEEEEEEEE  XX        XX        555555555555
AAAAAAAAAAAA  NNN       NN NNN       NN  EEEEEEEEEEEE  XX        XX        555555555555
AA        AA  NNNN      NN NNNN      NN  EE              XX    XX          55
AA        AA  NN NN     NN NN NN     NN  EE               XX  XX          55
AA        AA  NN  NN    NN NN  NN    NN  EE                XX XX          55
AAAAAAAAAAAA  NN   NN   NN NN   NN   NN  EEEEEEEE           XXXX          555555555
AAAAAAAAAAAA  NN    NN  NN NN    NN  NN  EEEEEEEE           XXXX          5555555555
AA        AA  NN     NN NN NN     NN NN  EE                XX XX                   55
AA        AA  NN      NNNN NN      NNNN  EE               XX  XX                   55
AA        AA  NN       NNN NN       NNN  EE              XX    XX                  55
AA        AA  NN        NN NN        NN  EEEEEEEEEEEE   XX        XX      555555555555
AA        AA  NN         N NN         N  EEEEEEEEEEEE   XX        XX       5555555555
```

62

TWO 1250 QUADRANTS FOR COMPARISON WITH 2500 AREA

(NOTE:- ALL COUNTS ARE MEANED FOR THE   2 SHEETS)

FREQUENCIES

```
 1 START OF SHEET            1.00
 2 END OF SHEET             1.00
 3 END OF FILE              0.0
 4 START OF FEATURE        545.50
 5 END OF FEATURE          545.50
 6 NO ACTION (7 TRK)       111.00
 7 FEATURES (LINE)         428.50
 8 FEATURES (TEXT,SYMBOL)  117.00
 9 GRID SQUARE INDICATOR   932.00
10 TEXT CLASSIFICATION      93.00
11 CHARACTER CALLS          93.00
12 NO OF ORIENTATIONS      548.00
13 INVISIBLE LINE FLAG       9.50
14 N/A                      0.0
15 DISTANCE CALLS           0.0
16 N/A                      0.0
17 CONTOUR CALLS            0.0
```

63

FEATURES INCLUDED
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F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	GROUND STANDARD DEVIATION	GROUND MAXIMUM	MINIMUM
1	1.00	7.00	6.00	36.15	45.18	7.53		16.446	2.523
2	44.50	204.00	159.50	433.50	541.87	3.40		9.546	0.400
3	76.50	676.50	566.00	2416.53	3020.66	5.39		94.266	0.225
4	39.50	95.00	55.50	137.69	172.11	3.10		39.122	0.400
8	4.50	189.00	184.50	566.17	707.71	3.84		23.401	0.0
12	5.50	5.50							
13	2.50	2.50							
21	10.50	524.50	514.00	1402.29	1752.86	3.41		76.649	0.0
23	0.50	16.00	15.50	111.61	139.51	9.00		13.582	2.450
24	5.00	5.00							
26	0.50	0.50							
27	2.00	2.00							
28	93.00	93.00							
29	24.50	314.00	289.50	1335.37	1669.84	5.77		83.843	0.063
30	161.00	1120.50	959.50	4875.29	6094.11	6.38		155.237	0.0
31	11.50	191.50	180.00	503.64	629.55	3.50		81.722	0.0
32	19.00	90.00	71.00	521.70	652.13	9.18		66.093	0.442
52	1.00	2.00	1.00	1.09	1.36	1.36		1.486	1.228
57	7.50	7.50							
59	5.00	164.50	159.50	405.09	506.36	3.17		46.473	0.0
61	1.50	23.50	22.00	78.28	97.85	4.45		17.793	0.088
65	9.50	175.50	166.00	645.03	806.28	4.86		132.470	0.063
69	1.00	1.00							
78	2.00	36.50	34.50	138.53	173.16	5.02		34.152	0.063
80	2.00	47.00	45.00	232.81	291.01	6.47		44.053	0.140
81	2.00	108.50	106.50	462.54	578.17	5.43		17.808	0.125
83	6.50	29.00	28.50	230.55	288.19	10.11		23.411	0.0
90	0.50	4.50	4.00	66.02	82.52	20.63		46.492	8.167
93	0.50	5.00	4.50	190.27	237.84	52.85		36.154	34.603
98	5.00	64.00	59.00	436.82	598.53	10.31		73.728	0.063

A TOTAL NUMBER OF   522.50 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0.0 GND. METRES

TOTAL INKED IN LINES =   3616.00

TOTAL INVISIBLE LINES =   9.50

TOTAL LINES GENERATED =   3625.50

TOTAL DISTANCE GENERATED BY LINES =   19091.62 METRES AT GROUND SCALE
                                    =   1527.329 CMS AT MAP SCALE

NUMBER OF IGNORED CODES (0 OR >271)   =   3.50

NUMBER OF IGNORED RECORDS (0 OR >271)   =   107.00

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
1	LINE	BUILDING — PUBLIC
2	LINE	BUILDING — MINOR
3	LINE	BUILDING — OTHER
4	LINE	BUILDING — OPEN SIDED
9	LINE	BOUNDARY — DISTRICT
12	POINT	BOUNDARY — MEREING SYMBOL FULL
13	POINT	BOUNDARY — MEREING SYMBOL HALF
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
24	POINT	MINOR CONTROL POINT
26	POINT	BENCH MARK
27	POINT	SURFACE LEVEL (SPOT HEIGHT)
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC — NON ROAD
31	LINE	ROAD PECKS (CASING DEFINITIVE)
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
52	LINE	STEP TREADS
57	POINT	POINT FEATURES — DOT
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
65	LINE	SINGLE DRAIN
69	POINT	FLOW ARROW — SMALL
78	LINE	BOUNDARY — YARD
80	LINE	CL — TRACK
81	LINE	TRACK
83	LINE	ROAD PECKS (PAVEMENT ETC)
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
98	LINE	CL MINOR — OTHER ROADS

END OF STRATIFICATION RUN

(NOTE:- ALL COUNTS ARE MEANED FOR THE 1 SHEETS)

FREQUENCIES

1	START OF SHEET	1.00
2	END OF SHEET	1.00
3	END OF FILE	0.0
4	START OF FEATURE	136.00
5	END OF FEATURE	136.00
6	NO ACTION (7 TRK)	53.00
7	FEATURES (LINE)	111.00
8	FEATURES (TEXT,SYMBOL)	25.00
9	GRID SQUARE INDICATOR	269.00
10	TEXT CLASSIFICATION	15.00
11	CHARACTER CALLS	16.00
12	NO OF ORIENTATIONS	138.00
13	INVISIBLE LINE FLAG	0.0
14	N/A	0.0
15	DISTANCE CALLS	0.0
16	N/A	0.0
17	CONTOUR CALLS	0.0

65

FEATURES INCLUDED

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	STANDARD DEVIATION	GROUND MAXIMUM	MINIMUM
2	4.00	19.00	15.00	28.45	71.13	4.74		3.274	3.065
3	19.00	65.00	64.00	279.56	698.90	10.92		35.347	0.871
4	10.00	22.00	12.00	61.83	154.59	12.88		21.280	5.313
8	1.00	57.00	56.00	213.04	532.60	9.51		49.233	0.063
13	2.00	2.00							
21	2.00	18.00	16.00	41.31	103.27	6.45		10.825	0.438
23	1.00	71.00	70.00	207.97	519.92	7.43		51.714	0.177
24	2.00	2.00							
28	16.00	16.00							
29	9.00	127.00	118.00	415.26	1038.14	8.80		110.764	0.063
30	44.00	437.00	393.00	2371.87	5929.66	15.09		146.145	0.063
32	2.00	10.00	8.00	8.21	20.52	2.57		10.945	0.313
35	1.00	31.00	30.00	28.50	71.24	2.37		9.753	0.125
59	7.00	115.00	108.00	424.24	1060.60	9.82		186.504	0.125
61	1.00	6.00	5.00	38.91	97.27	19.45		47.963	1.505
62	1.00	43.00	42.00	40.41	101.03	2.41		24.366	0.063
64	3.00	50.00	47.00	376.62	941.55	20.03		94.288	0.125
65	3.00	29.00	26.00	66.73	160.82	6.42		28.108	0.563
69	3.00	3.00							
70	2.00	2.00							
98	3.00	47.00	44.00	197.30	493.24	11.21		60.706	0.419

A TOTAL NUMBER OF 125.00 CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0.0 GND. METRES

TOTAL INKED IN LINES =   1054.00

TOTAL INVISIBLE LINES =   0.0

TOTAL LINES GENERATED =   1054.00

TOTAL DISTANCE GENERATED BY LINES =   11999.35 METRES AT GROUND SCALE
                                    =   479.974 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   2351.00

NUMBER OF POINTS IN THE FILE =   1199.00

NUMBER OF IGNORED CODES (0 OR >271)   =   4.00

NUMBER OF IGNORED RECORDS (0 OR >271)   =   95.00

FEATURE CODE DESCRIPTION

CODE	TYPE	DESCRIPTION
2	LINE	BUILDING - MINOR
3	LINE	BUILDING - OTHER
4	LINE	BUILDING - OPEN SIDED
8	LINE	BOUNDARY - DISTRICT
13	POINT	BOUNDARY - MEREING SYMBOL HALF
21	LINE	ROAD PECKS (CARRIAGEWAY)
23	LINE	PATH (UM)
24	POINT	MINOR CONTROL POINT
28	TEXT	NAME / NUMBER, POSITION
29	LINE	ROAD FENCE, WALL ETC (CASING DEFINITIVE)
30	LINE	FENCE, WALL ETC - NON ROAD
32	LINE	SURVEYED PECKS (BANKS, BAULKS, MADE PATHS, DRIVEWAYS ETC)
35	LINE	VEGETATION LIMITS (SKETCHED PECKS)
59	LINE	BANK OF DOUBLE RIVER / STREAM
61	LINE	BANK OF DOUBLE DRAIN
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
65	LINE	SINGLE DRAIN
69	POINT	FLOW ARROW - SMALL
70	POINT	CULVERT BAR
98	LINE	CL MINOR - OTHER ROADS

END OF STRATIFICATION RUN

```
   AAAAAAAAA    NN        NN  NN        NN  EEEEEEEEEEEE  XX        XX            6666666666
  AAAAAAAAAAA   NNN       NN  NNN       NN  EEEEEEEEEEEE  XX        XX           666666666666
  AA       AA   NNNN      NN  NNNN      NN  EE              XX    XX             66        66
  AA       AA   NN NN     NN  NN NN     NN  EE               XX  XX             66
  AA       AA   NN  NN    NN  NN  NN    NN  EE                XXXX             66
  AAAAAAAAAAA   NN   NN   NN  NN   NN   NN  EEEEEEE            XXXX             66666666666
  AAAAAAAAAAA   NN    NN  NN  NN    NN  NN  EEEEEEE           XX  XX           666666666666
  AA       AA   NN     NN NN  NN     NN NN  EE               XX    XX          66        66
  AA       AA   NN      NNNN  NN      NNNN  EE              XX      XX         66        66
  AA       AA   NN       NNN  NN       NNN  EE             XX        XX        66        66
  AA       AA   NN        NN  NN        NN  EEEEEEEEEEEE   XX        XX        666666666666
  AA       AA   NN         N  NN         N  EEEEEEEEEEEE   XX        XX          6666666666
```

FREQUENCIES

1 START OF SHEET	1.	
2 END OF SHEET	1.	
3 END OF FILE	0.	
4 START OF FEATURE	3454.	
5 END OF FEATURE	3454.	
6 NO ACTION (7 TRK)	0.	
7 FEATURES (LINE)	2389.	
8 FEATURES (TEXT,SYMBOL)	1065.	
9 GRID SQUARE INDICATOR	3933.	
10 TEXT CLASSIFICATION	140.	
11 CHARACTER CALLS	140.	
12 NO OF ORIENTATIONS	3454.	
13 INVISIBLE LINE FLAG	0.	
14 N/A	0.	
15 DISTANCE CALLS	0.	
16 N/A	0.	
17 CONTOUR CALLS	0.	

Sheet 202

Water Features
(for entire sheet)

68

FEATURES INCLUDED
==================

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND---- MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	------GROUND------ MAXIMUM	MINIMUM	LOGARITHMIC TRANSFORMATION SKEW	KURTOSIS
28	140.	140.											
59	47.	6221.	6174.	1232.7	61634.44	10.0	7.006	3.6113	34.121	122.47	0.0	0.2467	-1.090
62	95.	2629.	2534.	366.2	18308.86	7.2	8.728	13.0275	344.256	272.23	0.0	0.6591	2.828
64	1122.	38109.	36987.	6558.5	327923.63	8.9	6.206	4.0792	57.605	192.08	0.0	0.4245	-0.356
66	136.	3105.	2969.	629.8	31489.71	10.6	6.938	1.2798	2.572	53.91	0.0	0.0539	-1.279
71	35.	6267.	6232.	897.8	44891.96	7.2	8.053	9.3843	158.955	232.00	0.0	1.3622	2.597
198	65.	7221.	7156.	1284.7	64233.54	9.0	6.755	2.2494	10.542	79.92	0.0	0.4372	-0.592
199	70.	1476.	1406.	434.8	21742.13	15.5	11.497	1.8307	5.186	93.34	1.94	-0.5323	-1.718
200	3.	132.	129.	22.9	1147.30	8.9	5.537	1.3257	3.033	34.93	2.00	0.6270	-1.619
201	4.	8.	4.	67.3	3363.67	840.9	542.586	0.5271	-1.858	1609.22	398.90	0.7500	-1.688
202	721.	13603.	12882.	2694.1	134704.69	10.5	13.672	42.6333	2606.732	950.02	0.0	0.0735	-0.844
203	12.	3390.	3378.	1336.2	66810.75	19.8	15.662	3.7314	35.793	264.74	0.0	-1.1004	0.026
204	79.	2472.	2393.	509.2	25459.59	10.6	7.558	2.1905	13.048	103.32	1.94	0.2346	-1.919
209	68.	68.											
210	46.	46.											
211	806.	806.											
212	3.	3.											
213	2.	2.											

A TOTAL NUMBER OF   1328. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0. GND. METRES

TOTAL INKED IN LINES   =   82244.

TOTAL INVISIBLE LINES =   0.

TOTAL LINES GENERATED =   82244.

TOTAL DISTANCE GENERATED BY LINES =   800158.44 METRES AT GROUND SCALE
                                   =   1600.317 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   108029.

NUMBER OF POINTS IN THE FILE =   85698.

NUMBER OF IGNORED CODES (0 OR >271)   =   0.

NUMBER OF IGNORED RECORDS (0 OR >271) =   0.

FEATURE CODE DESCRIPTION

FEATURE   FEATURE

```
28        TEXT        NAME / NUMBER, POSITION
59        LINE        BANK OF DOUBLE RIVER / STREAM
62        LINE        BANK OF LAKE / POND
64        LINE        SINGLE STREAM
66        LINE        CENTRE LINE OF DOUBLE WATER FEATURE
71        LINE        MEAN HIGH WATER  (MHWS)
198       LINE        BANK OF TIDAL ESTUARY
199       LINE        CL  TIDAL ESTUARY
200       LINE        TIDAL PART OF SINGLE STREAM
201       LINE        HWM  -  ESTUARY MOUTH
202       LINE        SWAMP / UNDERGROUND WATER ALIGNMENT
203       LINE        DRAINAGE AREA BOUNDARY
204       LINE        CL  CANAL  ( WET )
209       POINT       ISOLATED WATER FEATURE
210       POINT       MOUTH OF WATER FEATURE
211       POINT       SOURCE OF WATER FEATURE
212       POINT       START OF DRAINAGE AREA
213       POINT       END OF DRAINAGE AREA
```

69

RECOVERY OF STATISTICS GENERATED FOR OS SHEET   50000

FREQUENCIES

1 START OF SHEET	1.	
2 END OF SHEET	1.	
3 END OF FILE	0.	
4 START OF FEATURE	185.	
5 END OF FEATURE	185.	
6 NO ACTION (7 TRK)	196.	
7 FEATURES (LINE)	179.	
8 FEATURES (TEXT,SYMBOL)	6.	
9 GRID SQUARE INDICATOR	238.	
10 TEXT CLASSIFICATION	5.	
11 CHARACTER CALLS	5.	
12 NO OF ORIENTATIONS	185.	
13 INVISIBLE LINE FLAG	0.	
14 N/A	0.	
15 DISTANCE CALLS	0.	
16 N/A	0.	
17 CONTOUR CALLS	0.	

Sheet 202

CL Roads
(SE Quadrant)

FEATURES INCLUDED
=================

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND---- MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	------GROUND------ MAXIMUM	MINIMUM	LOGARITHMIC TRANSFORMATION	
28	5.	5.											
90	21.	351.	330.	272.3	13616.94	41.3	43.960	2.7259	9.353	308.06	2.00	-0.2384	1.294
93	2.	22.	20.	28.3	1415.04	70.8	48.730	0.5096	-0.821	162.05	2.83	0.0712	-0.020
97	152.	2349.	2197.	1662.0	83099.88	37.8	33.372	2.1933	7.338	294.44	0.0	-0.6430	2.427
118	4.	192.	188.	119.7	5984.16	31.8	30.410	2.8554	11.748	220.32	1.94	-0.8058	0.990
174	1.	1.											

A TOTAL NUMBER OF   21. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0. GND. METRES

TOTAL INKED IN LINES =   2735.

TOTAL INVISIBLE LINES =   0.

TOTAL LINES GENERATED =   2735.

TOTAL DISTANCE GENERATED BY LINES =   104084.31 METRES AT GROUND SCALE
                                  =   208.169 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   4162.

NUMBER OF POINTS IN THE FILE =   2920.

NUMBER OF IGNORED CODES (0 OR >271)   =   0.

NUMBER OF IGNORED RECORDS (0 OR >271) =   0.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
28	TEXT	NAME / NUMBER, POSITION
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
118	LINE	NATIONAL TRUST BOUNDARY (ALWAYS OPEN)
174	POINT	YOUTH HOSTEL

70

FREQUENCIES
----

1 START OF SHEET	1.	
2 END OF SHEET	1.	
3 END OF FILE	0.	
4 START OF FEATURE	563.	
5 END OF FEATURE	563.	
6 NO ACTION (7 TRK)	113.	
7 FEATURES (LINE)	541.	
8 FEATURES (TEXT,SYMBOL)	22.	
9 GRID SQUARE INDICATOR	828.	
10 TEXT CLASSIFICATION	18.	
11 CHARACTER CALLS	18.	
12 NO OF ORIENTATIONS	563.	
13 INVISIBLE LINE FLAG	0.	
14 N/A	0.	
15 DISTANCE CALLS	0.	
16 N/A	0.	
17 CONTOUR CALLS	0.	

Sheet 202

CL Roads

(SW Quadrant)

71

FEATURES INCLUDED
=================

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND---- MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	------GROUND------ MAXIMUM	MINIMUM	LOGARITHMIC TRANSFORMATION SKEW	KURTOSIS
28	18.	18.											
90	65.	797.	732.	690.7	34534.34	47.2	36.755	1.7991	4.834	236.01	2.00	-0.2470	2.317
93	38.	504.	466.	417.6	20879.25	44.8	40.839	2.2499	6.921	260.50	2.00	-0.2339	1.827
96	42.	424.	382.	311.4	15572.39	40.8	33.601	1.7695	4.465	221.45	2.00	-0.3493	2.174
97	372.	7788.	7416.	5277.1	263852.88	35.6	32.011	2.4051	8.515	268.70	0.0	-0.6303	1.898
112	1.	1.											
118	17.	1825.	1808.	764.9	38244.14	21.2	28.416	6.0934	59.814	451.20	0.0	-0.6056	0.554
140	7.	24.	17.	9.1	454.78	26.8	22.712	1.2260	0.151	82.46	4.47	-1.5498	0.438
149	1.	1.											
174	2.	2.											

A TOTAL NUMBER OF   87. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0. GND. METRES

TOTAL INKED IN LINES =   10821.

TOTAL INVISIBLE LINES =   0.

TOTAL LINES GENERATED =   10821.

TOTAL DISTANCE GENERATED BY LINES =   373281.31 METRES AT GROUND SCALE
                                  =   746.563 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   15370.

NUMBER OF POINTS IN THE FILE   =   11384.

NUMBER OF IGNORED CODES (0 OR >271)   =   0.

NUMBER OF IGNORED RECORDS (0 OR >271) =   0.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
28	TEXT	NAME / NUMBER, POSITION
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
		SINGLE CARRIAGEWAY LESS 4 M

118	LINE	NATIONAL TRUST BOUNDARY (ALWAYS OPEN)
140	LINE	ROAD UNDER BRIDGE
149	POINT	BUS OR COACH STATION
174	POINT	YOUTH HOSTEL

ODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND---- MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	------GROUND------ MAXIMUM	MINIMUM
28	29.	29.		3.9	195.99	17.8	8.503	0.0085	-0.457	34.06	2.00
89	2.	13.	11.	790.2	39510.73	46.3	40.131	2.4104	9.933	383.56	1.94
90	70.	924.	854.	1287.8	64388.80	52.6	47.723	2.1186	5.953	354.62	1.94
93	119.	1343.	1224.	651.9	32597.09	55.9	47.231	1.6694	3.417	301.12	0.06
96	74.	657.	583.	8923.2	446160.69	38.2	34.940	2.4152	9.000	396.19	0.0
97	679.	12354.	11675.	286.2	14307.77	48.0	52.539	2.5107	7.929	379.82	0.0
18	3.	301.	298.	27.4	1368.17	40.2	62.282	2.0670	3.428	261.74	2.00
19	1.	35.	34.								
29	2.	2.									
40	29.	58.	29.	42.5	2126.36	73.3	22.209	0.4925	1.128	139.86	30.99
55	2.	2.									
74	1.	1.									
21	18.	86.	68.	85.1	4255.59	62.6	60.346	1.4981	1.915	286.00	4.00
22	40.	324.	284.	481.6	24082.33	84.8	59.535	1.3810	2.924	357.77	2.00

OTAL NUMBER OF   174. CHARACTERS EXIST

AL DISTANCE OF -15 CODED LINES =   0. GND. METRES

AL INKED IN LINES   =   15060.

AL INVISIBLE LINES   =   0.

AL LINES GENERATED   =   15060.

AL DISTANCE GENERATED BY LINES =   628626.06 METRES AT GROUND SCALE
                                =   1257.252 CMS AT MAP SCALE

MBER OF RECORDS IN THE FILE =   23477.

MBER OF POINTS IN THE FILE   =   16129.

MBER OF IGNORED CODES (0 OR >271)   =   0.

MBER OF IGNORED RECORDS (0 OR >271) =   0.

ATURE CODE DESCRIPTION

EATURE CODE	FEATURE TYPE	DESCRIPTION
28	TEXT	NAME / NUMBER, POSITION

89	LINE	CL TRUNK/MAIN DUAL CARRIAGEWAY
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
18	LINE	NATIONAL TRUST BOUNDARY (ALWAYS OPEN)
19	LINE	NATIONAL TRUST BOUNDARY (OPENING RESTRICTED)
29	POINT	OTHER RAILWAY STATION (IN USE)
40	LINE	ROAD UNDER BRIDGE
55	POINT	STANDARD ROUNDABOUT
74	POINT	YOUTH HOSTEL
21	LINE	CL TRUNK ROAD (SINGLE CARRIAGEWAY)
22	LINE	CL TRUNK ROAD (DUAL CARRIAGEWAY)

FREQUENCIES

1 START OF SHEET	1.	
2 END OF SHEET	1.	
3 END OF FILE	0.	
4 START OF FEATURE	976.	
5 END OF FEATURE	976.	
6 NO ACTION (7 TRK)	148.	
7 FEATURES (LINE)	939.	
8 FEATURES (TEXT,SYMBOL)	37.	
9 GRID SQUARE INDICATOR	1270.	
10 TEXT CLASSIFICATION	20.	
11 CHARACTER CALLS	20.	
12 NO OF ORIENTATIONS	976.	
13 INVISIBLE LINE FLAG	0.	
14 N/A	0.	
15 DISTANCE CALLS	0.	
16 N/A	0.	
17 CONTOUR CALLS	0.	

Sheet 202

CL Roads

(NE Quadrant)

74

FEATURES INCLUDED
==================

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND---- MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	------GROUND------ MAXIMUM	MINIMUM
28	20.	20.		42.5	2122.51	54.4	43.666	1.8573	3.749	217.51	6.32
89	5.	44.	39.			50.5	47.654	2.5567	9.429	396.96	0.0
90	171.	1663.	1492.	1506.3	75315.56	55.2	50.849	2.0057	4.974	320.76	1.94
93	73.	637.	564.	622.6	31128.48	55.2	50.849	2.9805	15.414	454.13	0.0
96	122.	1807.	1685.	1344.5	67226.88	39.9	39.409	2.9805	6.958	345.48	0.0
97	546.	7977.	7431.	6110.2	305508.56	41.1	37.545	2.2018	6.958	345.48	0.0
112	1.	1.									
118	1.	10.	9.	19.0	951.20	105.7	85.792	0.7943	-0.593	285.68	25.61
129	7.	7.									
140	21.	43.	22.	24.3	1216.21	55.3	17.410	-0.5340	-0.996	82.40	24.38
149	5.	5.									
155	3.	3.									
174	1.	1.									

A TOTAL NUMBER OF   99. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0. GND. METRES

TOTAL INKED IN LINES   =   11242.

TOTAL INVISIBLE LINES =   0.

TOTAL LINES GENERATED =   11242.

TOTAL DISTANCE GENERATED BY LINES =   483200.69 METRES AT GROUND SCALE
                                    =   966.401 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   18748.

NUMBER OF POINTS IN THE FILE =   12218.

NUMBER OF IGNORED CODES (0 OR >271) =   0.

NUMBER OF IGNORED RECORDS (0 OR >271) =   0.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
		NAME & NUMBER POSITION

```
 93     LINE        CL  SECONDARY  SINGLE CARRIAGEWAY
 96     LINE        CL  MINOR  SINGLE CARRIAGEWAY MORE 4 M
 97     LINE        CL  MINOR  SINGLE CARRIAGEWAY LESS 4 M
112     POINT       LEADER ARROW  1/50000
118     LINE        NATIONAL TRUST  BOUNDARY  (ALWAYS OPEN)
129     POINT       OTHER RAILWAY STATION  (IN USE)
140     LINE        ROAD UNDER BRIDGE
149     POINT       BUS OR COACH STATION
155     POINT       STANDARD ROUNDABOUT
174     POINT       YOUTH HOSTEL
```

RECOVERY OF STATISTICS GENERATED FOR OS SHEET   50000
==

FREQUENCIES

1	START OF SHEET	1.
2	END OF SHEET	1.
3	END OF FILE	0.
4	START OF FEATURE	51.
5	END OF FEATURE	51.
6	NO ACTION (7 TRK)	152.
7	FEATURES (LINE)	51.
8	FEATURES (TEXT,SYMBOL)	0.
9	GRID SQUARE INDICATOR	79.
10	TEXT CLASSIFICATION	0.
11	CHARACTER CALLS	0.
12	NO OF ORIENTATIONS	51.
13	INVISIBLE LINE FLAG	0.
14	N/A	0.
15	DISTANCE CALLS	0.
16	N/A	0.
17	CONTOUR CALLS	0.

Sheet 202

CL Boundaries
(SE Quadrant)

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND----		SKEW	KURTOSIS	------GROUND-----	
						MEAN DIST	STANDARD DEVIATION			MAXIMUM	MINIMUM
7	12.	656.	644.	417.7	20884.30	32.4	31.026	2.0702	3.717	167.48	2.83
9	39.	840.	801.	508.8	25438.70	31.8	36.910	2.7176	7.860	236.81	2.00

A TOTAL NUMBER OF   0. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0. GND. METRES

TOTAL INKED IN LINES =   1445.

TOTAL INVISIBLE LINES =   0.

TOTAL LINES GENERATED =   1445.

TOTAL DISTANCE GENERATED BY LINES =   46321.18 METRES AT GROUND SCALE
                                  =   92.642 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   1864.

NUMBER OF POINTS IN THE FILE =   1496.

NUMBER OF IGNORED CODES (0 OR >271)   =   0.

NUMBER OF IGNORED RECORDS (0 OR >271)   =   0.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
7	LINE	BOUNDARY - PARISH OR COMMUNITY
9	LINE	BOUNDARY - COUNTY OR REGION

76

RECOVERY OF STATISTICS GENERATED FOR OS SHEET   50000
===

FREQUENCIES

1	START OF SHEET	1.
2	END OF SHEET	1.
3	END OF FILE	0.
4	START OF FEATURE	222.
5	END OF FEATURE	222.
6	NO ACTION (7 TRK)	161.
7	FEATURES (LINE)	222.
8	FEATURES (TEXT,SYMBOL)	0.
9	GRID SQUARE INDICATOR	360.
10	TEXT CLASSIFICATION	0.
11	CHARACTER CALLS	0.
12	NO OF ORIENTATIONS	222.
13	INVISIBLE LINE FLAG	0.
14	N/A	0.
15	DISTANCE CALLS	0.
16	N/A	0.
17	CONTOUR CALLS	0.

Sheet 202

CL Boundaries

(SW Quadrant)

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND---- MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	------GROUND------ MAXIMUM	MINIMUM
7	66.	4807.	4741.	3020.2	151008.25	31.9	31.608	2.5004	7.034	228.22	0.0
9	156.	4812.	4656.	1181.1	59054.13	12.7	15.230	5.9234	51.612	217.82	0.0

A TOTAL NUMBER OF   0. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0. GND. METRES

TOTAL INKED IN LINES   =   9397.

TOTAL INVISIBLE LINES =   0.

TOTAL LINES GENERATED =   9397.

TOTAL DISTANCE GENERATED BY LINES =   209865.38 METRES AT GROUND SCALE
                                    =   419.730 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   11233.

NUMBER OF POINTS IN THE FILE =   9619.

NUMBER OF IGNORED CODES (0 OR >271)   =   0.

NUMBER OF IGNORED RECORDS (0 OR >271) =   0.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
7	LINE	BOUNDARY - PARISH OR COMMUNITY
9	LINE	BOUNDARY - COUNTY OR REGION

77

RECOVERY OF STATISTICS GENERATED FOR OS SHEET   50000
==

FREQUENCIES
----

1 START OF SHEET	1.
2 END OF SHEET	1.
3 END OF FILE	0.
4 START OF FEATURE	125.
5 END OF FEATURE	125.
6 NO ACTION (7 TRK)	17.
7 FEATURES (LINE)	125.
8 FEATURES (TEXT,SYMBOL)	0.
9 GRID SQUARE INDICATOR	300.
10 TEXT CLASSIFICATION	0.
11 CHARACTER CALLS	0.
12 NO OF ORIENTATIONS	125.
13 INVISIBLE LINE FLAG	0.
14 N/A	0.
15 DISTANCE CALLS	0.
16 N/A	0.
17 CONTOUR CALLS	0.

Sheet 202

CL Boundaries
(NW Quadrant)

E	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	GROUND MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	GROUND MAXIMUM	MINIMUM
	105.	6484.	6379.	4560.3	228012.44	35.7	33.322	2.2600	6.454	343.10	2.00
	20.	522.	502.	763.9	38193.43	76.1	62.889	1.5337	3.149	390.46	2.00

TAL NUMBER OF   0. CHARACTERS EXIST

DISTANCE OF -15 CODED LINES =   0. GND. METRES

INKED IN LINES   =   6881.

INVISIBLE LINES =   0.

LINES GENERATED =   6881.

DISTANCE GENERATED BY LINES =   266048.88 METRES AT GROUND SCALE
                            =   532.097 CMS AT MAP SCALE

ER OF RECORDS IN THE FILE =   8112.

ER OF POINTS IN THE FILE =   7006.

ER OF IGNORED CODES (0 OR >271)   =   0.

ER OF IGNORED RECORDS (0 OR >271) =   0.

URE CODE DESCRIPTION

TURE DE	FEATURE TYPE	DESCRIPTION
	LINE	BOUNDARY - PARISH OR COMMUNITY
	LINE	BOUNDARY - DISTRICT

78

COVERY OF STATISTICS GENERATED FOR OS SHEET   50000
===

FREQUENCIES

START OF SHEET   1.

END OF SHEET   1.

END OF FILE   0.

START OF FEATURE   102.

END OF FEATURE   102.

NO ACTION (7 TRK)   213.

FEATURES (LINE)   102.

FEATURES (TEXT,SYMBOL)   0.

GRID SQUARE INDICATOR   209.

TEXT CLASSIFICATION   0.

CHARACTER CALLS   0.

NO OF ORIENTATIONS   102.

INVISIBLE LINE FLAG   0.

N/A   0.

DISTANCE CALLS   0.

N/A   0.

CONTOUR CALLS   0.

Sheet 202

CL Boundaries
(NE Quadrant)

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND---- MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	------GROUND------ MAXIMUM	MINIMUM
7	50.	2633.	2583.	2152.5	107626.31	41.7	27.479	3.0568	17.590	335.26	2.00
8	14.	774.	760.	924.7	46232.76	60.8	37.979	2.1512	7.712	324.00	2.00
9	38.	983.	945.	822.1	41104.05	43.5	246.783	13.3996	182.884	3928.63	0.0

A TOTAL NUMBER OF   0. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0. GND. METRES

TOTAL INKED IN LINES =   4288.

TOTAL INVISIBLE LINES =   0.

TOTAL LINES GENERATED =   4288.

TOTAL DISTANCE GENERATED BY LINES =   194880.13 METRES AT GROUND SCALE
                                  =   389.760 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   5222.

NUMBER OF POINTS IN THE FILE =   4390.

NUMBER OF IGNORED CODES (0 OR >271)   =   0.

NUMBER OF IGNORED RECORDS (0 OR >271) =   0.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
7	LINE	BOUNDARY – PARISH OR COMMUNITY
8	LINE	BOUNDARY – DISTRICT
9	LINE	BOUNDARY – COUNTY OR REGION

CURRENT STATUS OF THE O.S. DIGITAL DATA STATISTICS AFTER   9 SHEET ANALYSES ON THE   50000. DATA
==

FREQUENCIES

1	START OF SHEET	9.
2	END OF SHEET	9.
3	END OF FILE	0.
4	START OF FEATURE	6747.
5	END OF FEATURE	6747.
6	NO ACTION (7 TRK)	1155.
7	FEATURES (LINE)	5583.
8	FEATURES (TEXT,SYMBOL)	1164.
9	GRID SQUARE INDICATOR	8690.
10	TEXT CLASSIFICATION	212.
11	CHARACTER CALLS	212.
12	NO OF ORIENTATIONS	6747.
13	INVISIBLE LINE FLAG	0.
14	N/A	0.
15	DISTANCE CALLS	0.
16	N/A	0.
17	CONTOUR CALLS	0.

F/CODE	FREQ.	NO. PTS	NO. LINES	TOTAL LINE LENGTH (MM)	GROUND DIST (M)	----GROUND---- MEAN DIST	STANDARD DEVIATION	SKEW	KURTOSIS	------GROUND------ MAXIMUM	MINIMUM
7	233.	14580.	14347.	10150.6	507531.38	35.4	31.851	2.3748	7.578	343.10	0.0
8	34.	1296.	1262.	1688.5	84426.13	66.9	49.953	2.0085	6.078	390.46	2.00
9	233.	6635.	6402.	2511.9	125596.88	19.6	97.253	33.0576	1166.781	3928.63	0.0
28	212.	212.									
59	47.	6221.	6174.	1232.7	61634.44	10.0	7.006	3.6113	34.121	122.47	0.0
62	95.	2629.	2534.	366.2	18308.86	7.2	8.728	13.0275	344.256	272.23	0.0
64	1122.	38109.	36987.	6558.5	327923.63	8.9	6.206	4.0792	57.605	192.08	0.0
66	136.	3105.	2969.	629.8	31489.71	10.6	6.938	1.2798	2.572	53.91	0.0
71	35.	6267.	6232.	897.8	44891.96	7.2	8.053	9.3843	158.955	232.00	0.0
89	7.	57.	50.	46.4	2318.50	46.4	41.570	2.0836	4.973	217.51	2.00
90	327.	3735.	3408.	3259.6	162977.56	47.8	43.375	2.4944	9.574	396.96	0.0
93	232.	2506.	2274.	2356.2	117811.50	51.8	47.363	2.1145	5.866	354.62	1.94
96	238.	2888.	2650.	2307.9	115396.38	43.5	41.025	2.4732	10.166	454.13	0.0
97	1749.	30468.	28719.	21972.4	1098621.00	38.3	34.852	2.3498	8.273	396.19	0.0
112	2.	2.									
118	25.	2328.	2303.	1189.7	59487.25	25.8	34.633	4.5982	31.544	451.20	0.0
119	1.	35.	34.	27.4	1368.17	40.2	62.282	2.0670	3.428	261.74	2.00
129	9.	9.									
140	57.	125.	68.	75.9	3797.35	55.8	27.774	0.0468	-0.227	139.86	4.47
149	6.	6.									
155	5.	5.									
174	5.	5.									
198	65.	7221.	7156.	1284.7	64233.54	9.0	6.755	2.2494	10.542	79.92	0.0
199	70.	1476.	1406.	434.8	21742.13	15.5	11.497	1.8307	5.186	93.34	1.94
200	3.	132.	129.	22.9	1147.30	8.9	5.537	1.3257	3.033	34.93	2.00
201	4.	8.	4.	67.3	3363.67	840.9	542.586	0.5271	-1.858	1609.22	398.90
202	721.	13603.	12882.	2694.1	134704.69	10.5	13.672	42.6333	2606.732	950.02	0.0
203	12.	3390.	3378.	1336.2	66810.75	19.8	15.662	3.7314	35.793	264.74	0.0
204	79.	2472.	2393.	509.2	25459.59	10.6	7.558	2.1905	13.048	103.32	1.94
209	68.	68.									
210	46.	46.									
211	806.	806.									
212	3.	3.									
213	2.	2.									
221	18.	86.	68.	85.1	4255.59	62.6	60.346	1.4981	1.915	286.00	4.00
222	40.	324.	284.	481.6	24082.33	84.8	59.535	1.3810	2.924	357.77	2.00

A TOTAL NUMBER OF   1709. CHARACTERS EXIST

TOTAL DISTANCE OF -15 CODED LINES =   0. GND. METRES

TOTAL INKED IN LINES   =   144113.

TOTAL INVISIBLE LINES =   0.

TOTAL LINES GENERATED =   144113.

TOTAL DISTANCE GENERATED BY LINES =   3106464.00 METRES AT GROUND SCALE
                                  =   6212.922 CMS AT MAP SCALE

NUMBER OF RECORDS IN THE FILE =   196217.

NUMBER OF POINTS IN THE FILE =   150860.

NUMBER OF IGNORED CODES (0 OR >271)   =   0.

NUMBER OF IGNORED RECORDS (0 OR >271) =   0.

FEATURE CODE DESCRIPTION

FEATURE CODE	FEATURE TYPE	DESCRIPTION
7	LINE	BOUNDARY - PARISH OR COMMUNITY
8	LINE	BOUNDARY - DISTRICT
9	LINE	BOUNDARY - COUNTY OR REGION
28	TEXT	NAME / NUMBER, POSITION
59	LINE	BANK OF DOUBLE RIVER / STREAM
62	LINE	BANK OF LAKE / POND
64	LINE	SINGLE STREAM
66	LINE	CENTRE LINE OF DOUBLE WATER FEATURE
71	LINE	MEAN HIGH WATER (MHWS)
89	LINE	CL TRUNK/MAIN DUAL CARRIAGEWAY
90	LINE	CL TRUNK/MAIN SINGLE CARRIAGEWAY
93	LINE	CL SECONDARY SINGLE CARRIAGEWAY
96	LINE	CL MINOR SINGLE CARRIAGEWAY MORE 4 M
97	LINE	CL MINOR SINGLE CARRIAGEWAY LESS 4 M
112	POINT	LEADER ARROW 1/50000
118	LINE	NATIONAL TRUST BOUNDARY (ALWAYS OPEN)
119	LINE	NATIONAL TRUST BOUNDARY (OPENING RESTRICTED)
129	POINT	OTHER RAILWAY STATION (IN USE)
140	LINE	ROAD UNDER BRIDGE
149	POINT	BUS OR COACH STATION
155	POINT	STANDARD ROUNDABOUT
174	POINT	YOUTH HOSTEL
198	LINE	BANK OF TIDAL ESTUARY
199	LINE	CL TIDAL ESTUARY
200	LINE	TIDAL PART OF SINGLE STREAM
201	LINE	HWM - ESTUARY MOUTH
202	LINE	SWAMP / UNDERGROUND WATER ALIGNMENT
203	LINE	DRAINAGE AREA BOUNDARY
204	LINE	CL CANAL (WET)
209	POINT	ISOLATED WATER FEATURE
210	POINT	MOUTH OF WATER FEATURE
211	POINT	SOURCE OF WATER FEATURE
212	POINT	START OF DRAINAGE AREA
213	POINT	END OF DRAINAGE AREA
221	LINE	CL TRUNK ROAD (SINGLE CARRIAGEWAY)
222	LINE	CL TRUNK ROAD (DUAL CARRIAGEWAY)

A TOTAL OF   9 MAP SHEETS HAVE BEEN PROCESSED

END OF STATUS RUN --- (07-20-79)

```
  AAAAAAAAA      NN        NN  NN        NN  EEEEEEEEEEEE  XX        XX      777777777777
AAAAAAAAAAAA     NNN       NN  NNN       NN  EEEEEEEEEEEE  XX        XX      777777777777
AA        AA     NNNN      NN  NNNN      NN  EE              XX    XX        77        77
AA        AA     NN NN     NN  NN NN     NN  EE               XX  XX                  77
AA        AA     NN  NN    NN  NN  NN    NN  EE                XXXX                  77
AAAAAAAAAAAA     NN   NN   NN  NN   NN   NN  EEEEEEEE           XXXX                77
AAAAAAAAAAAA     NN    NN  NN  NN    NN  NN  EEEEEEEE          XX  XX              77
AA        AA     NN     NN NN  NN     NN NN  EE              XX      XX           77
AA        AA     NN      NNNN  NN      NNNN  EE            XX          XX        77
AA        AA     NN       NNN  NN       NNN  EE           XX          XX        77
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82

83
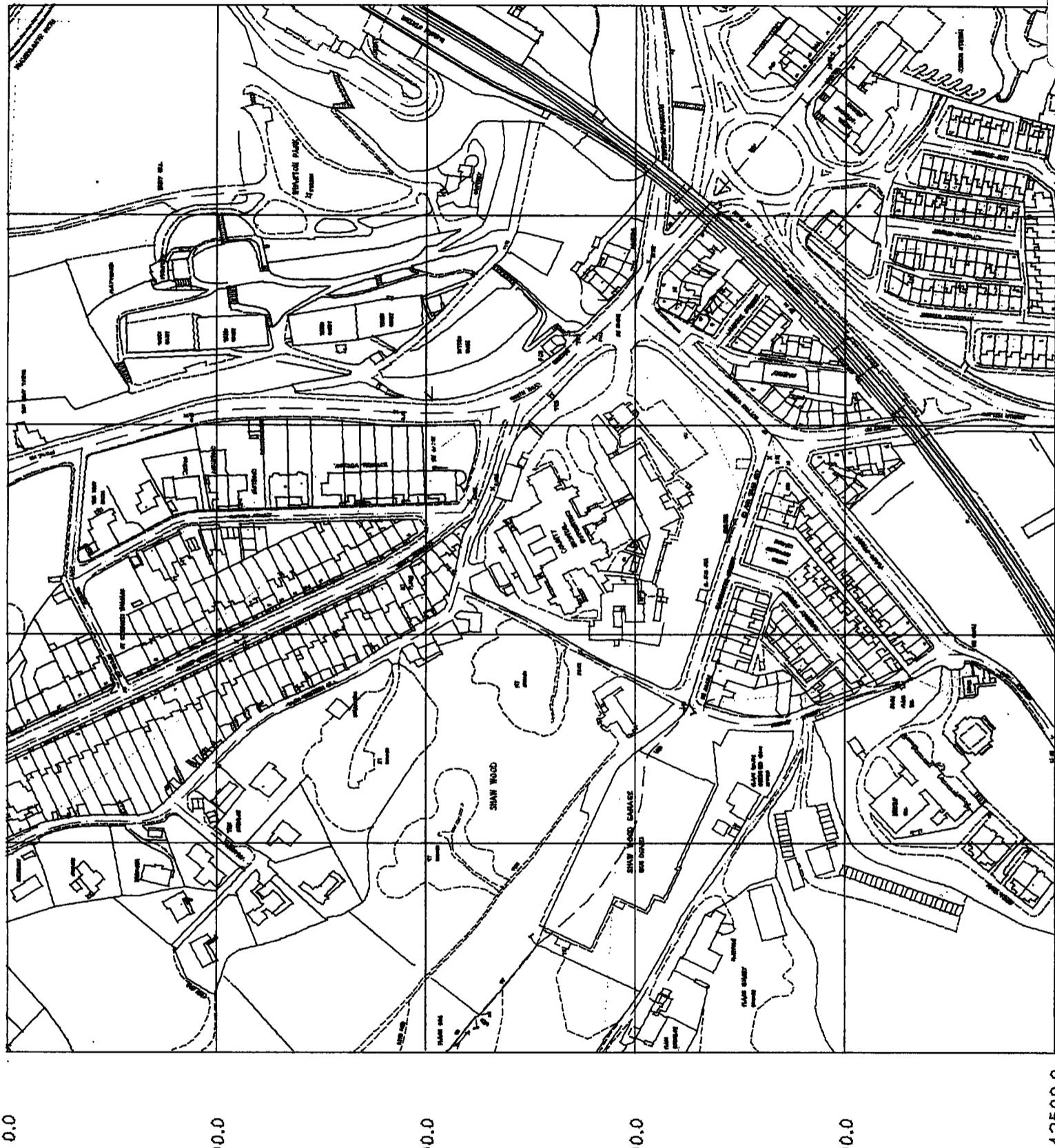
900.0

800.0

700.0

600.0

426500.0

542500.0

600.0

700.0

800.0

900.0

0.0

Feature Code 1

Building - Public

900.0

800.0

700.0

600.0

426500.0

0.0

900.0

800.0

700.0

600.0

542500.0

Feature Code 2

Building - Minor

900.0

800.0

700.0

600.0

426500.0

0.0

900.0

800.0

700.0

600.0

5425000.0

Feature Code 3

Building - Other

900.0

800.0

700.0

600.0

426500.0

0.0
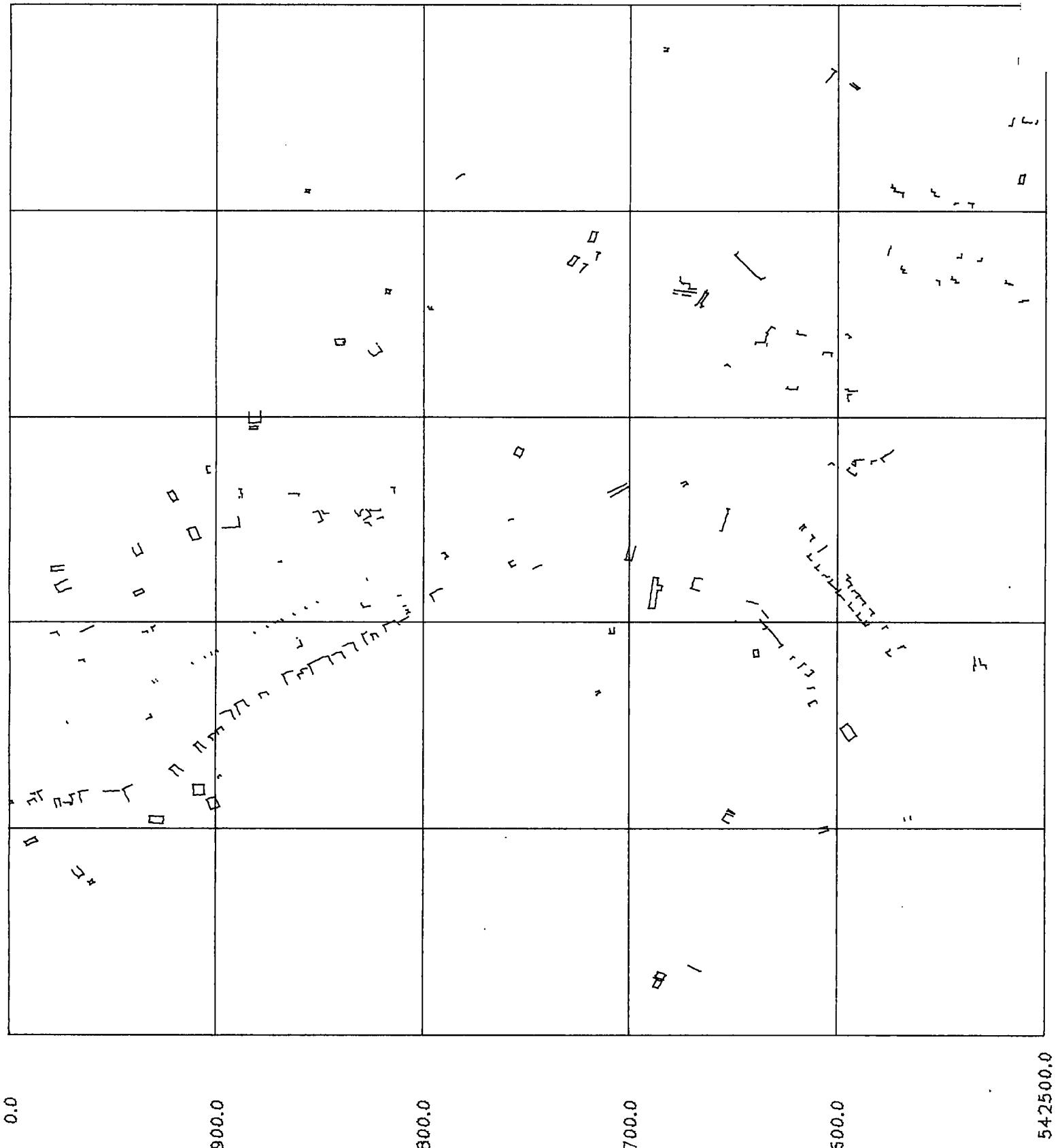
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800.0
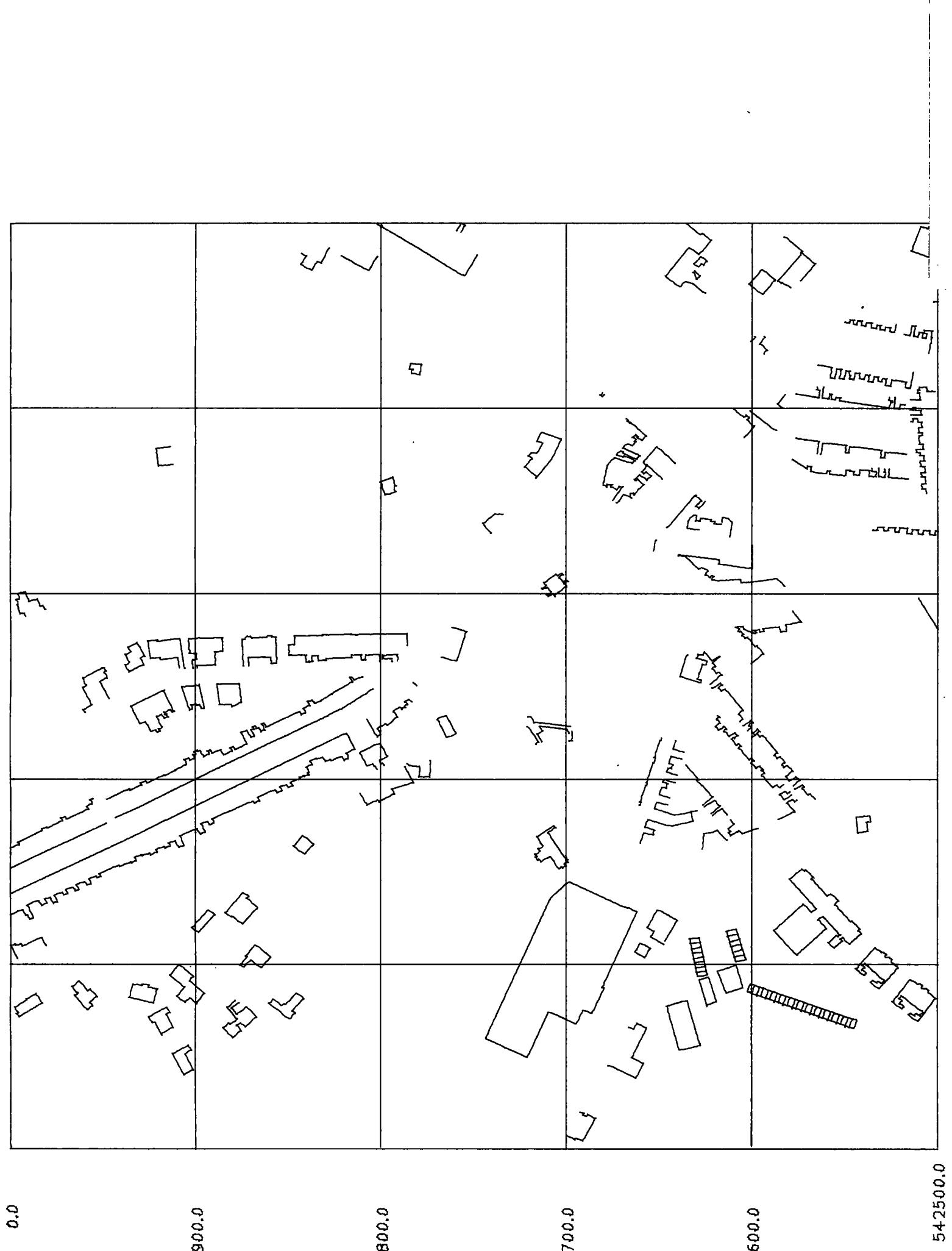
700.0

600.0

542500.0

Feature Code 4

Building — Open sided

900.0

800.0

700.0

600.0

426500.0

0.0

900.0

800.0
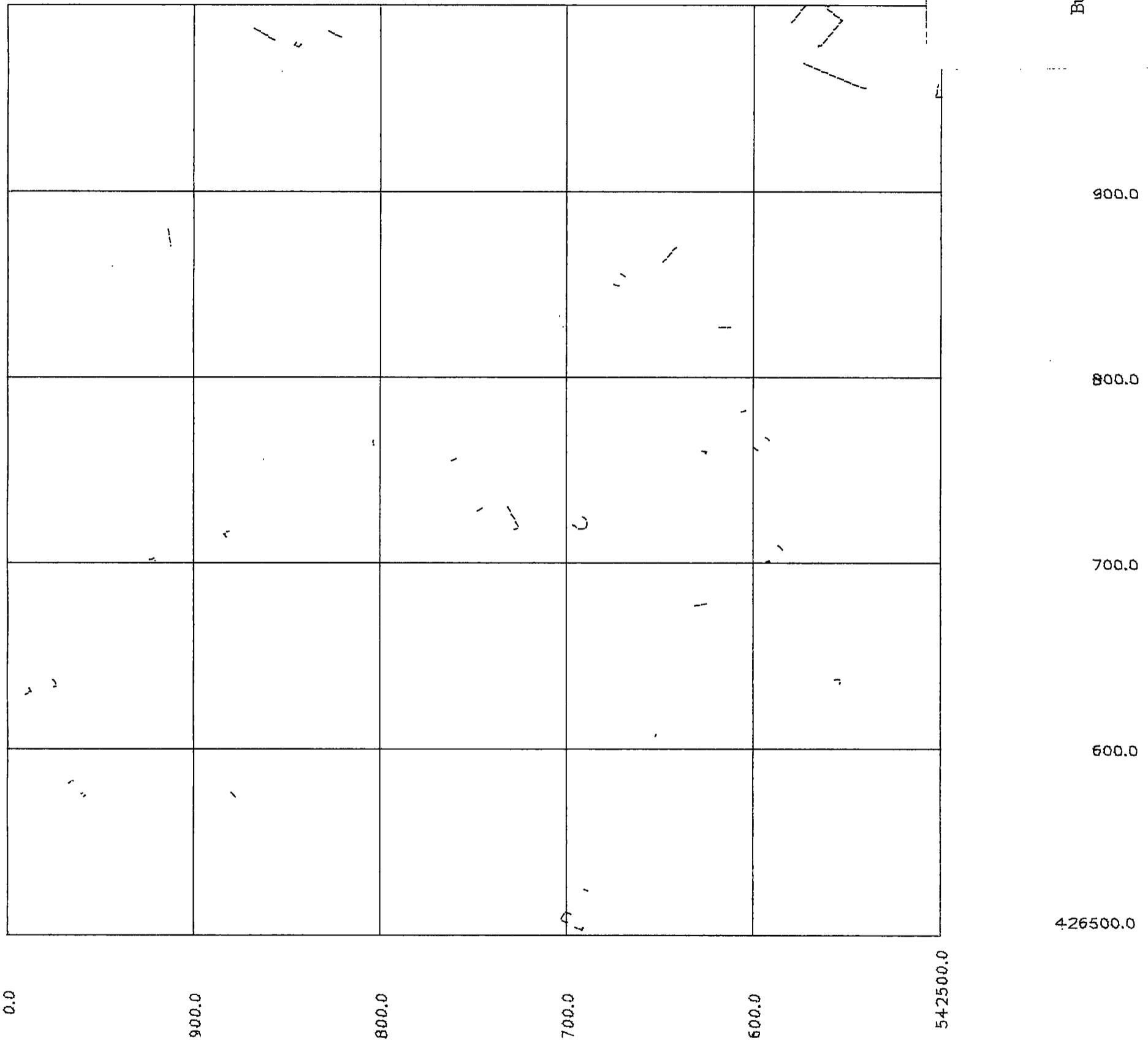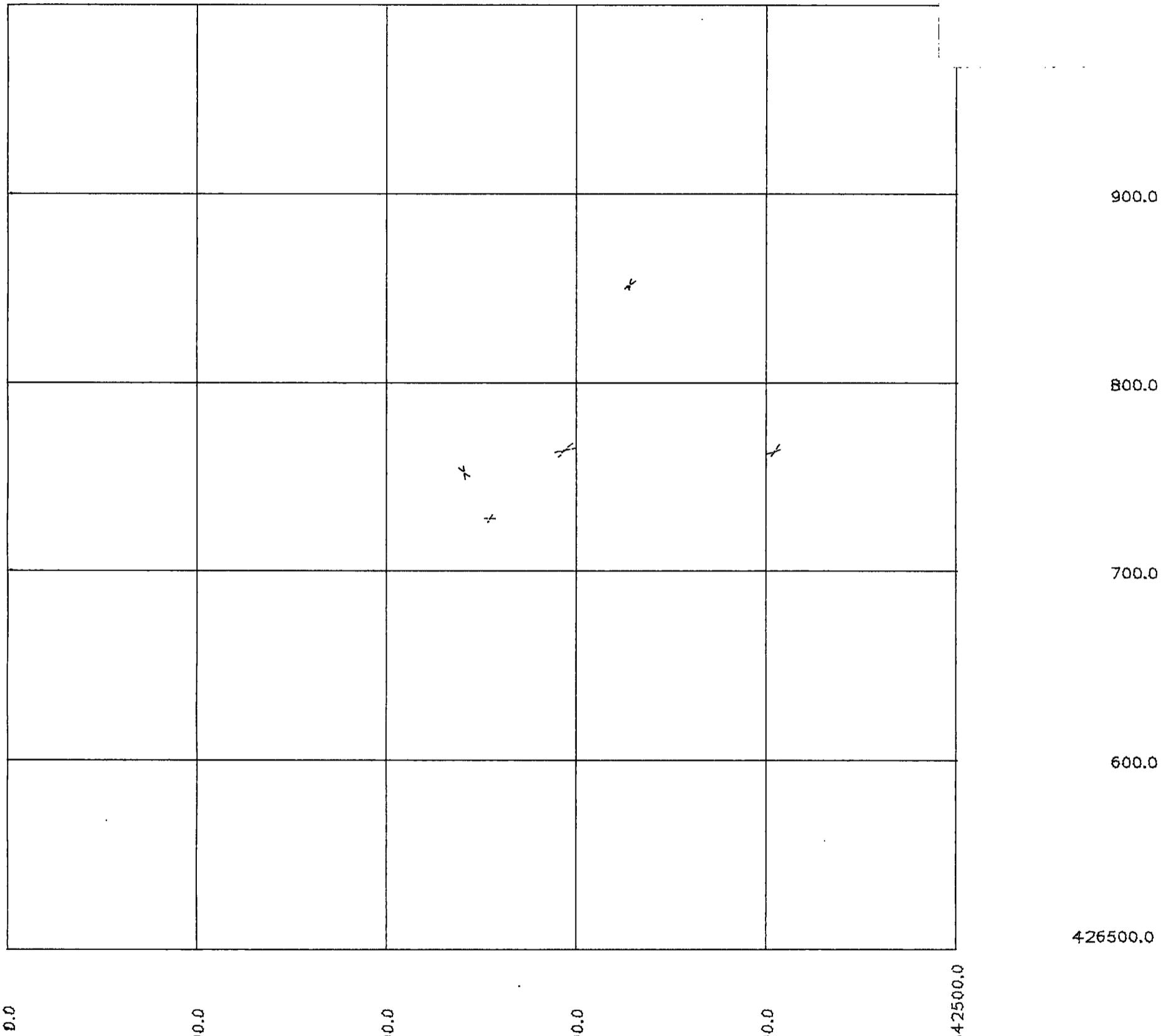
700.0

600.0

542500.0

Feature Code 6

Archway Symbol

900.0

800.0

700.0

600.0

426500.0

900.0

800.0

700.0

600.0

0.0

542500.0

Feature Code 12

Boundary
(mereing symbol full)

900.0

800.0

700.0

600.0

426500.0

0.0

900.0

800.0

700.0

600.0

542500.0

Feature Code 13

Boundary
(Mereing Symbol Half)
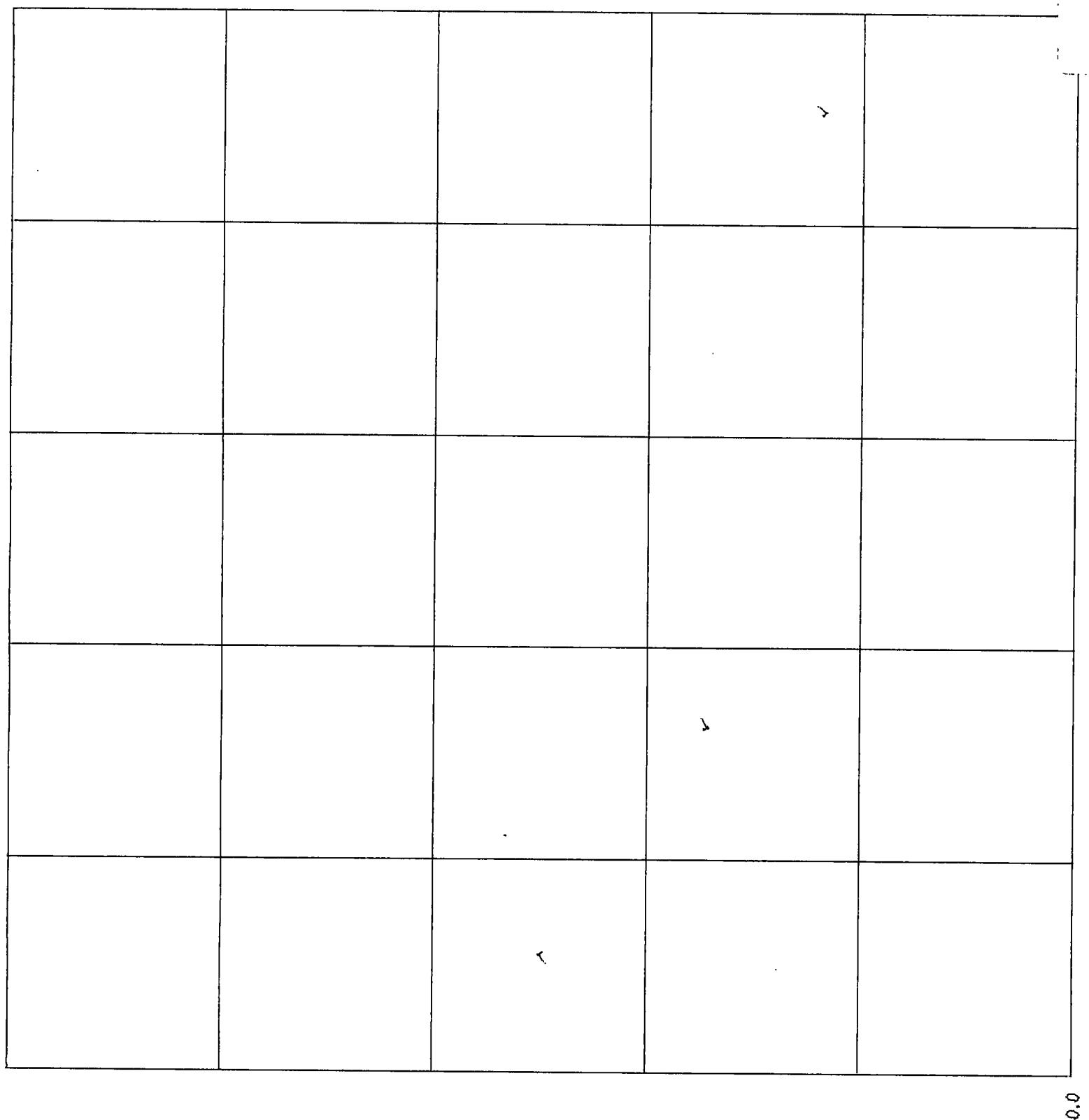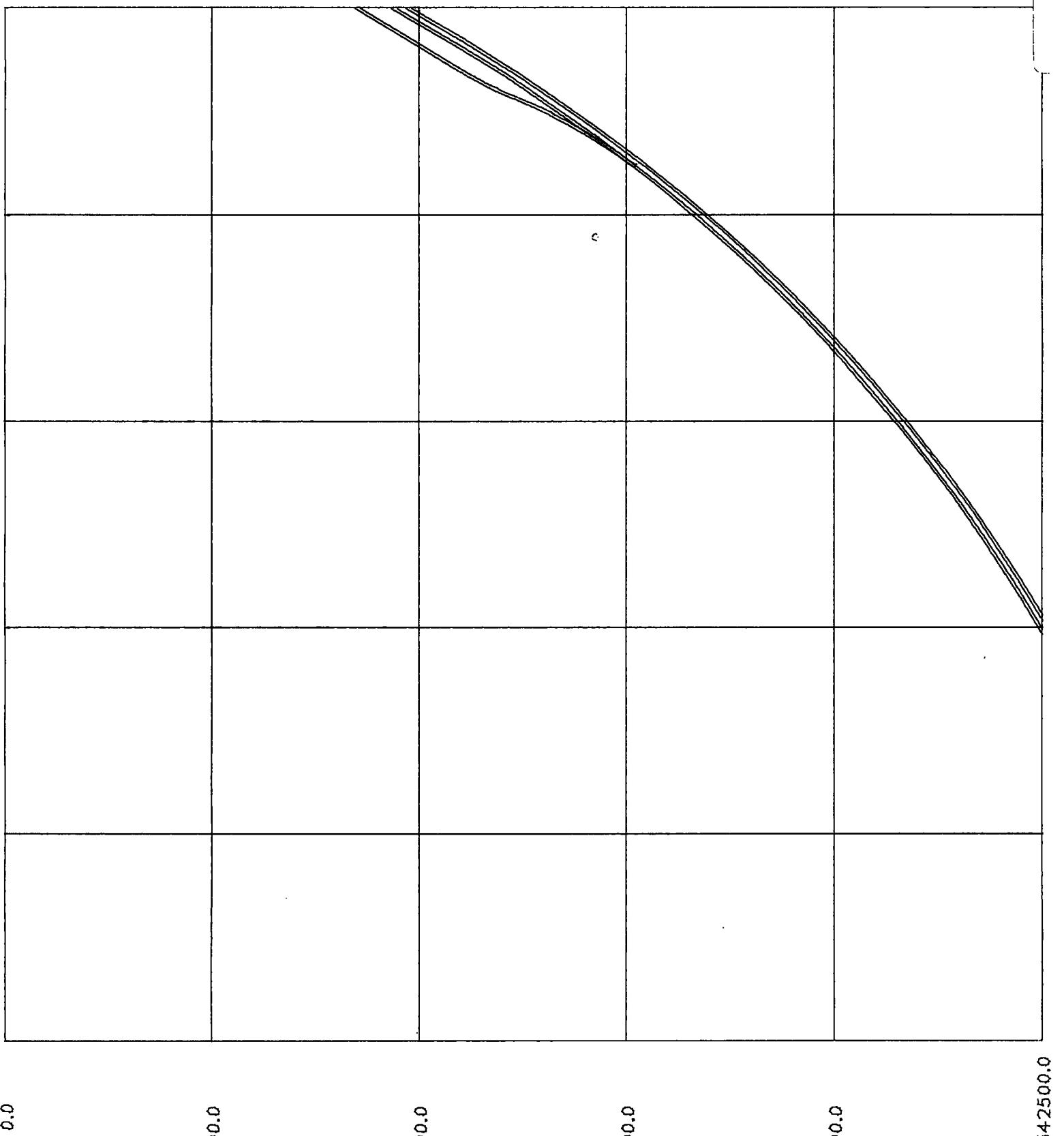
Feature Code 15

Railway — Standard guage

Feature Code 17

Boundary - General

900.0

800.0

700.0

600.0

426500.0

5425000.0

0.0
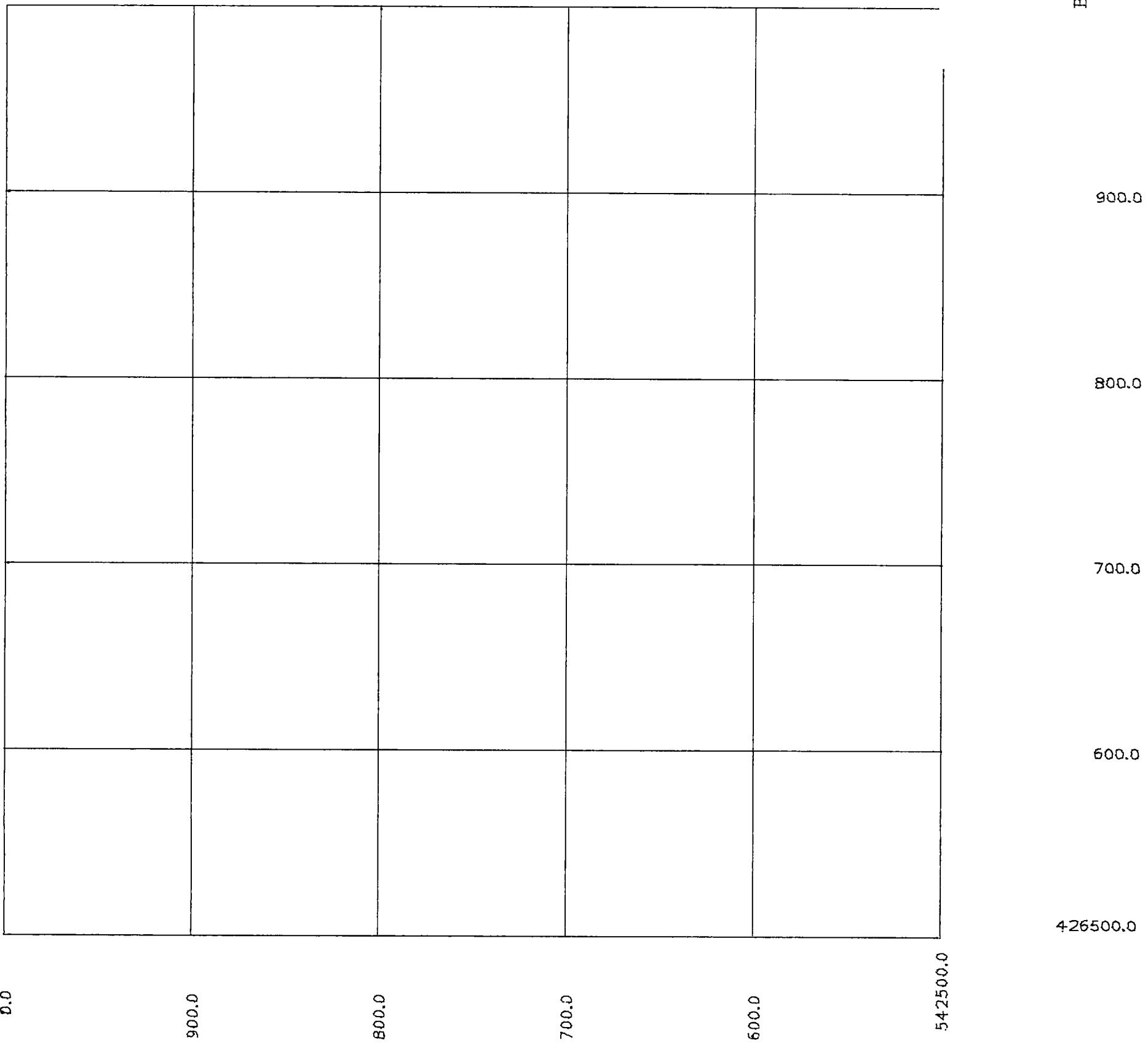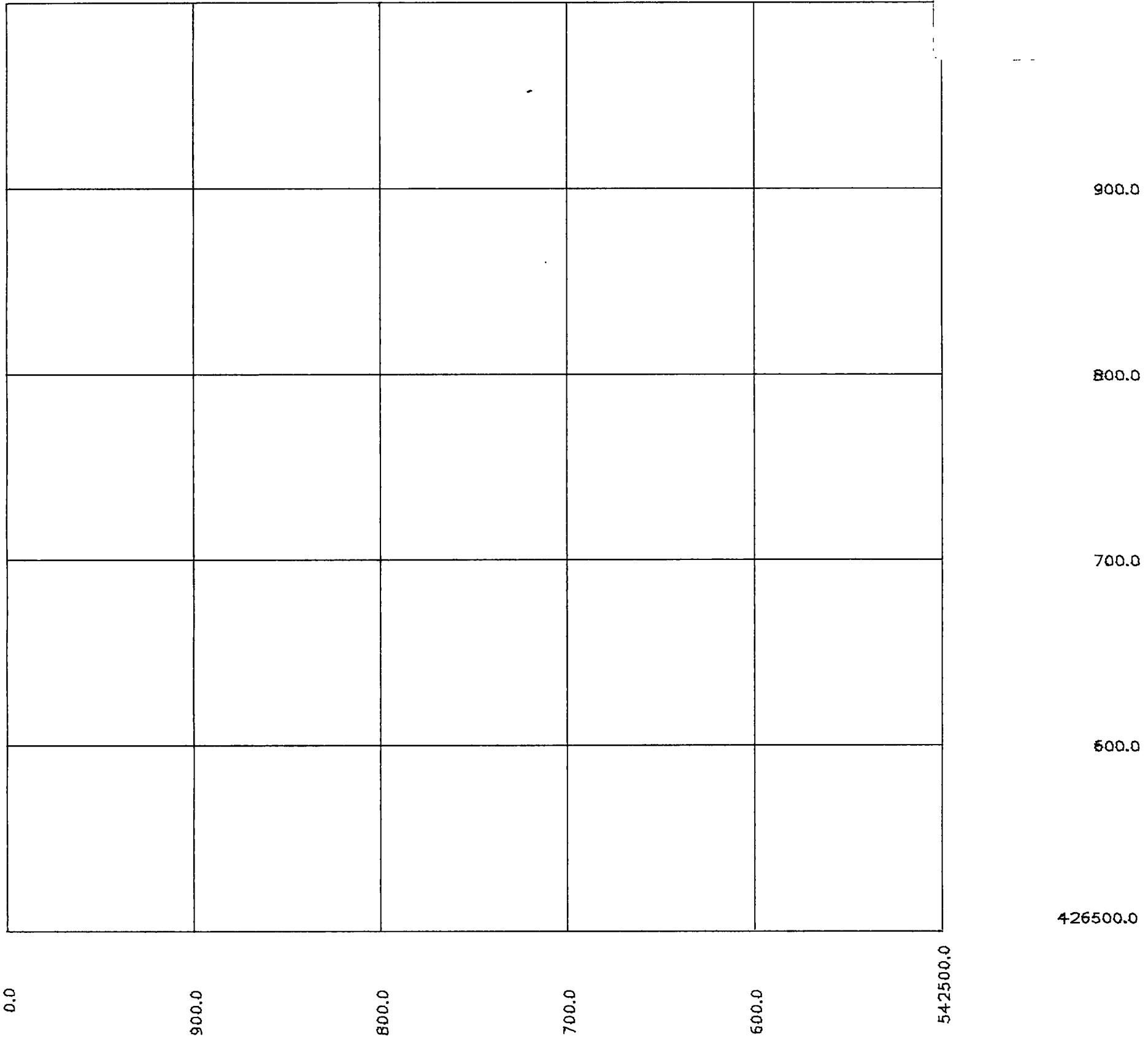
900.0

800.0

700.0

600.0

Feature Code 20

Railway – Switch

900.0

800.0

700.0

600.0

426500.0

0.0

900.0

800.0
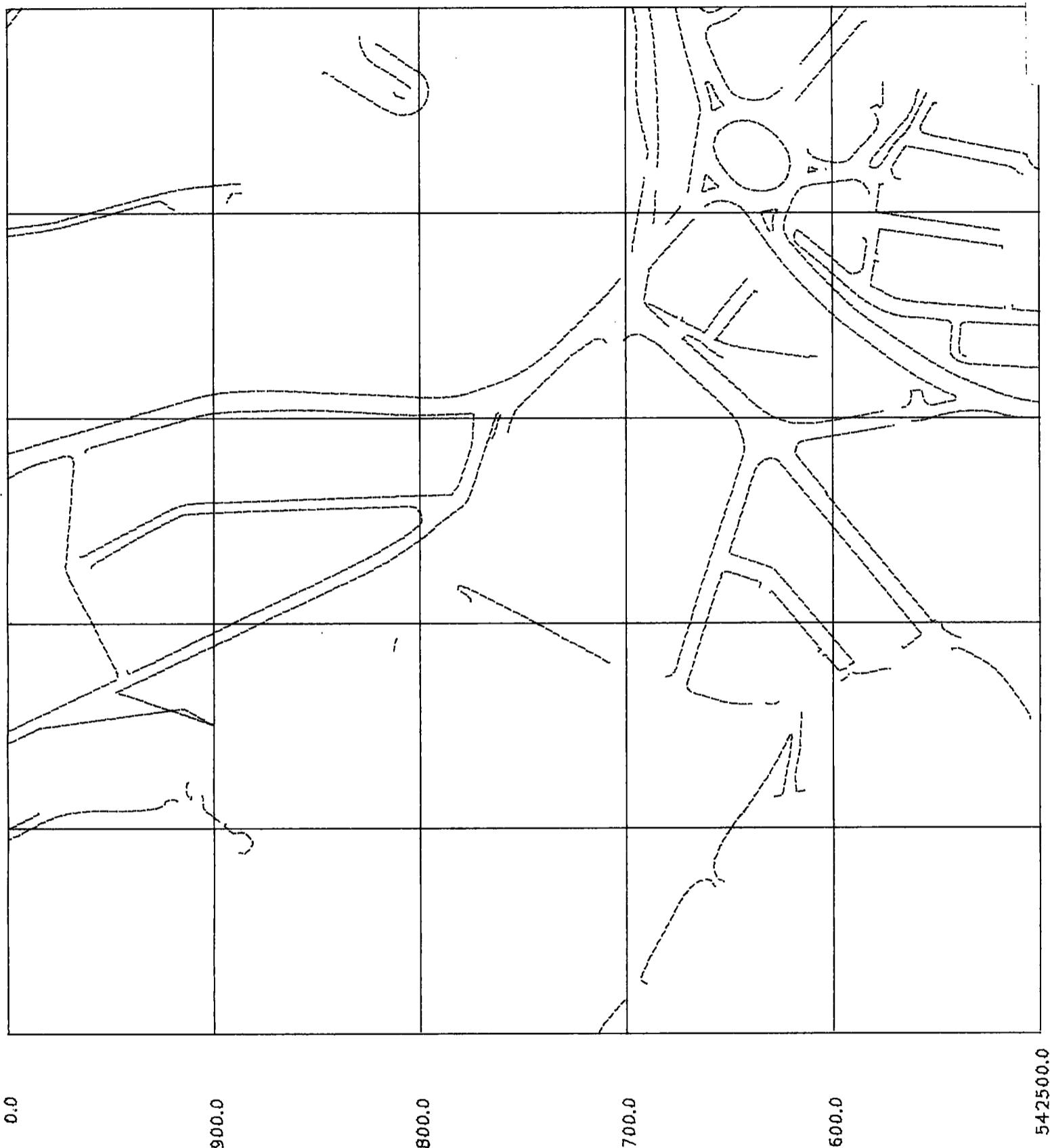
700.0

600.0

5425000.0

Feature Code 21

Road pecks (carriageway)

900.0

800.0

700.0

600.0

426500.0

0.0

900.0

800.0

700.0

600.0

542500.0

Feature Code. 22

Road — Centre line

Feature Code 23

Path (um)

900.0

800.0

700.0

600.0

426500.0

0.0
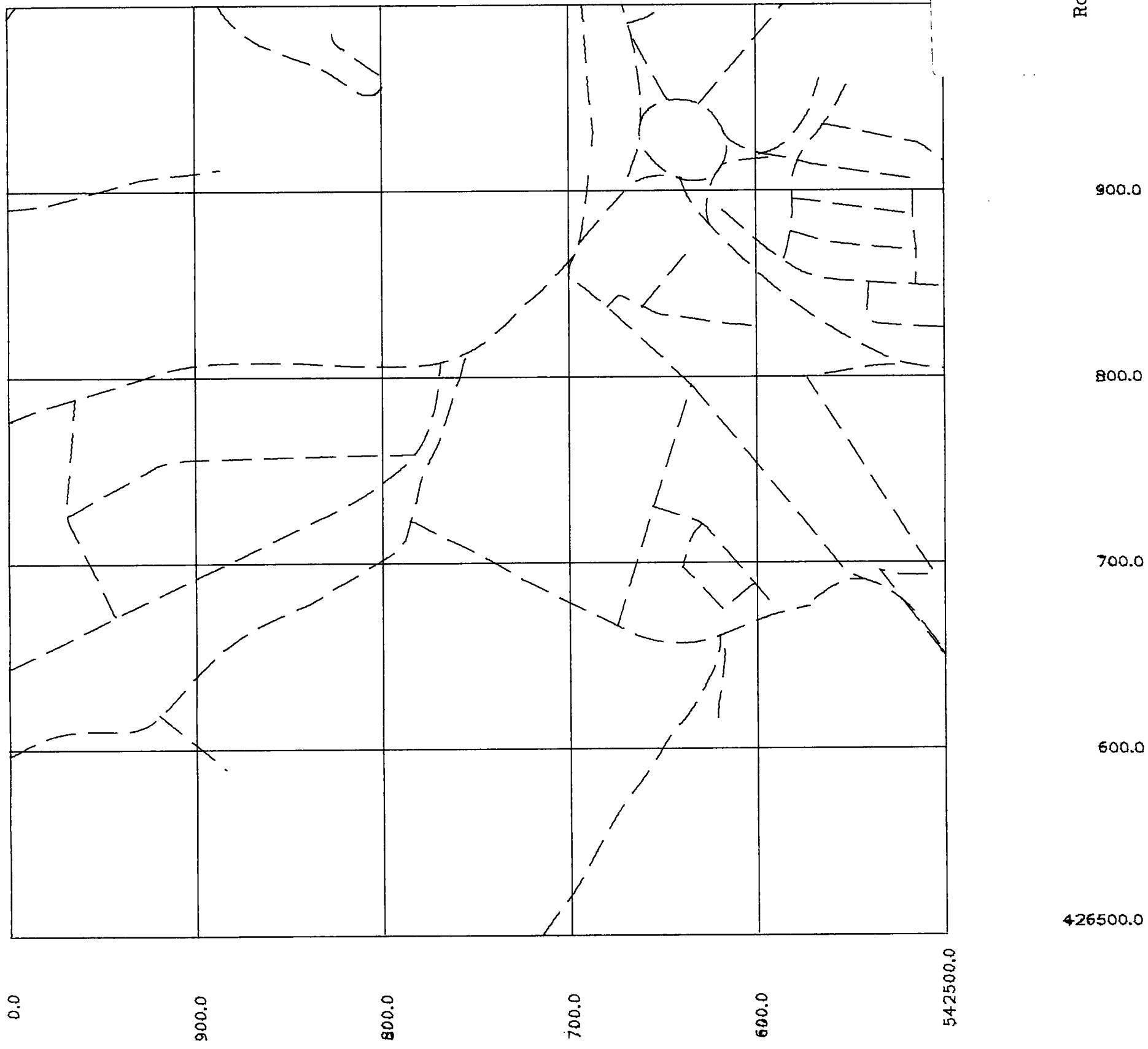
900.0

800.0
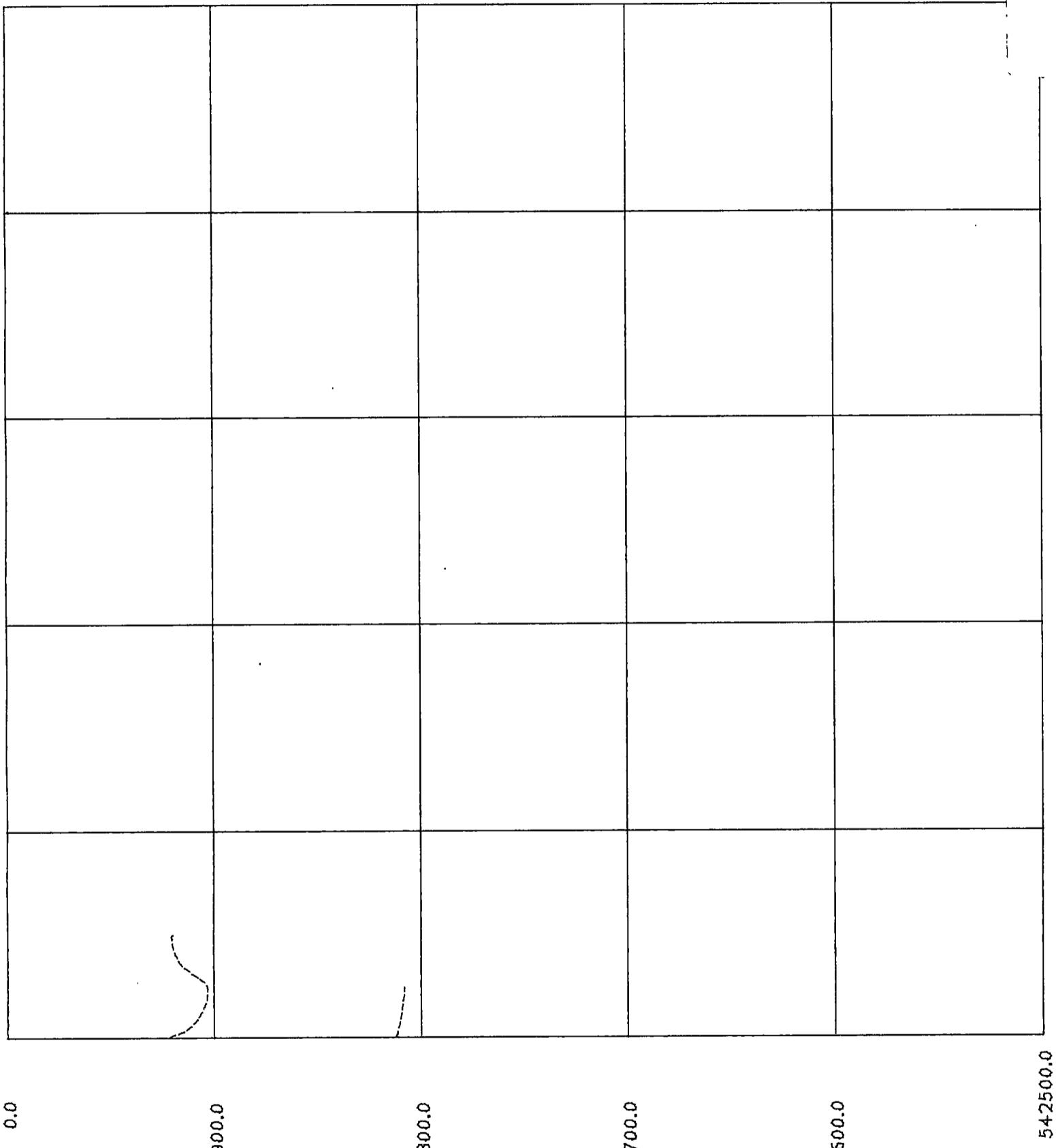
700.0

600.0

542500.0

Feature Code 24

Minor Control Points

900.0

800.0

700.0

600.0

426500.0

0.0

900.0

800.0
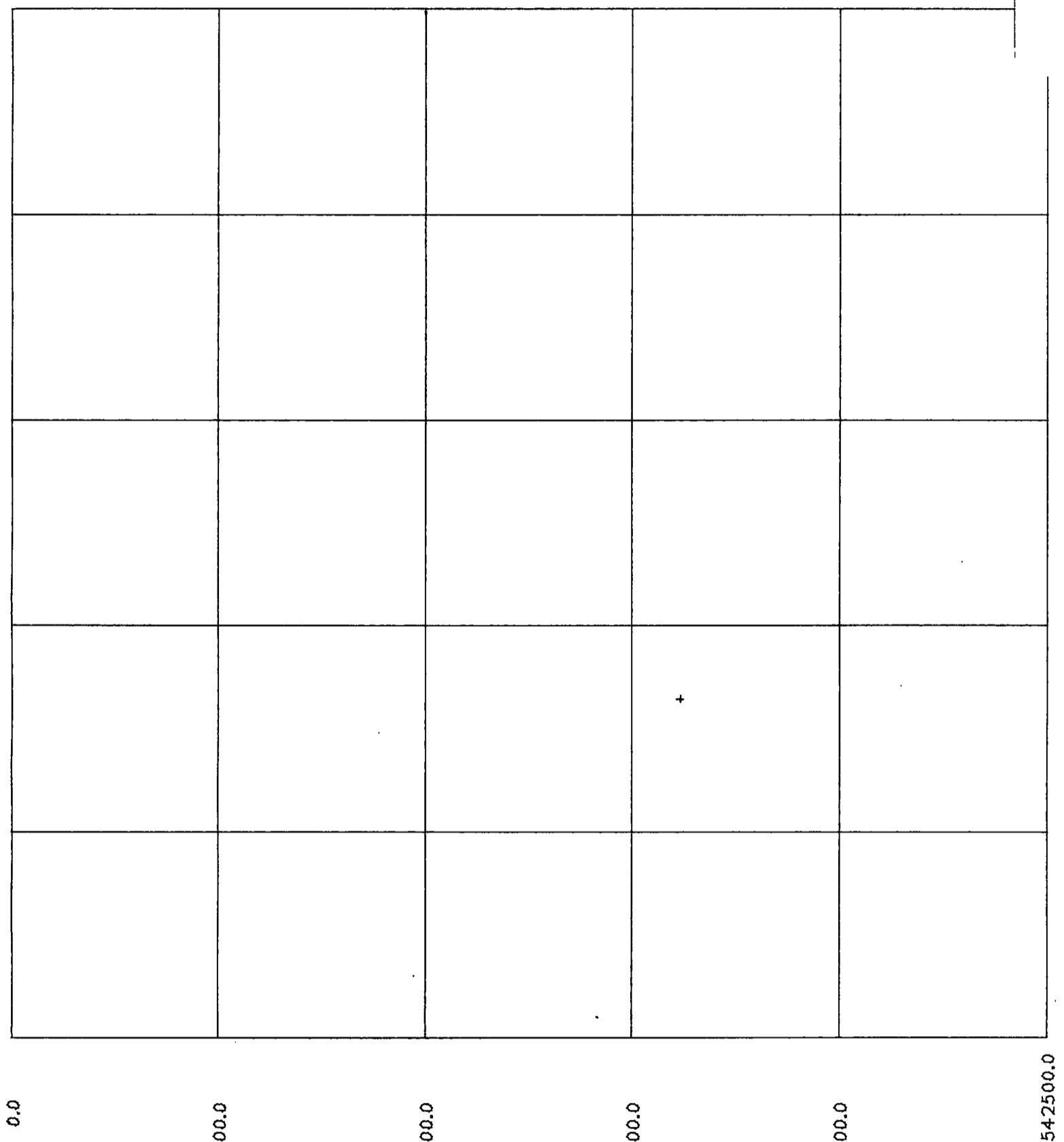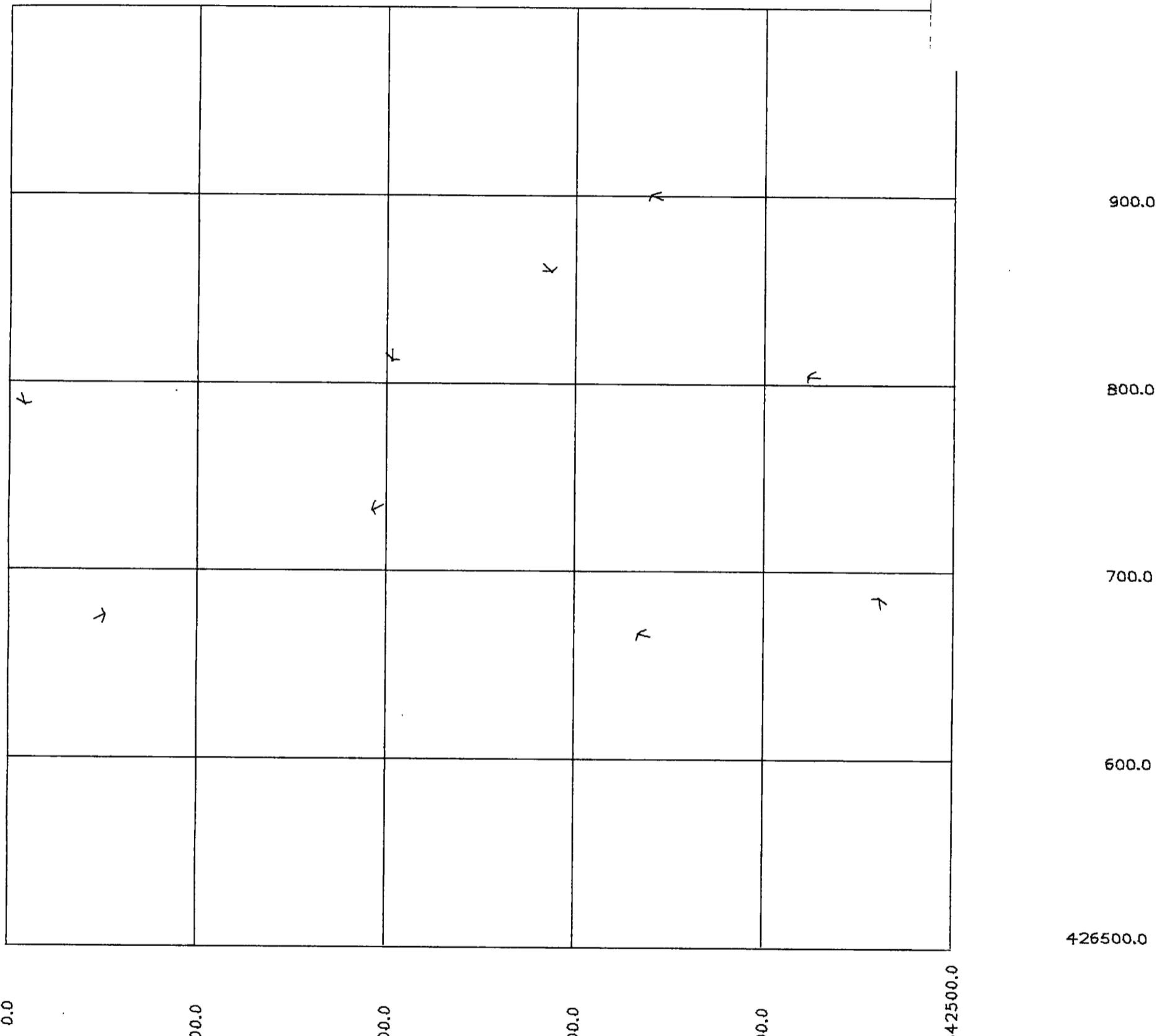
700.0

600.0

542500.0

Feature Code 26

Bench Mark

900.0

800.0

700.0

600.0

426500.0

0.0   900.0   800.0   700.0   600.0   542500.0

Feature Code 27

Surface Level

Feature Code 28

Name/number, Position

Feature Code 29

Road fence, wall etc
(casing definitive)

900.0

800.0

700.0

600.0

426500.0

0.0
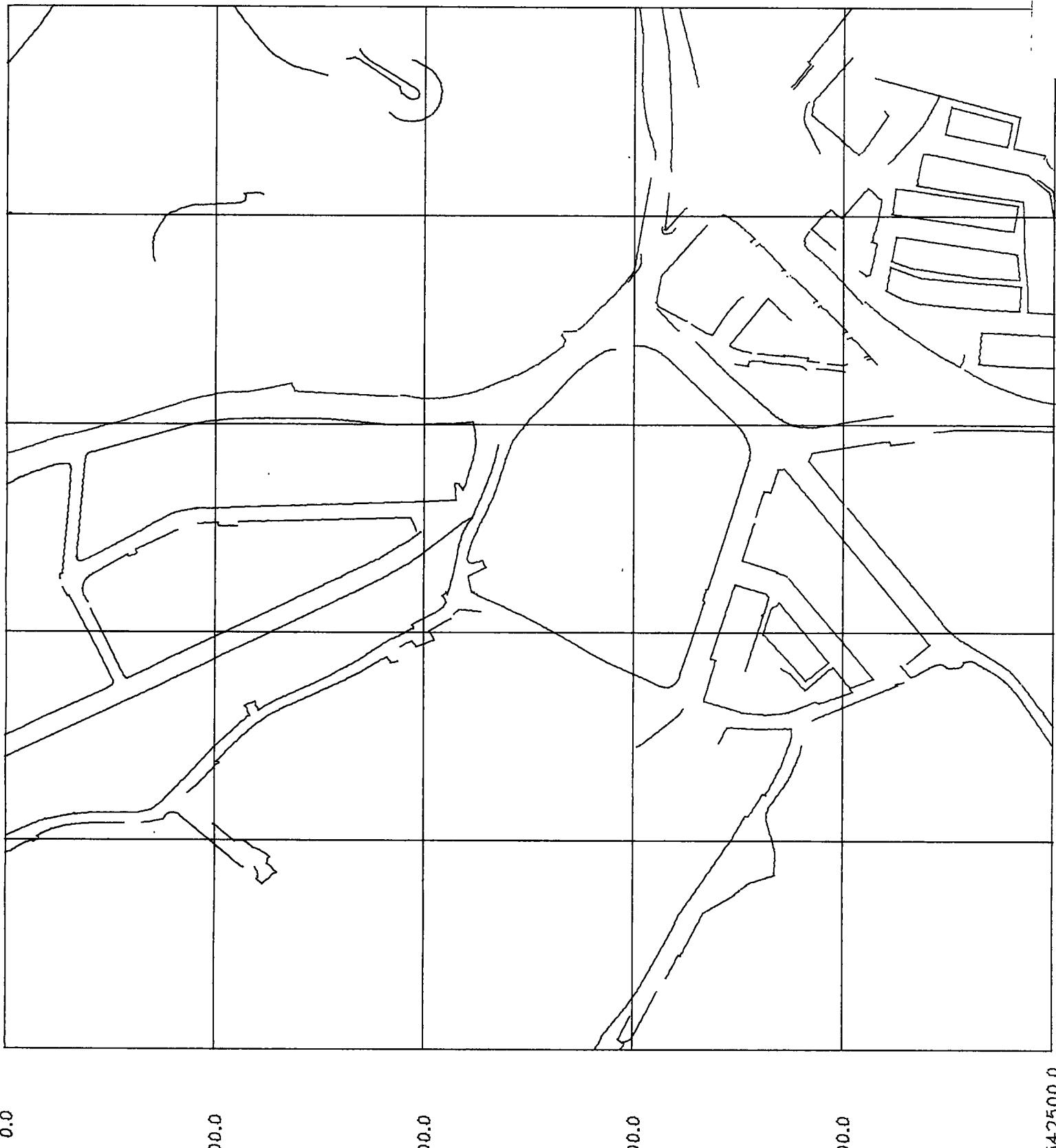
900.0

800.0

700.0

600.0

542500.0
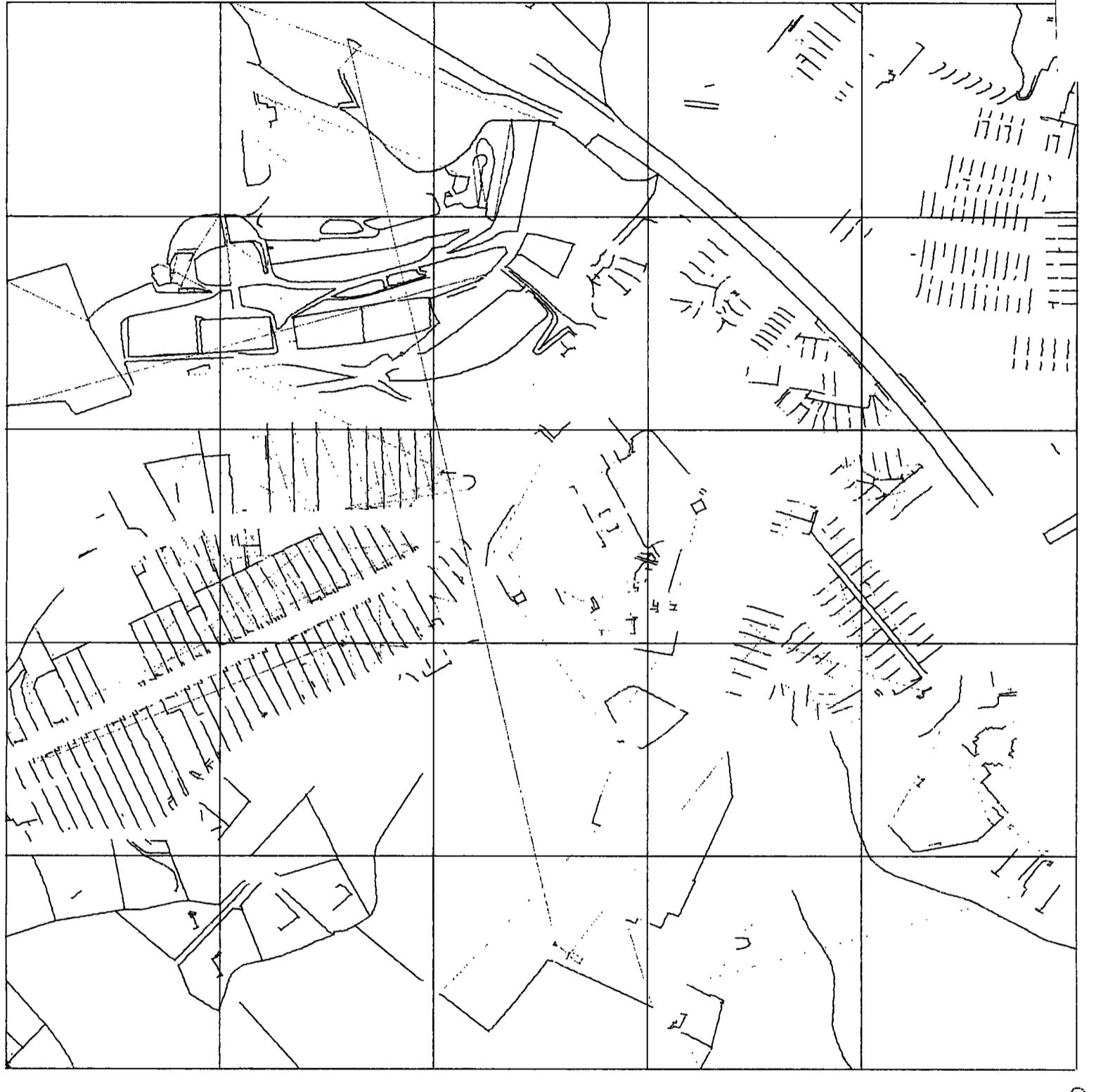
Feature Code 30

Fence, Wall etc - Non Road
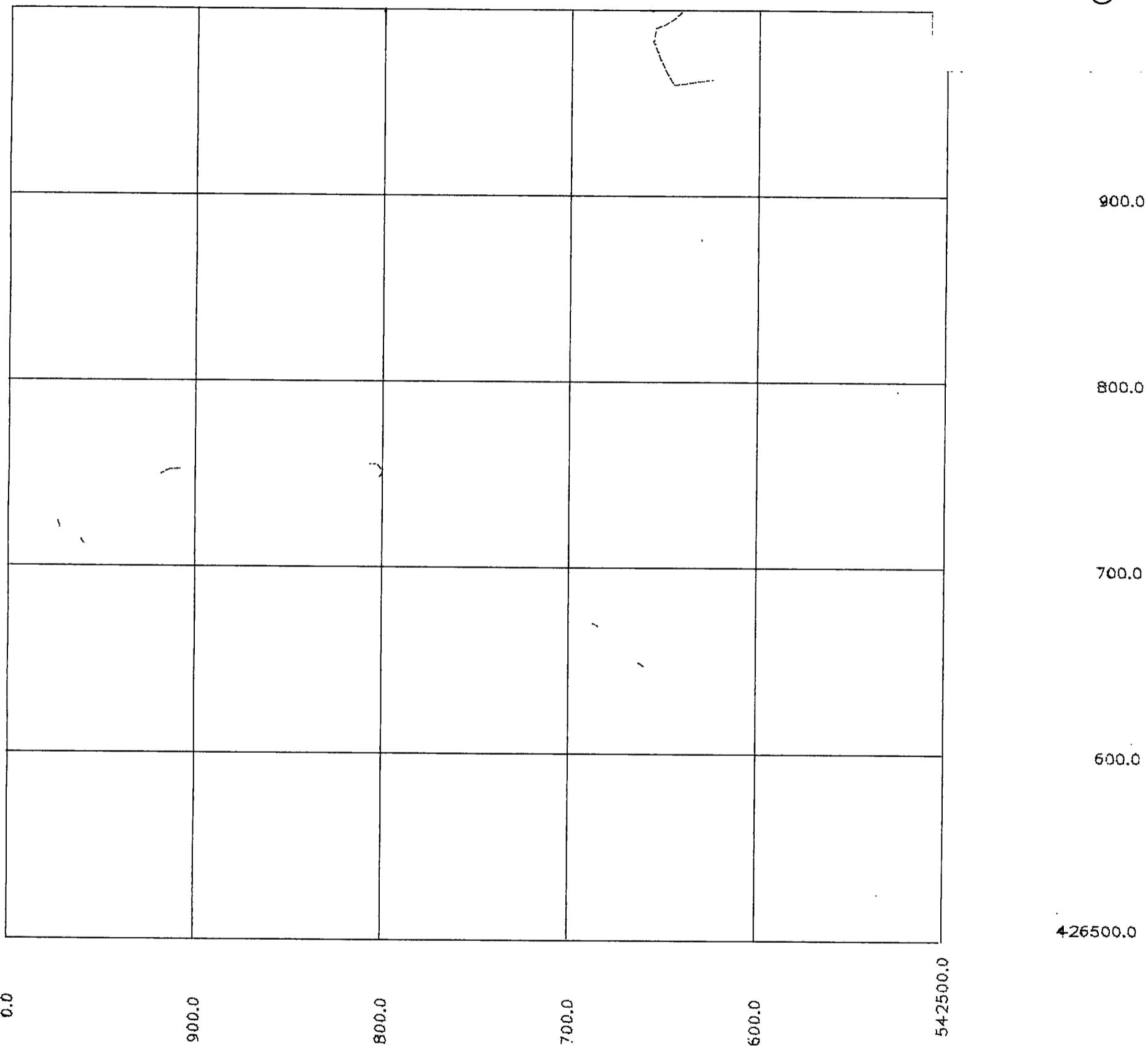
Feature Code 31

Road pecks
(casing definitive)

900.0

800.0

700.0

600.0

426500.0

0.0

900.0

800.0

700.0

600.0

5425C0.0
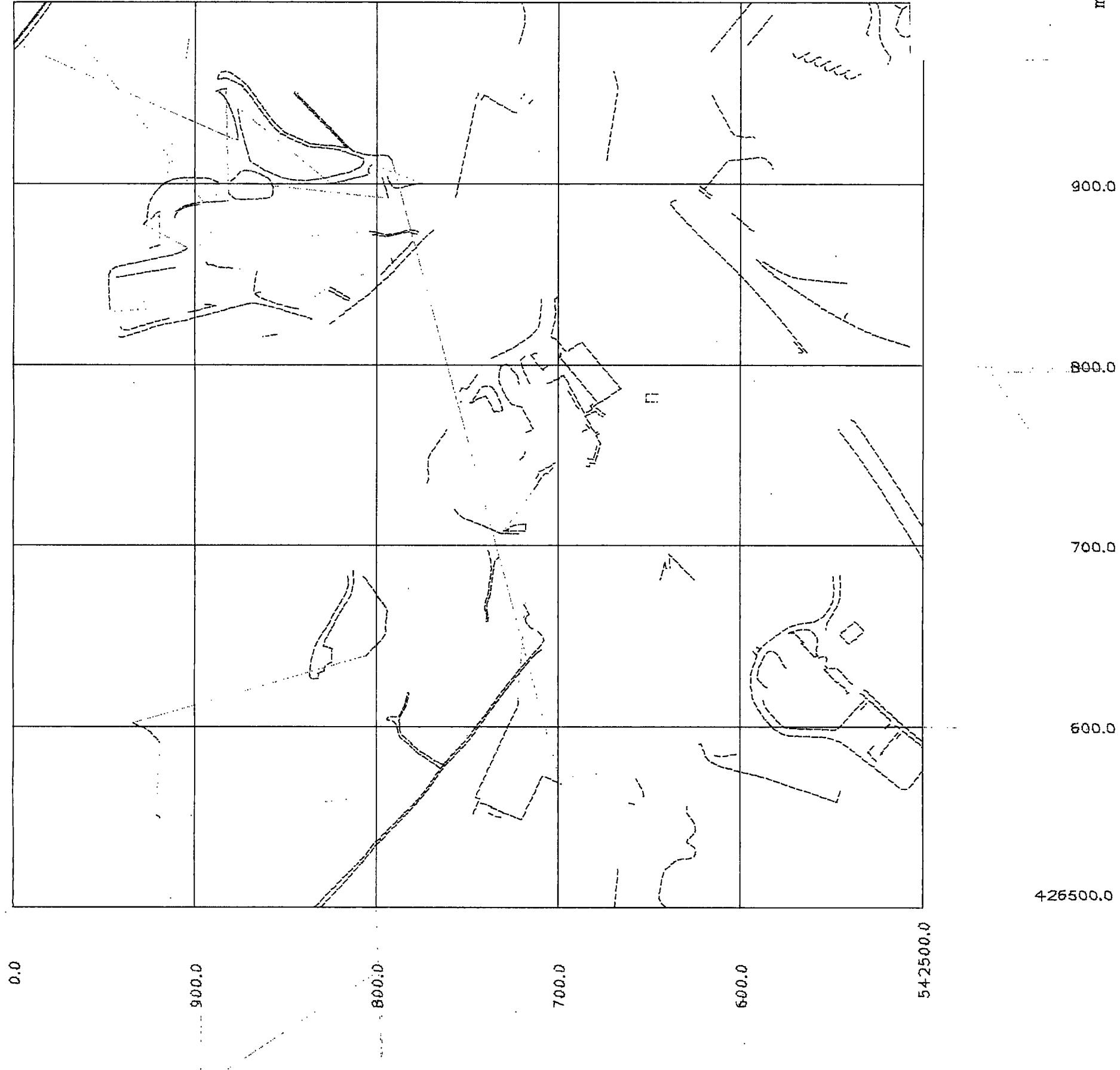
Feature Code 32

Surveyed Pecks
banks, baulk,
made paths, driveways,
etc

900.0

800.0

700.0

600.0

426500.0

0.0

900.0

800.0
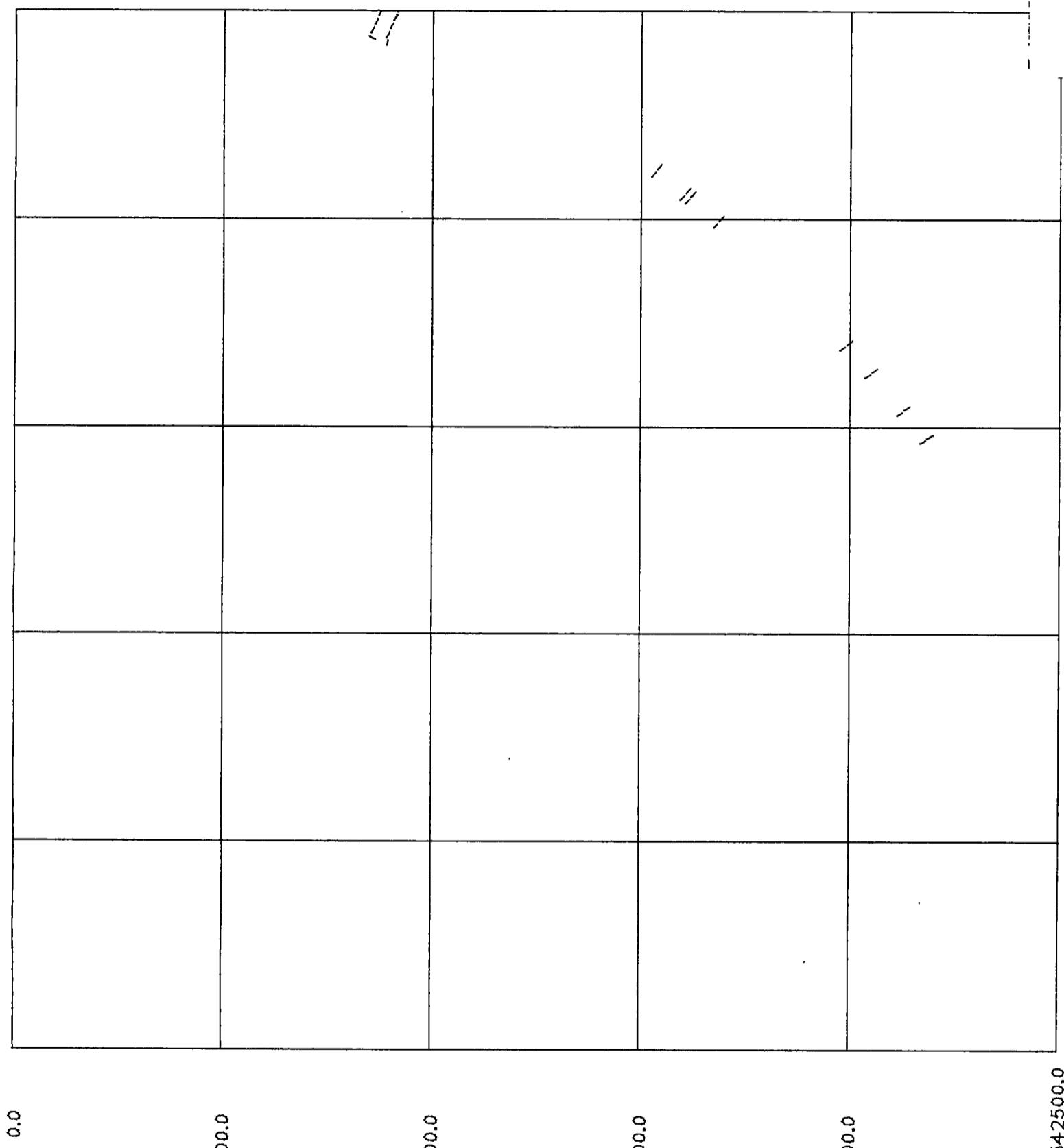
700.0

600.0

542500.0

Feature Code 34

Subway/Underpass alignment

900.0

800.0

700.0

600.0

426500.0

0.0

900.0

800.0
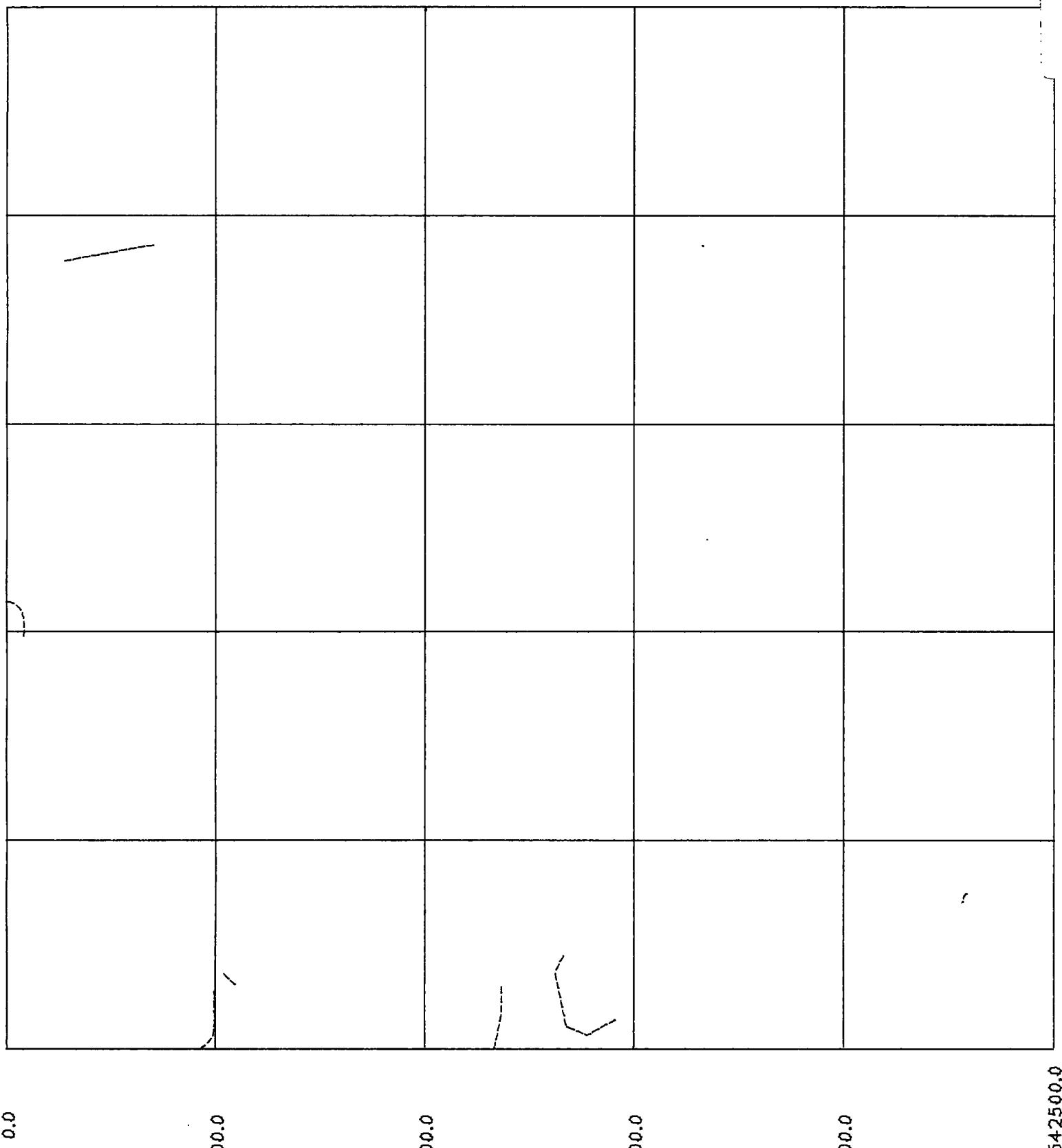
700.0

600.0

542500.0

Feature Code 35

Vegetation limits
(sketched pecks)

900.0

800.0

700.0

600.0

426500.0

0.0

900.0

800.0

700.0

600.0

5425000.0

Feature Code 37

Telephone Call Box — GPO

900.0

800.0

700.0

600.0

4·26500.0

0.0

900.0

800.0
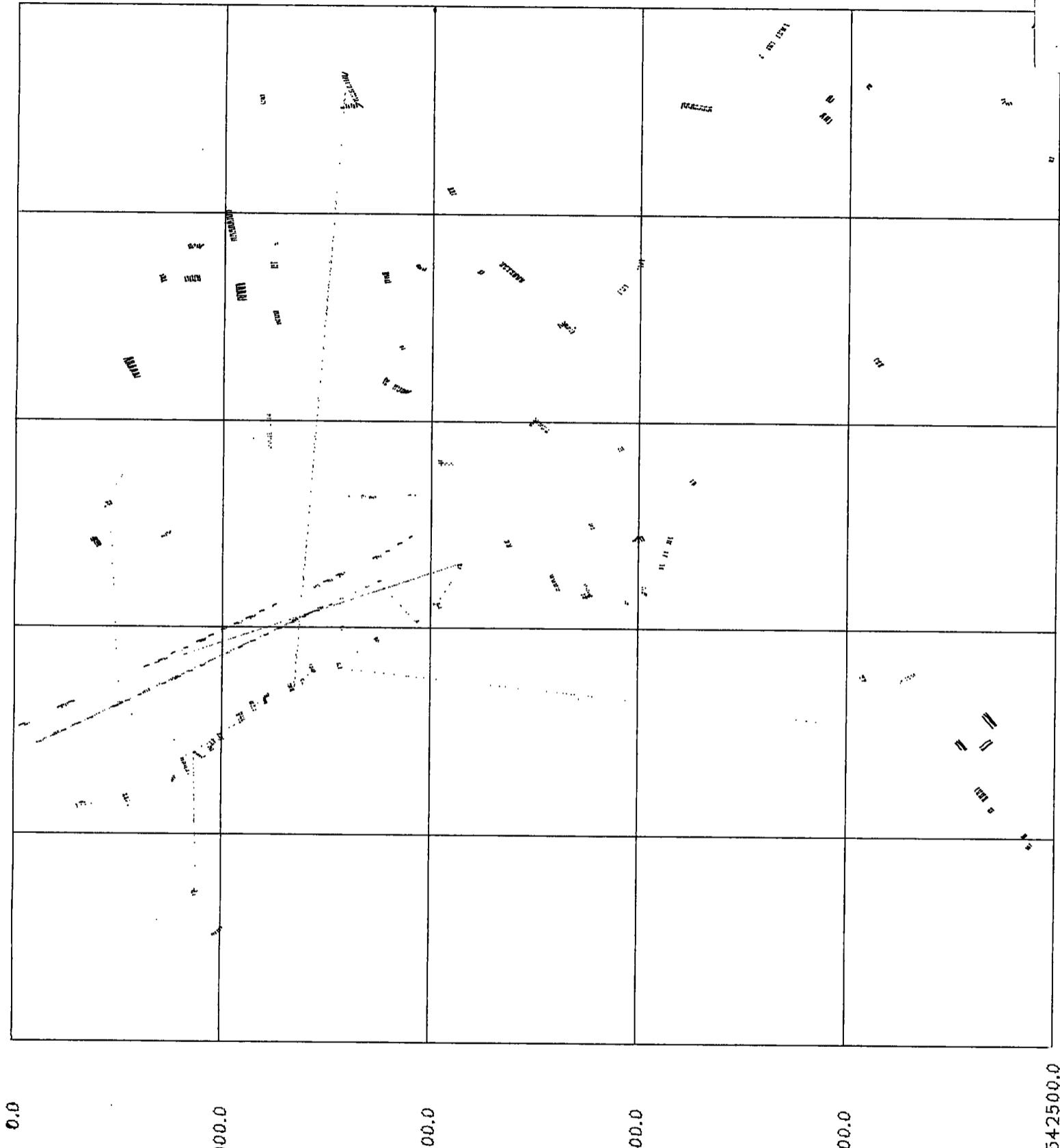
700.0

600.0

5·42500.0

Feature Code 52

Step treads

900.0

800.0

700.0

600.0

426500.0

542500.0

0.0

900.0

800.0

700.0

600.0

Feature Code 57

Point Features — Dot

542500.0

0.0   900.0   800.0   700.0   600.0

426500.0   600.0   700.0   800.0   900.0

Feature Code 64

Single Stream

900.0

800.0

700.0

600.0

426500.0

0.0

900.0

800.0

700.0

600.0

542500.0
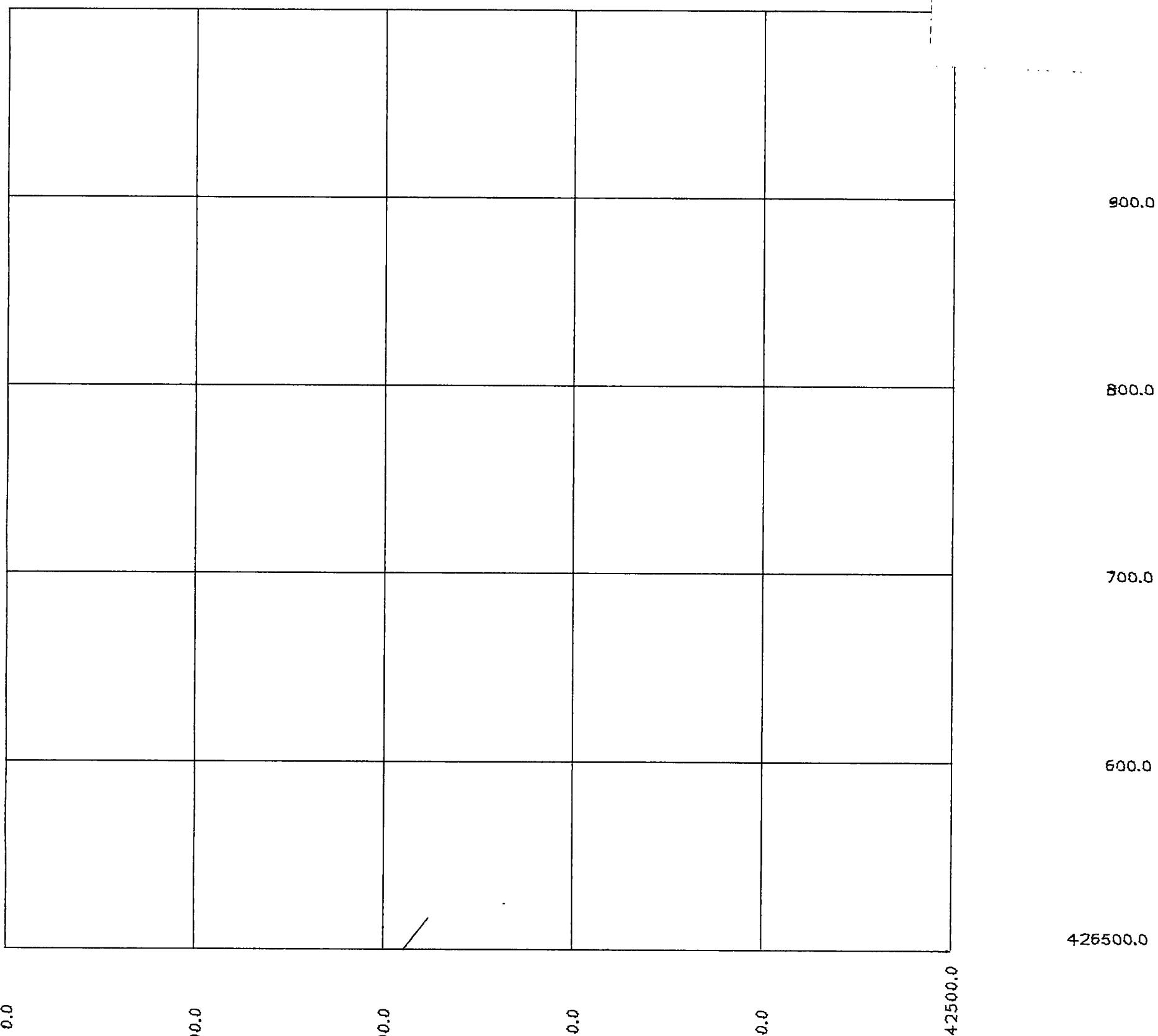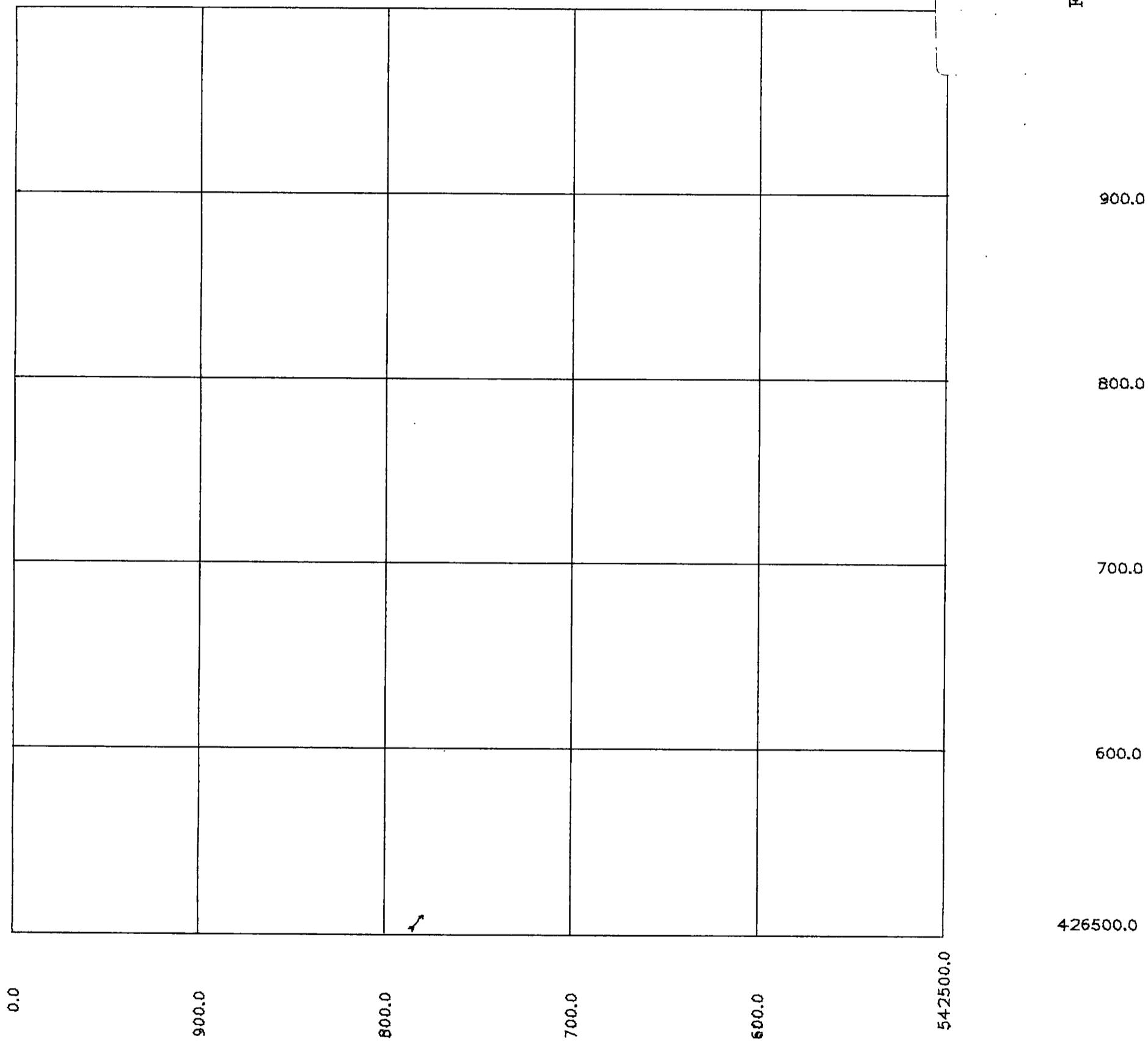
Feature Code 69

Flow arrow - small

900.0

800.0

700.0

600.0

426500.0

0.0   900.0   800.0   700.0   600.0   542500.0

Feature Code 70

Culvert Bar

900.0

800.0

700.0

600.0

426500.0

542500.0

0.0

900.0

800.0

700.0

600.0
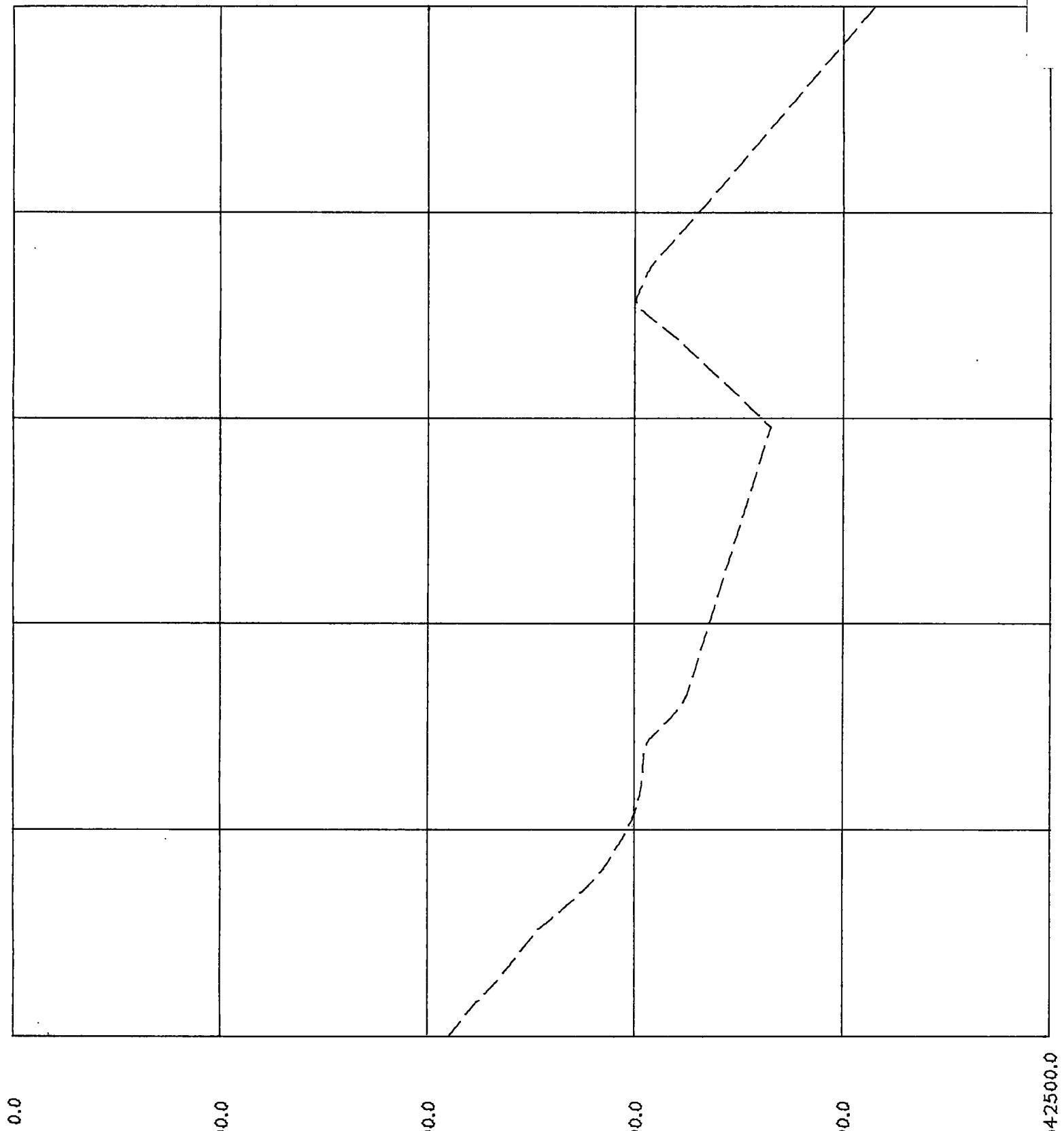
Feature Code 78

Boundary — Ward
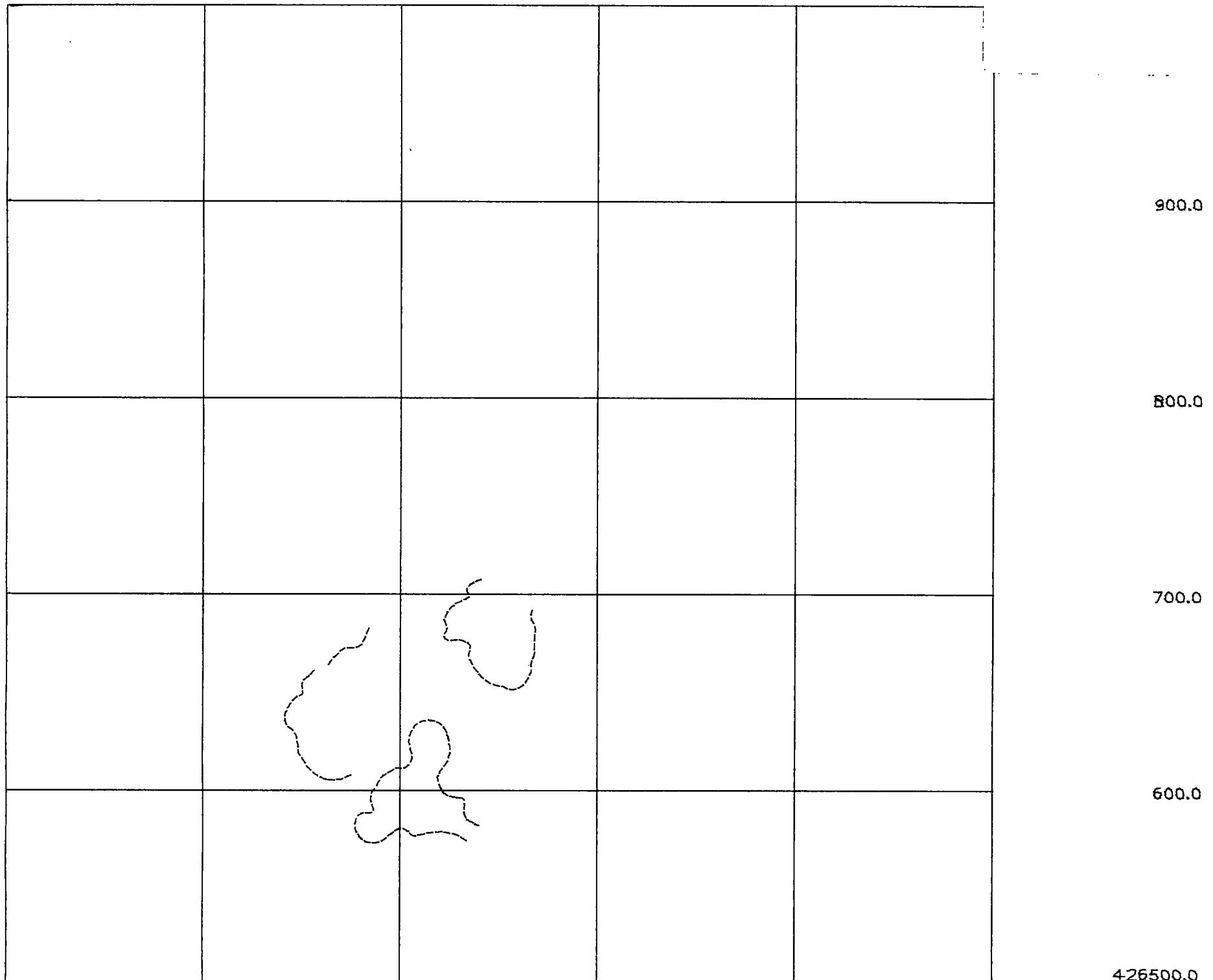
Feature Code 84
Ground surface
feature limits
(sketched pecks)

900.0

800.0

700.0

600.0

426500.0

0.0

900.0

800.0

700.0

600.0

542500.0
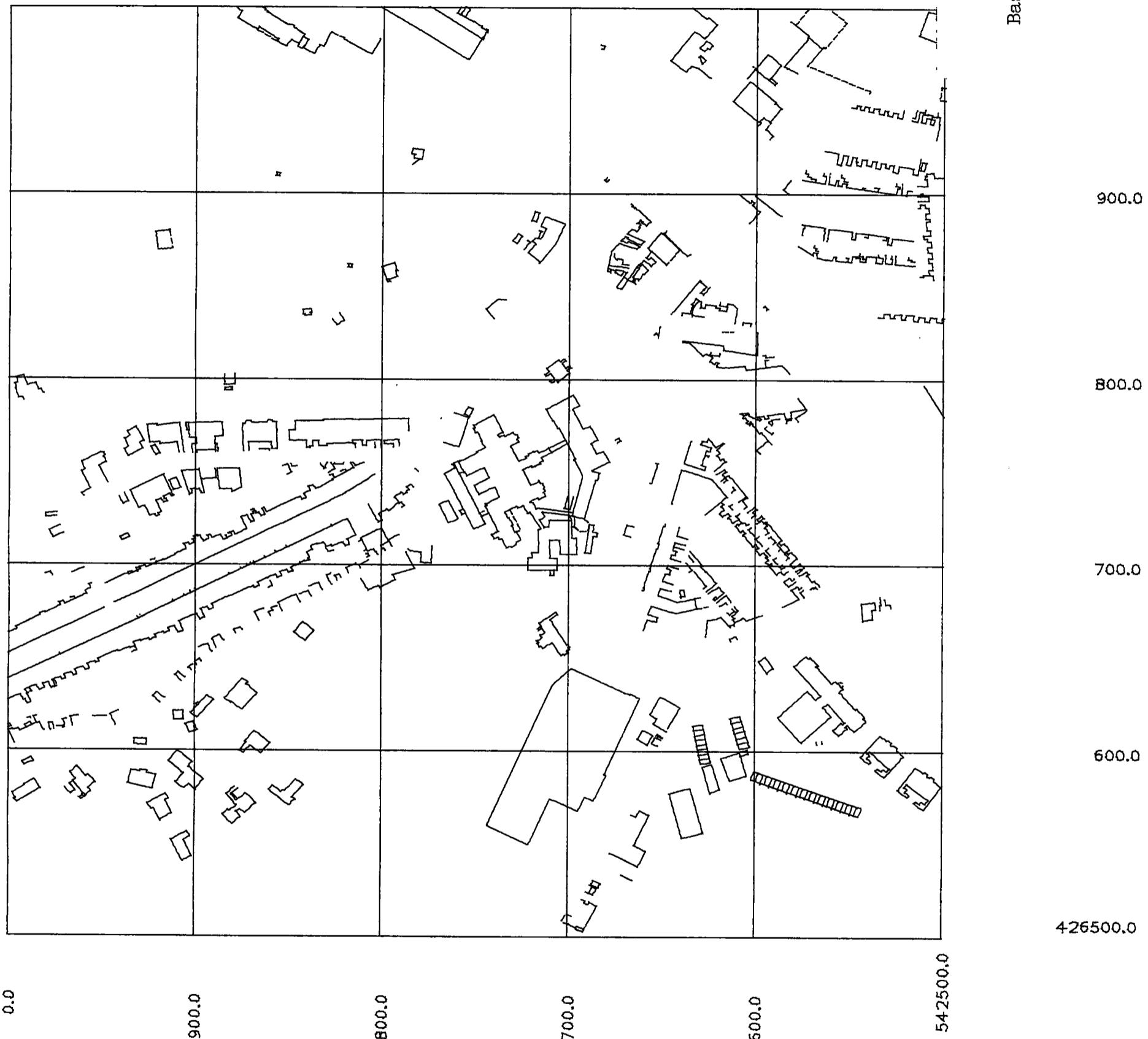
Basic Building Codes

Code nos.
1,2,3,4,5

115
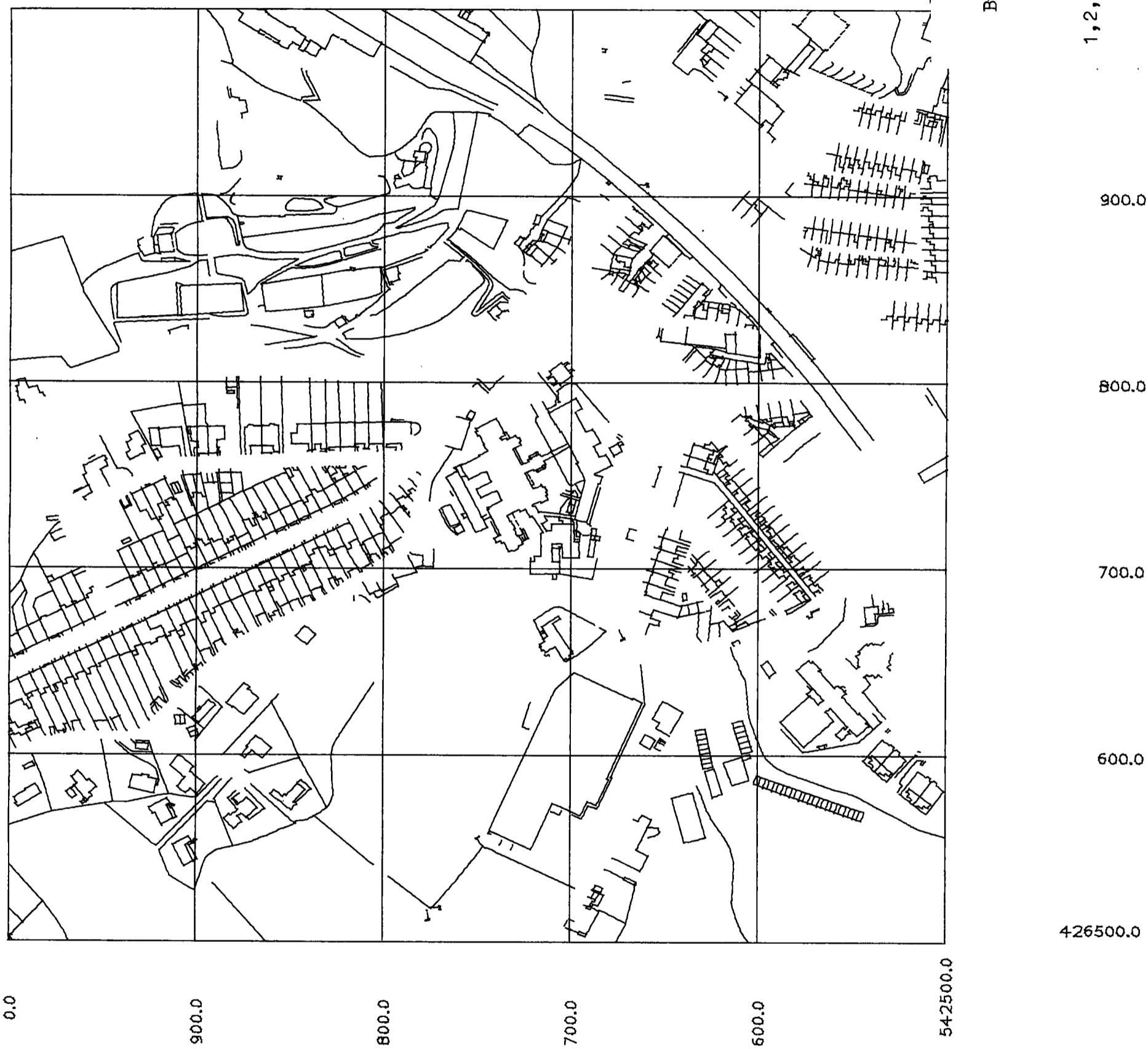
Buildings, Boundaries
and Fence Codes
Code nos.

1,2,3,4,5,11,12,13,17,30

900.0

800.0

700.0

600.0

426500.0

0.0

900.0

800.0

700.0

600.0

542500.0
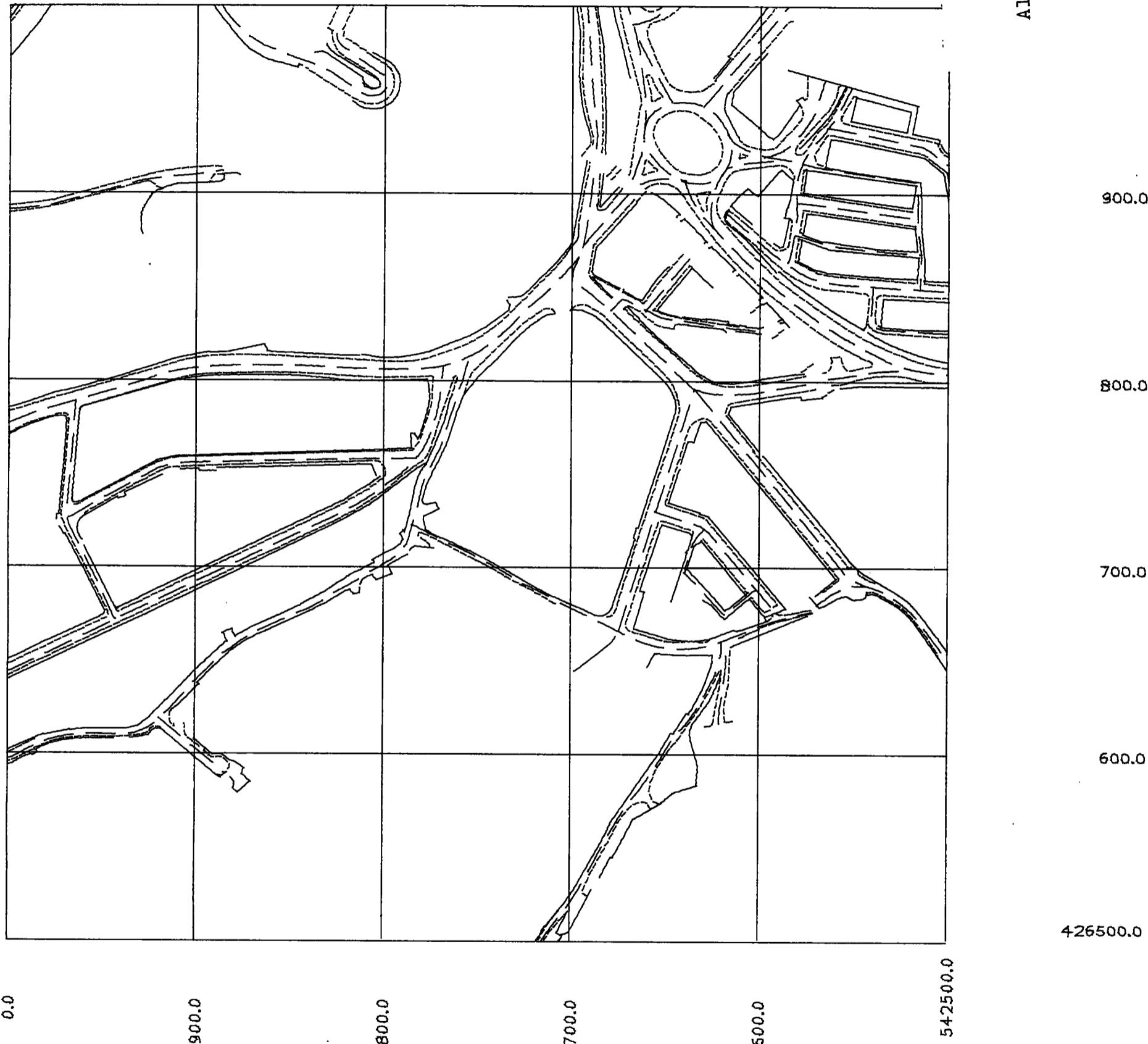
All Road Information

Code nos.
21,22,29,33,34,83

900.0

800.0

700.0

600.0

426500.0

0.0

900.0

800.0

700.0

600.0

542500.0

```
AAAAAAAAA    NN         NN  NN         NN  EEEEEEEEEEEE  XX      XX      8888888888
AAAAAAAAAAA   NNN        NN  NNN        NN  EEEEEEEEEEEE  XX      XX     888888888888
AA       AA   NNNN       NN  NNNN       NN  EE             XX    XX      88        88
AA       AA   NN NN      NN  NN NN      NN  EE              XX  XX       88        88
AA       AA   NN  NN     NN  NN  NN     NN  EE               XX XX       88        88
AAAAAAAAAAA   NN   NN    NN  NN   NN    NN  EEEEEEE           XXXX        88888888
AAAAAAAAAAA   NN    NN   NN  NN    NN   NN  EEEEEEE           XXXX        88888888
AA       AA   NN     NN  NN  NN     NN  NN  EE               XX XX       88        88
AA       AA   NN      NNNN   NN      NNNN   EE              XX  XX       88        88
AA       AA   NN       NNN   NN       NNN   EE             XX    XX      88        88
AA       AA   NN        NN   NN        NN   EEEEEEEEEEEE   XX      XX    888888888888
AA       AA   NN         N   NN         N   EEEEEEEEEEEE   XX      XX     8888888888
```

(Filed in the envelope at the back)

```
AAAAAAAAAA   NN        NN  NN        NN  EEEEEEEEEEEE  XX         XX        9999999999
AAAAAAAAAAAA NNN       NN  NNN       NN  EEEEEEEEEEEE  XX        XX         999999999999
AA        AA NNNN      NN  NNNN      NN  EE             XX      XX          99        99
AA        AA NN NN     NN  NN NN     NN  EE              XX    XX           99        99
AA        AA NN  NN    NN  NN  NN    NN  EE               XX  XX            99        99
AAAAAAAAAAAA NN   NN   NN  NN   NN   NN  EEEEEEEE           XXXX            999999999999
AAAAAAAAAAAA NN    NN  NN  NN    NN  NN  EEEEEEEE           XXXX            999999999999
AA        AA NN     NN NN  NN     NN NN  EE               XX  XX                     99
AA        AA NN      NNNN  NN      NNNN  EE              XX    XX                     99
AA        AA NN       NNN  NN       NNN  EE             XX      XX         99        99
AA        AA NN        NN  NN        NN  EEEEEEEEEEEE  XX         XX       999999999999
AA        AA NN         N  NN         N  EEEEEEEEEEEE  XX         XX        9999999999
```

(Filed in the envelope at the back)