DRAINAGE PLAN

NORTHEAST MIDDLE SCHOOL ADDITION

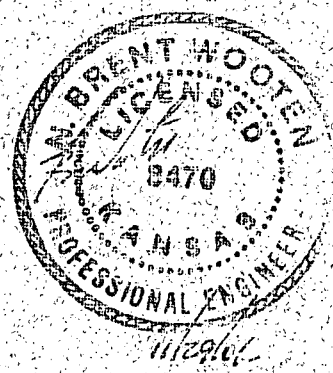
TO

WICHITA, SEDGWICK COUNTY, KANSAS

Prepared By

BAUGHMAN COMPANY, P.A.
ENGINEERING, SURVEYING & PLANNING
316/262-7271 FAX 316/262-0149 WICHITA, KANSAS 67211

November 29, 2001



DRAINAGE PLAN

NORTHEAST MIDDLE SCHOOL ADDITION

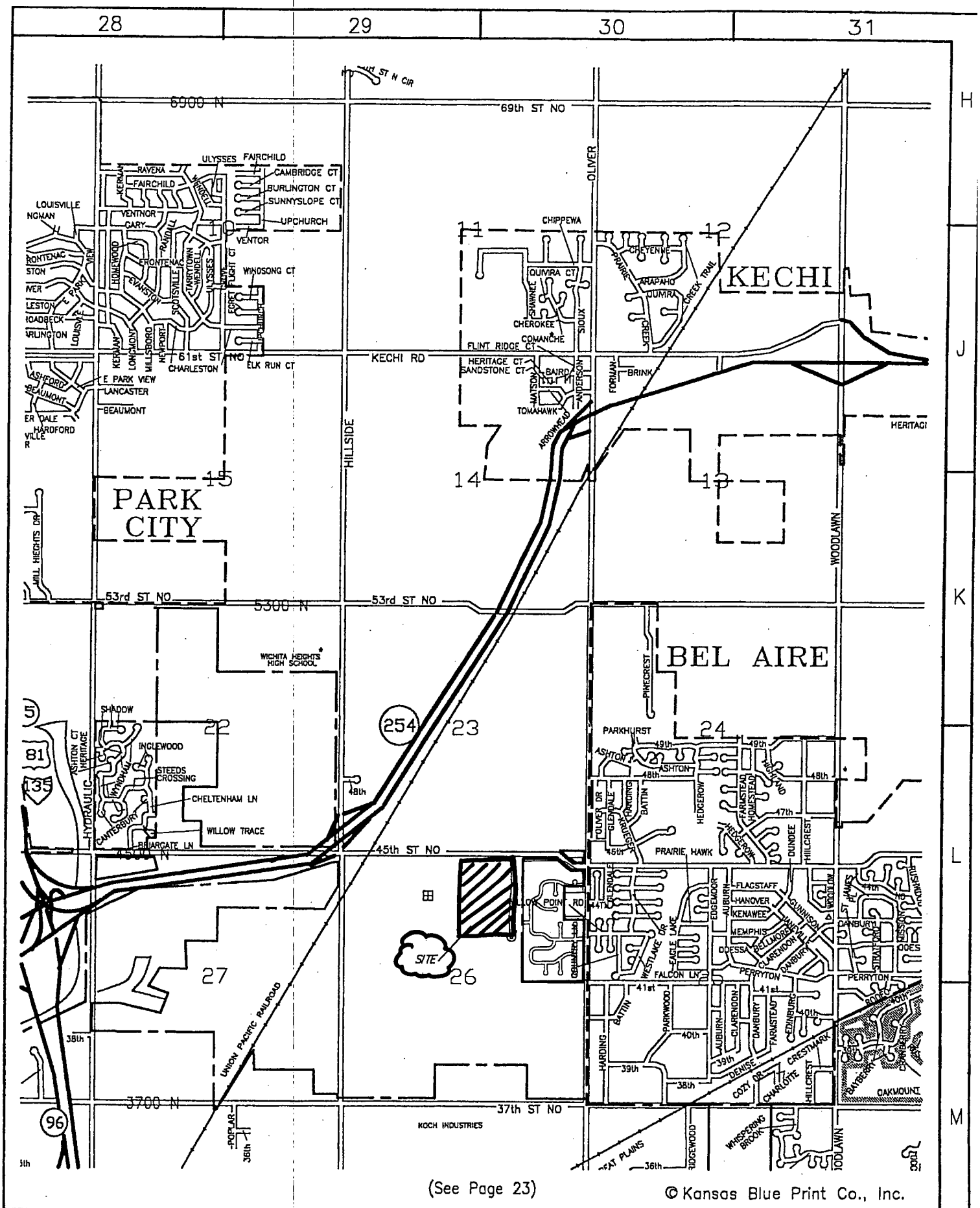
WICHITA, SEDGWICK COUNTY, KANSAS

TABLE OF CONTENTS

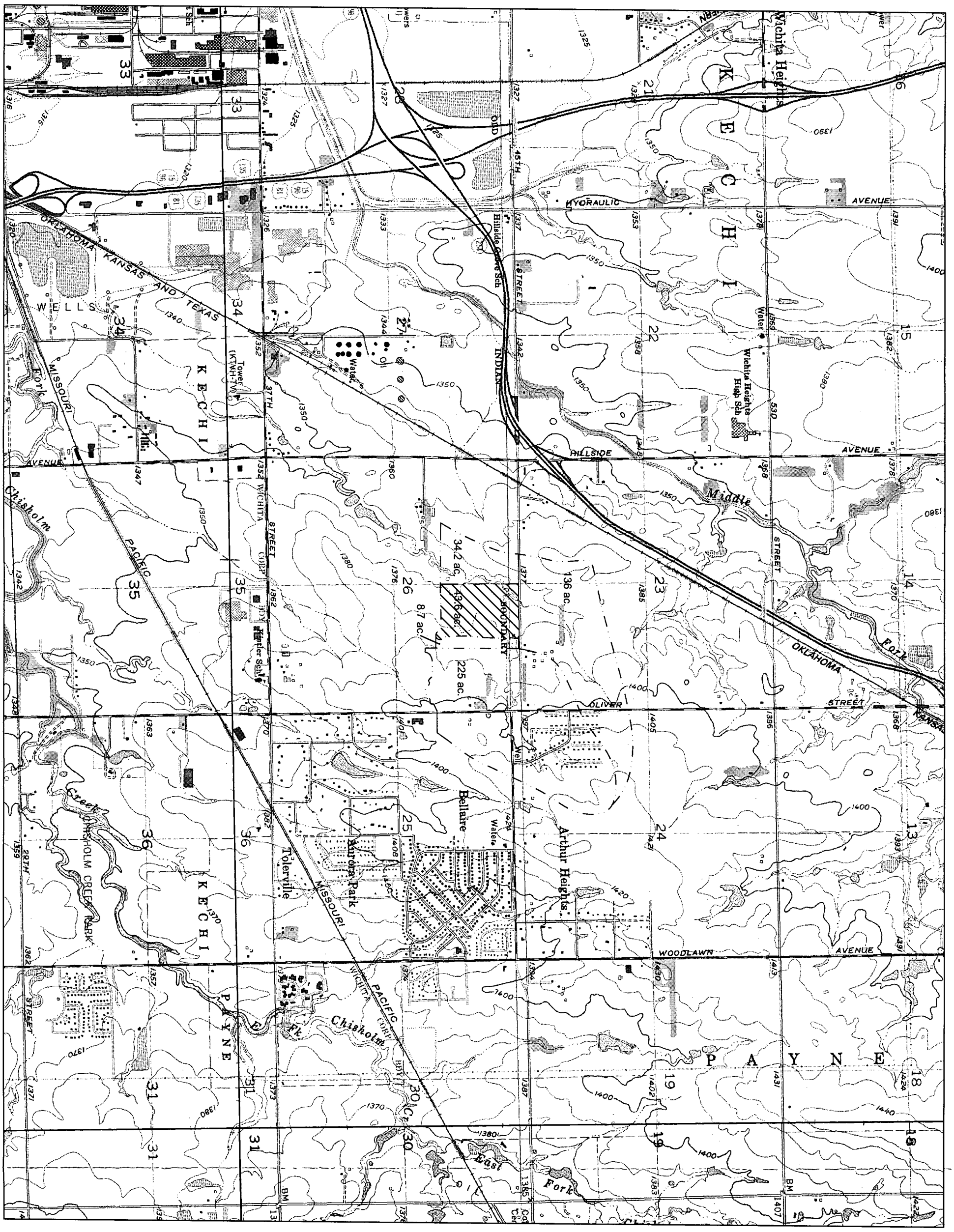
INTRODUCTION

This report provides information and supporting documentation to support the "Drainage Plan" for the property located in Section 26, T-26-S, R-1-E in Wichita, Sedgwick County, Kansas.

The "Drainage Plan" being submitted herein in intended to serve as a guide for the design of streets, stormwater sewers, and site grading to the proposed development. Modifications to structures, pipes, etc. may be made as necessary during the final design in order to obtain the most economical design and construction possible.



(See Page 23)



EAST WICHITA & VALLEY CENTER QUADRANGLE

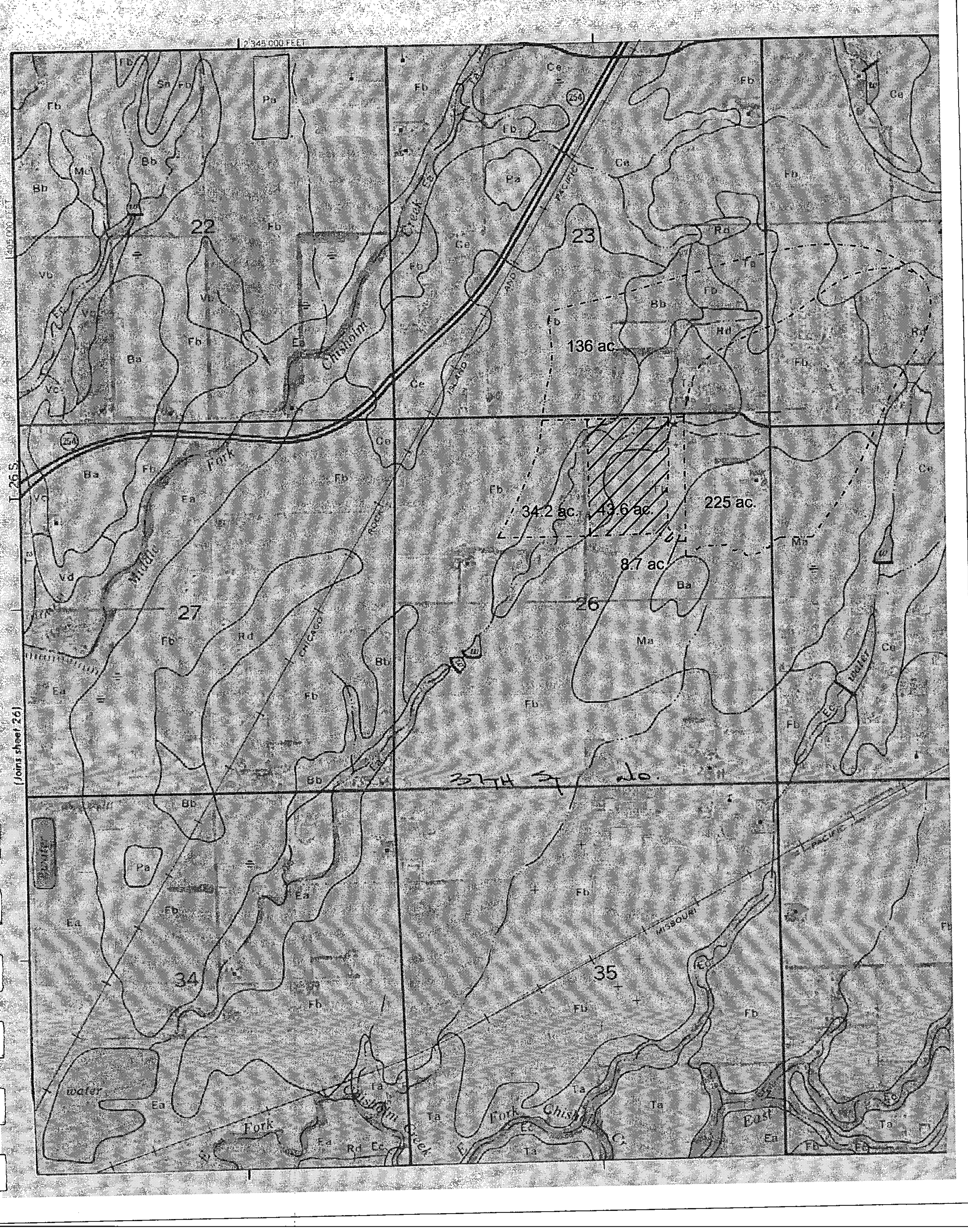
LOCATION:

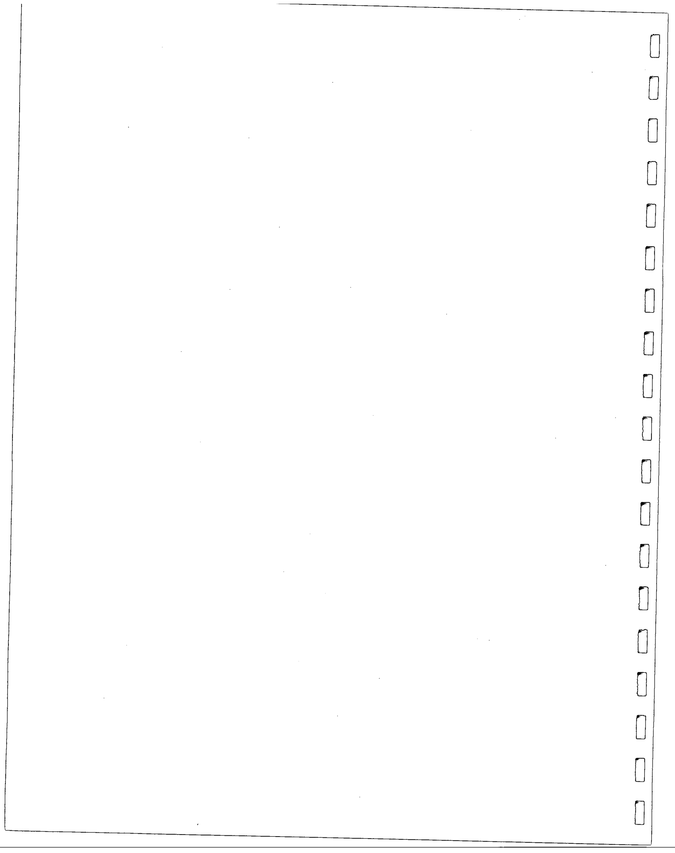
NORTHEAST MIDDLE SCHOOL ADDITION

WICHITA, SEDGWICK COUNTY, KANSAS

1"=2000'

SEDGWICK COUNTY, KANSAS — SHEET N





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*****************************************          ***************************************
*                                       *          *                                     *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *          *   U.S. ARMY CORPS OF ENGINEERS      *
*              MAY   1991               *          *   HYDROLOGIC ENGINEERING CENTER     *
*            VERSION 4.0.1E             *          *        609 SECOND STREET            *
*     Lahey F77L-EM/32 version 5.01     *          *     DAVIS, CALIFORNIA 95616         *
*       Dodson & Associates, Inc.       *          *        (916) 551-1748               *
*  RUN DATE  11/29/01  TIME  07:06:11   *          *                                     *
*****************************************          ***************************************


                  X     X  XXXXXXX   XXXXX           X
                  X     X  X        X     X         XX
                  X     X  X        X                X
                  XXXXXXX  XXXX     X       XXXXX    X
                  X     X  X        X                X
                  X     X  X        X     X          X
                  X     X  XXXXXXX   XXXXX          XXX


THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

                                         HEC-1 INPUT                                         PAGE  1
1
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

   1          ID  Northeast Middle School Addiiton
   2          ID  Pre-Developed Conditions
   3          ID  SCS Method - 2,5,10,25,50, & 100 YR Storm Event
   4          IT       5 20NOV01    0000     300                       2000
   5          IO       3       0
   6          JR    PREC  1.0000  1.3143  1.5143  1.7714  2.0000  2.2286
              *Diagram
              *

   7          KK  Center
   8          KM  Eagles Landing (Center Basin)
   9          BA    .039
  10          PB     3.5
  11          IN      60
  12          PC       0   0.011   0.022   0.035   0.048   0.063   0.080   0.098   0.120   0.147
  13          PC   0.181   0.235   0.663   0.772   0.820   0.854   0.880   0.902   0.921   0.937
  14          PC   0.952   0.965   0.978   0.989   1.000
  15          UD     .20
  16          LS       0      79
              *

  17          KK   CPond
  18          KM  Eagles Landing (Center Pond)
  19          RS       1    ELEV
  20          SA     1.4     1.8     2.0     2.2
  21          SE     197     200     201     202
  22          SQ       0       7      10      13      16      20      22      32      36      42
  23          SE   197.0  198.25   198.5  198.75   199.0  199.25   199.5   200.0  200.75   201.5
              *

  24          KK    East
  25          KM  Eagles Landing (East Off-site Drainage)
  26          BA  .21875
  27          UD     .79
  28          LS       0      82
              *

  29          KK  OneSit
  30          KM  Eagles Landing (North Basin)
  31          BA .046875
  32          UD      .2
  33          LS       0      80
              *

  34          KK   North
  35          KM  Eagles Landing (North Off-site Drainage)
  36          BA .046875
  37          UD     .39
  38          LS       0      74
              *
                                         HEC-1 INPUT                                         PAGE  2
1
LINE          ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
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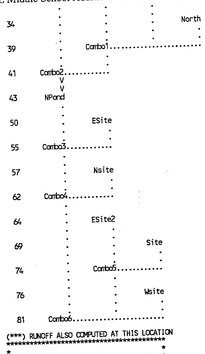
```
 39          KK  Combo1
 40          HC       3
             *

 41          KK  Combo2
 42          HC       2
             *

 43          KK   NPond
 44          KM  Eagles Landing (North Drainage Pond)
 45          RS       1    ELEV   192.0
 46          SA     2.2     2.8       3
 47          SE     192     195     196
 48          SQ       0     1.5     4.2      83     230     430     740    1170    1770
 49          SE   192.0   192.5   193.0   193.5   194.0   194.5   195.0   195.5   196.0
             *

 50          KK   ESite
 51          KM  Proposed Residential (East of NE Middle School)
 52          BA  .00531
 53          UD     .15
 54          LS       0      75
             *

 55          KK  Combo3
 56          HC       2
             *

 57          KK   Nsite
 58          KM  NE Middle School (Off-site North of 45th Street North)
 59          BA  0.2125
 60          UD     .51
 61          LS       0      80
             *

 62          KK  Combo4
 63          HC       2
             *

 64          KK  ESite2
 65          KM  Proposed Residential (East of NE Middle School)
 66          BA  .00828
 67          UD     .15
 68          LS       0      75
             *

 69          KK    Site
 70          KM  NE Middle School Basin
 71          BA  .06813
 72          UD     .27
 73          LS       0      80
             *
1
                                     HEC-1 INPUT                                        PAGE  3
    LINE     ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

 74          KK  Combo5
 75          HC       2
             *

 76          KK   Wsite
 77          KM  NE Middle School (West Off-site Basin)
 78          BA  .05344
 79          UD     .29
 80          LS       0      80
             *

 81          KK  Combo6
 82          HC       3
             *

 83          ZZ
1
          SCHEMATIC DIAGRAM OF STREAM NETWORK
INPUT
 LINE    (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

 NO.     (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

   7     Center
              V
              V
  17      CPond
              .
              .
  24          .        East
              .           .
              .           .
  29          .           .     OneSit
```



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
*                                        *
*  FLOOD HYDROGRAPH PACKAGE  (HEC-1)     *
*              MAY  1991                 *
*           VERSION 4.0.1E               *
*  Lahey F77L-EM/32 version 5.01         *
*     Dodson & Associates, Inc.          *
*  RUN DATE 11/29/01  TIME 07:06:11      *
```

U.S. ARMY CORPS OF ENGINEERS
HYDROLOGIC ENGINEERING CENTER
609 SECOND STREET
DAVIS, CALIFORNIA 95616
(916) 551-1748

Northeast Middle School Additon
Pre-Developed Conditions
SCS Method - 2,5,10,25,50, & 100 YR Storm Event

```
5 IO        OUTPUT CONTROL VARIABLES
              IPRNT         3  PRINT CONTROL
              IPLOT         0  PLOT CONTROL
              QSCAL        0.  HYDROGRAPH PLOT SCALE

 IT         HYDROGRAPH TIME DATA
              NMIN          5  MINUTES IN COMPUTATION INTERVAL
              IDATE    20NOV 1  STARTING DATE
              ITIME        0000  STARTING TIME
              NQ            300  NUMBER OF HYDROGRAPH ORDINATES
              NDDATE   21NOV 1  ENDING DATE
              NDTIME       0055  ENDING TIME
              ICENT          20  CENTURY MARK

            COMPUTATION INTERVAL     0.08 HOURS
                TOTAL TIME BASE     24.92 HOURS

          ENGLISH UNITS
              DRAINAGE AREA        SQUARE MILES
              PRECIPITATION DEPTH  INCHES
              LENGTH, ELEVATION    FEET
              FLOW                 CUBIC FEET PER SECOND
              STORAGE VOLUME       ACRE-FEET
              SURFACE AREA         ACRES
              TEMPERATURE          DEGREES FAHRENHEIT

 JP           MULTI-PLAN OPTION
                NPLAN          1  NUMBER OF PLANS

 JR           MULTI-RATIO OPTION
                RATIOS OF PRECIPITATION
              1.00     1.31     1.51     1.77     2.00     2.23
```

*** ***

```
              **************
              *            *
 7 KK         *   Center   *
              *            *
              **************

                      Eagles Landing (Center Basin)

11 IN           TIME DATA FOR INPUT TIME SERIES
                     JXMIN          60  TIME INTERVAL IN MINUTES
                    JXDATE     20NOV 1  STARTING DATE
                    JXTIME           0  STARTING TIME

              SUBBASIN RUNOFF DATA

 9 BA           SUBBASIN CHARACTERISTICS
                     TAREA        0.04  SUBBASIN AREA

                PRECIPITATION DATA

10 PB                STORM        3.50  BASIN TOTAL PRECIPITATION

12 PI            INCREMENTAL PRECIPITATION PATTERN
```

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

```
16 LS           SCS LOSS RATE
                     STRTL        0.53  INITIAL ABSTRACTION
                    CRVNBR       79.00  CURVE NUMBER
                     RTIMP        0.00  PERCENT IMPERVIOUS AREA

15 UD           SCS DIMENSIONLESS UNITGRAPH
                      TLAG        0.20  LAG

                                            ***

                                       UNIT HYDROGRAPH
                                  14 END-OF-PERIOD ORDINATES
            19.        63.        78.        62.        35.        20.        11.         6.         4.         2.
             1.         1.         0.         0.

    TOTAL RAINFALL =    3.50, TOTAL LOSS =    1.93, TOTAL EXCESS =    1.57

  PEAK FLOW      TIME                           MAXIMUM AVERAGE FLOW
                                          6-HR         24-HR        72-HR       24.92-HR
+   (CFS)        (HR)
                               (CFS)
+     21.       12.00                       5.            2.           2.            2.
                             (INCHES)    1.270         1.566        1.566         1.566
                              (AC-FT)       3.            3.           3.            3.

                             CUMULATIVE AREA =     0.04 SQ MI

      ***            ***            ***            ***            ***

                         HYDROGRAPH AT STATION    Center
                          FOR PLAN 1, RATIO = 1.00
```

TOTAL RAINFALL = 3.50, TOTAL LOSS = 1.93, TOTAL EXCESS = 1.57

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 21.	12.00	(CFS)	5.	2.	2.	2.
		(INCHES)	1.270	1.566	1.566	1.566
		(AC-FT)	3.	3.	3.	3.

CUMULATIVE AREA = 0.04 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Center
FOR PLAN 1, RATIO = 1.31

TOTAL RAINFALL = 4.60, TOTAL LOSS = 2.14, TOTAL EXCESS = 2.46

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 33.	12.00	(CFS)	8.	3.	2.	2.
		(INCHES)	1.988	2.461	2.461	2.461
		(AC-FT)	4.	5.	5.	5.

CUMULATIVE AREA = 0.04 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Center
FOR PLAN 1, RATIO = 1.51

TOTAL RAINFALL = 5.30, TOTAL LOSS = 2.24, TOTAL EXCESS = 3.06

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 41.	12.00	(CFS)	10.	3.	3.	3.
		(INCHES)	2.464	3.062	3.062	3.062
		(AC-FT)	5.	6.	6.	6.

CUMULATIVE AREA = 0.04 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Center
FOR PLAN 1, RATIO = 1.77

TOTAL RAINFALL = 6.20, TOTAL LOSS = 2.34, TOTAL EXCESS = 3.86

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 51.	12.00	(CFS)	13.	4.	4.	4.
		(INCHES)	3.090	3.859	3.859	3.859
		(AC-FT)	6.	8.	8.	8.

CUMULATIVE AREA = 0.04 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Center
FOR PLAN 1, RATIO = 2.00

TOTAL RAINFALL = 7.00, TOTAL LOSS = 2.42, TOTAL EXCESS = 4.58

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 60.	12.00	(CFS)	15.	5.	5.	5.
		(INCHES)	3.659	4.584	4.584	4.584
		(AC-FT)	8.	10.	10.	10.

CUMULATIVE AREA = 0.04 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Center
FOR PLAN 1, RATIO = 2.23

TOTAL RAINFALL = 7.80, TOTAL LOSS = 2.48, TOTAL EXCESS = 5.32

```
  PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                   6-HR      24-HR      72-HR      24.92-HR
+  (CFS)        (HR)
                         (CFS)
+     69.      12.00                18.        6.         5.          5.
                        (INCHES)   4.235     5.322      5.322       5.322
                        (AC-FT)       9.       11.        11.         11.

                        CUMULATIVE AREA =    0.04 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

             **************
             *            *
  17 KK      *    CPond   *
             *            *
             **************
                        Eagles Landing (Center Pond)

              HYDROGRAPH ROUTING DATA

  19 RS         STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       ELEV  TYPE OF INITIAL CONDITION
                    RSVRIC       0.00  INITIAL CONDITION
                         X       0.00 WORKING R AND D COEFFICIENT

  20 SA              AREA      1.4       1.8       2.0       2.2

  21 SE         ELEVATION    197.00    200.00    201.00    202.00

  22 SQ         DISCHARGE       0.        7.       10.       13.       16.       20.       22.       32.       36.       42.

  23 SE         ELEVATION    197.00    198.25    198.50    198.75    199.00    199.25    199.50    200.00    200.75    201.50

                                              ***

                                   COMPUTED STORAGE-ELEVATION DATA

           STORAGE      0.00      4.79      6.69      8.79
         ELEVATION    197.00    200.00    201.00    202.00

                                 COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

           STORAGE      0.00      1.85      2.24      2.65      3.06      3.48      3.91      4.79      6.19      6.69
           OUTFLOW      0.00      7.00     10.00     13.00     16.00     20.00     22.00     32.00     36.00     38.00
         ELEVATION    197.00    198.25    198.50    198.75    199.00    199.25    199.50    200.00    200.75    201.00

           STORAGE      7.71      8.79
           OUTFLOW     42.00     46.00
         ELEVATION    201.50    202.00

       ***             ***             ***             ***             ***

                        HYDROGRAPH AT STATION     CPond
                         FOR PLAN 1, RATIO = 1.00

  PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                   6-HR      24-HR      72-HR      24.92-HR
+  (CFS)        (HR)
                         (CFS)
+      5.      13.17                 4.        2.         1.          1.
                        (INCHES)   0.968     1.454      1.454       1.454
                        (AC-FT)       2.        3.         3.          3.

  PEAK STORAGE  TIME                        MAXIMUM AVERAGE STORAGE
                                   6-HR      24-HR      72-HR      24.92-HR
+ (AC-FT)       (HR)
        1.     13.17                 1.        0.         0.          0.

  PEAK STAGE    TIME                        MAXIMUM AVERAGE STAGE
                                   6-HR      24-HR      72-HR      24.92-HR
+  (FEET)       (HR)
    197.94     13.17              197.72    197.27     197.26      197.26

                        CUMULATIVE AREA =    0.04 SQ MI

       ***             ***             ***             ***             ***

                        HYDROGRAPH AT STATION     CPond
                         FOR PLAN 1, RATIO = 1.31

  PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
```

	6-HR	24-HR	72-HR	24.92-HR
(CFS)	7.	2.	2.	2.
(INCHES)	1.558	2.299	2.299	2.299
(AC-FT)	3.	5.	5.	5.

PEAK STORAGE	TIME
(AC-FT)	(HR)
2.	13.00

MAXIMUM AVERAGE STORAGE

6-HR	24-HR	72-HR	24.92-HR
2.	1.	1.	1.

PEAK STAGE	TIME
(FEET)	(HR)
198.46	13.08

MAXIMUM AVERAGE STAGE

6-HR	24-HR	72-HR	24.92-HR
198.11	197.42	197.40	197.40

CUMULATIVE AREA = 0.04 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION CPond
FOR PLAN 1, RATIO = 1.51

PEAK FLOW	TIME
(CFS)	(HR)
13.	12.58

MAXIMUM AVERAGE FLOW

6-HR	24-HR	72-HR	24.92-HR
(CFS) 8.	3.	3.	3.
(INCHES) 1.983	2.870	2.870	2.870
(AC-FT) 4.	6.	6.	6.

PEAK STORAGE	TIME
(AC-FT)	(HR)
3.	12.58

MAXIMUM AVERAGE STORAGE

6-HR	24-HR	72-HR	24.92-HR
2.	1.	1.	1.

PEAK STAGE	TIME
(FEET)	(HR)
198.76	12.58

MAXIMUM AVERAGE STAGE

6-HR	24-HR	72-HR	24.92-HR
198.30	197.49	197.47	197.47

CUMULATIVE AREA = 0.04 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION CPond
FOR PLAN 1, RATIO = 1.77

PEAK FLOW	TIME
(CFS)	(HR)
18.	12.50

MAXIMUM AVERAGE FLOW

6-HR	24-HR	72-HR	24.92-HR
(CFS) 11.	4.	4.	4.
(INCHES) 2.561	3.631	3.631	3.631
(AC-FT) 5.	8.	8.	8.

PEAK STORAGE	TIME
(AC-FT)	(HR)
3.	12.50

MAXIMUM AVERAGE STORAGE

6-HR	24-HR	72-HR	24.92-HR
2.	1.	1.	1.

PEAK STAGE	TIME
(FEET)	(HR)
199.15	12.50

MAXIMUM AVERAGE STAGE

6-HR	24-HR	72-HR	24.92-HR
198.53	197.58	197.56	197.56

CUMULATIVE AREA = 0.04 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION CPond
FOR PLAN 1, RATIO = 2.00

PEAK FLOW	TIME
(CFS)	(HR)
22.	12.42

MAXIMUM AVERAGE FLOW

6-HR	24-HR	72-HR	24.92-HR
(CFS) 13.	5.	4.	4.
(INCHES) 3.097	4.326	4.326	4.326
(AC-FT) 6.	9.	9.	9.

PEAK STORAGE	TIME
(AC-FT)	(HR)
4.	12.42

MAXIMUM AVERAGE STORAGE

6-HR	24-HR	72-HR	24.92-HR
3.	1.	1.	1.

PEAK STAGE TIME

MAXIMUM AVERAGE STAGE

			6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)					
199.50	12.42		198.73	197.66	197.64	197.64

CUMULATIVE AREA = 0.04 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION CPond
FOR PLAN 1, RATIO = 2.23

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 28.	12.42		15.	5.	5.	5.
		(INCHES)	3.650	5.034	5.034	5.034
		(AC-FT)	8.	10.	10.	10.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
4.	12.42	3.	1.	1.	1.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
199.82	12.42	198.90	197.73	197.71	197.71

CUMULATIVE AREA = 0.04 SQ MI

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          *            *
24 KK     *    East    *
          *            *
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Eagles Landing (East Off-site Drainage)

SUBBASIN RUNOFF DATA

26 BA SUBBASIN CHARACTERISTICS
TAREA 0.22 SUBBASIN AREA

PRECIPITATION DATA

10 PB STORM 3.50 BASIN TOTAL PRECIPITATION

12 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

28 LS SCS LOSS RATE
STRTL 0.44 INITIAL ABSTRACTION
CRVNBR 82.00 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

27 UD SCS DIMENSIONLESS UNITGRAPH

TLAG 0.79 LAG

***

UNIT HYDROGRAPH
49 END-OF-PERIOD ORDINATES

4.	13.	24.	40.	60.	84.	104.	118.	126.	127.
126.	118.	109.	99.	86.	71.	58.	49.	42.	35.
31.	26.	22.	19.	16.	13.	12.	10.	8.	7.
6.	5.	4.	4.	3.	3.	2.	2.	2.	1.
1.	1.	1.	1.	1.	0.	0.	0.	0.	

TOTAL RAINFALL = 3.50, TOTAL LOSS = 1.72, TOTAL EXCESS = 1.78

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)	(CFS)				
+ 91.	12.50		34.	10.	10.	10.
		(INCHES)	1.427	1.774	1.774	1.774
		(AC-FT)	17.	21.	21.	21.

CUMULATIVE AREA = 0.22 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION East
FOR PLAN 1, RATIO = 1.00

TOTAL RAINFALL = 3.50, TOTAL LOSS = 1.72, TOTAL EXCESS = 1.78

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)	(CFS)				
+ 91.	12.50		34.	10.	10.	10.
		(INCHES)	1.427	1.774	1.774	1.774
		(AC-FT)	17.	21.	21.	21.

CUMULATIVE AREA = 0.22 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION East
FOR PLAN 1, RATIO = 1.31

TOTAL RAINFALL = 4.60, TOTAL LOSS = 1.88, TOTAL EXCESS = 2.72

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)	(CFS)				
+ 141.	12.50		51.	16.	15.	15.
		(INCHES)	2.176	2.712	2.712	2.712
		(AC-FT)	25.	32.	32.	32.

CUMULATIVE AREA = 0.22 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION East
FOR PLAN 1, RATIO = 1.51

TOTAL RAINFALL = 5.30, TOTAL LOSS = 1.95, TOTAL EXCESS = 3.35

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)	(CFS)				
+ 174.	12.50		63.	20.	19.	19.
		(INCHES)	2.666	3.335	3.335	3.335
		(AC-FT)	31.	39.	39.	39.

CUMULATIVE AREA = 0.22 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION East
FOR PLAN 1, RATIO = 1.77

TOTAL RAINFALL = 6.20, TOTAL LOSS = 2.03, TOTAL EXCESS = 4.17

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)	(CFS)				
+ 217.	12.42		78.	24.	24.	24.

(INCHES)	3.307	4.155	4.155	4.155
(AC-FT)	39.	48.	48.	48.

CUMULATIVE AREA = 0.22 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION East
FOR PLAN 1, RATIO = 2.00

TOTAL RAINFALL = 7.00, TOTAL LOSS = 2.08, TOTAL EXCESS = 4.92

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
+ (CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
+ 255.	12.42	(CFS)	91.	29.	28.	28.
		(INCHES)	3.882	4.897	4.897	4.897
		(AC-FT)	45.	57.	57.	57.

CUMULATIVE AREA = 0.22 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION East
FOR PLAN 1, RATIO = 2.23

TOTAL RAINFALL = 7.80, TOTAL LOSS = 2.13, TOTAL EXCESS = 5.67

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
+ (CFS)	(HR)		6-HR	24-HR	72-HR	24.92-HR
+ 294.	12.42	(CFS)	105.	33.	32.	32.
		(INCHES)	4.460	5.649	5.649	5.649
		(AC-FT)	52.	66.	66.	66.

CUMULATIVE AREA = 0.22 SQ MI

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          **************
          *            *
29 KK     *   OneSit   *
          *            *
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Eagles Landing (North Basin)

SUBBASIN RUNOFF DATA

31 BA SUBBASIN CHARACTERISTICS

TAREA	0.05	SUBBASIN AREA
SNAP	50000000.00	NORMAL ANNUAL PRECIPITATION
RATIO	0.00	RATIO OF HYDROGRAPH

PRECIPITATION DATA

10 PB STORM 3.50 BASIN TOTAL PRECIPITATION

12 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

33 LS SCS LOSS RATE
STRTL 0.50 INITIAL ABSTRACTION
CRVNBR 80.00 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

32 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.20 LAG

***

UNIT HYDROGRAPH
14 END-OF-PERIOD ORDINATES
23. 75. 95. 75. 42. 24. 14. 8. 4. 3.
1. 1. 0. 0.

TOTAL RAINFALL = 3.50, TOTAL LOSS = 1.86, TOTAL EXCESS = 1.64

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 27.	12.00	7.	2.	2.	2.
		(INCHES) 1.327	1.636	1.636	1.636
		(AC-FT) 3.	4.	4.	4.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION OneSit
FOR PLAN 1, RATIO = 1.00

TOTAL RAINFALL = 3.50, TOTAL LOSS = 1.86, TOTAL EXCESS = 1.64

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 27.	12.00	7.	2.	2.	2.
		(INCHES) 1.327	1.636	1.636	1.636
		(AC-FT) 3.	4.	4.	4.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION OneSit
FOR PLAN 1, RATIO = 1.31

TOTAL RAINFALL = 4.60, TOTAL LOSS = 2.05, TOTAL EXCESS = 2.55

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 41.	12.00	10.	3.	3.	3.
		(INCHES) 2.055	2.547	2.547	2.547
		(AC-FT) 5.	6.	6.	6.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION OneSit
FOR PLAN 1, RATIO = 1.51

TOTAL RAINFALL = 5.30, TOTAL LOSS = 2.14, TOTAL EXCESS = 3.16

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 50.	12.00	13.	4.	4.	4.
		(INCHES) 2.535	3.156	3.156	3.156
		(AC-FT) 6.	8.	8.	8.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION OneSit
FOR PLAN 1, RATIO = 1.77

TOTAL RAINFALL = 6.20, TOTAL LOSS = 2.24, TOTAL EXCESS = 3.96

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 63.	12.00		16.	5.	5.	5.
		(INCHES)	3.168	3.962	3.962	3.962
		(AC-FT)	8.	10.	10.	10.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION OneSit
FOR PLAN 1, RATIO = 2.00

TOTAL RAINFALL = 7.00, TOTAL LOSS = 2.31, TOTAL EXCESS = 4.69

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 73.	12.00		19.	6.	6.	6.
		(INCHES)	3.741	4.694	4.694	4.694
		(AC-FT)	9.	12.	12.	12.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION OneSit
FOR PLAN 1, RATIO = 2.23

TOTAL RAINFALL = 7.80, TOTAL LOSS = 2.36, TOTAL EXCESS = 5.44

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 84.	12.00		22.	7.	7.	7.
		(INCHES)	4.319	5.438	5.438	5.438
		(AC-FT)	11.	14.	14.	14.

CUMULATIVE AREA = 0.05 SQ MI

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          **************
          *            *
34 KK     *    North   *
          *            *
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Eagles Landing (North Off-site Drainage)

SUBBASIN RUNOFF DATA

36 BA SUBBASIN CHARACTERISTICS

TAREA	0.05	SUBBASIN AREA
SNAP	50000000.00	NORMAL ANNUAL PRECIPITATION
RATIO	0.00	RATIO OF HYDROGRAPH

PRECIPITATION DATA

10 PB STORM 3.50 BASIN TOTAL PRECIPITATION

12 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

38 LS SCS LOSS RATE

STRTL	0.70	INITIAL ABSTRACTION
CRVNBR	74.00	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

37 UD SCS DIMENSIONLESS UNITGRAPH

TLAG	0.39	LAG

***

UNIT HYDROGRAPH
25 END-OF-PERIOD ORDINATES

5.	15.	33.	47.	52.	50.	43.	33.	23.	17.
12.	9.	7.	5.	3.	3.	2.	1.	1.	1.
1.	0.	0.	0.	0.					

TOTAL RAINFALL = 3.50, TOTAL LOSS = 2.26, TOTAL EXCESS = 1.24

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 17.	12.17		5.	2.	2.	2.
		(INCHES)	0.992	1.239	1.239	1.239
		(AC-FT)	2.	3.	3.	3.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION North
FOR PLAN 1, RATIO = 1.00

TOTAL RAINFALL = 3.50, TOTAL LOSS = 2.26, TOTAL EXCESS = 1.24

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 17.	12.17		5.	2.	2.	2.
		(INCHES)	0.992	1.239	1.239	1.239
		(AC-FT)	2.	3.	3.	3.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION North
FOR PLAN 1, RATIO = 1.31

TOTAL RAINFALL = 4.60, TOTAL LOSS = 2.55, TOTAL EXCESS = 2.05

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 29.	12.17		8.	3.	2.	2.
		(INCHES)	1.655	2.049	2.049	2.049
		(AC-FT)	4.	5.	5.	5.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION North
FOR PLAN 1, RATIO = 1.51

TOTAL RAINFALL = 5.30, TOTAL LOSS = 2.69, TOTAL EXCESS = 2.61

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 37.	12.17		11.	3.	3.	3.
		(INCHES)	2.105	2.605	2.605	2.605

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                          (AC-FT)        5.         7.         7.          7.

                          CUMULATIVE AREA =     0.05 SQ MI

        ***            ***            ***            ***            ***

                          HYDROGRAPH AT STATION     North
                           FOR PLAN 1, RATIO = 1.77

      TOTAL RAINFALL =     6.20, TOTAL LOSS =     2.85, TOTAL EXCESS =     3.35

     PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                          6-HR        24-HR        72-HR       24.92-HR
  +   (CFS)         (HR)
                              (CFS)
  +      48.       12.17                   14.          4.           4.           4.
                            (INCHES)      2.704       3.352        3.352        3.352
                            (AC-FT)         7.          8.           8.           8.

                          CUMULATIVE AREA =     0.05 SQ MI

        ***            ***            ***            ***            ***

                          HYDROGRAPH AT STATION     North
                           FOR PLAN 1, RATIO = 2.00

      TOTAL RAINFALL =     7.00, TOTAL LOSS =     2.96, TOTAL EXCESS =     4.04

     PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                          6-HR        24-HR        72-HR       24.92-HR
  +   (CFS)         (HR)
                              (CFS)
  +      58.       12.17                   16.          5.           5.           5.
                            (INCHES)      3.250       4.041        4.041        4.041
                            (AC-FT)         8.         10.          10.          10.

                          CUMULATIVE AREA =     0.05 SQ MI

        ***            ***            ***            ***            ***

                          HYDROGRAPH AT STATION     North
                           FOR PLAN 1, RATIO = 2.23

      TOTAL RAINFALL =     7.80, TOTAL LOSS =     3.05, TOTAL EXCESS =     4.75

     PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                          6-HR        24-HR        72-HR       24.92-HR
  +   (CFS)         (HR)
                              (CFS)
  +      68.       12.17                   19.          6.           6.           6.
                            (INCHES)      3.804       4.746        4.746        4.746
                            (AC-FT)        10.         12.          12.          12.

                          CUMULATIVE AREA =     0.05 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

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             *            *
   39 KK     *   Combo1   *
             *            *
             **************

   40 HC          HYDROGRAPH COMBINATION
                        ICOMP             3  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                     ***
        ***            ***            ***            ***            ***

                          HYDROGRAPH AT STATION    Combo1
                           FOR PLAN 1, RATIO = 1.00

     PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                          6-HR        24-HR        72-HR       24.92-HR
  +   (CFS)         (HR)
                              (CFS)
  +     116.       12.25                   45.         14.          14.          14.
                            (INCHES)      1.344       1.673        1.673        1.673
                            (AC-FT)        22.         28.          28.          28.

                          CUMULATIVE AREA =     0.31 SQ MI
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      ***             ***             ***             ***             ***

                         HYDROGRAPH AT STATION    Combo1
                          FOR PLAN 1, RATIO = 1.31

   PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                       6-HR      24-HR       72-HR      24.92-HR
 +  (CFS)         (HR)
                               (CFS)
 +     184.       12.25                 70.        22.        21.         21.
                            (INCHES)   2.077      2.588      2.588       2.588
                             (AC-FT)    35.        43.        43.         43.

                         CUMULATIVE AREA =     0.31 SQ MI

      ***             ***             ***             ***             ***

                         HYDROGRAPH AT STATION    Combo1
                          FOR PLAN 1, RATIO = 1.51

   PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                       6-HR      24-HR       72-HR      24.92-HR
 +  (CFS)         (HR)
                               (CFS)
 +     229.       12.17                 86.        27.        26.         26.
                            (INCHES)   2.561      3.199      3.199       3.199
                             (AC-FT)    43.        53.        53.         53.

                         CUMULATIVE AREA =     0.31 SQ MI

      ***             ***             ***             ***             ***

                         HYDROGRAPH AT STATION    Combo1
                          FOR PLAN 1, RATIO = 1.77

   PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                       6-HR      24-HR       72-HR      24.92-HR
 +  (CFS)         (HR)
                               (CFS)
 +     290.       12.17                107.        34.        32.         32.
                            (INCHES)   3.193      4.006      4.006       4.006
                             (AC-FT)    53.        67.        67.         67.

                         CUMULATIVE AREA =     0.31 SQ MI

      ***             ***             ***             ***             ***

                         HYDROGRAPH AT STATION    Combo1
                          FOR PLAN 1, RATIO = 2.00

   PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                       6-HR      24-HR       72-HR      24.92-HR
 +  (CFS)         (HR)
                               (CFS)
 +     344.       12.17                126.        40.        38.         38.
                            (INCHES)   3.763      4.738      4.738       4.738
                             (AC-FT)    63.        79.        79.         79.

                         CUMULATIVE AREA =     0.31 SQ MI

      ***             ***             ***             ***             ***

                         HYDROGRAPH AT STATION    Combo1
                          FOR PLAN 1, RATIO = 2.23

   PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                       6-HR      24-HR       72-HR      24.92-HR
 +  (CFS)         (HR)
                               (CFS)
 +     398.       12.17                146.        46.        44.         44.
                            (INCHES)   4.337      5.482      5.482       5.482
                             (AC-FT)    72.        91.        91.         91.

                         CUMULATIVE AREA =     0.31 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

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              *            *
   41 KK      *   Combo2   *
              *            *
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42 HC

HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

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HYDROGRAPH AT STATION Combo2
FOR PLAN 1, RATIO = 1.00

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)			
+ 121.	12.25	49.	16.	15.	15.
		(INCHES) 1.298	1.669	1.669	1.669
		(AC-FT) 24.	31.	31.	31.

CUMULATIVE AREA = 0.35 SQ MI

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HYDROGRAPH AT STATION Combo2
FOR PLAN 1, RATIO = 1.31

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)			
+ 192.	12.25	76.	24.	23.	23.
		(INCHES) 2.014	2.556	2.556	2.556
		(AC-FT) 36.	48.	48.	48.

CUMULATIVE AREA = 0.35 SQ MI

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HYDROGRAPH AT STATION Combo2
FOR PLAN 1, RATIO = 1.51

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)			
+ 242.	12.25	94.	30.	29.	29.
		(INCHES) 2.490	3.162	3.162	3.162
		(AC-FT) 47.	59.	59.	59.

CUMULATIVE AREA = 0.35 SQ MI

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HYDROGRAPH AT STATION Combo2
FOR PLAN 1, RATIO = 1.77

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)			
+ 306.	12.25	118.	37.	36.	36.
		(INCHES) 3.117	3.964	3.964	3.964
		(AC-FT) 58.	74.	74.	74.

CUMULATIVE AREA = 0.35 SQ MI

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HYDROGRAPH AT STATION Combo2
FOR PLAN 1, RATIO = 2.00

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)			
+ 364.	12.17	139.	44.	43.	43.
		(INCHES) 3.682	4.693	4.693	4.693
		(AC-FT) 69.	88.	88.	88.

CUMULATIVE AREA = 0.35 SQ MI

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HYDROGRAPH AT STATION Combo2
FOR PLAN 1, RATIO = 2.23

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

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                                     6-HR       24-HR      72-HR    24.92-HR
+    (CFS)      (HR)
                            (CFS)
+     424.      12.17                 161.        51.        49.        49.
                          (INCHES)   4.252      5.432      5.432      5.432
                           (AC-FT)     80.       102.       102.       102.

                       CUMULATIVE AREA =    0.35 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

             **************
             *            *
 43 KK       *   NPond    *
             *            *
             **************
                         Eagles Landing (North Drainage Pond)

              HYDROGRAPH ROUTING DATA

 45 RS           STORAGE ROUTING
                      NSTPS          1  NUMBER OF SUBREACHES
                       ITYP       ELEV  TYPE OF INITIAL CONDITION
                     RSVRIC     192.00  INITIAL CONDITION
                          X       0.00  WORKING R AND D COEFFICIENT

 46 SA                 AREA        2.2       2.8       3.0

 47 SE            ELEVATION     192.00    195.00    196.00

 48 SQ            DISCHARGE         0.        2.        4.       83.      230.      430.      740.     1170.     1770.

 49 SE            ELEVATION     192.00    192.50    193.00    193.50    194.00    194.50    195.00    195.50    196.00
                                                          ***

                                     COMPUTED STORAGE-ELEVATION DATA

            STORAGE       0.00      7.48     10.38
          ELEVATION     192.00    195.00    196.00
                                   COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

            STORAGE       0.00      1.12      2.30      3.52      4.79      6.11      7.48      8.91     10.38
            OUTFLOW       0.00      1.50      4.20     83.00    230.00    430.00    740.00   1170.00   1770.00
          ELEVATION     192.00    192.50    193.00    193.50    194.00    194.50    195.00    195.50    196.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN      740. TO     1770.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

        ***             ***             ***             ***             ***

                        HYDROGRAPH AT STATION     NPond
                         FOR PLAN 1, RATIO = 1.00

   PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR      72-HR    24.92-HR
+    (CFS)      (HR)
                            (CFS)
+     119.      12.50                  46.        14.        14.        14.
                          (INCHES)   1.222      1.527      1.527      1.527
                           (AC-FT)     23.        29.        29.        29.

   PEAK STORAGE  TIME                        MAXIMUM AVERAGE STORAGE
                                     6-HR       24-HR      72-HR    24.92-HR
+  (AC-FT)      (HR)
       4.      12.50                    3.         1.         1.         1.

    PEAK STAGE   TIME                        MAXIMUM AVERAGE STAGE
                                     6-HR       24-HR      72-HR    24.92-HR
+   (FEET)      (HR)
    193.62     12.50                193.25     192.64     192.61     192.61

                       CUMULATIVE AREA =    0.35 SQ MI


        ***             ***             ***             ***             ***

                        HYDROGRAPH AT STATION     NPond
                         FOR PLAN 1, RATIO = 1.31

   PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR      72-HR    24.92-HR
+    (CFS)      (HR)
                            (CFS)
+     190.      12.42                  74.        23.        22.        22.
```

	(INCHES)	1.969	2.432	2.432	2.432
	(AC-FT)	37.	46.	46.	46.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
4.	12.42	3.	2.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
193.86	12.42	193.39	192.70	192.68	192.68

CUMULATIVE AREA = 0.35 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION NPond
FOR PLAN 1, RATIO = 1.51

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 239.	12.33	(CFS) 93.	29.	28.	28.
		(INCHES) 2.466	3.037	3.037	3.037
		(AC-FT) 46.	57.	57.	57.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
5.	12.33	3.	2.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
194.02	12.33	193.47	192.75	192.72	192.72

CUMULATIVE AREA = 0.35 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION NPond
FOR PLAN 1, RATIO = 1.77

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 303.	12.33	(CFS) 118.	36.	35.	35.
		(INCHES) 3.110	3.838	3.838	3.838
		(AC-FT) 58.	72.	72.	72.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
5.	12.33	4.	2.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
194.18	12.33	193.56	192.81	192.78	192.78

CUMULATIVE AREA = 0.35 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION NPond
FOR PLAN 1, RATIO = 2.00

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 360.	12.33	(CFS) 139.	43.	42.	42.
		(INCHES) 3.678	4.566	4.566	4.566
		(AC-FT) 69.	86.	86.	86.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
6.	12.33	4.	2.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
194.35	12.33	193.63	192.86	192.83	192.83

CUMULATIVE AREA = 0.35 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION NPond
FOR PLAN 1, RATIO = 2.23

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 419.	12.33		161.	50.	48.	48.
		(INCHES)	4.249	5.304	5.304	5.304
		(AC-FT)	80.	99.	99.	99.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
6.	12.33	4.	2.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
194.47	12.33	193.71	192.91	192.88	192.88

CUMULATIVE AREA = 0.35 SQ MI

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              *            *
 50 KK        *    ESite   *
              *            *
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Proposed Residential (East of NE Middle School)

SUBBASIN RUNOFF DATA

52 BA SUBBASIN CHARACTERISTICS
TAREA 0.01 SUBBASIN AREA

PRECIPITATION DATA

10 PB STORM 3.50 BASIN TOTAL PRECIPITATION

12 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

54 LS SCS LOSS RATE
STRTL 0.67 INITIAL ABSTRACTION
CRVNBR 75.00 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

53 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.15 LAG

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UNIT HYDROGRAPH
11 END-OF-PERIOD ORDINATES

5.	13.	12.	6.	3.	1.	1.	0.	0.	0.
0.									

TOTAL RAINFALL = 3.50, TOTAL LOSS = 2.20, TOTAL EXCESS = 1.30

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 3.	12.00	(CFS) 1.	0.	0.	0.
		(INCHES) 1.052	1.302	1.302	1.302
		(AC-FT) 0.	0.	0.	0.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite
FOR PLAN 1, RATIO = 1.00

TOTAL RAINFALL = 3.50, TOTAL LOSS = 2.20, TOTAL EXCESS = 1.30

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 3.	12.00	(CFS) 1.	0.	0.	0.
		(INCHES) 1.052	1.302	1.302	1.302
		(AC-FT) 0.	0.	0.	0.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite
FOR PLAN 1, RATIO = 1.31

TOTAL RAINFALL = 4.60, TOTAL LOSS = 2.47, TOTAL EXCESS = 2.13

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 4.	12.00	(CFS) 1.	0.	0.	0.
		(INCHES) 1.728	2.129	2.129	2.129
		(AC-FT) 0.	1.	1.	1.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite
FOR PLAN 1, RATIO = 1.51

TOTAL RAINFALL = 5.30, TOTAL LOSS = 2.61, TOTAL EXCESS = 2.69

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 5.	12.00	(CFS) 1.	0.	0.	0.
		(INCHES) 2.183	2.695	2.695	2.695
		(AC-FT) 1.	1.	1.	1.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite
FOR PLAN 1, RATIO = 1.77

TOTAL RAINFALL = 6.20, TOTAL LOSS = 2.75, TOTAL EXCESS = 3.45

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 6.	12.00	(CFS) 2.	0.	0.	0.
		(INCHES) 2.785	3.453	3.453	3.453
		(AC-FT) 1.	1.	1.	1.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

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                         HYDROGRAPH AT STATION    ESite
                          FOR PLAN 1, RATIO = 2.00

   TOTAL RAINFALL =   7.00, TOTAL LOSS =   2.85, TOTAL EXCESS =   4.15

  PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+       8.     12.00                 2.          1.          1.          1.
                        (INCHES)  3.333       4.149       4.149       4.149
                         (AC-FT)     1.          1.          1.          1.

                         CUMULATIVE AREA =    0.01 SQ MI

       ***           ***           ***           ***           ***

                         HYDROGRAPH AT STATION    ESite
                          FOR PLAN 1, RATIO = 2.23

   TOTAL RAINFALL =   7.80, TOTAL LOSS =   2.94, TOTAL EXCESS =   4.86

  PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+       9.     12.00                 2.          1.          1.          1.
                        (INCHES)  3.894       4.862       4.862       4.862
                         (AC-FT)     1.          1.          1.          1.

                         CUMULATIVE AREA =    0.01 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

             **************
             *            *
  55 KK      *   Combo3   *
             *            *
             **************

  56 HC          HYDROGRAPH COMBINATION
                        ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
                                                                 ***

       ***           ***           ***           ***           ***

                         HYDROGRAPH AT STATION    Combo3
                          FOR PLAN 1, RATIO = 1.00

  PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+     119.     12.50                47.         15.         14.         14.
                        (INCHES)  1.216       1.523       1.523       1.523
                         (AC-FT)    23.         29.         29.         29.

                         CUMULATIVE AREA =    0.36 SQ MI

       ***           ***           ***           ***           ***

                         HYDROGRAPH AT STATION    Combo3
                          FOR PLAN 1, RATIO = 1.31

  PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+     191.     12.42                75.         23.         22.         22.
                        (INCHES)  1.962       2.427       2.427       2.427
                         (AC-FT)    37.         46.         46.         46.

                         CUMULATIVE AREA =    0.36 SQ MI

       ***           ***           ***           ***           ***

                         HYDROGRAPH AT STATION    Combo3
                          FOR PLAN 1, RATIO = 1.51

  PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
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                                  (CFS)
+      241.      12.33                     94.          29.          28.           28.
                                (INCHES)  2.460        3.032        3.032         3.032
                                 (AC-FT)    47.          58.          58.           58.

                              CUMULATIVE AREA =    0.36 SQ MI

          ***               ***            ***            ***            ***

                              HYDROGRAPH AT STATION    Combo3
                                FOR PLAN 1, RATIO = 1.77

   PEAK FLOW      TIME                             MAXIMUM AVERAGE FLOW
                                           6-HR        24-HR        72-HR       24.92-HR
+   (CFS)         (HR)
                                  (CFS)
+      306.      12.33                    119.          37.          35.           35.
                                (INCHES)  3.104        3.832        3.832         3.832
                                 (AC-FT)    59.          73.          73.           73.

                              CUMULATIVE AREA =    0.36 SQ MI

          ***               ***            ***            ***            ***

                              HYDROGRAPH AT STATION    Combo3
                                FOR PLAN 1, RATIO = 2.00

   PEAK FLOW      TIME                             MAXIMUM AVERAGE FLOW
                                           6-HR        24-HR        72-HR       24.92-HR
+   (CFS)         (HR)
                                  (CFS)
+      363.      12.25                    141.          44.          42.           42.
                                (INCHES)  3.672        4.559        4.559         4.559
                                 (AC-FT)    70.          87.          87.           87.

                              CUMULATIVE AREA =    0.36 SQ MI

          ***               ***            ***            ***            ***

                              HYDROGRAPH AT STATION    Combo3
                                FOR PLAN 1, RATIO = 2.23

   PEAK FLOW      TIME                             MAXIMUM AVERAGE FLOW
                                           6-HR        24-HR        72-HR       24.92-HR
+   (CFS)         (HR)
                                  (CFS)
+      423.      12.25                    163.          51.          49.           49.
                                (INCHES)  4.243        5.298        5.298         5.298
                                 (AC-FT)    81.         101.         101.          101.

                              CUMULATIVE AREA =    0.36 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

            **************
            *            *
  57 KK     *    Nsite   *
            *            *
            **************
                         NE Middle School (Off-site North of 45th Street North)

              SUBBASIN RUNOFF DATA

  59 BA        SUBBASIN CHARACTERISTICS
                  TAREA         0.21  SUBBASIN AREA

               PRECIPITATION DATA

  10 PB           STORM         3.50  BASIN TOTAL PRECIPITATION

  12 PI         INCREMENTAL PRECIPITATION PATTERN
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
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                0.00      0.00      0.04      0.04      0.04      0.04      0.04      0.04      0.04      0.04
                0.04      0.04      0.04      0.04      0.01      0.01      0.01      0.01      0.01      0.01
                0.01      0.01      0.01      0.01      0.01      0.01      0.00      0.00      0.00      0.00
                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 61 LS        SCS LOSS RATE
                 STRTL        0.50  INITIAL ABSTRACTION
                CRVNBR       80.00  CURVE NUMBER
                 RTIMP        0.00  PERCENT IMPERVIOUS AREA

 60 UD        SCS DIMENSIONLESS UNITGRAPH
                  TLAG        0.51  LAG

                                             ***

                                          UNIT HYDROGRAPH
                                     33 END-OF-PERIOD ORDINATES
          12.       36.       73.      124.      164.      184.      185.      172.      151.      124.
          93.       71.       55.       44.       35.       27.       21.       17.       13.       10.
           8.        6.        5.        4.        3.        2.        2.        2.        1.        1.
           1.        0.        0.

   TOTAL RAINFALL =    3.50, TOTAL LOSS =    1.86, TOTAL EXCESS =    1.64

  PEAK FLOW     TIME                         MAXIMUM AVERAGE FLOW
                                   6-HR        24-HR       72-HR     24.92-HR
+   (CFS)      (HR)
                          (CFS)
+      97.    12.25                 30.          9.          9.          9.
                       (INCHES)    1.319       1.634       1.634       1.634
                        (AC-FT)     15.         19.         19.         19.

                       CUMULATIVE AREA =    0.21 SQ MI

       ***          ***          ***          ***          ***

                        HYDROGRAPH AT STATION    Nsite
                          FOR PLAN 1, RATIO = 1.00

   TOTAL RAINFALL =    3.50, TOTAL LOSS =    1.86, TOTAL EXCESS =    1.64

  PEAK FLOW     TIME                         MAXIMUM AVERAGE FLOW
                                   6-HR        24-HR       72-HR     24.92-HR
+   (CFS)      (HR)
                          (CFS)
+      97.    12.25                 30.          9.          9.          9.
                       (INCHES)    1.319       1.634       1.634       1.634
                        (AC-FT)     15.         19.         19.         19.

                       CUMULATIVE AREA =    0.21 SQ MI

       ***          ***          ***          ***          ***

                        HYDROGRAPH AT STATION    Nsite
                          FOR PLAN 1, RATIO = 1.31

   TOTAL RAINFALL =    4.60, TOTAL LOSS =    2.05, TOTAL EXCESS =    2.55

  PEAK FLOW     TIME                         MAXIMUM AVERAGE FLOW
                                   6-HR        24-HR       72-HR     24.92-HR
+   (CFS)      (HR)
                          (CFS)
+     153.    12.25                 47.         15.         14.         14.
                       (INCHES)    2.049       2.544       2.544       2.544
                        (AC-FT)     23.         29.         29.         29.

                       CUMULATIVE AREA =    0.21 SQ MI

       ***          ***          ***          ***          ***

                        HYDROGRAPH AT STATION    Nsite
                          FOR PLAN 1, RATIO = 1.51

   TOTAL RAINFALL =    5.30, TOTAL LOSS =    2.14, TOTAL EXCESS =    3.16

  PEAK FLOW     TIME                         MAXIMUM AVERAGE FLOW
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                                     6-HR       24-HR      72-HR     24.92-HR
+   (CFS)      (HR)
                          (CFS)
+     190.     12.25                 58.        18.        17.         17.
                        (INCHES)    2.531      3.153      3.153       3.153
                         (AC-FT)     29.        36.        36.         36.

                         CUMULATIVE AREA =    0.21 SQ MI

      ***          ***          ***          ***          ***

                         HYDROGRAPH AT STATION    Nsite
                           FOR PLAN 1, RATIO = 1.77

   TOTAL RAINFALL =    6.20, TOTAL LOSS =    2.24, TOTAL EXCESS =    3.96

  PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR      72-HR     24.92-HR
+   (CFS)      (HR)
                          (CFS)
+     238.     12.25                 72.        23.        22.         22.
                        (INCHES)    3.162      3.958      3.958       3.958
                         (AC-FT)     36.        45.        45.         45.

                         CUMULATIVE AREA =    0.21 SQ MI

      ***          ***          ***          ***          ***

                         HYDROGRAPH AT STATION    Nsite
                           FOR PLAN 1, RATIO = 2.00

   TOTAL RAINFALL =    7.00, TOTAL LOSS =    2.31, TOTAL EXCESS =    4.69

  PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR      72-HR     24.92-HR
+   (CFS)      (HR)
                          (CFS)
+     281.     12.25                 85.        27.        26.         26.
                        (INCHES)    3.733      4.690      4.690       4.690
                         (AC-FT)     42.        53.        53.         53.

                         CUMULATIVE AREA =    0.21 SQ MI

      ***          ***          ***          ***          ***

                         HYDROGRAPH AT STATION    Nsite
                           FOR PLAN 1, RATIO = 2.23

   TOTAL RAINFALL =    7.80, TOTAL LOSS =    2.36, TOTAL EXCESS =    5.44

  PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR      72-HR     24.92-HR
+   (CFS)      (HR)
                          (CFS)
+     325.     12.17                 98.        31.        30.         30.
                        (INCHES)    4.309      5.433      5.433       5.433
                         (AC-FT)     49.        62.        62.         62.

                         CUMULATIVE AREA =    0.21 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

             **************
             *            *
  62 KK      *   Combo4   *
             *            *
             **************

  63 HC          HYDROGRAPH COMBINATION
                       ICOMP            2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                   ***

      ***          ***          ***          ***          ***

                         HYDROGRAPH AT STATION    Combo4
                           FOR PLAN 1, RATIO = 1.00

  PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
                                     6-HR       24-HR      72-HR     24.92-HR
+   (CFS)      (HR)
                          (CFS)
+     213.     12.33                 76.        24.        23.         23.
                        (INCHES)    1.241      1.565      1.565       1.565
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                        (AC-FT)     38.        48.        48.         48.

                        CUMULATIVE AREA =    0.57 SQ MI


       ***          ***          ***          ***          ***

                         HYDROGRAPH AT STATION   Combo4
                          FOR PLAN 1, RATIO = 1.31

    PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
                                     6-HR        24-HR       72-HR     24.92-HR
 +   (CFS)        (HR)
                           (CFS)
 +      341.     12.25                121.         38.         36.         36.
                        (INCHES)     1.984       2.471       2.471       2.471
                         (AC-FT)       60.         75.         75.         75.

                        CUMULATIVE AREA =    0.57 SQ MI


       ***          ***          ***          ***          ***

                         HYDROGRAPH AT STATION   Combo4
                          FOR PLAN 1, RATIO = 1.51

    PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
                                     6-HR        24-HR       72-HR     24.92-HR
 +   (CFS)        (HR)
                           (CFS)
 +      427.     12.25                152.         47.         45.         45.
                        (INCHES)     2.480       3.077       3.077       3.077
                         (AC-FT)       75.         93.         93.         93.

                        CUMULATIVE AREA =    0.57 SQ MI


       ***          ***          ***          ***          ***

                         HYDROGRAPH AT STATION   Combo4
                          FOR PLAN 1, RATIO = 1.77

    PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
                                     6-HR        24-HR       72-HR     24.92-HR
 +   (CFS)        (HR)
                           (CFS)
 +      543.     12.25                191.         59.         57.         57.
                        (INCHES)     3.124       3.879       3.879       3.879
                         (AC-FT)       95.        118.        118.        118.

                        CUMULATIVE AREA =    0.57 SQ MI


       ***          ***          ***          ***          ***

                         HYDROGRAPH AT STATION   Combo4
                          FOR PLAN 1, RATIO = 2.00

    PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
                                     6-HR        24-HR       72-HR     24.92-HR
 +   (CFS)        (HR)
                           (CFS)
 +      645.     12.25                226.         71.         68.         68.
                        (INCHES)     3.692       4.608       4.608       4.608
                         (AC-FT)      112.        140.        140.        140.

                        CUMULATIVE AREA =    0.57 SQ MI


       ***          ***          ***          ***          ***

                         HYDROGRAPH AT STATION   Combo4
                          FOR PLAN 1, RATIO = 2.23

    PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
                                     6-HR        24-HR       72-HR     24.92-HR
 +   (CFS)        (HR)
                           (CFS)
 +      747.     12.25                261.         82.         79.         79.
                        (INCHES)     4.264       5.348       5.348       5.348
                         (AC-FT)      129.        162.        162.        162.

                        CUMULATIVE AREA =    0.57 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

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              *           *
64 KK         *   ESite2  *
              *           *
              *************
                    Proposed Residential (East of NE Middle School)

              SUBBASIN RUNOFF DATA

66 BA           SUBBASIN CHARACTERISTICS
                     TAREA         0.01  SUBBASIN AREA

                PRECIPITATION DATA

10 PB                STORM         3.50  BASIN TOTAL PRECIPITATION

12 PI             INCREMENTAL PRECIPITATION PATTERN
```

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

```
68 LS           SCS LOSS RATE
                     STRTL         0.67  INITIAL ABSTRACTION
                    CRVNBR        75.00  CURVE NUMBER
                     RTIMP         0.00  PERCENT IMPERVIOUS AREA

67 UD           SCS DIMENSIONLESS UNITGRAPH
                      TLAG         0.15  LAG

                                                        ***

                                                   UNIT HYDROGRAPH
                                             11 END-OF-PERIOD ORDINATES
            8.      20.      18.      9.      5.      2.      1.      1.      0.      0.
            0.

  TOTAL RAINFALL =    3.50, TOTAL LOSS =    2.20, TOTAL EXCESS =    1.30

 PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
                                  6-HR        24-HR       72-HR     24.92-HR
+  (CFS)       (HR)
                        (CFS)
+     4.      12.00                 1.           0.          0.          0.
                      (INCHES)   1.052        1.302       1.302       1.302
                       (AC-FT)      0.           1.          1.          1.

                      CUMULATIVE AREA =    0.01 SQ MI

    ***            ***            ***            ***            ***

                      HYDROGRAPH AT STATION   ESite2
                        FOR PLAN 1, RATIO = 1.00

  TOTAL RAINFALL =    3.50, TOTAL LOSS =    2.20, TOTAL EXCESS =    1.30

 PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
                                  6-HR        24-HR       72-HR     24.92-HR
+  (CFS)       (HR)
                        (CFS)
+     4.      12.00                 1.           0.          0.          0.
                      (INCHES)   1.052        1.302       1.302       1.302
                       (AC-FT)      0.           1.          1.          1.

                      CUMULATIVE AREA =    0.01 SQ MI
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*** *** *** *** ***

HYDROGRAPH AT STATION ESite2
FOR PLAN 1, RATIO = 1.31

TOTAL RAINFALL = 4.60, TOTAL LOSS = 2.47, TOTAL EXCESS = 2.13

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)		2.	0.	0.	0.
6.	12.00				
(INCHES)		1.728	2.129	2.129	2.129
(AC-FT)		1.	1.	1.	1.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite2
FOR PLAN 1, RATIO = 1.51

TOTAL RAINFALL = 5.30, TOTAL LOSS = 2.61, TOTAL EXCESS = 2.69

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)		2.	1.	1.	1.
8.	12.00				
(INCHES)		2.183	2.695	2.695	2.695
(AC-FT)		1.	1.	1.	1.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite2
FOR PLAN 1, RATIO = 1.77

TOTAL RAINFALL = 6.20, TOTAL LOSS = 2.75, TOTAL EXCESS = 3.45

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)		2.	1.	1.	1.
10.	12.00				
(INCHES)		2.785	3.453	3.453	3.453
(AC-FT)		1.	2.	2.	2.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite2
FOR PLAN 1, RATIO = 2.00

TOTAL RAINFALL = 7.00, TOTAL LOSS = 2.85, TOTAL EXCESS = 4.15

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)		3.	1.	1.	1.
12.	12.00				
(INCHES)		3.333	4.149	4.149	4.149
(AC-FT)		1.	2.	2.	2.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite2
FOR PLAN 1, RATIO = 2.23

TOTAL RAINFALL = 7.80, TOTAL LOSS = 2.94, TOTAL EXCESS = 4.86

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)		3.	1.	1.	1.
14.	12.00				
(INCHES)		3.894	4.862	4.862	4.862
(AC-FT)		2.	2.	2.	2.

CUMULATIVE AREA = 0.01 SQ MI

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*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
69 KK     *    Site    *
          *            *
          **************
                    NE Middle School Basin

          SUBBASIN RUNOFF DATA

71 BA       SUBBASIN CHARACTERISTICS
                  TAREA       0.07  SUBBASIN AREA

            PRECIPITATION DATA

10 PB             STORM       3.50  BASIN TOTAL PRECIPITATION

12 PI         INCREMENTAL PRECIPITATION PATTERN
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.04     0.04     0.04     0.04     0.04     0.04     0.04     0.04
                0.04     0.04     0.04     0.04     0.01     0.01     0.01     0.01     0.01     0.01
                0.01     0.01     0.01     0.01     0.01     0.01     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

73 LS       SCS LOSS RATE
                  STRTL       0.50  INITIAL ABSTRACTION
                 CRVNBR      80.00  CURVE NUMBER
                  RTIMP       0.00  PERCENT IMPERVIOUS AREA

72 UD       SCS DIMENSIONLESS UNITGRAPH
                   TLAG       0.27  LAG

                                                   ***

                                          UNIT HYDROGRAPH
                                      18 END-OF-PERIOD ORDINATES
            17.      57.      98.     105.      88.      59.      37.      24.      15.      10.
             6.       4.       3.       2.       1.       1.       0.       0.

   TOTAL RAINFALL =    3.50, TOTAL LOSS =    1.86, TOTAL EXCESS =    1.64

   PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                     6-HR      24-HR       72-HR      24.92-HR
+    (CFS)       (HR)
                          (CFS)
+      37.      12.08                10.         3.          3.          3.
                        (INCHES)   1.325      1.636       1.636       1.636
                         (AC-FT)      5.         6.          6.          6.

                        CUMULATIVE AREA =    0.07 SQ MI

      ***          ***          ***          ***          ***

                        HYDROGRAPH AT STATION      Site
                          FOR PLAN 1, RATIO = 1.00

   TOTAL RAINFALL =    3.50, TOTAL LOSS =    1.86, TOTAL EXCESS =    1.64

   PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                     6-HR      24-HR       72-HR      24.92-HR
+    (CFS)       (HR)
                          (CFS)
```

			10.	3.	3.	3.
+	37.	12.08	(INCHES) 1.325	1.636	1.636	1.636
			(AC-FT) 5.	6.	6.	6.

CUMULATIVE AREA = 0.07 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Site
FOR PLAN 1, RATIO = 1.31

TOTAL RAINFALL = 4.60, TOTAL LOSS = 2.05, TOTAL EXCESS = 2.55

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 57.	12.08		15.	5.	4.	4.
		(INCHES)	2.054	2.547	2.547	2.547
		(AC-FT)	7.	9.	9.	9.

CUMULATIVE AREA = 0.07 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Site
FOR PLAN 1, RATIO = 1.51

TOTAL RAINFALL = 5.30, TOTAL LOSS = 2.14, TOTAL EXCESS = 3.16

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 71.	12.08		19.	6.	6.	6.
		(INCHES)	2.534	3.156	3.156	3.156
		(AC-FT)	9.	11.	11.	11.

CUMULATIVE AREA = 0.07 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Site
FOR PLAN 1, RATIO = 1.77

TOTAL RAINFALL = 6.20, TOTAL LOSS = 2.24, TOTAL EXCESS = 3.96

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 88.	12.08		23.	7.	7.	7.
		(INCHES)	3.167	3.962	3.962	3.962
		(AC-FT)	12.	14.	14.	14.

CUMULATIVE AREA = 0.07 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Site
FOR PLAN 1, RATIO = 2.00

TOTAL RAINFALL = 7.00, TOTAL LOSS = 2.31, TOTAL EXCESS = 4.69

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 103.	12.00		27.	9.	8.	8.
		(INCHES)	3.739	4.694	4.694	4.694
		(AC-FT)	14.	17.	17.	17.

CUMULATIVE AREA = 0.07 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Site
FOR PLAN 1, RATIO = 2.23

TOTAL RAINFALL = 7.80, TOTAL LOSS = 2.36, TOTAL EXCESS = 5.44

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 119.	12.00		32.	10.	10.	10.

```
                    (INCHES)    4.317      5.438      5.438      5.438
                     (AC-FT)      16.        20.        20.        20.

                    CUMULATIVE AREA =    0.07 SQ MI



*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

          **************
          *            *
  74 KK   *   Combo5   *
          *            *
          **************

  75 HC          HYDROGRAPH COMBINATION
                       ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                  ***

       ***            ***           ***           ***          ***

                    HYDROGRAPH AT STATION    Combo5
                     FOR PLAN 1, RATIO = 1.00

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                      6-HR       24-HR       72-HR       24.92-HR
+   (CFS)       (HR)
                           (CFS)
+       41.     12.08                  11.          3.          3.           3.
                         (INCHES)    1.296       1.600       1.600        1.600
                          (AC-FT)       5.          7.          7.           7.

                        CUMULATIVE AREA =    0.08 SQ MI

       ***            ***           ***           ***          ***

                    HYDROGRAPH AT STATION    Combo5
                     FOR PLAN 1, RATIO = 1.31

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                      6-HR       24-HR       72-HR       24.92-HR
+   (CFS)       (HR)
                           (CFS)
+       63.     12.08                  17.          5.          5.           5.
                         (INCHES)    2.018       2.502       2.502        2.502
                          (AC-FT)       8.         10.         10.          10.

                        CUMULATIVE AREA =    0.08 SQ MI

       ***            ***           ***           ***          ***

                    HYDROGRAPH AT STATION    Combo5
                     FOR PLAN 1, RATIO = 1.51

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                      6-HR       24-HR       72-HR       24.92-HR
+   (CFS)       (HR)
                           (CFS)
+       78.     12.00                  21.          6.          6.           6.
                         (INCHES)    2.496       3.106       3.106        3.106
                          (AC-FT)      10.         13.         13.          13.

                        CUMULATIVE AREA =    0.08 SQ MI

       ***            ***           ***           ***          ***

                    HYDROGRAPH AT STATION    Combo5
                     FOR PLAN 1, RATIO = 1.77

  PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                      6-HR       24-HR       72-HR       24.92-HR
+   (CFS)       (HR)
                           (CFS)
+       98.     12.00                  26.          8.          8.           8.
                         (INCHES)    3.125       3.907       3.907        3.907
                          (AC-FT)      13.         16.         16.          16.

                        CUMULATIVE AREA =    0.08 SQ MI

       ***            ***           ***           ***          ***

                    HYDROGRAPH AT STATION    Combo5
                     FOR PLAN 1, RATIO = 2.00
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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 115.	12.00		30.	10.	9.	9.
		(INCHES)	3.695	4.635	4.635	4.635
		(AC-FT)	15.	19.	19.	19.

CUMULATIVE AREA = 0.08 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo5
FOR PLAN 1, RATIO = 2.23

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 133.	12.00		35.	11.	11.	11.
		(INCHES)	4.271	5.375	5.375	5.375
		(AC-FT)	17.	22.	22.	22.

CUMULATIVE AREA = 0.08 SQ MI

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          **************
          *            *
76 KK     *    Wsite   *
          *            *
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NE Middle School (West Off-site Basin)

SUBBASIN RUNOFF DATA

78 BA SUBBASIN CHARACTERISTICS
TAREA 0.05 SUBBASIN AREA

PRECIPITATION DATA

10 PB STORM 3.50 BASIN TOTAL PRECIPITATION

12 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

80 LS SCS LOSS RATE

STRTL	0.50	INITIAL ABSTRACTION
CRVNBR	80.00	CURVE NUMBER
RTIMP	0.00	PERCENT IMPERVIOUS AREA

79 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.29 LAG

***

UNIT HYDROGRAPH
19 END-OF-PERIOD ORDINATES

11.	37.	69.	78.	69.	52.	33.	22.	15.	10.
6.	4.	3.	2.	1.	1.	1.	0.	0.	

TOTAL RAINFALL = 3.50, TOTAL LOSS = 1.86, TOTAL EXCESS = 1.64

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
+ 29.	12.08	(CFS)	8.	2.	2.	2.
		(INCHES)	1.325	1.636	1.636	1.636
		(AC-FT)	4.	5.	5.	5.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Wsite
FOR PLAN 1, RATIO = 1.00

TOTAL RAINFALL = 3.50, TOTAL LOSS = 1.86, TOTAL EXCESS = 1.64

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
+ 29.	12.08	(CFS)	8.	2.	2.	2.
		(INCHES)	1.325	1.636	1.636	1.636
		(AC-FT)	4.	5.	5.	5.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Wsite
FOR PLAN 1, RATIO = 1.31

TOTAL RAINFALL = 4.60, TOTAL LOSS = 2.05, TOTAL EXCESS = 2.55

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
+ 44.	12.08	(CFS)	12.	4.	4.	4.
		(INCHES)	2.053	2.547	2.547	2.547
		(AC-FT)	6.	7.	7.	7.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Wsite
FOR PLAN 1, RATIO = 1.51

TOTAL RAINFALL = 5.30, TOTAL LOSS = 2.14, TOTAL EXCESS = 3.16

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
+ 55.	12.08	(CFS)	15.	5.	4.	4.
		(INCHES)	2.534	3.156	3.156	3.156
		(AC-FT)	7.	9.	9.	9.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Wsite
FOR PLAN 1, RATIO = 1.77

TOTAL RAINFALL = 6.20, TOTAL LOSS = 2.24, TOTAL EXCESS = 3.96

PEAK FLOW (CFS)	TIME (HR)		MAXIMUM AVERAGE FLOW 6-HR	24-HR	72-HR	24.92-HR
+ 68.	12.08	(CFS)	18.	6.	5.	5.
		(INCHES)	3.167	3.962	3.962	3.962
		(AC-FT)	9.	11.	11.	11.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Wsite

```
                              FOR PLAN 1, RATIO = 2.00

      TOTAL RAINFALL =     7.00, TOTAL LOSS =    2.31, TOTAL EXCESS =    4.69

    PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                         6-HR       24-HR      72-HR      24.92-HR
 +   (CFS)         (HR)
                              (CFS)
 +       80.       12.08                  21.         7.         6.           6.
                            (INCHES)     3.739      4.694      4.694        4.694
                             (AC-FT)      11.        13.        13.          13.

                              CUMULATIVE AREA =    0.05 SQ MI

        ***              ***             ***              ***              ***

                              HYDROGRAPH AT STATION     Wsite
                               FOR PLAN 1, RATIO = 2.23

      TOTAL RAINFALL =     7.80, TOTAL LOSS =    2.36, TOTAL EXCESS =    5.44

    PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                         6-HR       24-HR      72-HR      24.92-HR
 +   (CFS)         (HR)
                              (CFS)
 +       92.       12.08                  25.         8.         8.           8.
                            (INCHES)     4.316      5.437      5.437        5.437
                             (AC-FT)      12.        15.        15.          15.

                              CUMULATIVE AREA =    0.05 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

              **************
              *            *
   81 KK      *   Combo6   *
              *            *
              **************

   82 HC              HYDROGRAPH COMBINATION
                           ICOMP            3  NUMBER OF HYDROGRAPHS TO COMBINE
                                                                        ***

        ***              ***             ***              ***              ***

                              HYDROGRAPH AT STATION     Combo6
                               FOR PLAN 1, RATIO = 1.00

    PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                         6-HR       24-HR      72-HR      24.92-HR
 +   (CFS)         (HR)
                              (CFS)
 +      266.       12.25                  94.        30.        29.          29.
                            (INCHES)     1.249      1.574      1.574        1.574
                             (AC-FT)      47.        59.        59.          59.

                              CUMULATIVE AREA =    0.70 SQ MI

        ***              ***             ***              ***              ***

                              HYDROGRAPH AT STATION     Combo6
                               FOR PLAN 1, RATIO = 1.31

    PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                         6-HR       24-HR      72-HR      24.92-HR
 +   (CFS)         (HR)
                              (CFS)
 +      433.       12.17                 149.        47.        45.          45.
                            (INCHES)     1.988      2.480      2.480        2.480
                             (AC-FT)      74.        92.        92.          92.

                              CUMULATIVE AREA =    0.70 SQ MI

        ***              ***             ***              ***              ***

                              HYDROGRAPH AT STATION     Combo6
                               FOR PLAN 1, RATIO = 1.51

    PEAK FLOW      TIME                          MAXIMUM AVERAGE FLOW
                                         6-HR       24-HR      72-HR      24.92-HR
 +   (CFS)         (HR)
                              (CFS)
 +      541.       12.17                 187.        58.        56.          56.
```

(INCHES)	2.481	3.086	3.086	3.086	
(AC-FT)	93.	115.	115.	115.	

CUMULATIVE AREA = 0.70 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo6
FOR PLAN 1, RATIO = 1.77

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)					
688.	12.17	235.	73.	70.	70.
(INCHES)		3.125	3.889	3.889	3.889
(AC-FT)		117.	145.	145.	145.

CUMULATIVE AREA = 0.70 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo6
FOR PLAN 1, RATIO = 2.00

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)					
818.	12.17	278.	87.	84.	84.
(INCHES)		3.695	4.618	4.618	4.618
(AC-FT)		138.	172.	172.	172.

CUMULATIVE AREA = 0.70 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo6
FOR PLAN 1, RATIO = 2.23

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)					
947.	12.17	321.	101.	97.	97.
(INCHES)		4.265	5.358	5.358	5.358
(AC-FT)		159.	200.	200.	200.

CUMULATIVE AREA = 0.70 SQ MI

1

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION					
					RATIO 1 1.00	RATIO 2 1.31	RATIO 3 1.51	RATIO 4 1.77	RATIO 5 2.00	RATIO 6 2.23
HYDROGRAPH AT										
+	Center	0.04	1	FLOW	21.	33.	41.	51.	60.	69.
				TIME	12.00	12.00	12.00	12.00	12.00	12.00
ROUTED TO										
+	CPond	0.04	1	FLOW	5.	9.	13.	18.	22.	28.
				TIME	13.17	13.08	12.58	12.50	12.42	12.42
				** PEAK STAGES IN FEET **						
			1	STAGE	197.94	198.46	198.76	199.15	199.50	199.82
				TIME	13.17	13.08	12.58	12.50	12.42	12.42
HYDROGRAPH AT										
+	East	0.22	1	FLOW	91.	141.	174.	217.	255.	294.
				TIME	12.50	12.50	12.50	12.42	12.42	12.42
HYDROGRAPH AT										
+	OneSit	0.05	1	FLOW	27.	41.	50.	63.	73.	84.
				TIME	12.00	12.00	12.00	12.00	12.00	12.00
HYDROGRAPH AT										
+	North	0.05	1	FLOW	17.	29.	37.	48.	58.	68.
				TIME	12.17	12.17	12.17	12.17	12.17	12.17
3 COMBINED AT										
+	Combo1	0.31	1	FLOW	116.	184.	229.	290.	344.	398.
				TIME	12.25	12.25	12.17	12.17	12.17	12.17

2 COMBINED AT										
+	Combo2	0.35	1	FLOW	121.	192.	242.	306.	364.	424.
				TIME	12.25	12.25	12.25	12.25	12.17	12.17
ROUTED TO										
+	NPond	0.35	1	FLOW	119.	190.	239.	303.	360.	419.
				TIME	12.50	12.42	12.33	12.33	12.33	12.33
			** PEAK STAGES IN FEET **							
			1	STAGE	193.62	193.86	194.02	194.18	194.33	194.47
				TIME	12.50	12.42	12.33	12.33	12.33	12.33
HYDROGRAPH AT										
+	ESite	0.01	1	FLOW	3.	4.	5.	6.	8.	9.
				TIME	12.00	12.00	12.00	12.00	12.00	12.00
2 COMBINED AT										
+	Combo3	0.36	1	FLOW	119.	191.	241.	306.	363.	423.
				TIME	12.50	12.42	12.33	12.33	12.25	12.25
HYDROGRAPH AT										
+	Nsite	0.21	1	FLOW	97.	153.	190.	238.	281.	325.
				TIME	12.25	12.25	12.25	12.25	12.25	12.17
2 COMBINED AT										
+	Combo4	0.57	1	FLOW	213.	341.	427.	543.	645.	747.
				TIME	12.33	12.25	12.25	12.25	12.25	12.25
HYDROGRAPH AT										
+	ESite2	0.01	1	FLOW	4.	6.	8.	10.	12.	14.
				TIME	12.00	12.00	12.00	12.00	12.00	12.00
HYDROGRAPH AT										
+	Site	0.07	1	FLOW	37.	57.	71.	88.	103.	119.
				TIME	12.08	12.08	12.08	12.08	12.00	12.00
2 COMBINED AT										
+	Combo5	0.08	1	FLOW	41.	63.	78.	98.	115.	133.
				TIME	12.08	12.08	12.00	12.00	12.00	12.00
HYDROGRAPH AT										
+	Wsite	0.05	1	FLOW	29.	44.	55.	68.	80.	92.
				TIME	12.08	12.08	12.08	12.08	12.08	12.08
3 COMBINED AT										
+	Combo6	0.70	1	FLOW	266.	433.	541.	688.	818.	947.
				TIME	12.25	12.17	12.17	12.17	12.17	12.17

*** NORMAL END OF HEC-1 ***

```
*****************************************                    *****************************************
*                                       *                    *                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *                    *   U.S. ARMY CORPS OF ENGINEERS        *
*              MAY  1991                *                    *   HYDROLOGIC ENGINEERING CENTER       *
*           VERSION 4.0.1E              *                    *         609 SECOND STREET             *
*    Lahey F77L-EM/32 version 5.01      *                    *     DAVIS, CALIFORNIA 95616           *
*      Dodson & Associates, Inc.        *                    *         (916) 551-1748                *
*  RUN DATE  11/29/01  TIME  07:32:39   *                    *                                       *
*****************************************                    *****************************************

                  X     X  XXXXXXX   XXXXX           X
                  X     X  X        X     X         XX
                  X     X  X        X                X
                  XXXXXXX  XXXX     X        XXXXX   X
                  X     X  X        X                X
                  X     X  X        X     X          X
                  X     X  XXXXXXX   XXXXX          XXX

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE.
THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL   LOSS RATE:GREEN AND AMPT INFILTRATION
KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

1                                        HEC-1 INPUT                                              PAGE  1

  LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

    1         ID  Northeast Middle School Addiiton
    2         ID  Post-Developed Conditions
    3         ID  SCS Method - 2,5,10,25,50, & 100 YR Storm Event
    4         IT       5 20NOV01    0000     300                      2000
    5         IO       3       0
    6         JR    PREC  1.0000  1.3143  1.5143  1.7714  2.0000  2.2286
              *Diagram
              *

    7         KK  Center
    8         KM  Eagles Landing (Center Basin)
    9         BA    .039
   10         PB     3.5
   11         IN      60
   12         PC       0   0.011   0.022   0.035   0.048   0.063   0.080   0.098   0.120   0.147
   13         PC   0.181   0.235   0.663   0.772   0.820   0.854   0.880   0.902   0.921   0.937
   14         PC   0.952   0.965   0.978   0.989   1.000
   15         UD     .20
   16         LS       0      79
              *

   17         KK   CPond
   18         KM  Eagles Landing (Center Pond)
   19         RS       1    ELEV
   20         SA     1.4     1.8     2.0     2.2
   21         SE     197     200     201     202
   22         SQ       0       7      10      13      16      20      22      32      36      42
   23         SE   197.0  198.25   198.5  198.75   199.0  199.25   199.5   200.0  200.75   201.5
              *

   24         KK    East
   25         KM  Eagles Landing (East Off-site Drainage)
   26         BA  .21875
   27         UD     .79
   28         LS       0      82
              *

   29         KK  OneSit
   30         KM  Eagles Landing (North Basin)
   31         BA  .046875
   32         UD      .2
   33         LS       0      80
              *

   34         KK   North
   35         KM  Eagles Landing (North Off-site Drainage)
   36         BA  .046875
   37         UD     .39
   38         LS       0      74
              *
1                                        HEC-1 INPUT                                              PAGE  2

  LINE        ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10
```

```
             39            KK  Combo1
             40            HC       3
                           *

             41            KK  Combo2
             42            HC       2
                           *

             43            KK   NPond
             44            KM  Eagles Landing (North Drainage Pond)
             45            RS       1     ELEV   192.0
             46            SA     2.2      2.8       3
             47            SE     192      195     196
             48            SQ       0      1.5     4.2      83     230     430     740    1170    1770
             49            SE   192.0    192.5   193.0   193.5   194.0   194.5   195.0   195.5   196.0
                           *

             50            KK   ESite
             51            KM  Proposed Residential (East of NE Middle School)
             52            BA  .00531
             53            UD     .15
             54            LS       0       75
                           *

             55            KK  Combo3
             56            HC       2
                           *

             57            KK   Nsite
             58            KM  NE Middle School (Off-site North of 45th Street North)
             59            BA  0.2125
             60            UD     .51
             61            LS       0       80
                           *

             62            KK  Combo4
             63            HC       2
                           *

             64            KK  ESite2
             65            KM  Proposed Residential (East of NE Middle School)
             66            BA  .00828
             67            UD     .15
             68            LS       0       75
                           *

             69            KK    Site
             70            KM  NE Middle School Basin
             71            BA  .06813
             72            UD     .15
             73            LS       0       88
                           *
1                                                HEC-1 INPUT                                        PAGE  3

         LINE              ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

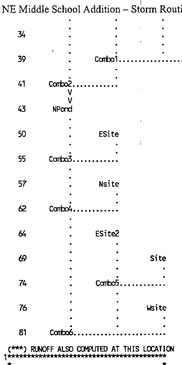
             74            KK  Combo5
             75            HC       2
                           *

             76            KK   Wsite
             77            KM  NE Middle School (West Off-site Basin)
             78            BA  .05344
             79            UD     .29
             80            LS       0       80
                           *

             81            KK  Combo6
             82            HC       3
                           *
             83            ZZ
1
              SCHEMATIC DIAGRAM OF STREAM NETWORK
 INPUT
  LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

   NO.      (.) CONNECTOR        (<---) RETURN OF DIVERTED OR PUMPED FLOW

     7      Center
                V
                V
    17       CPond
                .
                .
    24          .         East
                .            .
                .            .
    29          .            .         OneSit
```



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
**************************************
*                                    *
*  FLOOD HYDROGRAPH PACKAGE  (HEC-1) *
*            MAY  1991               *
*         VERSION 4.0.1E             *
*    Lahey F77L-EM/32 version 5.01   *
*      Dodson & Associates, Inc.     *
* RUN DATE 11/29/01 TIME 07:32:39    *
*                                    *
**************************************
```

```
**********************************
*                                *
*  U.S. ARMY CORPS OF ENGINEERS  *
*  HYDROLOGIC ENGINEERING CENTER *
*       609 SECOND STREET        *
*     DAVIS, CALIFORNIA 95616    *
*           (916) 551-1748       *
*                                *
**********************************
```

Northeast Middle School Addition
Post-Developed Conditions
SCS Method - 2,5,10,25,50, & 100 YR Storm Event

```
5 IO        OUTPUT CONTROL VARIABLES
              IPRNT      3  PRINT CONTROL
              IPLOT      0  PLOT CONTROL
              QSCAL      0.  HYDROGRAPH PLOT SCALE

 IT         HYDROGRAPH TIME DATA
              NMIN         5  MINUTES IN COMPUTATION INTERVAL
              IDATE   20NOV 1  STARTING DATE
              ITIME     0000  STARTING TIME
              NQ         300  NUMBER OF HYDROGRAPH ORDINATES
              NDATE   21NOV 1  ENDING DATE
              NDTIME    0055  ENDING TIME
              ICENT       20  CENTURY MARK

            COMPUTATION INTERVAL    0.08 HOURS
              TOTAL TIME BASE   24.92 HOURS

      ENGLISH UNITS
          DRAINAGE AREA         SQUARE MILES
          PRECIPITATION DEPTH   INCHES
          LENGTH, ELEVATION     FEET
          FLOW                  CUBIC FEET PER SECOND
          STORAGE VOLUME        ACRE-FEET
          SURFACE AREA          ACRES
          TEMPERATURE           DEGREES FAHRENHEIT

 JP         MULTI-PLAN OPTION
              NPLAN         1  NUMBER OF PLANS

 JR         MULTI-RATIO OPTION
              RATIOS OF PRECIPITATION
              1.00     1.31     1.51     1.77     2.00     2.23
```

```
*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

            **************
            *            *
  7 KK      *   Center   *
            *            *
            **************
                  Eagles Landing (Center Basin)

 11 IN          TIME DATA FOR INPUT TIME SERIES
                      JXMIN          60  TIME INTERVAL IN MINUTES
                      JXDATE     20NOV 1  STARTING DATE
                      JXTIME          0  STARTING TIME

             SUBBASIN RUNOFF DATA

  9 BA          SUBBASIN CHARACTERISTICS
                      TAREA        0.04  SUBBASIN AREA

                PRECIPITATION DATA

 10 PB                STORM        3.50  BASIN TOTAL PRECIPITATION

 12 PI           INCREMENTAL PRECIPITATION PATTERN
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.04    0.04    0.04    0.04    0.04    0.04    0.04    0.04
                   0.04    0.04    0.04    0.04    0.01    0.01    0.01    0.01    0.01    0.01
                   0.01    0.01    0.01    0.01    0.01    0.01    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                   0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00

 16 LS          SCS LOSS RATE
                      STRTL        0.53  INITIAL ABSTRACTION
                     CRVNBR       79.00  CURVE NUMBER
                      RTIMP        0.00  PERCENT IMPERVIOUS AREA

 15 UD          SCS DIMENSIONLESS UNITGRAPH
                       TLAG        0.20  LAG

                                                   ***

                                            UNIT HYDROGRAPH
                                         14 END-OF-PERIOD ORDINATES
               19.      63.      78.      62.      35.      20.      11.       6.       4.       2.
                1.       1.       0.       0.

    TOTAL RAINFALL =    3.50, TOTAL LOSS =    1.93, TOTAL EXCESS =    1.57

  PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
                                  6-HR        24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+     21.      12.00                 5.          2.          2.          2.
                        (INCHES)  1.270       1.566       1.566       1.566
                         (AC-FT)     3.          3.          3.          3.

                       CUMULATIVE AREA =    0.04 SQ MI

       ***           ***           ***           ***           ***

                        HYDROGRAPH AT STATION   Center
                          FOR PLAN 1, RATIO = 1.00
```

```
     TOTAL RAINFALL =    3.50, TOTAL LOSS =    1.93, TOTAL EXCESS =    1.57

   PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR       72-HR      24.92-HR
 +  (CFS)       (HR)
                              (CFS)
 +      21.     12.00                     5.          2.          2.           2.
                           (INCHES)    1.270       1.566       1.566        1.566
                            (AC-FT)       3.          3.          3.           3.

                             CUMULATIVE AREA =    0.04 SQ MI


        ***         ***         ***         ***         ***

                              HYDROGRAPH AT STATION   Center
                                FOR PLAN 1, RATIO = 1.31

     TOTAL RAINFALL =    4.60, TOTAL LOSS =    2.14, TOTAL EXCESS =    2.46

   PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR       72-HR      24.92-HR
 +  (CFS)       (HR)
                              (CFS)
 +      33.     12.00                     8.          3.          2.           2.
                           (INCHES)    1.988       2.461       2.461        2.461
                            (AC-FT)       4.          5.          5.           5.

                             CUMULATIVE AREA =    0.04 SQ MI


        ***         ***         ***         ***         ***

                              HYDROGRAPH AT STATION   Center
                                FOR PLAN 1, RATIO = 1.51

     TOTAL RAINFALL =    5.30, TOTAL LOSS =    2.24, TOTAL EXCESS =    3.06

   PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR       72-HR      24.92-HR
 +  (CFS)       (HR)
                              (CFS)
 +      41.     12.00                    10.          3.          3.           3.
                           (INCHES)    2.464       3.062       3.062        3.062
                            (AC-FT)       5.          6.          6.           6.

                             CUMULATIVE AREA =    0.04 SQ MI


        ***         ***         ***         ***         ***

                              HYDROGRAPH AT STATION   Center
                                FOR PLAN 1, RATIO = 1.77

     TOTAL RAINFALL =    6.20, TOTAL LOSS =    2.34, TOTAL EXCESS =    3.86

   PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR       72-HR      24.92-HR
 +  (CFS)       (HR)
                              (CFS)
 +      51.     12.00                    13.          4.          4.           4.
                           (INCHES)    3.090       3.859       3.859        3.859
                            (AC-FT)       6.          8.          8.           8.

                             CUMULATIVE AREA =    0.04 SQ MI


        ***         ***         ***         ***         ***

                              HYDROGRAPH AT STATION   Center
                                FOR PLAN 1, RATIO = 2.00

     TOTAL RAINFALL =    7.00, TOTAL LOSS =    2.42, TOTAL EXCESS =    4.58

   PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR       72-HR      24.92-HR
 +  (CFS)       (HR)
                              (CFS)
 +      60.     12.00                    15.          5.          5.           5.
                           (INCHES)    3.659       4.584       4.584        4.584
                            (AC-FT)       8.         10.         10.          10.

                             CUMULATIVE AREA =    0.04 SQ MI


        ***         ***         ***         ***         ***

                              HYDROGRAPH AT STATION   Center
                                FOR PLAN 1, RATIO = 2.23

     TOTAL RAINFALL =    7.80, TOTAL LOSS =    2.48, TOTAL EXCESS =    5.32
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 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
+  (CFS)       (HR)
                          (CFS)
+      69.     12.00                18.          6.          5.          5.
                        (INCHES)   4.235      5.322       5.322       5.322
                         (AC-FT)     9.         11.         11.         11.

                        CUMULATIVE AREA =    0.04 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

            **************
            *            *
  17 KK     *    CPond   *
            *            *
            **************
                      Eagles Landing (Center Pond)

               HYDROGRAPH ROUTING DATA

  19 RS          STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       ELEV  TYPE OF INITIAL CONDITION
                    RSVRIC       0.00  INITIAL CONDITION
                         X       0.00 WORKING R AND D COEFFICIENT

  20 SA               AREA      1.4      1.8      2.0      2.2

  21 SE          ELEVATION   197.00   200.00   201.00   202.00

  22 SQ          DISCHARGE       0.       7.      10.      13.      16.      20.      22.      32.      36.      42.

  23 SE          ELEVATION   197.00   198.25   198.50   198.75   199.00   199.25   199.50   200.00   200.75   201.50

                                                   ***

                                    COMPUTED STORAGE-ELEVATION DATA

           STORAGE       0.00      4.79      6.69      8.79
         ELEVATION     197.00    200.00    201.00    202.00

                                  COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

           STORAGE       0.00      1.85      2.24      2.65      3.06      3.48      3.91      4.79      6.19      6.69
           OUTFLOW       0.00      7.00     10.00     13.00     16.00     20.00     22.00     32.00     36.00     38.00
         ELEVATION     197.00    198.25    198.50    198.75    199.00    199.25    199.50    200.00    200.75    201.00

           STORAGE       7.71      8.79
           OUTFLOW      42.00     46.00
         ELEVATION     201.50    202.00
     ***          ***          ***          ***          ***

                      HYDROGRAPH AT STATION     CPond
                        FOR PLAN 1, RATIO = 1.00

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
+  (CFS)       (HR)
                          (CFS)
+       5.     13.17                 4.          2.          1.          1.
                        (INCHES)   0.968      1.454       1.454       1.454
                         (AC-FT)     2.          3.          3.          3.

PEAK STORAGE   TIME                        MAXIMUM AVERAGE STORAGE
                                   6-HR       24-HR       72-HR     24.92-HR
+ (AC-FT)      (HR)
       1.      13.17                 1.          0.          0.          0.

 PEAK STAGE    TIME                         MAXIMUM AVERAGE STAGE
                                   6-HR       24-HR       72-HR     24.92-HR
+  (FEET)      (HR)
   197.94      13.17              197.72      197.27      197.26      197.26

                        CUMULATIVE AREA =    0.04 SQ MI

     ***          ***          ***          ***          ***

                      HYDROGRAPH AT STATION     CPond
                        FOR PLAN 1, RATIO = 1.31

 PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
```

	6-HR	24-HR	72-HR	24.92-HR
+ (CFS) (HR)				
+ 9. 13.08 (CFS)	7.	2.	2.	2.
(INCHES)	1.558	2.299	2.299	2.299
(AC-FT)	3.	5.	5.	5.

PEAK STORAGE TIME — MAXIMUM AVERAGE STORAGE

+ (AC-FT) (HR)	6-HR	24-HR	72-HR	24.92-HR
2. 13.00	2.	1.	1.	1.

PEAK STAGE TIME — MAXIMUM AVERAGE STAGE

+ (FEET) (HR)	6-HR	24-HR	72-HR	24.92-HR
198.46 13.08	198.11	197.42	197.40	197.40

CUMULATIVE AREA = 0.04 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION CPond
FOR PLAN 1, RATIO = 1.51

PEAK FLOW TIME — MAXIMUM AVERAGE FLOW

+ (CFS) (HR)	6-HR	24-HR	72-HR	24.92-HR
+ 13. 12.58 (CFS)	8.	3.	3.	3.
(INCHES)	1.985	2.870	2.870	2.870
(AC-FT)	4.	6.	6.	6.

PEAK STORAGE TIME — MAXIMUM AVERAGE STORAGE

+ (AC-FT) (HR)	6-HR	24-HR	72-HR	24.92-HR
3. 12.58	2.	1.	1.	1.

PEAK STAGE TIME — MAXIMUM AVERAGE STAGE

+ (FEET) (HR)	6-HR	24-HR	72-HR	24.92-HR
198.76 12.58	198.30	197.49	197.47	197.47

CUMULATIVE AREA = 0.04 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION CPond
FOR PLAN 1, RATIO = 1.77

PEAK FLOW TIME — MAXIMUM AVERAGE FLOW

+ (CFS) (HR)	6-HR	24-HR	72-HR	24.92-HR
+ 18. 12.50 (CFS)	11.	4.	4.	4.
(INCHES)	2.561	3.631	3.631	3.631
(AC-FT)	5.	8.	8.	8.

PEAK STORAGE TIME — MAXIMUM AVERAGE STORAGE

+ (AC-FT) (HR)	6-HR	24-HR	72-HR	24.92-HR
3. 12.50	2.	1.	1.	1.

PEAK STAGE TIME — MAXIMUM AVERAGE STAGE

+ (FEET) (HR)	6-HR	24-HR	72-HR	24.92-HR
199.15 12.50	198.53	197.58	197.56	197.56

CUMULATIVE AREA = 0.04 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION CPond
FOR PLAN 1, RATIO = 2.00

PEAK FLOW TIME — MAXIMUM AVERAGE FLOW

+ (CFS) (HR)	6-HR	24-HR	72-HR	24.92-HR
+ 22. 12.42 (CFS)	13.	5.	4.	4.
(INCHES)	3.097	4.326	4.326	4.326
(AC-FT)	6.	9.	9.	9.

PEAK STORAGE TIME — MAXIMUM AVERAGE STORAGE

+ (AC-FT) (HR)	6-HR	24-HR	72-HR	24.92-HR
4. 12.42	3.	1.	1.	1.

PEAK STAGE TIME — MAXIMUM AVERAGE STAGE

```
                                      6-HR      24-HR      72-HR    24.92-HR
+  (FEET)     (HR)
   199.50     12.42                 198.73     197.66     197.64     197.64

                         CUMULATIVE AREA =    0.04 SQ MI


       ***             ***             ***             ***             ***

                          HYDROGRAPH AT STATION    CPond
                           FOR PLAN 1, RATIO = 2.23

  PEAK FLOW      TIME                           MAXIMUM AVERAGE FLOW
                                      6-HR      24-HR      72-HR    24.92-HR
+  (CFS)        (HR)
                            (CFS)
+      28.      12.42                   15.         5.         5.         5.
                          (INCHES)    3.650      5.034      5.034      5.034
                           (AC-FT)       8.        10.        10.        10.

 PEAK STORAGE    TIME                         MAXIMUM AVERAGE STORAGE
                                      6-HR      24-HR      72-HR    24.92-HR
+ (AC-FT)       (HR)
        4.      12.42                    3.         1.         1.         1.

  PEAK STAGE     TIME                         MAXIMUM AVERAGE STAGE
                                      6-HR      24-HR      72-HR    24.92-HR
+  (FEET)       (HR)
   199.82      12.42                198.90     197.73     197.71     197.71

                         CUMULATIVE AREA =    0.04 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***


               ***************
               *             *
  24 KK        *      East   *
               *             *
               ***************
                           Eagles Landing (East Off-site Drainage)

                SUBBASIN RUNOFF DATA

  26 BA           SUBBASIN CHARACTERISTICS
                        TAREA          0.22  SUBBASIN AREA

                  PRECIPITATION DATA

  10 PB                 STORM          3.50  BASIN TOTAL PRECIPITATION

  12 PI              INCREMENTAL PRECIPITATION PATTERN
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.04      0.04      0.04      0.04      0.04      0.04      0.04      0.04
                        0.04      0.04      0.04      0.04      0.01      0.01      0.01      0.01      0.01      0.01
                        0.01      0.01      0.01      0.01      0.01      0.01      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
                        0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

  28 LS           SCS LOSS RATE
                       STRTL           0.44  INITIAL ABSTRACTION
                      CRVNBR          82.00  CURVE NUMBER
                       RTIMP           0.00  PERCENT IMPERVIOUS AREA

  27 UD           SCS DIMENSIONLESS UNITGRAPH
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TLAG 0.79 LAG

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UNIT HYDROGRAPH
49 END-OF-PERIOD ORDINATES

4.	13.	26.	40.	60.	84.	106.	118.	126.	127.
126.	118.	109.	99.	86.	71.	58.	49.	42.	35.
31.	26.	22.	19.	16.	13.	12.	10.	8.	7.
6.	5.	4.	4.	3.	3.	2.	2.	2.	1.
1.	1.	1.	1.	1.	0.	0.	0.	0.	

TOTAL RAINFALL = 3.50, TOTAL LOSS = 1.72, TOTAL EXCESS = 1.78

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 91.	12.50		34.	10.	10.	10.
		(INCHES)	1.427	1.774	1.774	1.774
		(AC-FT)	17.	21.	21.	21.

CUMULATIVE AREA = 0.22 SQ MI

***

*** *** *** *** ***

HYDROGRAPH AT STATION East
FOR PLAN 1, RATIO = 1.00

TOTAL RAINFALL = 3.50, TOTAL LOSS = 1.72, TOTAL EXCESS = 1.78

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 91.	12.50		34.	10.	10.	10.
		(INCHES)	1.427	1.774	1.774	1.774
		(AC-FT)	17.	21.	21.	21.

CUMULATIVE AREA = 0.22 SQ MI

***

*** *** *** *** ***

HYDROGRAPH AT STATION East
FOR PLAN 1, RATIO = 1.31

TOTAL RAINFALL = 4.60, TOTAL LOSS = 1.88, TOTAL EXCESS = 2.72

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 141.	12.50		51.	16.	15.	15.
		(INCHES)	2.176	2.712	2.712	2.712
		(AC-FT)	25.	32.	32.	32.

CUMULATIVE AREA = 0.22 SQ MI

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*** *** *** *** ***

HYDROGRAPH AT STATION East
FOR PLAN 1, RATIO = 1.51

TOTAL RAINFALL = 5.30, TOTAL LOSS = 1.95, TOTAL EXCESS = 3.35

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 174.	12.50		63.	20.	19.	19.
		(INCHES)	2.666	3.335	3.335	3.335
		(AC-FT)	31.	39.	39.	39.

CUMULATIVE AREA = 0.22 SQ MI

***

*** *** *** *** ***

HYDROGRAPH AT STATION East
FOR PLAN 1, RATIO = 1.77

TOTAL RAINFALL = 6.20, TOTAL LOSS = 2.03, TOTAL EXCESS = 4.17

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)					
		(CFS)				
+ 217.	12.42		78.	24.	24.	24.

```
                            (INCHES)    3.307       4.155       4.155         4.155
                            (AC-FT)       39.         48.         48.           48.

                             CUMULATIVE AREA =    0.22 SQ MI


        ***             ***             ***             ***             ***

                              HYDROGRAPH AT STATION     East
                                FOR PLAN 1, RATIO = 2.00

     TOTAL RAINFALL =    7.00, TOTAL LOSS =    2.08, TOTAL EXCESS =    4.92

   PEAK FLOW      TIME                             MAXIMUM AVERAGE FLOW
                                          6-HR       24-HR       72-HR      24.92-HR
 +   (CFS)        (HR)
                             (CFS)
 +     255.      12.42                      91.         29.         28.          28.
                            (INCHES)     3.882       4.897       4.897        4.897
                            (AC-FT)        45.         57.         57.          57.

                             CUMULATIVE AREA =    0.22 SQ MI


        ***             ***             ***             ***             ***

                              HYDROGRAPH AT STATION     East
                                FOR PLAN 1, RATIO = 2.23

     TOTAL RAINFALL =    7.80, TOTAL LOSS =    2.13, TOTAL EXCESS =    5.67

   PEAK FLOW      TIME                             MAXIMUM AVERAGE FLOW
                                          6-HR       24-HR       72-HR      24.92-HR
 +   (CFS)        (HR)
                             (CFS)
 +     294.      12.42                     105.         33.         32.          32.
                            (INCHES)     4.460       5.649       5.649        5.649
                            (AC-FT)        52.         66.         66.          66.

                             CUMULATIVE AREA =    0.22 SQ MI


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              ***************
              *             *
   29 KK      *   OneSit    *
              *             *
              ***************
                           Eagles Landing (North Basin)

                 SUBBASIN RUNOFF DATA

   31 BA           SUBBASIN CHARACTERISTICS
                         TAREA          0.05  SUBBASIN AREA
                          SNAP 50000000.00  NORMAL ANNUAL PRECIPITATION
                         RATIO          0.00  RATIO OF HYDROGRAPH

                   PRECIPITATION DATA

   10 PB                 STORM          3.50  BASIN TOTAL PRECIPITATION

   12 PI             INCREMENTAL PRECIPITATION PATTERN
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.04     0.04     0.04     0.04     0.04     0.04     0.04     0.04
                        0.04     0.04     0.04     0.04     0.01     0.01     0.01     0.01     0.01     0.01
                        0.01     0.01     0.01     0.01     0.01     0.01     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                        0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

33 LS SCS LOSS RATE
STRTL 0.50 INITIAL ABSTRACTION
CRVNBR 80.00 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

32 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.20 LAG

***

UNIT HYDROGRAPH
14 END-OF-PERIOD ORDINATES
23. 75. 93. 75. 42. 24. 14. 8. 4. 3.
1. 1. 0. 0.

TOTAL RAINFALL = 3.50, TOTAL LOSS = 1.86, TOTAL EXCESS = 1.64

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 27.	12.00	7.	2.	2.	2.
		(INCHES) 1.327	1.636	1.636	1.636
		(AC-FT) 3.	4.	4.	4.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION OnSit
FOR PLAN 1, RATIO = 1.00

TOTAL RAINFALL = 3.50, TOTAL LOSS = 1.86, TOTAL EXCESS = 1.64

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 27.	12.00	7.	2.	2.	2.
		(INCHES) 1.327	1.636	1.636	1.636
		(AC-FT) 3.	4.	4.	4.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION OnSit
FOR PLAN 1, RATIO = 1.31

TOTAL RAINFALL = 4.60, TOTAL LOSS = 2.05, TOTAL EXCESS = 2.55

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 41.	12.00	10.	3.	3.	3.
		(INCHES) 2.055	2.547	2.547	2.547
		(AC-FT) 5.	6.	6.	6.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION OnSit
FOR PLAN 1, RATIO = 1.51

TOTAL RAINFALL = 5.30, TOTAL LOSS = 2.14, TOTAL EXCESS = 3.16

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
		(CFS)			
+ 50.	12.00	13.	4.	4.	4.
		(INCHES) 2.535	3.156	3.156	3.156
		(AC-FT) 6.	8.	8.	8.

CUMULATIVE AREA = 0.05 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION OnSit
FOR PLAN 1, RATIO = 1.77

```
     TOTAL RAINFALL =    6.20, TOTAL LOSS =    2.24, TOTAL EXCESS =    3.96

   PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                       6-HR       24-HR       72-HR      24.92-HR
 +   (CFS)       (HR)
                           (CFS)
 +      63.     12.00                   16.          5.          5.           5.
                         (INCHES)     3.168       3.962       3.962        3.962
                         (AC-FT)         8.         10.         10.          10.

                         CUMULATIVE AREA =    0.05 SQ MI

       ***            ***            ***            ***            ***

                            HYDROGRAPH AT STATION   OneSit
                              FOR PLAN 1, RATIO = 2.00

     TOTAL RAINFALL =    7.00, TOTAL LOSS =    2.31, TOTAL EXCESS =    4.69

   PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                       6-HR       24-HR       72-HR      24.92-HR
 +   (CFS)       (HR)
                           (CFS)
 +      73.     12.00                   19.          6.          6.           6.
                         (INCHES)     3.741       4.694       4.694        4.694
                         (AC-FT)         9.         12.         12.          12.

                         CUMULATIVE AREA =    0.05 SQ MI

       ***            ***            ***            ***            ***

                            HYDROGRAPH AT STATION   OneSit
                              FOR PLAN 1, RATIO = 2.23

     TOTAL RAINFALL =    7.80, TOTAL LOSS =    2.36, TOTAL EXCESS =    5.44

   PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                       6-HR       24-HR       72-HR      24.92-HR
 +   (CFS)       (HR)
                           (CFS)
 +      84.     12.00                   22.          7.          7.           7.
                         (INCHES)     4.319       5.438       5.438        5.438
                         (AC-FT)        11.         14.         14.          14.

                         CUMULATIVE AREA =    0.05 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

               **************
               *            *
  34 KK        *   North    *
               *            *
               **************
                          Eagles Landing (North Off-site Drainage)

                SUBBASIN RUNOFF DATA

  36 BA           SUBBASIN CHARACTERISTICS
                        TAREA         0.05  SUBBASIN AREA
                         SNAP 50000000.00  NORMAL ANNUAL PRECIPITATION
                        RATIO         0.00  RATIO OF HYDROGRAPH

                  PRECIPITATION DATA

  10 PB                 STORM         3.50  BASIN TOTAL PRECIPITATION

  12 PI             INCREMENTAL PRECIPITATION PATTERN
                      0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                      0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                      0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                      0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                      0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                      0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                      0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                      0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                      0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                      0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                      0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                      0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                      0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
                      0.00     0.00     0.04     0.04     0.04     0.04     0.04     0.04     0.04     0.04
                      0.04     0.04     0.04     0.04     0.01     0.01     0.01     0.01     0.01     0.01
                      0.01     0.01     0.01     0.01     0.01     0.01     0.00     0.00     0.00     0.00
                      0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

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   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
   0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

38 LS          SCS LOSS RATE
                  STRTL        0.70  INITIAL ABSTRACTION
                  CRVNBR      74.00  CURVE NUMBER
                  RTIMP        0.00  PERCENT IMPERVIOUS AREA

37 UD          SCS DIMENSIONLESS UNITGRAPH
                  TLAG         0.39  LAG

                                        ***

                                  UNIT HYDROGRAPH
                             25 END-OF-PERIOD ORDINATES
        5.      15.      33.      47.      52.      50.      43.      33.      23.      17.
       12.       9.       7.       5.       3.       3.       2.       1.       1.       1.
        1.       0.       0.       0.       0.

    TOTAL RAINFALL =    3.50, TOTAL LOSS =    2.26, TOTAL EXCESS =    1.24

  PEAK FLOW     TIME                         MAXIMUM AVERAGE FLOW
                                    6-HR      24-HR      72-HR     24.92-HR
+   (CFS)       (HR)
                         (CFS)
+     17.      12.17                  5.         2.         2.          2.
                         (INCHES)  0.992      1.239      1.239       1.239
                         (AC-FT)      2.         3.         3.          3.

                         CUMULATIVE AREA =    0.05 SQ MI

      ***          ***          ***          ***          ***

                         HYDROGRAPH AT STATION    North
                           FOR PLAN 1, RATIO = 1.00

    TOTAL RAINFALL =    3.50, TOTAL LOSS =    2.26, TOTAL EXCESS =    1.24

  PEAK FLOW     TIME                         MAXIMUM AVERAGE FLOW
                                    6-HR      24-HR      72-HR     24.92-HR
+   (CFS)       (HR)
                         (CFS)
+     17.      12.17                  5.         2.         2.          2.
                         (INCHES)  0.992      1.239      1.239       1.239
                         (AC-FT)      2.         3.         3.          3.

                         CUMULATIVE AREA =    0.05 SQ MI

      ***          ***          ***          ***          ***

                         HYDROGRAPH AT STATION    North
                           FOR PLAN 1, RATIO = 1.31

    TOTAL RAINFALL =    4.60, TOTAL LOSS =    2.55, TOTAL EXCESS =    2.05

  PEAK FLOW     TIME                         MAXIMUM AVERAGE FLOW
                                    6-HR      24-HR      72-HR     24.92-HR
+   (CFS)       (HR)
                         (CFS)
+     29.      12.17                  8.         3.         2.          2.
                         (INCHES)  1.655      2.049      2.049       2.049
                         (AC-FT)      4.         5.         5.          5.

                         CUMULATIVE AREA =    0.05 SQ MI

      ***          ***          ***          ***          ***

                         HYDROGRAPH AT STATION    North
                           FOR PLAN 1, RATIO = 1.51

    TOTAL RAINFALL =    5.30, TOTAL LOSS =    2.69, TOTAL EXCESS =    2.61

  PEAK FLOW     TIME                         MAXIMUM AVERAGE FLOW
                                    6-HR      24-HR      72-HR     24.92-HR
+   (CFS)       (HR)
                         (CFS)
+     37.      12.17                 11.         3.         3.          3.
                         (INCHES)  2.105      2.605      2.605       2.605
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                    (AC-FT)        5.          7.          7.          7.

                    CUMULATIVE AREA =    0.05 SQ MI

        ***             ***             ***             ***             ***

                    HYDROGRAPH AT STATION    North
                     FOR PLAN 1, RATIO = 1.77

     TOTAL RAINFALL =   6.20, TOTAL LOSS =   2.85, TOTAL EXCESS =   3.35

   PEAK FLOW     TIME                         MAXIMUM AVERAGE FLOW
                                  6-HR       24-HR       72-HR      24.92-HR
 +  (CFS)        (HR)

 +      48.     12.17      (CFS)
                                   14.          4.          4.          4.
                        (INCHES)  2.704       3.352       3.352       3.352
                         (AC-FT)     7.          8.          8.          8.

                    CUMULATIVE AREA =    0.05 SQ MI

        ***             ***             ***             ***             ***

                    HYDROGRAPH AT STATION    North
                     FOR PLAN 1, RATIO = 2.00

     TOTAL RAINFALL =   7.00, TOTAL LOSS =   2.96, TOTAL EXCESS =   4.04

   PEAK FLOW     TIME                         MAXIMUM AVERAGE FLOW
                                  6-HR       24-HR       72-HR      24.92-HR
 +  (CFS)        (HR)

 +      58.     12.17      (CFS)
                                   16.          5.          5.          5.
                        (INCHES)  3.250       4.041       4.041       4.041
                         (AC-FT)     8.         10.         10.         10.

                    CUMULATIVE AREA =    0.05 SQ MI

        ***             ***             ***             ***             ***

                    HYDROGRAPH AT STATION    North
                     FOR PLAN 1, RATIO = 2.23

     TOTAL RAINFALL =   7.80, TOTAL LOSS =   3.05, TOTAL EXCESS =   4.75

   PEAK FLOW     TIME                         MAXIMUM AVERAGE FLOW
                                  6-HR       24-HR       72-HR      24.92-HR
 +  (CFS)        (HR)

 +      68.     12.17      (CFS)
                                   19.          6.          6.          6.
                        (INCHES)  3.804       4.746       4.746       4.746
                         (AC-FT)    10.         12.         12.         12.

                    CUMULATIVE AREA =    0.05 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

             **************
             *            *
  39 KK      *   Combo1   *
             *            *
             **************

  40 HC          HYDROGRAPH COMBINATION
                       ICOMP            3  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                  ***
        ***             ***             ***             ***             ***

                    HYDROGRAPH AT STATION   Combo1
                     FOR PLAN 1, RATIO = 1.00

   PEAK FLOW     TIME                         MAXIMUM AVERAGE FLOW
                                  6-HR       24-HR       72-HR      24.92-HR
 +  (CFS)        (HR)

 +     116.     12.25      (CFS)
                                   45.         14.         14.         14.
                        (INCHES)  1.344       1.673       1.673       1.673
                         (AC-FT)    22.         28.         28.         28.

                    CUMULATIVE AREA =    0.31 SQ MI
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          ***                  ***                  ***                  ***                  ***

                                    HYDROGRAPH AT STATION    Combo1
                                     FOR PLAN 1, RATIO = 1.31

     PEAK FLOW        TIME                                    MAXIMUM AVERAGE FLOW
                                                    6-HR          24-HR         72-HR        24.92-HR
  +    (CFS)          (HR)
                                      (CFS)
  +      184.         12.25                          70.            22.           21.            21.
                                    (INCHES)        2.077          2.588         2.588          2.588
                                     (AC-FT)         35.            43.           43.            43.

                                    CUMULATIVE AREA =      0.31 SQ MI

          ***                  ***                  ***                  ***                  ***

                                    HYDROGRAPH AT STATION    Combo1
                                     FOR PLAN 1, RATIO = 1.51

     PEAK FLOW        TIME                                    MAXIMUM AVERAGE FLOW
                                                    6-HR          24-HR         72-HR        24.92-HR
  +    (CFS)          (HR)
                                      (CFS)
  +      229.         12.17                          86.            27.           26.            26.
                                    (INCHES)        2.561          3.199         3.199          3.199
                                     (AC-FT)         43.            53.           53.            53.

                                    CUMULATIVE AREA =      0.31 SQ MI

          ***                  ***                  ***                  ***                  ***

                                    HYDROGRAPH AT STATION    Combo1
                                     FOR PLAN 1, RATIO = 1.77

     PEAK FLOW        TIME                                    MAXIMUM AVERAGE FLOW
                                                    6-HR          24-HR         72-HR        24.92-HR
  +    (CFS)          (HR)
                                      (CFS)
  +      290.         12.17                         107.            34.           32.            32.
                                    (INCHES)        3.193          4.006         4.006          4.006
                                     (AC-FT)         53.            67.           67.            67.

                                    CUMULATIVE AREA =      0.31 SQ MI

          ***                  ***                  ***                  ***                  ***

                                    HYDROGRAPH AT STATION    Combo1
                                     FOR PLAN 1, RATIO = 2.00

     PEAK FLOW        TIME                                    MAXIMUM AVERAGE FLOW
                                                    6-HR          24-HR         72-HR        24.92-HR
  +    (CFS)          (HR)
                                      (CFS)
  +      344.         12.17                         126.            40.           38.            38.
                                    (INCHES)        3.763          4.738         4.738          4.738
                                     (AC-FT)         63.            79.           79.            79.

                                    CUMULATIVE AREA =      0.31 SQ MI

          ***                  ***                  ***                  ***                  ***

                                    HYDROGRAPH AT STATION    Combo1
                                     FOR PLAN 1, RATIO = 2.23

     PEAK FLOW        TIME                                    MAXIMUM AVERAGE FLOW
                                                    6-HR          24-HR         72-HR        24.92-HR
  +    (CFS)          (HR)
                                      (CFS)
  +      398.         12.17                         146.            46.           44.            44.
                                    (INCHES)        4.337          5.482         5.482          5.482
                                     (AC-FT)         72.            91.           91.            91.

                                    CUMULATIVE AREA =      0.31 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

                 **************
                 *            *
   41 KK         *   Combo2   *
                 *            *
                 **************
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42 MC HYDROGRAPH COMBINATION

ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

***

*** *** *** *** ***

HYDROGRAPH AT STATION Combo2
FOR PLAN 1, RATIO = 1.00

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)	(CFS)				
+ 121.	12.25		49.	16.	15.	15.
		(INCHES)	1.298	1.669	1.669	1.669
		(AC-FT)	24.	31.	31.	31.

CUMULATIVE AREA = 0.35 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo2
FOR PLAN 1, RATIO = 1.31

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)	(CFS)				
+ 192.	12.25		76.	24.	23.	23.
		(INCHES)	2.014	2.556	2.556	2.556
		(AC-FT)	38.	48.	48.	48.

CUMULATIVE AREA = 0.35 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo2
FOR PLAN 1, RATIO = 1.51

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)	(CFS)				
+ 242.	12.25		94.	30.	29.	29.
		(INCHES)	2.490	3.162	3.162	3.162
		(AC-FT)	47.	59.	59.	59.

CUMULATIVE AREA = 0.35 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo2
FOR PLAN 1, RATIO = 1.77

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)	(CFS)				
+ 306.	12.25		118.	37.	36.	36.
		(INCHES)	3.117	3.964	3.964	3.964
		(AC-FT)	58.	74.	74.	74.

CUMULATIVE AREA = 0.35 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo2
FOR PLAN 1, RATIO = 2.00

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR	
+ (CFS)	(HR)	(CFS)				
+ 364.	12.17		139.	44.	43.	43.
		(INCHES)	3.682	4.693	4.693	4.693
		(AC-FT)	69.	88.	88.	88.

CUMULATIVE AREA = 0.35 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo2
FOR PLAN 1, RATIO = 2.23

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

```
                                        6-HR        24-HR       72-HR      24.92-HR
+   (CFS)      (HR)
                          (CFS)
+     424.     12.17                    161.         51.         49.          49.
                       (INCHES)        4.252       5.432       5.432        5.432
                        (AC-FT)          80.        102.        102.         102.

                         CUMULATIVE AREA =     0.35 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

              **************
              *            *
  43 KK       *    NPond   *
              *            *
              **************
                           Eagles Landing (North Drainage Pond)

                HYDROGRAPH ROUTING DATA

  45 RS          STORAGE ROUTING
                       NSTPS            1  NUMBER OF SUBREACHES
                        ITYP         ELEV  TYPE OF INITIAL CONDITION
                      RSVRIC       192.00  INITIAL CONDITION
                           X         0.00  WORKING R AND D COEFFICIENT

  46 SA                 AREA          2.2         2.8         3.0

  47 SE            ELEVATION       192.00      195.00      196.00

  48 SQ            DISCHARGE           0.          2.          4.         83.        230.        430.        740.       1170.       1770.

  49 SE            ELEVATION       192.00      192.50      193.00      193.50      194.00      194.50      195.00      195.50      196.00
                                                                     ***

                                                 COMPUTED STORAGE-ELEVATION DATA

            STORAGE       0.00       7.48      10.38
          ELEVATION     192.00     195.00     196.00

                                               COMPUTED STORAGE-OUTFLOW-ELEVATION DATA

            STORAGE       0.00       1.12       2.30       3.52       4.79       6.11       7.48       8.91      10.38
            OUTFLOW       0.00       1.50       4.20      83.00     230.00     430.00     740.00    1170.00    1770.00
          ELEVATION     192.00     192.50     193.00     193.50     194.00     194.50     195.00     195.50     196.00

*** WARNING *** MODIFIED PULS ROUTING MAY BE NUMERICALLY UNSTABLE FOR OUTFLOWS BETWEEN       740. TO      1770.
                THE ROUTED HYDROGRAPH SHOULD BE EXAMINED FOR OSCILLATIONS OR OUTFLOWS GREATER THAN PEAK INFLOWS.
                THIS CAN BE CORRECTED BY DECREASING THE TIME INTERVAL OR INCREASING STORAGE (USE A LONGER REACH.)

      ***          ***          ***          ***          ***

                        HYDROGRAPH AT STATION    NPond
                          FOR PLAN 1, RATIO = 1.00

   PEAK FLOW      TIME                           MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR       72-HR      24.92-HR
+   (CFS)      (HR)
                          (CFS)
+     119.     12.50                     46.         14.         14.          14.
                       (INCHES)        1.222       1.527       1.527        1.527
                        (AC-FT)          23.         29.         29.          29.

  PEAK STORAGE    TIME                          MAXIMUM AVERAGE STORAGE
                                        6-HR        24-HR       72-HR      24.92-HR
+  (AC-FT)     (HR)
        4.     12.50                      3.          1.          1.           1.

   PEAK STAGE     TIME                           MAXIMUM AVERAGE STAGE
                                        6-HR        24-HR       72-HR      24.92-HR
+   (FEET)     (HR)
    193.62     12.50                   193.25      192.64      192.61       192.61

                         CUMULATIVE AREA =     0.35 SQ MI

      ***          ***          ***          ***          ***

                        HYDROGRAPH AT STATION    NPond
                          FOR PLAN 1, RATIO = 1.31

   PEAK FLOW      TIME                           MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR       72-HR      24.92-HR
+   (CFS)      (HR)
                          (CFS)
+     190.     12.42                     74.         23.         22.          22.
```

(INCHES)	1.969	2.432	2.432	2.432
(AC-FT)	37.	46.	46.	46.

PEAK STORAGE	TIME
+ (AC-FT)	(HR)
4.	12.42

MAXIMUM AVERAGE STORAGE

6-HR	24-HR	72-HR	24.92-HR
3.	2.	2.	2.

PEAK STAGE	TIME
+ (FEET)	(HR)
193.86	12.42

MAXIMUM AVERAGE STAGE

6-HR	24-HR	72-HR	24.92-HR
193.39	192.70	192.68	192.68

CUMULATIVE AREA = 0.35 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION NPond
FOR PLAN 1, RATIO = 1.51

PEAK FLOW	TIME
+ (CFS)	(HR)
+ 239.	12.33

MAXIMUM AVERAGE FLOW

6-HR	24-HR	72-HR	24.92-HR
(CFS)			
93.	29.	28.	28.
(INCHES) 2.466	3.037	3.037	3.037
(AC-FT) 46.	57.	57.	57.

PEAK STORAGE	TIME
+ (AC-FT)	(HR)
5.	12.33

MAXIMUM AVERAGE STORAGE

6-HR	24-HR	72-HR	24.92-HR
3.	2.	2.	2.

PEAK STAGE	TIME
+ (FEET)	(HR)
194.02	12.33

MAXIMUM AVERAGE STAGE

6-HR	24-HR	72-HR	24.92-HR
193.47	192.75	192.72	192.72

CUMULATIVE AREA = 0.35 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION NPond
FOR PLAN 1, RATIO = 1.77

PEAK FLOW	TIME
+ (CFS)	(HR)
+ 303.	12.33

MAXIMUM AVERAGE FLOW

6-HR	24-HR	72-HR	24.92-HR
(CFS)			
118.	36.	35.	35.
(INCHES) 3.110	3.838	3.838	3.838
(AC-FT) 58.	72.	72.	72.

PEAK STORAGE	TIME
+ (AC-FT)	(HR)
5.	12.33

MAXIMUM AVERAGE STORAGE

6-HR	24-HR	72-HR	24.92-HR
4.	2.	2.	2.

PEAK STAGE	TIME
+ (FEET)	(HR)
194.18	12.33

MAXIMUM AVERAGE STAGE

6-HR	24-HR	72-HR	24.92-HR
193.56	192.81	192.78	192.78

CUMULATIVE AREA = 0.35 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION NPond
FOR PLAN 1, RATIO = 2.00

PEAK FLOW	TIME
+ (CFS)	(HR)
+ 360.	12.33

MAXIMUM AVERAGE FLOW

6-HR	24-HR	72-HR	24.92-HR
(CFS)			
139.	43.	42.	42.
(INCHES) 3.678	4.566	4.566	4.566
(AC-FT) 69.	86.	86.	86.

PEAK STORAGE	TIME
+ (AC-FT)	(HR)
6.	12.33

MAXIMUM AVERAGE STORAGE

6-HR	24-HR	72-HR	24.92-HR
4.	2.	2.	2.

PEAK STAGE	TIME
+ (FEET)	(HR)
194.33	12.33

MAXIMUM AVERAGE STAGE

6-HR	24-HR	72-HR	24.92-HR
193.63	192.86	192.83	192.83

CUMULATIVE AREA = 0.35 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION NPond
FOR PLAN 1, RATIO = 2.23

PEAK FLOW	TIME			MAXIMUM AVERAGE FLOW		
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 419.	12.33		161.	50.	48.	48.
		(INCHES)	4.249	5.304	5.304	5.304
		(AC-FT)	80.	99.	99.	99.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (AC-FT)	(HR)				
6.	12.33	4.	2.	2.	2.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	24.92-HR
+ (FEET)	(HR)				
194.47	12.33	193.71	192.91	192.88	192.88

CUMULATIVE AREA = 0.35 SQ MI

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          **************
          *            *
50 KK     *    ESite   *
          *            *
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Proposed Residential (East of NE Middle School)

SUBBASIN RUNOFF DATA

52 BA SUBBASIN CHARACTERISTICS
TAREA 0.01 SUBBASIN AREA

PRECIPITATION DATA

10 PB STORM 3.50 BASIN TOTAL PRECIPITATION

12 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

54 LS SCS LOSS RATE
STRTL 0.67 INITIAL ABSTRACTION
CRVNBR 75.00 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

53 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.15 LAG

***

UNIT HYDROGRAPH
11 END-OF-PERIOD ORDINATES

5. 13. 12. 6. 3. 1. 1. 0. 0. 0.
0.

TOTAL RAINFALL = 3.50, TOTAL LOSS = 2.20, TOTAL EXCESS = 1.30

PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
(CFS)		1.	0.	0.	0.
+ 3.	12.00	(INCHES) 1.052	1.302	1.302	1.302
		(AC-FT) 0.	0.	0.	0.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite
FOR PLAN 1, RATIO = 1.00

TOTAL RAINFALL = 3.50, TOTAL LOSS = 2.20, TOTAL EXCESS = 1.30

PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
(CFS)		1.	0.	0.	0.
+ 3.	12.00	(INCHES) 1.052	1.302	1.302	1.302
		(AC-FT) 0.	0.	0.	0.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite
FOR PLAN 1, RATIO = 1.31

TOTAL RAINFALL = 4.60, TOTAL LOSS = 2.47, TOTAL EXCESS = 2.13

PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
(CFS)		1.	0.	0.	0.
+ 4.	12.00	(INCHES) 1.728	2.129	2.129	2.129
		(AC-FT) 0.	1.	1.	1.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite
FOR PLAN 1, RATIO = 1.51

TOTAL RAINFALL = 5.30, TOTAL LOSS = 2.61, TOTAL EXCESS = 2.69

PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
(CFS)		1.	0.	0.	0.
+ 5.	12.00	(INCHES) 2.183	2.695	2.695	2.695
		(AC-FT) 1.	1.	1.	1.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite
FOR PLAN 1, RATIO = 1.77

TOTAL RAINFALL = 6.20, TOTAL LOSS = 2.75, TOTAL EXCESS = 3.45

PEAK FLOW	TIME	6-HR	MAXIMUM AVERAGE FLOW 24-HR	72-HR	24.92-HR
(CFS)		2.	0.	0.	0.
+ 6.	12.00	(INCHES) 2.785	3.453	3.453	3.453
		(AC-FT) 1.	1.	1.	1.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Esite
FOR PLAN 1, RATIO = 2.00

TOTAL RAINFALL = 7.00, TOTAL LOSS = 2.85, TOTAL EXCESS = 4.15

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)		2.	1.	1.	1.
8.	12.00	3.333	4.149	4.149	4.149
(INCHES)		1.	1.	1.	1.
(AC-FT)					

CUMULATIVE AREA = 0.01 SQ MI

***

HYDROGRAPH AT STATION Esite
FOR PLAN 1, RATIO = 2.23

TOTAL RAINFALL = 7.80, TOTAL LOSS = 2.94, TOTAL EXCESS = 4.86

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)		2.	1.	1.	1.
9.	12.00	3.894	4.862	4.862	4.862
(INCHES)		1.	1.	1.	1.
(AC-FT)					

CUMULATIVE AREA = 0.01 SQ MI

*** ***

55 KK
****
* *
* Combo3 *
* *
****

56 HC HYDROGRAPH COMBINATION
ICOMP 2 NUMBER OF HYDROGRAPHS TO COMBINE

***

HYDROGRAPH AT STATION Combo3
FOR PLAN 1, RATIO = 1.00

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)		47.	15.	14.	14.
119.	12.50	1.216	1.523	1.523	1.523
(INCHES)		23.	29.	29.	29.
(AC-FT)					

CUMULATIVE AREA = 0.36 SQ MI

HYDROGRAPH AT STATION Combo3
FOR PLAN 1, RATIO = 1.31

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)		75.	23.	22.	22.
191.	12.42	1.962	2.427	2.427	2.427
(INCHES)		37.	46.	46.	46.
(AC-FT)					

CUMULATIVE AREA = 0.36 SQ MI

HYDROGRAPH AT STATION Combo3
FOR PLAN 1, RATIO = 1.51

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
(CFS)					

```
                               (CFS)
 +     241.     12.33                   94.          29.         28.          28.
                              (INCHES)  2.460        3.032       3.032        3.032
                              (AC-FT)   47.          58.         58.          58.

                              CUMULATIVE AREA =    0.36 SQ MI

        ***           ***          ***          ***          ***

                              HYDROGRAPH AT STATION   Combo3
                                FOR PLAN 1, RATIO = 1.77

   PEAK FLOW      TIME                         MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR       72-HR       24.92-HR
 +   (CFS)        (HR)
                               (CFS)
 +     306.     12.33                   119.         37.         35.          35.
                              (INCHES)  3.104        3.832       3.832        3.832
                              (AC-FT)   59.          73.         73.          73.

                              CUMULATIVE AREA =    0.36 SQ MI

        ***           ***          ***          ***          ***

                              HYDROGRAPH AT STATION   Combo3
                                FOR PLAN 1, RATIO = 2.00

   PEAK FLOW      TIME                         MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR       72-HR       24.92-HR
 +   (CFS)        (HR)
                               (CFS)
 +     363.     12.25                   141.         44.         42.          42.
                              (INCHES)  3.672        4.559       4.559        4.559
                              (AC-FT)   70.          87.         87.          87.

                              CUMULATIVE AREA =    0.36 SQ MI

        ***           ***          ***          ***          ***

                              HYDROGRAPH AT STATION   Combo3
                                FOR PLAN 1, RATIO = 2.23

   PEAK FLOW      TIME                         MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR       72-HR       24.92-HR
 +   (CFS)        (HR)
                               (CFS)
 +     423.     12.25                   163.         51.         49.          49.
                              (INCHES)  4.243        5.298       5.298        5.298
                              (AC-FT)   81.          101.        101.         101.

                              CUMULATIVE AREA =    0.36 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

            **************
            *            *
  57 KK     *   Nsite    *
            *            *
            **************
                        NE Middle School (Off-site North of 45th Street North)

              SUBBASIN RUNOFF DATA

  59 BA        SUBBASIN CHARACTERISTICS
                  TAREA         0.21  SUBBASIN AREA

               PRECIPITATION DATA

  10 PB           STORM         3.50  BASIN TOTAL PRECIPITATION

  12 PI         INCREMENTAL PRECIPITATION PATTERN
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
                  0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
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          0.00      0.00      0.04      0.04      0.04      0.04      0.04      0.04      0.04      0.04
          0.04      0.04      0.04      0.04      0.01      0.01      0.01      0.01      0.01      0.01
          0.01      0.01      0.01      0.01      0.01      0.01      0.00      0.00      0.00      0.00
          0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
          0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
          0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
          0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
          0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
          0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
          0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
          0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
          0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
          0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
          0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
          0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
          0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00

 61 LS        SCS LOSS RATE
                  STRTL        0.50  INITIAL ABSTRACTION
                 CRVNBR       80.00  CURVE NUMBER
                  RTIMP        0.00  PERCENT IMPERVIOUS AREA

 60 UD        SCS DIMENSIONLESS UNITGRAPH
                   TLAG        0.51  LAG

                                                 ***

                                          UNIT HYDROGRAPH
                                      33 END-OF-PERIOD ORDINATES
           12.       36.       73.      124.      164.      184.      185.      172.      151.      124.
           93.       71.       55.       44.       35.       27.       21.       17.       13.       10.
            8.        6.        5.        4.        3.        2.        2.        2.        1.        1.
            1.        0.        0.

   TOTAL RAINFALL =    3.50, TOTAL LOSS =    1.86, TOTAL EXCESS =    1.64

  PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
                                    6-HR        24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                           (CFS)
+     97.      12.25                 30.          9.          9.          9.
                        (INCHES)   1.319       1.634       1.634       1.634
                         (AC-FT)     15.         19.         19.         19.

                        CUMULATIVE AREA =    0.21 SQ MI

      ***          ***          ***          ***          ***

                        HYDROGRAPH AT STATION     Nsite
                         FOR PLAN 1, RATIO = 1.00

   TOTAL RAINFALL =    3.50, TOTAL LOSS =    1.86, TOTAL EXCESS =    1.64

  PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
                                    6-HR        24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                           (CFS)
+     97.      12.25                 30.          9.          9.          9.
                        (INCHES)   1.319       1.634       1.634       1.634
                         (AC-FT)     15.         19.         19.         19.

                        CUMULATIVE AREA =    0.21 SQ MI

      ***          ***          ***          ***          ***

                        HYDROGRAPH AT STATION     Nsite
                         FOR PLAN 1, RATIO = 1.31

   TOTAL RAINFALL =    4.60, TOTAL LOSS =    2.05, TOTAL EXCESS =    2.55

  PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
                                    6-HR        24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                           (CFS)
+    153.      12.25                 47.         15.         14.         14.
                        (INCHES)   2.049       2.544       2.544       2.544
                         (AC-FT)     23.         29.         29.         29.

                        CUMULATIVE AREA =    0.21 SQ MI

      ***          ***          ***          ***          ***

                        HYDROGRAPH AT STATION     Nsite
                         FOR PLAN 1, RATIO = 1.51

   TOTAL RAINFALL =    5.30, TOTAL LOSS =    2.14, TOTAL EXCESS =    3.16

  PEAK FLOW     TIME                       MAXIMUM AVERAGE FLOW
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                                          6-HR         24-HR        72-HR        24.92-HR
 +   (CFS)      (HR)
                              (CFS)
 +     190.     12.25                      58.          18.          17.          17.
                              (INCHES)    2.531        3.153        3.153        3.153
                              (AC-FT)      29.          36.          36.          36.

                              CUMULATIVE AREA =    0.21 SQ MI

          ***          ***          ***          ***          ***

                              HYDROGRAPH AT STATION    Nsite
                                FOR PLAN 1, RATIO = 1.77

      TOTAL RAINFALL =     6.20, TOTAL LOSS =     2.24, TOTAL EXCESS =    3.96

     PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                          6-HR         24-HR        72-HR        24.92-HR
 +   (CFS)      (HR)
                              (CFS)
 +     238.     12.25                      72.          23.          22.          22.
                              (INCHES)    3.162        3.958        3.958        3.958
                              (AC-FT)      36.          45.          45.          45.

                              CUMULATIVE AREA =    0.21 SQ MI

          ***          ***          ***          ***          ***

                              HYDROGRAPH AT STATION    Nsite
                                FOR PLAN 1, RATIO = 2.00

      TOTAL RAINFALL =     7.00, TOTAL LOSS =     2.31, TOTAL EXCESS =    4.69

     PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                          6-HR         24-HR        72-HR        24.92-HR
 +   (CFS)      (HR)
                              (CFS)
 +     281.     12.25                      85.          27.          26.          26.
                              (INCHES)    3.733        4.690        4.690        4.690
                              (AC-FT)      42.          53.          53.          53.

                              CUMULATIVE AREA =    0.21 SQ MI

          ***          ***          ***          ***          ***

                              HYDROGRAPH AT STATION    Nsite
                                FOR PLAN 1, RATIO = 2.23

      TOTAL RAINFALL =     7.80, TOTAL LOSS =     2.36, TOTAL EXCESS =    5.44

     PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                          6-HR         24-HR        72-HR        24.92-HR
 +   (CFS)      (HR)
                              (CFS)
 +     325.     12.17                      98.          31.          30.          30.
                              (INCHES)    4.309        5.433        5.433        5.433
                              (AC-FT)      49.          62.          62.          62.

                              CUMULATIVE AREA =    0.21 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

             **************
             *            *
  62 KK      *   Combo4   *
             *            *
             **************

  63 HC           HYDROGRAPH COMBINATION
                        ICOMP            2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                  ***
          ***          ***          ***          ***          ***

                              HYDROGRAPH AT STATION    Combo4
                                FOR PLAN 1, RATIO = 1.00

     PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                          6-HR         24-HR        72-HR        24.92-HR
 +   (CFS)      (HR)
                              (CFS)
 +     213.     12.33                      76.          24.          23.          23.
                              (INCHES)    1.241        1.565        1.565        1.565
```

		(AC-FT)	38.	48.	48.	48.

CUMULATIVE AREA = 0.57 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo4
FOR PLAN 1, RATIO = 1.31

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 341.	12.25		121.	38.	36.	36.
		(INCHES)	1.984	2.471	2.471	2.471
		(AC-FT)	60.	75.	75.	75.

CUMULATIVE AREA = 0.57 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo4
FOR PLAN 1, RATIO = 1.51

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 427.	12.25		152.	47.	45.	45.
		(INCHES)	2.480	3.077	3.077	3.077
		(AC-FT)	75.	93.	93.	93.

CUMULATIVE AREA = 0.57 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo4
FOR PLAN 1, RATIO = 1.77

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 543.	12.25		191.	59.	57.	57.
		(INCHES)	3.124	3.879	3.879	3.879
		(AC-FT)	95.	118.	118.	118.

CUMULATIVE AREA = 0.57 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo4
FOR PLAN 1, RATIO = 2.00

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 645.	12.25		226.	71.	68.	68.
		(INCHES)	3.692	4.608	4.608	4.608
		(AC-FT)	112.	140.	140.	140.

CUMULATIVE AREA = 0.57 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo4
FOR PLAN 1, RATIO = 2.23

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 747.	12.25		261.	82.	79.	79.
		(INCHES)	4.264	5.348	5.348	5.348
		(AC-FT)	129.	162.	162.	162.

CUMULATIVE AREA = 0.57 SQ MI

*** ***

****

64 KK * ESite2 *

Proposed Residential (East of NE Middle School)

SUBBASIN RUNOFF DATA

66 BA SUBBASIN CHARACTERISTICS
TAREA 0.01 SUBBASIN AREA

PRECIPITATION DATA

10 PB STORM 3.50 BASIN TOTAL PRECIPITATION

12 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

68 LS SCS LOSS RATE
STRTL 0.67 INITIAL ABSTRACTION
CRVNBR 75.00 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

67 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.15 LAG

***

UNIT HYDROGRAPH
11 END-OF-PERIOD ORDINATES

8.	20.	18.	9.	5.	2.	1.	1.	0.	0.
0.									

TOTAL RAINFALL = 3.50, TOTAL LOSS = 2.20, TOTAL EXCESS = 1.30

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 4.	12.00		1.	0.	0.	0.
		(INCHES)	1.052	1.302	1.302	1.302
		(AC-FT)	0.	1.	1.	1.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite2
FOR PLAN 1, RATIO = 1.00

TOTAL RAINFALL = 3.50, TOTAL LOSS = 2.20, TOTAL EXCESS = 1.30

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 4.	12.00		1.	0.	0.	0.
		(INCHES)	1.052	1.302	1.302	1.302
		(AC-FT)	0.	1.	1.	1.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite2
FOR PLAN 1, RATIO = 1.31

TOTAL RAINFALL = 4.60, TOTAL LOSS = 2.47, TOTAL EXCESS = 2.13

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 6.	12.00	(CFS) 2.	0.	0.	0.
		(INCHES) 1.728	2.129	2.129	2.129
		(AC-FT) 1.	1.	1.	1.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite2
FOR PLAN 1, RATIO = 1.51

TOTAL RAINFALL = 5.30, TOTAL LOSS = 2.61, TOTAL EXCESS = 2.69

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 8.	12.00	(CFS) 2.	1.	1.	1.
		(INCHES) 2.183	2.695	2.695	2.695
		(AC-FT) 1.	1.	1.	1.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite2
FOR PLAN 1, RATIO = 1.77

TOTAL RAINFALL = 6.20, TOTAL LOSS = 2.75, TOTAL EXCESS = 3.45

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 10.	12.00	(CFS) 2.	1.	1.	1.
		(INCHES) 2.785	3.453	3.453	3.453
		(AC-FT) 1.	2.	2.	2.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite2
FOR PLAN 1, RATIO = 2.00

TOTAL RAINFALL = 7.00, TOTAL LOSS = 2.85, TOTAL EXCESS = 4.15

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 12.	12.00	(CFS) 3.	1.	1.	1.
		(INCHES) 3.333	4.149	4.149	4.149
		(AC-FT) 1.	2.	2.	2.

CUMULATIVE AREA = 0.01 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION ESite2
FOR PLAN 1, RATIO = 2.23

TOTAL RAINFALL = 7.80, TOTAL LOSS = 2.94, TOTAL EXCESS = 4.86

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)				
+ 14.	12.00	(CFS) 3.	1.	1.	1.
		(INCHES) 3.894	4.862	4.862	4.862
		(AC-FT) 2.	2.	2.	2.

CUMULATIVE AREA = 0.01 SQ MI

*** ***

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               **************
               *            *
69 KK          *    Site    *
               *            *
               **************
                       NE Middle School Basin

                 SUBBASIN RUNOFF DATA

71 BA              SUBBASIN CHARACTERISTICS
                        TAREA        0.07  SUBBASIN AREA

                   PRECIPITATION DATA

10 PB                   STORM        3.50  BASIN TOTAL PRECIPITATION

12 PI                 INCREMENTAL PRECIPITATION PATTERN
```

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

```
73 LS            SCS LOSS RATE
                      STRTL        0.27  INITIAL ABSTRACTION
                     CRVNBR       88.00  CURVE NUMBER
                      RTIMP        0.00  PERCENT IMPERVIOUS AREA

72 UD            SCS DIMENSIONLESS UNITGRAPH
                      TLAG         0.15  LAG

                                              ***

                                         UNIT HYDROGRAPH
                                     11 END-OF-PERIOD ORDINATES
            63.      168.      148.      75.      37.      18.       9.       4.       2.       1.
             0.

  TOTAL RAINFALL =    3.50, TOTAL LOSS =    1.23, TOTAL EXCESS =    2.27

 PEAK FLOW    TIME                        MAXIMUM AVERAGE FLOW
                                  6-HR        24-HR       72-HR      24.92-HR
+  (CFS)      (HR)
                        (CFS)
+     53.     12.00                 13.          4.          4.          4.
                        (INCHES)   1.813       2.269       2.269       2.269
                        (AC-FT)       7.          8.          8.          8.

                        CUMULATIVE AREA =    0.07 SQ MI

       ***            ***            ***            ***            ***

                        HYDROGRAPH AT STATION      Site
                         FOR PLAN 1, RATIO = 1.00

  TOTAL RAINFALL =    3.50, TOTAL LOSS =    1.23, TOTAL EXCESS =    2.27

 PEAK FLOW    TIME                        MAXIMUM AVERAGE FLOW
                                  6-HR        24-HR       72-HR      24.92-HR
+  (CFS)      (HR)
                        (CFS)
```

+	53.	12.00		12.	4.	4.	4.
			(INCHES)	1.813	2.269	2.269	2.269
			(AC-FT)	7.	8.	8.	8.

CUMULATIVE AREA = 0.07 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Site
FOR PLAN 1, RATIO = 1.31

TOTAL RAINFALL = 4.60, TOTAL LOSS = 1.31, TOTAL EXCESS = 3.29

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 75.	12.00		19.	6.	6.	6.
		(INCHES)	2.607	3.290	3.290	3.290
		(AC-FT)	9.	12.	12.	12.

CUMULATIVE AREA = 0.07 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Site
FOR PLAN 1, RATIO = 1.51

TOTAL RAINFALL = 5.30, TOTAL LOSS = 1.35, TOTAL EXCESS = 3.95

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 89.	12.00		23.	7.	7.	7.
		(INCHES)	3.117	3.955	3.955	3.955
		(AC-FT)	11.	14.	14.	14.

CUMULATIVE AREA = 0.07 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Site
FOR PLAN 1, RATIO = 1.77

TOTAL RAINFALL = 6.20, TOTAL LOSS = 1.38, TOTAL EXCESS = 4.82

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 106.	12.00		28.	9.	9.	9.
		(INCHES)	3.774	4.819	4.819	4.819
		(AC-FT)	14.	18.	18.	18.

CUMULATIVE AREA = 0.07 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Site
FOR PLAN 1, RATIO = 2.00

TOTAL RAINFALL = 7.00, TOTAL LOSS = 1.41, TOTAL EXCESS = 5.59

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 122.	12.00		32.	10.	10.	10.
		(INCHES)	4.358	5.593	5.593	5.593
		(AC-FT)	16.	20.	20.	20.

CUMULATIVE AREA = 0.07 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Site
FOR PLAN 1, RATIO = 2.23

TOTAL RAINFALL = 7.80, TOTAL LOSS = 1.43, TOTAL EXCESS = 6.37

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)				
+ 138.	12.00		36.	12.	11.	11.

```
                           (INCHES)    4.941       6.373       6.373       6.373
                            (AC-FT)      18.         23.         23.         23.

                           CUMULATIVE AREA =    0.07 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

           **************
           *            *
  74 KK    *   Combo5   *
           *            *
           **************

  75 HC        HYDROGRAPH COMBINATION
                   ICOMP             2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                 ***

      ***             ***            ***            ***            ***

                           HYDROGRAPH AT STATION   Combo5
                             FOR PLAN 1, RATIO = 1.00

  PEAK FLOW     TIME                            MAXIMUM AVERAGE FLOW
                                       6-HR         24-HR        72-HR      24.92-HR
+   (CFS)       (HR)
                            (CFS)
+       57.     12.00                   14.            4.           4.            4.
                          (INCHES)     1.727        2.164        2.164         2.164
                           (AC-FT)        7.           9.           9.            9.

                          CUMULATIVE AREA =    0.08 SQ MI

      ***             ***            ***            ***            ***

                           HYDROGRAPH AT STATION   Combo5
                             FOR PLAN 1, RATIO = 1.31

  PEAK FLOW     TIME                            MAXIMUM AVERAGE FLOW
                                       6-HR         24-HR        72-HR      24.92-HR
+   (CFS)       (HR)
                            (CFS)
+       81.     12.00                   21.            7.           6.            6.
                          (INCHES)     2.508        3.165        3.165         3.165
                           (AC-FT)       10.          13.          13.           13.

                          CUMULATIVE AREA =    0.08 SQ MI

      ***             ***            ***            ***            ***

                           HYDROGRAPH AT STATION   Combo5
                             FOR PLAN 1, RATIO = 1.51

  PEAK FLOW     TIME                            MAXIMUM AVERAGE FLOW
                                       6-HR         24-HR        72-HR      24.92-HR
+   (CFS)       (HR)
                            (CFS)
+       97.     12.00                   25.            8.           8.            8.
                          (INCHES)     3.013        3.818        3.818         3.818
                           (AC-FT)       12.          16.          16.           16.

                          CUMULATIVE AREA =    0.08 SQ MI

      ***             ***            ***            ***            ***

                           HYDROGRAPH AT STATION   Combo5
                             FOR PLAN 1, RATIO = 1.77

  PEAK FLOW     TIME                            MAXIMUM AVERAGE FLOW
                                       6-HR         24-HR        72-HR      24.92-HR
+   (CFS)       (HR)
                            (CFS)
+      117.     12.00                   30.           10.           9.            9.
                          (INCHES)     3.664        4.671        4.671         4.671
                           (AC-FT)       15.          19.          19.           19.

                          CUMULATIVE AREA =    0.08 SQ MI

      ***             ***            ***            ***            ***

                           HYDROGRAPH AT STATION   Combo5
                             FOR PLAN 1, RATIO = 2.00
```

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 134.	12.00		35.	11.	11.	11.
		(INCHES)	4.245	5.437	5.437	5.437
		(AC-FT)	17.	22.	22.	22.

CUMULATIVE AREA = 0.08 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo5
FOR PLAN 1, RATIO = 2.23

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)					
		(CFS)				
+ 152.	12.00		40.	13.	12.	12.
		(INCHES)	4.826	6.209	6.209	6.209
		(AC-FT)	20.	25.	25.	25.

CUMULATIVE AREA = 0.08 SQ MI

*** ***

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         ***************
         *             *
76 KK    *    Wsite    *
         *             *
         ***************
```

NE Middle School (West Off-site Basin)

SUBBASIN RUNOFF DATA

78 BA SUBBASIN CHARACTERISTICS
TAREA 0.05 SUBBASIN AREA

PRECIPITATION DATA

10 PB STORM 3.50 BASIN TOTAL PRECIPITATION

12 PI INCREMENTAL PRECIPITATION PATTERN

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
0.04	0.04	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

80 LS SCS LOSS RATE
STRTL 0.50 INITIAL ABSTRACTION
CRVNBR 80.00 CURVE NUMBER
RTIMP 0.00 PERCENT IMPERVIOUS AREA

79 UD SCS DIMENSIONLESS UNITGRAPH
TLAG 0.29 LAG

***

UNIT HYDROGRAPH
19 END-OF-PERIOD ORDINATES

```
               11.      37.      69.      78.      69.      52.      33.      22.      15.      10.
                6.       4.       3.       2.       1.       1.       1.       0.       0.

    TOTAL RAINFALL =    3.50, TOTAL LOSS =    1.86, TOTAL EXCESS =    1.64

  PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+      29.     12.08                 8.          2.          2.           2.
                        (INCHES)  1.325       1.636       1.636        1.636
                         (AC-FT)     4.          5.          5.           5.

                        CUMULATIVE AREA =     0.05 SQ MI

      ***           ***          ***           ***           ***

                         HYDROGRAPH AT STATION     Wsite
                           FOR PLAN 1, RATIO = 1.00

    TOTAL RAINFALL =    3.50, TOTAL LOSS =    1.86, TOTAL EXCESS =    1.64

  PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+      29.     12.08                 8.          2.          2.           2.
                        (INCHES)  1.325       1.636       1.636        1.636
                         (AC-FT)     4.          5.          5.           5.

                        CUMULATIVE AREA =     0.05 SQ MI

      ***           ***          ***           ***           ***

                         HYDROGRAPH AT STATION     Wsite
                           FOR PLAN 1, RATIO = 1.31

    TOTAL RAINFALL =    4.60, TOTAL LOSS =    2.05, TOTAL EXCESS =    2.55

  PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+      44.     12.08                12.          4.          4.           4.
                        (INCHES)  2.053       2.547       2.547        2.547
                         (AC-FT)     6.          7.          7.           7.

                        CUMULATIVE AREA =     0.05 SQ MI

      ***           ***          ***           ***           ***

                         HYDROGRAPH AT STATION     Wsite
                           FOR PLAN 1, RATIO = 1.51

    TOTAL RAINFALL =    5.30, TOTAL LOSS =    2.14, TOTAL EXCESS =    3.16

  PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+      55.     12.08                15.          5.          4.           4.
                        (INCHES)  2.534       3.156       3.156        3.156
                         (AC-FT)     7.          9.          9.           9.

                        CUMULATIVE AREA =     0.05 SQ MI

      ***           ***          ***           ***           ***

                         HYDROGRAPH AT STATION     Wsite
                           FOR PLAN 1, RATIO = 1.77

    TOTAL RAINFALL =    6.20, TOTAL LOSS =    2.24, TOTAL EXCESS =    3.96

  PEAK FLOW     TIME                        MAXIMUM AVERAGE FLOW
                                   6-HR       24-HR       72-HR     24.92-HR
+   (CFS)       (HR)
                          (CFS)
+      68.     12.08                18.          6.          5.           5.
                        (INCHES)  3.167       3.962       3.962        3.962
                         (AC-FT)     9.         11.         11.          11.

                        CUMULATIVE AREA =     0.05 SQ MI

      ***           ***          ***           ***           ***

                         HYDROGRAPH AT STATION     Wsite
```

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                                    FOR PLAN 1, RATIO = 2.00

      TOTAL RAINFALL =    7.00, TOTAL LOSS =    2.31, TOTAL EXCESS =    4.69

    PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR       72-HR      24.92-HR
  +   (CFS)       (HR)
                               (CFS)
  +      80.      12.08                  21.          7.          6.           6.
                             (INCHES)   3.739       4.694       4.694        4.694
                             (AC-FT)      11.         13.         13.          13.

                              CUMULATIVE AREA =    0.05 SQ MI

       ***            ***            ***            ***            ***

                              HYDROGRAPH AT STATION    Wsite
                                FOR PLAN 1, RATIO = 2.23

      TOTAL RAINFALL =    7.80, TOTAL LOSS =    2.36, TOTAL EXCESS =    5.44

    PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR       72-HR      24.92-HR
  +   (CFS)       (HR)
                               (CFS)
  +      92.      12.08                  25.          8.          8.           8.
                             (INCHES)   4.316       5.437       5.437        5.437
                             (AC-FT)      12.         15.         15.          15.

                              CUMULATIVE AREA =    0.05 SQ MI


*** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***

              **************
              *            *
   81 KK      *   Combo6   *
              *            *
              **************

   82 HC          HYDROGRAPH COMBINATION
                        ICOMP            3  NUMBER OF HYDROGRAPHS TO COMBINE

                                                                  ***

       ***            ***            ***            ***            ***

                              HYDROGRAPH AT STATION    Combo6
                                FOR PLAN 1, RATIO = 1.00

    PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR       72-HR      24.92-HR
  +   (CFS)       (HR)
                               (CFS)
  +     262.      12.17                  97.         31.         30.          30.
                             (INCHES)   1.291       1.636       1.636        1.636
                             (AC-FT)      48.         61.         61.          61.

                              CUMULATIVE AREA =    0.70 SQ MI

       ***            ***            ***            ***            ***

                              HYDROGRAPH AT STATION    Combo6
                                FOR PLAN 1, RATIO = 1.31

    PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR       72-HR      24.92-HR
  +   (CFS)       (HR)
                               (CFS)
  +     432.      12.08                 153.         48.         46.          46.
                             (INCHES)   2.035       2.553       2.553        2.553
                             (AC-FT)      76.         95.         95.          95.

                              CUMULATIVE AREA =    0.70 SQ MI

       ***            ***            ***            ***            ***

                              HYDROGRAPH AT STATION    Combo6
                                FOR PLAN 1, RATIO = 1.51

    PEAK FLOW     TIME                          MAXIMUM AVERAGE FLOW
                                        6-HR        24-HR       72-HR      24.92-HR
  +   (CFS)       (HR)
                               (CFS)
  +     539.      12.08                 190.         59.         57.          57.
```

(INCHES)	2.529	3.164	3.164	3.164
(AC-FT)	94.	118.	118.	118.

CUMULATIVE AREA = 0.70 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo6
FOR PLAN 1, RATIO = 1.77

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)			
+ 685.	12.08	239.	75.	72.	72.
		(INCHES) 3.177	3.972	3.972	3.972
		(AC-FT) 118.	148.	148.	148.

CUMULATIVE AREA = 0.70 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo6
FOR PLAN 1, RATIO = 2.00

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)			
+ 813.	12.08	282.	88.	85.	85.
		(INCHES) 3.746	4.705	4.705	4.705
		(AC-FT) 140.	175.	175.	175.

CUMULATIVE AREA = 0.70 SQ MI

*** *** *** *** ***

HYDROGRAPH AT STATION Combo6
FOR PLAN 1, RATIO = 2.23

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	24.92-HR
+ (CFS)	(HR)	(CFS)			
+ 941.	12.08	325.	102.	99.	99.
		(INCHES) 4.318	5.449	5.449	5.449
		(AC-FT) 161.	203.	203.	203.

CUMULATIVE AREA = 0.70 SQ MI

1

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

					RATIOS APPLIED TO PRECIPITATION					
OPERATION	STATION	AREA	PLAN		RATIO 1 1.00	RATIO 2 1.31	RATIO 3 1.51	RATIO 4 1.77	RATIO 5 2.00	RATIO 6 2.23
HYDROGRAPH AT										
+	Center	0.04	1	FLOW	21.	33.	41.	51.	60.	69.
				TIME	12.00	12.00	12.00	12.00	12.00	12.00
ROUTED TO										
+	CPond	0.04	1	FLOW	5.	9.	13.	18.	22.	28.
				TIME	13.17	13.08	12.58	12.50	12.42	12.42
			** PEAK STAGES IN FEET **							
			1	STAGE	197.94	198.46	198.76	199.15	199.50	199.82
				TIME	13.17	13.08	12.58	12.50	12.42	12.42
HYDROGRAPH AT										
+	East	0.22	1	FLOW	91.	141.	174.	217.	255.	294.
				TIME	12.50	12.50	12.50	12.42	12.42	12.42
HYDROGRAPH AT										
+	OneSit	0.05	1	FLOW	27.	41.	50.	63.	73.	84.
				TIME	12.00	12.00	12.00	12.00	12.00	12.00
HYDROGRAPH AT										
+	North	0.05	1	FLOW	17.	29.	37.	48.	58.	68.
				TIME	12.17	12.17	12.17	12.17	12.17	12.17
3 COMBINED AT										
+	Combo1	0.31	1	FLOW	116.	184.	229.	290.	344.	398.
				TIME	12.25	12.25	12.17	12.17	12.17	12.17

2 COMBINED AT	Combo2	0.35	1	FLOW	121.	192.	242.	306.	364.	424.
+				TIME	12.25	12.25	12.25	12.25	12.17	12.17
ROUTED TO	NPond	0.35	1	FLOW	119.	190.	239.	303.	360.	419.
+				TIME	12.50	12.42	12.33	12.33	12.33	12.33
			** PEAK STAGES IN FEET **							
			1	STAGE	193.62	193.86	194.02	194.18	194.33	194.47
				TIME	12.50	12.42	12.33	12.33	12.33	12.33
HYDROGRAPH AT	ESite	0.01	1	FLOW	3.	4.	5.	6.	8.	9.
+				TIME	12.00	12.00	12.00	12.00	12.00	12.00
2 COMBINED AT	Combo3	0.36	1	FLOW	119.	191.	241.	306.	363.	423.
+				TIME	12.50	12.42	12.33	12.33	12.25	12.25
HYDROGRAPH AT	Nsite	0.21	1	FLOW	97.	153.	190.	238.	281.	325.
+				TIME	12.25	12.25	12.25	12.25	12.25	12.17
2 COMBINED AT	Combo4	0.57	1	FLOW	213.	341.	427.	543.	645.	747.
+				TIME	12.33	12.25	12.25	12.25	12.25	12.25
HYDROGRAPH AT	ESite2	0.01	1	FLOW	4.	6.	8.	10.	12.	14.
+				TIME	12.00	12.00	12.00	12.00	12.00	12.00
HYDROGRAPH AT	Site	0.07	1	FLOW	53.	75.	89.	106.	122.	138.
+				TIME	12.00	12.00	12.00	12.00	12.00	12.00
2 COMBINED AT	Combo5	0.08	1	FLOW	57.	81.	97.	117.	134.	152.
+				TIME	12.00	12.00	12.00	12.00	12.00	12.00
HYDROGRAPH AT	Wsite	0.05	1	FLOW	29.	44.	55.	68.	80.	92.
+				TIME	12.08	12.08	12.08	12.08	12.08	12.08
3 COMBINED AT	Combo6	0.70	1	FLOW	262.	432.	539.	685.	813.	941.
+				TIME	12.17	12.08	12.08	12.08	12.08	12.08

*** NORMAL END OF HEC-1 ***

CURRENT DATE: 11-29-2001 FILE DATE: 11-29-2001
CURRENT TIME: 11:16:07 FILE NAME: NEMID2

****
********** FHWA CULVERT ANALYSIS **********
********** HY-8, VERSION 6.1 **********

C U L V NO.	SITE DATA: INLET ELEV. (ft)	SITE DATA: OUTLET ELEV. (ft)	SITE DATA: CULVERT LENGTH (ft)	CULVERT SHAPE, MATERIAL, INLET: BARRELS SHAPE MATERIAL	SPAN (ft)	RISE (ft)	MANNING n	INLET TYPE
1	189.50	189.00	88.00	2 RCB	9.00	3.00	.012	CONVENTIONAL
2								
3								
4								
5								
6								

****

SUMMARY OF CULVERT FLOWS (cfs) FILE: NEMID2 DATE: 11-29-2001

ELEV (ft)	TOTAL	1	2	3	4	5	6	ROADWAY	ITR
189.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1
190.39	45.0	45.0	0.0	0.0	0.0	0.0	0.0	0.00	1
190.91	90.0	90.0	0.0	0.0	0.0	0.0	0.0	0.00	1
191.35	135.0	135.0	0.0	0.0	0.0	0.0	0.0	0.00	1
191.75	180.0	180.0	0.0	0.0	0.0	0.0	0.0	0.00	1
192.11	225.0	225.0	0.0	0.0	0.0	0.0	0.0	0.00	1
192.48	270.0	270.0	0.0	0.0	0.0	0.0	0.0	0.00	1
192.85	315.0	315.0	0.0	0.0	0.0	0.0	0.0	0.00	1
193.25	360.0	360.0	0.0	0.0	0.0	0.0	0.0	0.00	1
193.69	405.0	405.0	0.0	0.0	0.0	0.0	0.0	0.00	1
193.86	421.0	421.0	0.0	0.0	0.0	0.0	0.0	0.00	1
195.30	539.2	539.2	0.0	0.0	0.0	0.0	0.0	OVERTOPPING	

****

SUMMARY OF ITERATIVE SOLUTION ERRORS FILE: NEMID2 DATE: 11-29-2001

HEAD ELEV (ft)	HEAD ERROR (ft)	TOTAL FLOW (cfs)	FLOW ERROR (cfs)	% FLOW ERROR
189.50	0.000	0.00	0.00	0.00
190.39	0.000	45.00	0.00	0.00
190.91	0.000	90.00	0.00	0.00
191.35	0.000	135.00	0.00	0.00
191.75	0.000	180.00	0.00	0.00
192.11	0.000	225.00	0.00	0.00
192.48	0.000	270.00	0.00	0.00
192.85	0.000	315.00	0.00	0.00
193.25	0.000	360.00	0.00	0.00
193.69	0.000	405.00	0.00	0.00
193.86	0.000	421.00	0.00	0.00

****
<1> TOLERANCE (ft) = 0.010 <2> TOLERANCE (%) = 1.000
****

CURRENT DATE: 11-29-2001 FILE DATE: 11-29-2001
CURRENT TIME: 11:16:07 FILE NAME: NEMID2

PERFORMANCE CURVE FOR CULVERT 1 - 2(9.00 (ft) BY 3.00 (ft)) RCB

DIS-CHARGE FLOW (cfs)	HEAD-WATER ELEV. (ft)	INLET CONTROL DEPTH (ft)	OUTLET CONTROL DEPTH (ft)	FLOW TYPE <F4>	NORMAL DEPTH (ft)	CRIT. DEPTH (ft)	OUTLET DEPTH (ft)	TW DEPTH (ft)	OUTLET VEL. (fps)	TW VEL. (fps)
0.00	189.50	0.00	0.00	0-NF	0.00	0.00	0.00	0.00	0.00	0.00
45.00	190.39	0.89	0.89	1-S2n	0.46	0.58	0.38	0.36	6.57	1.53
90.00	190.91	1.41	1.41	1-S2n	0.72	0.92	0.62	0.54	8.05	1.99
135.00	191.35	1.85	1.85	1-S2n	0.94	1.21	0.97	0.68	7.76	2.31
180.00	191.75	2.25	2.25	1-S2n	1.13	1.46	1.18	0.81	8.48	2.57
225.00	192.11	2.61	2.61	1-S2n	1.31	1.70	1.37	0.92	9.09	2.79
270.00	192.48	2.98	2.98	1-S2n	1.49	1.92	1.56	1.03	9.59	2.98
315.00	192.85	3.35	3.35	5-S2n	1.65	2.12	1.74	1.12	10.04	3.15
360.00	193.25	3.75	3.75	5-S2n	1.80	2.32	1.91	1.22	10.47	3.30
405.00	193.69	4.19	4.19	5-S2n	1.95	2.51	2.08	1.30	10.81	3.44
421.00	193.86	4.36	4.36	5-S2n	2.00	2.58	2.14	1.33	10.95	3.49

El. inlet face invert 189.50 ft El. outlet invert 189.00 ft
El. inlet throat invert 0.00 ft El. inlet crest 0.00 ft

***** SITE DATA ***** CULVERT INVERT **********

INLET STATION	100.00 ft
INLET ELEVATION	189.50 ft
OUTLET STATION	188.00 ft
OUTLET ELEVATION	189.00 ft
NUMBER OF BARRELS	2
SLOPE (V/H)	0.0057
CULVERT LENGTH ALONG SLOPE	88.00 ft

***** CULVERT DATA SUMMARY **********

BARREL SHAPE	BOX
BARREL SPAN	9.00 ft
BARREL RISE	3.00 ft
BARREL MATERIAL	CONCRETE
BARREL MANNING'S n	0.012
INLET TYPE	CONVENTIONAL
INLET EDGE AND WALL	SQUARE EDGE (30-75 DEG. FLARE)
INLET DEPRESSION	NONE

CURRENT DATE: 11-29-2001
CURRENT TIME: 11:16:07

FILE DATE: 11-29-2001
FILE NAME: NEMID2

****
********** TAILWATER **********
****

******* REGULAR CHANNEL CROSS SECTION **********

BOTTOM WIDTH	80.00 ft
SIDE SLOPE H/V (X:1)	8.0
CHANNEL SLOPE V/H (ft/ft)	0.007
MANNING'S n (.01-0.1)	0.040
CHANNEL INVERT ELEVATION	189.00 ft
CULVERT NO.1 OUTLET INVERT ELEVATION	189.00 ft

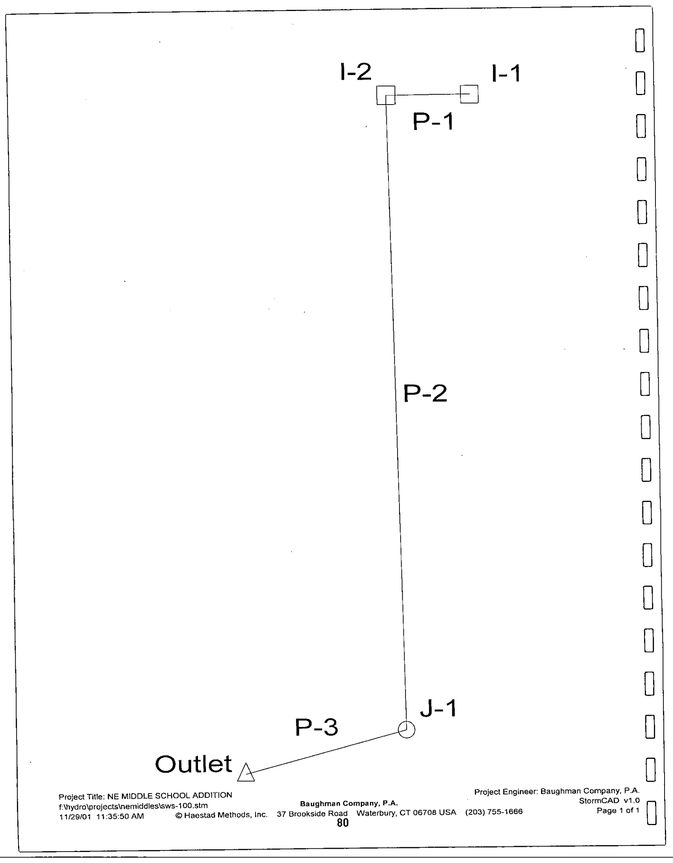
******* UNIFORM FLOW RATING CURVE FOR DOWNSTREAM CHANNEL

FLOW (cfs)	W.S.E. (ft)	FROUDE NUMBER	DEPTH (ft)	VEL. (f/s)	SHEAR (psf)
0.00	189.00	0.000	0.00	0.00	0.00
45.00	189.36	0.451	0.36	1.53	0.16
90.00	189.54	0.477	0.54	1.99	0.23
135.00	189.68	0.493	0.68	2.31	0.30
180.00	189.81	0.503	0.81	2.57	0.35
225.00	189.92	0.511	0.92	2.79	0.40
270.00	190.03	0.518	1.03	2.98	0.45
315.00	190.12	0.523	1.12	3.15	0.49
360.00	190.22	0.528	1.22	3.30	0.53
405.00	190.30	0.531	1.30	3.44	0.57
421.00	190.33	0.533	1.33	3.49	0.58

****
********** ROADWAY OVERTOPPING DATA **********
****

ROADWAY SURFACE	PAVED
EMBANKMENT TOP WIDTH	64.00 ft
CREST LENGTH	100.00 ft
OVERTOPPING CREST ELEVATION	195.30 ft

****



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Page 1 of 1

SYSTEM #1

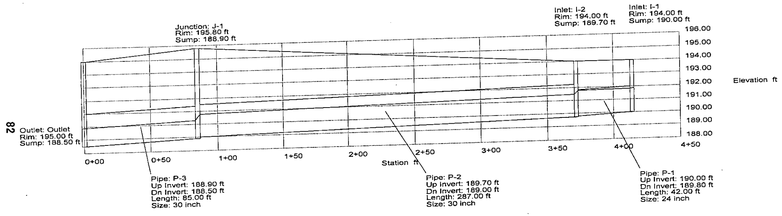
Pipe Report

	Pipe Section	Upstream Node	Downstream Node	Discharge (cfs)	Constructed (ft/ft)	Length (ft)	Section Size	Mannings n	Upstream Invet (ft)	Downstream Invert (ft)	Upstream Ground (ft)	Downstream Ground (ft)	Upstream HGL (ft)	Downstream HGL (ft)
5-Yr	P-1	I-1	I-2	8.77	0.004762	42	24 inch	0.013	190.00	189.80	194.00	194.00	191.79	191.75
	P-2	I-2	J-1	17.42	0.002439	287	30 inch	0.013	189.70	189.00	194.00	195.80	191.48	190.74
	P-3	J-1	Outlet	16.92	0.004706	85	30 inch	0.013	188.90	188.50	195.80	195.00	190.30	189.90
100-yr	P-1	I-1	I-2	17.65	0.004762	42	24 inch	0.013	190.00	189.80	194.00	194.00	195.23	194.97
	P-2	I-2	J-1	35.19	0.002439	287	30 inch	0.013	189.70	189.00	194.00	195.80	194.33	192.22
	P-3	J-1	Outlet	34.58	0.004706	85	30 inch	0.013	188.90	188.50	195.80	195.00	191.60	191.00

Node Report

	Node	Area (acres)	Runoff Coefficient	Tc (min)	Rainfall Intensity (in/hr)	Discharge (cfs)	Ground Elevation (ft)	HGL In (ft)	HGL Out (ft)
5-Yr	I-1	3.6	0.53	15	4.56	8.77	194.00	191.86	191.79
	I-2	3.6	0.53	15	4.53	17.42	194.00	191.75	191.48
	J-1	N/A	N/A	N/A	4.4	16.92	195.80	190.74	190.30
	Outlet	N/A	N/A	N/A	4.37	N/A	195.00	189.90	189.90
100-yr	I-1	3.6	0.66	15	7.37	17.65	194.00	195.47	195.23
	I-2	3.6	0.66	15	7.35	35.19	194.00	194.97	194.33
	J-1	N/A	N/A	N/A	7.22	34.58	195.80	192.22	191.60
	Outlet	N/A	N/A	N/A	7.18	N/A	195.00	191.00	191.00

NE MIDDLE SCHOOL ADDITION



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5 YR - HGL

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Page 1 of 1

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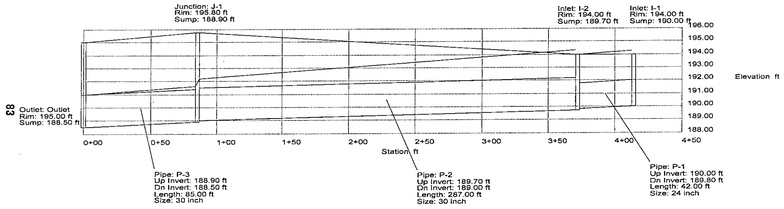

100-YR HGL

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Page 1 of 1