CITY OF ALBUQUERQUE

March 7, 2007

Jason Woodruff, P.E.
GND, LLC
5643 Paradise Blvd NW
Albuquerque, NM 87114

Re: Oxbow Town Center (Tracts 1-A-2 and X-2-A) Master Drainage Plan Engineer's Stamp dated 3-7-07 (G11/D067)

Dear Mr. Woodruff,

Based upon the information provided in your submittal dated 1-31-07, the above referenced plan is approved for Site Development Plan for Subdivision and Site Development Plan for Building Permit action be the DRB.

Please note:

- Temporary retention ponds should be sized for the 100 yr 10 day storm.
- The required volume of Pond 7 per the AHYMO Summary is 0.496 ac-ft , while the plans show the volume as 0.47 ac-ft.

If you have any questions, you can contact me at 924-3695.

Sincerely,

Curtis A. Cherne, E.I.
Engineering Associate, Planning Dept.
Development and Building Services

C: file
Brad Bingham

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

CITY OF ALBUQUERQUE

November 9, 2007

Jason Woodruff, P.E.
GND Consulting Engineers
5643 Paradise Blvd. NW
Albuquerque, NM 87114

Re: Oxbow Town Center (Tracts ~~1-A-2~~ X1-A2 and X-2-A), Master Drainage Plan Engineer's Stamp dated 10-02-07 (G11-D67)

Dear Mr. Woodruff,

Based upon the information provided in your submittal received 10-04-07, the above referenced plan is approved for Master Plan requirements. Please note that a site-specific grading and drainage plan will need to be submitted for each phase of this project. In addition, the above referenced plan is approved for Preliminary Plat, Site Development Plan for Building Permit, and Site Development Plan for Subdivision action by the DRB. Once the DRB has approved the plan, please submit a mylar copy and a copy of your DRB action sheet in order to obtain rough grading approval.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. In addition to submitting an NOI to the EPA and preparing a SWPPP, please send a copy of the SWPPP on a CD in .pdf format to the following address:

Department of Municipal Development
Storm Drainage Division
P.O. Box 1293, One Civic Plaza, Rm. 301
Attn: Kathy Verhage
Albuquerque, NM 87103

If you have any questions regarding this permit please feel free to call the DMD Storm Drainage Design section at 768-3654 (Kathy Verhage).

Sincerely,

Kristal D. Metro, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: Kathy Verhage, DMD Storm Drainage Design
Bradley Bingham, DRB
File

P.O. Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV 12/2005)

G-11/D067

PROJECT TITLE: Oxbow Town Center (Tracts 1-A-2 and X-2-A)
ZONE MAP: G-11
DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: SEE ROUGH GRADING PLAN FOR LEGAL DESCRIPTION
CITY ADDRESS: _____

ENGINEERING FIRM: GND, LLC — CONTACT: Jason Woodruff
ADDRESS: 5643 Paradise Blvd — PHONE: 899-6182
CITY, STATE: Albuquerque, NM — ZIP CODE: 87114

OWNER: Jim Rogers — CONTACT: Same as above
ADDRESS: 4407 Lomas Blvd — PHONE: 899-6182
CITY, STATE: Albuquerque, NM 87110 — ZIP CODE: 87110

ARCHITECT: George Rainhart Architect And Assoc. — CONTACT: _____
ADDRESS: 2325 San Pedro — PHONE: 884-9110
CITY, STATE: Albuquerque, NM — ZIP CODE: 87110

SURVEYOR: Surv-Tek — CONTACT: Russ Hugg
ADDRESS: 9384 Valley View Drive — PHONE: 897-3366
CITY, STATE: Albuquerque, NM — ZIP CODE: 87114

CONTRACTOR: _____ — CONTACT: _____
ADDRESS: _____ — PHONE: _____
CITY, STATE: _____ — ZIP CODE: _____

TYPE OF SUBMITTAL:
- ____ DRAINAGE REPORT
- ____ DRAINAGE PLAN 1st SUBMITTAL
- X DRAINAGE PLAN RESUBMITTAL
- X CONCEPTUAL G & D PLAN
- ____ GRADING PLAN
- ____ EROSION CONTROL PLAN
- ____ ENGINEER'S CERT (HYDROLOGY)
- ____ CLOMR/LOMR
- ____ TRAFFIC CIRCULATION LAYOUT
- ____ ENGINEER'S CERT (TCL)
- ____ ENGINEER'S CERT (DRB SITE PLAN)
- ____ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL SOUGHT:
- ____ SIA/FINANCIAL GUARANTEE RELEASE
- X PRELIMINARY PLAT APPROVAL
- X S. DEV. PLAN FOR SUB'D APPROVAL
- X S. DEV. FOR BLDG. PERMIT APPROVAL
- X SECTOR PLAN APPROVAL
- ____ FINAL PLAT APPROVAL
- ____ FOUNDATION PERMIT APPROVAL
- ____ BUILDING PERMIT APPROVAL
- ____ CERTIFICATE OF OCCUPANCY (PERM)
- ____ CERTIFICATE OF OCCUPANCY (TEMP)
- ____ GRADING PERMIT APPROVAL
- ____ PAVING PERMIT APPROVAL
- ____ WORK ORDER APPROVAL
- ____ OTHER – Rough Grading Permit Approval

70.00

RECEIVED
OCT 04 2007
HYDROLOGY SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED:
- ____ YES
- X NO
- ____ COPY PROVIDED

DATE SUBMITTED: Jason Woodruff — BY: 10-4-07

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.

MASTER DRAINAGE PLAN
FOR THE
OXBOW TOWN CENTER
TRACTS X-1-A-2 & X-2-A

October 2, 2007

PREPARED FOR:

Sunland Development Group, LLC
4407 Lomas Blvd
Albuquerque, NM 87110

PREPARED BY:

GND, LLC
CONSULTING ENGINEERS
5643 Paradise Blvd. NW ◊ Albuquerque, New Mexico 87114
Phone: 505-899-6182 ◊ Fax: 505-899-6184

GND, LLC

CONSULTING ENGINEERS

5643 Paradise Blvd. NW ◊ Albuquerque, New Mexico 87114
Phone: 505-899-6182 ◊ Fax: 505-899-6184

October 4, 2007

Mr. Curtis Cherne
Development and Building Services
City of Albuquerque
600 2nd Street NW, Suite 201
Albuquerque, NM 87102

Re: Oxbow Town Center: Master Drainage Plan Resubmittal

Dear Mr. Cherne:

The purpose of this letter is to advise the City of Revisions to the Oxbow Drainage Master Plan that have resulted from our recent appearance at the EPC (#1005357). The revisions to the plan consist of minor revisions to the basin boundaries caused by revisions to the site plan that are the result of specific EPC comments. The general drainage concept remains unchanged. The over all runoff from the site still meets the allowable discharge rate of 45.1 cfs to the existing outfall passing beneath Coors Blvd. Minor revisions to the onsite ponds have been made which have no effect on the conceptual storm drain plan included in the DMP.

Please feel free to contact me if you have any questions or comments regarding this matter.

Thank you,

Jason Woodruff, PE
GND, LLC
Consulting Engineers

MASTER DRAINAGE PLAN
FOR THE
OXBOW TOWN CENTER
TRACTS X-1-A-2 & X-2-A

October 2, 2007

PREPARED FOR:
Sunland Development Group
4407 Lomas Blvd
Albuquerque, NM 87110

PREPARED BY:
GND, LLC
Consulting Engineers
5643 Paradise Blvd. NW
Albuquerque, NM 87114

I, Jason Woodruff, do hereby certify that this report was prepared by me or under my direction and that I am a duly registered Professional Engineer under the laws of the State of New Mexico.

Jason Woodruff, P.E.
NMPE No. 17179

10-2-07
Date

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I. INTRODUCTION

Purpose

The purpose of this drainage report is to demonstrate that the proposed system of storm drainage improvements and detention ponds will safely mitigate the peak 100-year storm runoff and convey flows to the prescribed outfall in Coors Blvd per the approved *Altura West Master Drainage Plan* (Oct 1997).

Project Location and Description

The Oxbow Town Center is a 48 acre development located within the City of Albuquerque. The project is bounded on the North by the Rancho Encantado del Sur residential development, on the East by Coors Blvd, on the West by Atrisco Blvd, and on the South by the Villa de Paz residential development (See Figure 1). The proposed development will be comprised of two distinct sectors; North and South. The Northern sector (North of St. Josephs Drive) will primarily be comprised of office buildings with the SE quadrant being reserved for commercial uses. The Southern sector (South of St. Josephs Drive) will be comprised solely of commercial buildings.

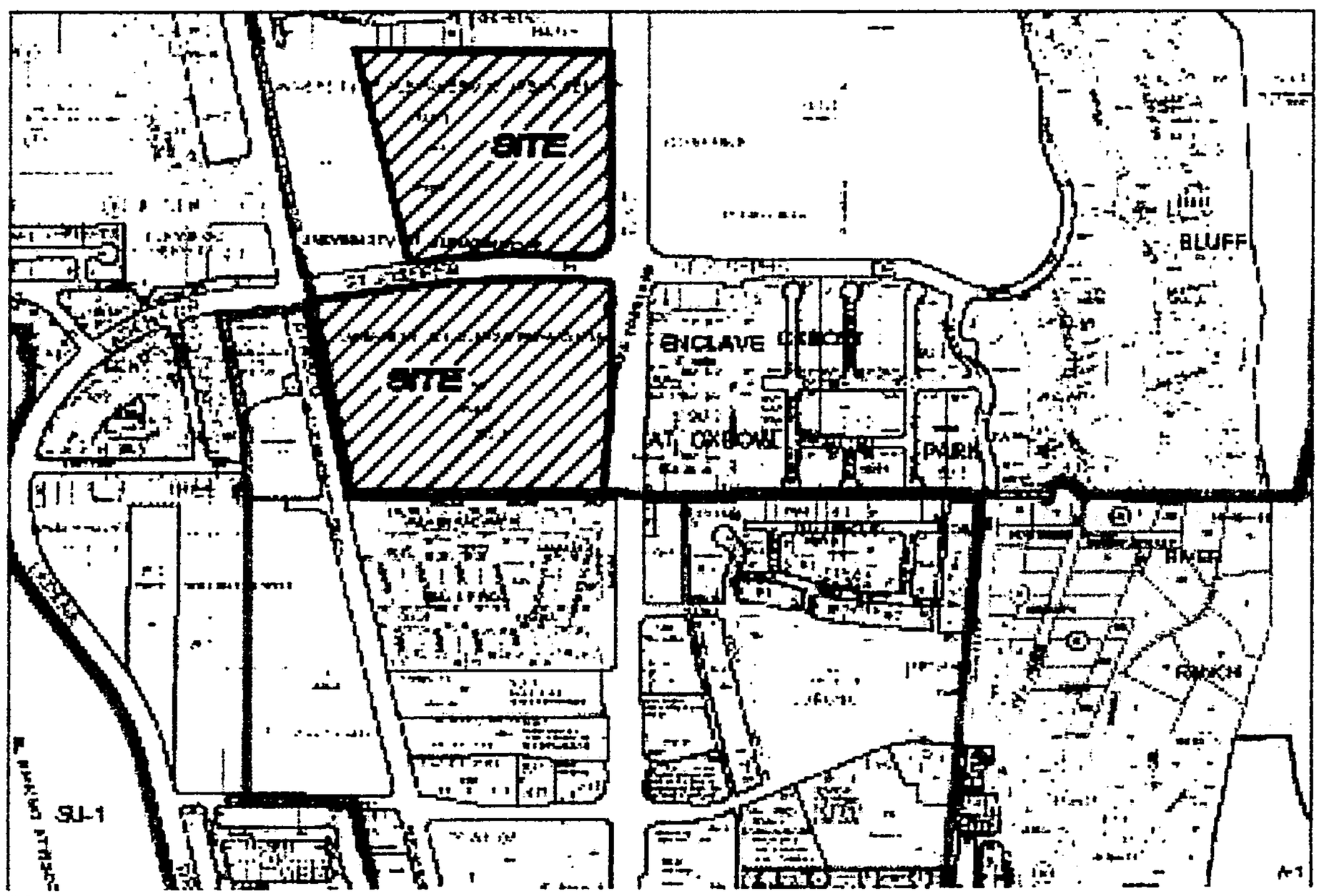

Figure 1

II. DESIGN CRITERIA/ASSUMPTIONS

The following are the design criteria/assumptions used in the design of the proposed development:

- Onsite storm drain systems will be designed using the 100-yr, 6-hr design storm.
- Onsite detention ponds will be designed using the 100-yr, 6-hr design storm.
- Per the approved Altura West Master Drainage Plan, all runoff from the developed site will be mitigated in onsite detention ponds and conveyed to the existing 36" storm drain outfall within Coors Blvd. Allowable discharge from the site will not exceed 45.1 cfs.
- Runoff from Atrisco Blvd, St. Josephs Drive, and Ladera Drive will be conveyed into the existing 60" storm drain within St. Josephs Drive.
- Runoff from the western half of Coors Blvd, north of St. Josephs Drive will be mitigated by onsite ponding and conveyed to the existing outfall within Coors Blvd.

III. HYDROLOGY

Hydrologic analyses to determine peak flow rates for street capacities and storm drain systems conforms to Section 22.2 – Hydrology of the Development Process Manual, Volume 2, Design Criteria for the City of Albuquerque, New Mexico, January 1993 (COA DPM). Hydrologic Modeling was performed using the Arid Lands Hydrologic Model, Version 1997.02.

Existing Conditions (Plate 1- Appendix D)
Existing conditions on the project site include predominately undisturbed sandy soils with slopes not exceeding 4%. Undisturbed areas are moderately vegetated with various shrubs, weeds, and grasses. A small portion of the Oxbow site, south of St. Josephs Drive, is currently functioning as a "Park and Ride" facility with minor grading and primitive road improvements. As it was stated earlier, the project has two distinct sectors. The following paragraphs describe the existing drainage patterns for each sector of the project.

The *Northern Sector* (Tract X-1-A2) of the project primarily drains to the NW corner of the property and into an existing retention pond located on the adjacent church tract. A smaller percentage of the Northern portion of the project drains to a depression adjacent to Coors Blvd in the NE corner of the site. The 100 year, 6 hour design storm currently generates approximately 29 cfs of runoff in this sector.

The *Southern Sector* (Tract X-2-A) of the project also drains in two separate directions. Approximately 60% of the project drains into Coors Blvd near the SE corner of the project. An existing storm drain west of Coors Blvd currently captures runoff exiting the site at this location. The other 40% of the Southern portion drains in a NW direction to an existing detention pond within the St. Josephs Drive right-of-way. This existing pond

also receives offsite runoff from Atrisco Blvd, St. Josephs Drive, and Ladera Drive. The existing pond then discharges to the existing 60" storm drain within St. Josephs. The 100 year, 6 hour design storm currently generates approximately 38 cfs of runoff in this sector.

The adjacent church tract located on the NE corner of St. Josephs and Atrisco currently drains in a Northerly direction to an existing retention pond. Per the approved master plan, this church tract will be allowed to discharge runoff to the outfall within Coors Blvd. This allowable discharge rate has been determined to be 9.5 cfs.

Offsite street flows within Atrisco Blvd and St. Josephs currently drain to the existing detention pond within the St. Josephs Right-of-Way. This pond then discharges to the existing 60" storm drain within St. Josephs. Basins X4 drains north along Coors Blvd and away from the project site. Per the approved Master Drainage plan, runoff from this basin will be intercepted, ponded on site, and finally discharged to the existing outfall in Coors. Basin X7 currently drains to the roadside swale west of Coors Blvd and is captured by the existing storm drain system paralleling Coors.

Hydrology input and output summary files can be found in *Appendices A and B* of this report.

Proposed Conditions (Plate 2 – Appendix D)
The proposed drainage improvements include the construction of multiple detention ponds located throughout the site as well as the associated storm drain systems. The proposed drainage improvements will capture, mitigate, and convey runoff from both onsite and offsite basins to the proposed outfall within Coors Blvd. Discharge to the existing outfall will not exceed the allowable discharge rate set by the approved master drainage plan.

Per the approved *Altura West Master Drainage Plan*, the allowable discharge rate at the existing storm drain outfall in Coors Blvd is limited 45.1 CFS. This allowable discharge rate is intended to accommodate the following parcels:

- Tract X-1-A-1 (Exist Church) 10.01 acres
- Oxbow Town Center (Tract X-1-A-2) 21.22 acres
- Oxbow Town Center (Tract X-2-A) 26.40 acres
- Portion of Coors draining to outfall 1.99 acres

The parcels located north of St. Josephs that are accommodated by the existing outfall have an allowable discharge rate set at 31.5 cfs (A portion of the overall discharge rate of 45.1 cfs). Total lands north of St. Josephs amounts to 33.22 acres. This equates to an allowable discharge rate of 0.95 cfs/acres. The following are the allowable discharge rates associated with each parcel north of St Josephs:

- Tract X-1-A-1 (Existing Church Site) 9.50 cfs
- Oxbow Town Center (Tracts X-1-A-2 plus street flows) 22.01 cfs

Tract X-2-A, south of St. Josephs, has an allowable discharge rate of 13.6 cfs per the approved master drainage plan. By combining the allowable discharge rates for all of the proposed Oxbow Town Center as well as the adjacent street flows in Coors (35.61 cfs for the approximate 49.61 Acres), an overall allowable discharge rate of 0.718 cfs/acre has been established for future developments within Oxbow. To ensure that this discharge rate is not exceeded, a series of detention ponds and storm drain will be constructed.

The proposed detention ponds will come in two forms; above ground ponding and underground ponding. Due to site constraints, certain detention ponds will be routed through other ponds on their way to the project outfall in Coors Blvd. Storm drain and ponding configurations can be seen on *Plates 4 & 5 of Appendix D.*

Phasing

The drainage improvements for the proposed development will be constructed in phases. The first phase will focus on the Southern Sector (Tract X-2-A) of the Oxbow Town Center. Currently, it is expected that all buildings and supporting infrastructure for those buildings will be constructed as part of phase one with the exception of four pad sites. These remaining pad sites should be graded as necessary and temporary detention/retention ponds provided to mitigate their flows. Refer to *Plate 3 of Appendix D (Conceptual Grading Plan)* for the phasing boundary.

Since the Northern Sector (Tract X-1-A-2) will eventually discharge its runoff through the southern sector, all drainage improvements necessary to allow this will be constructed in conjunction with phase one.

Future phases may include the development of pad sites in both the Northern and Southern Sectors. All future phases will be addressed on a case by case basis, but will generally adhere to the overall grading and drainage concept outlined in this report.

The current conceptual grading and drainage plan for the Northern Sector includes a series of four surface ponds located at the four corners of the tract. The four ponds will discharge runoff into a future storm drain that will convey flows across St. Josephs Drive at two crossing locations to be constructed as part of phase one. Refer to *Plates 4 & 5 of Appendix D for the Conceptual Storm Drain Design and Pond Info.*

IV. HYDRAULICS

Storm Inlets and Storm Sewer (See Appendix C)
Storm inlet interception rates and storm sewer capacities were determined using Hydraflow by Intelisolve. Inlet and storm drain design calculations are included in Appendix C.

Detention Ponds

The detention ponds were designed using the 100-yr 6-hr storm event. Each pond, whether it is above ground or underground, will have its release rate controlled by any orifice plate at its outlet. See Appendix B for all orifice calculations.

V. CONCLUSIONS

The analysis performed for this report demonstrates that the proposed drainage improvements will safely convey and detain the fully developed 100-yr storm runoff from the basins associated with the Oxbow Town Center.

APPENDIX A

AHYMO Existing Input/Output

```
*  Project Number 6010 (OXBOW TOWN CENTER) 011207
*  EXISTING Conditions
*  100 YEAR 24 HOUR RAINFALL TABLE
*RAINFALL                TYPE=1  RAIN QUARTER=0
*                        RAIN ONE=1.87 IN  RAIN SIX=2.20 IN
*                        RAIN DAY=2.66 IN  DT=0.03333 HRS
*  10 YEAR RAINFALL TABLE
RAINFALL                TYPE=1  RAIN QUARTER=0.0
                        RAIN ONE=1.25 IN  RAIN SIX=1.47 IN
                        RAIN DAY=1.77 IN  DT=0.03333 HRS
**********************************************************
**********************************************************
**********************************************************
*S  COMPUTE HYD BASIN X1
COMPUTE NM HYD          ID=1  HYDNO=100  AREA=0.01175SQ MI
                        PER A=0 PER B=0 PER C=20 PER D=80
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=1   CODE=5
**********************************************************
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COMPUTE NM HYD          ID=2  HYDNO=200  AREA=0.02419SQ MI
                        PER A=90 PER B=10 PER C=0 PER D=0
                        TP=.13333 HR MASS RAIN=-1
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**********************************************************
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COMPUTE NM HYD          ID=3  HYDNO=300  AREA=0.00904SQ MI
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PRINT HYD               ID=3   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN X4
COMPUTE NM HYD          ID=4  HYDNO=301  AREA=0.00332SQ MI
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                        TP=.13333 HR MASS RAIN=-1
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**********************************************************
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COMPUTE NM HYD          ID=5  HYDNO=400  AREA=0.01581SQ MI
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**********************************************************
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COMPUTE NM HYD          ID=6  HYDNO=500  AREA=0.02559SQ MI
                        PER A=80 PER B=10 PER C=10 PER D=0
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PRINT HYD               ID=6   CODE=5
**********************************************************
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COMPUTE NM HYD          ID=7  HYDNO=501  AREA=0.00374SQ MI
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                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=7   CODE=5
**********************************************************
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COMPUTE NM HYD          ID=8  HYDNO=502  AREA=0.01562SQ MI
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                        TP=.13333 HR MASS RAIN=-1
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**********************************************************
**********************************************************
```

```
*S ADD X3 AND X4
ADD HYD                 ID=10 HYDNO=600
                        ID=3 ID=4
PRINT HYD               ID=10 CODE=5
*************************************************************
*S ADD X6 AND X7
ADD HYD                 ID=11 HYDNO=700
                        ID=6 ID=7
*PRINT HYD              ID=11 CODE=5
*************************************************************
*************************************************************
*************************************************************
FINISH
```

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          AHYMO PROGRAM (AHYMO_97) -                          - Version:  1997.02c
               RUN DATE (MON/DAY/YR) = 01/28/2007
               START TIME (HR:MIN:SEC) = 22:03:51     USER NO.=
AHYMO-C-9803c01UNMLIB-AH
               INPUT FILE = EX10.HMI

     *  Project Number 6010 (OXBOW TOWN CENTER) 011207

     *  EXISTING Conditions

     *  100 YEAR 24 HOUR RAINFALL TABLE

     *RAINFALL                TYPE=1  RAIN QUARTER=0

     *                        RAIN ONE=1.87 IN  RAIN SIX=2.20 IN

     *                        RAIN DAY=2.66 IN  DT=0.03333 HRS

     *  10 YEAR RAINFALL TABLE

     RAINFALL                TYPE=1  RAIN QUARTER=0.0

                             RAIN ONE=1.25 IN  RAIN SIX=1.47 IN

                             RAIN DAY=1.77 IN  DT=0.03333 HRS

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PEAK AT 1.40 HR.
                    DT =     .033330 HOURS       END TIME =     5.999400 HOURS
                       .0000   .0011   .0022   .0033   .0045   .0056   .0069
                       .0081   .0094   .0106   .0120   .0133   .0147   .0162
                       .0177   .0192   .0208   .0224   .0241   .0258   .0276
                       .0294   .0314   .0334   .0355   .0377   .0400   .0424
                       .0449   .0476   .0504   .0538   .0575   .0615   .0700
                       .0889   .1181   .1600   .2173   .2925   .3884   .5078
                       .6535   .7888   .8453   .8930   .9354   .9740  1.0095
                      1.0425  1.0733  1.1022  1.1294  1.1551  1.1793  1.2022
                      1.2240  1.2446  1.2641  1.2827  1.3003  1.3044  1.3083
                      1.3119  1.3154  1.3187  1.3219  1.3249  1.3279  1.3307
                      1.3335  1.3361  1.3387  1.3411  1.3436  1.3459  1.3482
                      1.3504  1.3526  1.3547  1.3568  1.3588  1.3608  1.3627
                      1.3646  1.3665  1.3683  1.3701  1.3719  1.3736  1.3753
                      1.3769  1.3786  1.3802  1.3818  1.3833  1.3849  1.3864
                      1.3879  1.3893  1.3908  1.3922  1.3936  1.3950  1.3964
                      1.3977  1.3991  1.4004  1.4017  1.4030  1.4042  1.4055
                      1.4067  1.4080  1.4092  1.4104  1.4116  1.4128  1.4139
                      1.4151  1.4162  1.4173  1.4185  1.4196  1.4207  1.4217
                      1.4228  1.4239  1.4249  1.4260  1.4270  1.4280  1.4291
                      1.4301  1.4311  1.4321  1.4330  1.4340  1.4350  1.4359
                      1.4369  1.4378  1.4388  1.4397  1.4406  1.4415  1.4425
                      1.4434  1.4443  1.4451  1.4460  1.4469  1.4478  1.4486
                      1.4495  1.4503  1.4512  1.4520  1.4529  1.4537  1.4545
                      1.4553  1.4562  1.4570  1.4578  1.4586  1.4594  1.4601
                      1.4609  1.4617  1.4625  1.4633  1.4640  1.4648  1.4655
                      1.4663  1.4670  1.4678  1.4685  1.4693  1.4700

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

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

EX10

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

*S  COMPUTE HYD BASIN X1

COMPUTE NM HYD          ID=1  HYDNO=100  AREA=0.01175SQ MI

                        PER A=0 PER B=0 PER C=20 PER D=80

                        TP=.13333 HR MASS RAIN=-1

          K =   .072665HR    TP =   .133330HR    K/TP RATIO =   .545000     SHAPE
CONSTANT, N =  7.106420
          UNIT PEAK =   37.103    CFS   UNIT VOLUME =    .9991       B =   526.28
  P60 = 1.2500
          AREA =      .009400 SQ MI    IA =    .10000 INCHES    INF =    .04000
INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.033330

          K =   .108040HR    TP =   .133330HR    K/TP RATIO =   .810320     SHAPE
CONSTANT, N =  4.414309
          UNIT PEAK =   6.7313    CFS   UNIT VOLUME =    .9984       B =   381.91
  P60 = 1.2500
          AREA =      .002350 SQ MI    IA =    .35000 INCHES    INF =    .83000
INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.033330

     PRINT HYD              ID=1   CODE=5

                                        PARTIAL HYDROGRAPH   100.00

          TIME      FLOW            TIME      FLOW            TIME      FLOW
TIME      FLOW           TIME      FLOW
           HRS       CFS             HRS       CFS             HRS       CFS
 HRS       CFS            HRS       CFS
           .000        .0          1.500      19.7           3.000        .1
4.500        .1          5.999        .1
           .167        .0          1.667       9.8           3.166        .1
4.666        .1          6.166        .0
           .333        .0          1.833       6.1           3.333        .1
4.833        .1          6.333        .0
           .500        .0          2.000       4.4           3.500        .1
4.999        .1          6.499        .0
           .667        .0          2.166       2.0           3.666        .0
5.166        .1          6.666        .0
           .833        .0          2.333        .9           3.833        .0
5.333        .1          6.833        .0
          1.000        .0          2.500        .5           4.000        .0
5.499        .1
          1.167        .0          2.666        .3           4.166        .0
5.666        .1
          1.333       4.6          2.833        .2           4.333        .0
5.833        .1

          RUNOFF VOLUME =     1.07765 INCHES     =        .6753 ACRE-FEET
          PEAK DISCHARGE RATE =      19.65 CFS  AT   1.500 HOURS   BASIN AREA =
.0118 SQ. MI.
```

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

*S  COMPUTE HYD BASIN X2

COMPUTE NM HYD          ID=2  HYDNO=200  AREA=0.02419SQ MI

                        PER A=90 PER B=10 PER C=0 PER D=0

                        TP=.13333 HR MASS RAIN=-1

          K =    .175612HR     TP =    .133330HR     K/TP RATIO =  1.317123      SHAPE
CONSTANT, N =  2.724954
          UNIT PEAK =    46.913     CFS    UNIT VOLUME =     .9990        B =    258.57
  P60 = 1.2500
          AREA =       .024190 SQ MI     IA =     .63500 INCHES     INF =    1.62800
INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.033330

     PRINT HYD              ID=2   CODE=5

                                          PARTIAL HYDROGRAPH   200.00

          TIME       FLOW            TIME       FLOW            TIME       FLOW
TIME      FLOW            TIME      FLOW
           HRS       CFS              HRS       CFS              HRS       CFS
 HRS       CFS            HRS       CFS
           .000        .0            1.167        .0            2.333        .2
3.500        .0          4.666         .0
           .167        .0            1.333        .0            2.500        .2
3.666        .0          4.833         .0
           .333        .0            1.500       4.2            2.666        .1
3.833        .0          4.999         .0
           .500        .0            1.667       2.6            2.833        .1
4.000        .0          5.166         .0
           .667        .0            1.833       1.0            3.000        .1
4.166        .0
           .833        .0            2.000        .4            3.166        .0
4.333        .0
          1.000        .0            2.166        .3            3.333        .0
4.500        .0

         RUNOFF VOLUME =       .09489 INCHES      =         .1224 ACRE-FEET
         PEAK DISCHARGE RATE =        4.42 CFS  AT    1.533 HOURS    BASIN AREA =
.0242 SQ. MI.


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

*S  COMPUTE HYD BASIN X3

COMPUTE NM HYD          ID=3  HYDNO=300  AREA=0.00904SQ MI

                        PER A=90 PER B=10 PER C=0 PER D=0

                        TP=.13333 HR MASS RAIN=-1

          K =    .175612HR     TP =    .133330HR     K/TP RATIO =  1.317123      SHAPE
```

CONSTANT, N = 2.724954
UNIT PEAK = 17.532 CFS UNIT VOLUME = .9985 B = 258.57
P60 = 1.2500
AREA = .009040 SQ MI IA = .63500 INCHES INF = 1.62800
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.033330

PRINT HYD ID=3 CODE=5

HYDROGRAPH FROM AREA 300.00

TIME HRS	TIME FLOW HRS	FLOW CFS	TIME HRS	TIME FLOW HRS	FLOW CFS	TIME HRS	TIME FLOW HRS	FLOW CFS
	.000	.0		1.000	.0		2.000	.2
3.000	.0		4.000	.0				
	.167	.0		1.167	.0		2.166	.1
3.166	.0		4.166	.0				
	.333	.0		1.333	.0		2.333	.1
3.333	.0		4.333	.0				
	.500	.0		1.500	1.6		2.500	.1
3.500	.0		4.500	.0				
	.667	.0		1.667	1.0		2.666	.0
3.666	.0							
	.833	.0		1.833	.4		2.833	.0
3.833	.0							

RUNOFF VOLUME = .09489 INCHES = .0457 ACRE-FEET
PEAK DISCHARGE RATE = 1.65 CFS AT 1.533 HOURS BASIN AREA =
.0090 SQ. MI.

****

*S COMPUTE HYD BASIN X4

COMPUTE NM HYD ID=4 HYDNO=301 AREA=0.00332SQ MI

PER A=0 PER B=0 PER C=20 PER D=80

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE
CONSTANT, N = 7.106420
UNIT PEAK = 10.484 CFS UNIT VOLUME = .9982 B = 526.28
P60 = 1.2500
AREA = .002656 SQ MI IA = .10000 INCHES INF = .04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.033330

K = .108040HR TP = .133330HR K/TP RATIO = .810320 SHAPE
CONSTANT, N = 4.414309
UNIT PEAK = 1.9020 CFS UNIT VOLUME = .9935 B = 381.91
P60 = 1.2500
AREA = .000664 SQ MI IA = .35000 INCHES INF = .83000
INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=4 CODE=5

HYDROGRAPH FROM AREA 301.00

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		1.333	1.3	2.666	.1
4.000	.0		5.333	.0			
	.167	.0		1.500	5.6	2.833	.1
4.166	.0		5.499	.0			
	.333	.0		1.667	2.8	3.000	.0
4.333	.0		5.666	.0			
	.500	.0		1.833	1.7	3.166	.0
4.500	.0		5.833	.0			
	.667	.0		2.000	1.3	3.333	.0
4.666	.0		5.999	.0			
	.833	.0		2.166	.6	3.500	.0
4.833	.0		6.166	.0			
	1.000	.0		2.333	.3	3.666	.0
4.999	.0		6.333	.0			
	1.167	.0		2.500	.1	3.833	.0
5.166	.0		6.499	.0			

RUNOFF VOLUME = 1.07765 INCHES = .1908 ACRE-FEET
PEAK DISCHARGE RATE = 5.56 CFS AT 1.500 HOURS BASIN AREA = .0033 SQ. MI.

****

*S COMPUTE HYD BASIN X5

COMPUTE NM HYD ID=5 HYDNO=400 AREA=0.01581SQ MI

PER A=90 PER B=10 PER C=0 PER D=0

TP=.13333 HR MASS RAIN=-1

K = .175612HR TP = .133330HR K/TP RATIO = 1.317123 SHAPE CONSTANT, N = 2.724954
UNIT PEAK = 30.661 CFS UNIT VOLUME = .9988 B = 258.57 P60 = 1.2500
AREA = .015810 SQ MI IA = .63500 INCHES INF = 1.62800 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=5 CODE=5

HYDROGRAPH FROM AREA 400.00

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS

HRS	CFS	HRS	CFS			
	.000	.0	1.000	.0	2.000	.3
3.000	.0	4.000	.0			
	.167	.0	1.167	.0	2.166	.2
3.166	.0	4.166	.0			
	.333	.0	1.333	.0	2.333	.1
3.333	.0	4.333	.0			
	.500	.0	1.500	2.7	2.500	.1
3.500	.0	4.500	.0			
	.667	.0	1.667	1.7	2.666	.1
3.666	.0	4.666	.0			
	.833	.0	1.833	.7	2.833	.1
3.833	.0	4.833	.0			

RUNOFF VOLUME = .09489 INCHES = .0800 ACRE-FEET
PEAK DISCHARGE RATE = 2.89 CFS AT 1.533 HOURS BASIN AREA = .0158 SQ. MI.

****

*S COMPUTE HYD BASIN X6

COMPUTE NM HYD ID=6 HYDNO=500 AREA=0.02559SQ MI

PER A=80 PER B=10 PER C=10 PER D=0

TP=.13333 HR MASS RAIN=-1

K = .168481HR TP = .133330HR K/TP RATIO = 1.263636 SHAPE CONSTANT, N = 2.826119
UNIT PEAK = 51.308 CFS UNIT VOLUME = .9991 B = 267.32 P60 = 1.2500
AREA = .025590 SQ MI IA = .60500 INCHES INF = 1.54400 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=6 CODE=5

OUTFLOW HYDROGRAPH RESERVOIR 500.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		1.167	.0	2.333	.3
3.500	.0	4.666	.0				
	.167	.0		1.333	.0	2.500	.2
3.666	.0	4.833	.0				
	.333	.0		1.500	5.8	2.666	.1
3.833	.0	4.999	.0				
	.500	.0		1.667	3.4	2.833	.1
4.000	.0						
	.667	.0		1.833	1.3	3.000	.1
4.166	.0						
	.833	.0		2.000	.6	3.166	.1
4.333	.0						
	1.000	.0		2.166	.4	3.333	.0
4.500	.0						

```
        RUNOFF VOLUME =       .12025 INCHES     =        .1641 ACRE-FEET
        PEAK DISCHARGE RATE =       6.08 CFS  AT   1.533 HOURS   BASIN AREA =
.0256 SQ. MI.


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

    *S  COMPUTE HYD BASIN X7

    COMPUTE NM HYD          ID=7  HYDNO=501  AREA=0.00374SQ MI

                            PER A=0 PER B=0 PER C=20 PER D=80

                            TP=.13333 HR MASS RAIN=-1

          K =   .072665HR    TP =   .133330HR    K/TP RATIO =   .545000     SHAPE
CONSTANT, N =  7.106420
          UNIT PEAK =   11.810    CFS   UNIT VOLUME =    .9984       B =   526.28
  P60 = 1.2500
          AREA =      .002992 SQ MI    IA =    .10000 INCHES    INF =    .04000
INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.033330


          K =   .108040HR    TP =   .133330HR    K/TP RATIO =   .810320     SHAPE
CONSTANT, N =  4.414309
          UNIT PEAK =   2.1426    CFS   UNIT VOLUME =    .9942       B =   381.91
  P60 = 1.2500
          AREA =      .000748 SQ MI    IA =    .35000 INCHES    INF =    .83000
INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.033330

     PRINT HYD              ID=7   CODE=5


                                     OUTFLOW HYDROGRAPH RESERVOIR   501.00

          TIME      FLOW            TIME      FLOW            TIME      FLOW
TIME      FLOW            TIME      FLOW
           HRS       CFS             HRS       CFS             HRS       CFS
 HRS       CFS              HRS       CFS
          .000       .0             1.333      1.5            2.666       .1
4.000       .0             5.333       .0
          .167       .0             1.500      6.3            2.833       .1
4.166       .0             5.499       .0
          .333       .0             1.667      3.1            3.000       .0
4.333       .0             5.666       .0
          .500       .0             1.833      2.0            3.166       .0
4.500       .0             5.833       .0
          .667       .0             2.000      1.4            3.333       .0
4.666       .0             5.999       .0
          .833       .0             2.166       .6            3.500       .0
4.833       .0             6.166       .0
         1.000       .0             2.333       .3            3.666       .0
4.999       .0             6.333       .0
         1.167       .0             2.500       .2            3.833       .0
5.166       .0             6.499       .0
```

RUNOFF VOLUME = 1.07765 INCHES = .2150 ACRE-FEET
PEAK DISCHARGE RATE = 6.26 CFS AT 1.500 HOURS BASIN AREA = .0037 SQ. MI.

****

*S COMPUTE HYD BASIN X8

COMPUTE NM HYD ID=8 HYDNO=502 AREA=0.01562SQ MI

PER A=0 PER B=10 PER C=20 PER D=70

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 43.158 CFS UNIT VOLUME = .9991 B = 526.28 P60 = 1.2500
AREA = .010934 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .119338HR TP = .133330HR K/TP RATIO = .895055 SHAPE CONSTANT, N = 3.961006
UNIT PEAK = 12.391 CFS UNIT VOLUME = .9994 B = 352.56 P60 = 1.2500
AREA = .004686 SQ MI IA = .40000 INCHES INF = .97000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=8 CODE=5

OUTFLOW HYDROGRAPH RESERVOIR 502.00

TIME HRS	TIME FLOW HRS	FLOW CFS	TIME HRS	TIME FLOW HRS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		1.500	23.9	3.000	.2
4.500	.1		5.999	.1			
	.167	.0		1.667	12.0	3.166	.1
4.666	.1		6.166	.1			
	.333	.0		1.833	7.3	3.333	.1
4.833	.1		6.333	.0			
	.500	.0		2.000	5.2	3.500	.1
4.999	.1		6.499	.0			
	.667	.0		2.166	2.4	3.666	.1
5.166	.1		6.666	.0			
	.833	.0		2.333	1.1	3.833	.1
5.333	.1		6.833	.0			
	1.000	.0		2.500	.6	4.000	.1
5.499	.1						
	1.167	.0		2.666	.4	4.166	.1
5.666	.1						
	1.333	5.4		2.833	.2	4.333	.1
5.833	.1						

```
        RUNOFF VOLUME =       .97290 INCHES      =         .8105 ACRE-FEET
        PEAK DISCHARGE RATE =       23.89 CFS  AT   1.500 HOURS   BASIN AREA =
.0156 SQ. MI.


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

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

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

     *S ADD X3 AND X4

     ADD HYD                    ID=10 HYDNO=600

                                ID=3 ID=4

     PRINT HYD                  ID=10 CODE=5

                                                    HYDROGRAPH FROM AREA   600.00

                TIME      FLOW              TIME      FLOW              TIME      FLOW
TIME            FLOW           TIME         FLOW
                 HRS       CFS                HRS       CFS               HRS       CFS
 HRS            CFS                HRS       CFS
                .000        .0              1.333       1.3              2.666        .1
4.000            .0          5.333             .0
                .167        .0              1.500       7.1              2.833        .1
4.166            .0          5.499             .0
                .333        .0              1.667       3.8              3.000        .1
4.333            .0          5.666             .0
                .500        .0              1.833       2.1              3.166        .0
4.500            .0          5.833             .0
                .667        .0              2.000       1.4              3.333        .0
4.666            .0          5.999             .0
                .833        .0              2.166        .7              3.500        .0
4.833            .0          6.166             .0
               1.000        .0              2.333        .3              3.666        .0
4.999            .0          6.333             .0
               1.167        .0              2.500        .2              3.833        .0
5.166            .0          6.499             .0

        RUNOFF VOLUME =       .35883 INCHES      =         .2365 ACRE-FEET
        PEAK DISCHARGE RATE =        7.13 CFS  AT   1.500 HOURS   BASIN AREA =
.0124 SQ. MI.


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

     *S ADD X6 AND X7

     ADD HYD                    ID=11 HYDNO=700

                                ID=6 ID=7

     *PRINT HYD                 ID=11 CODE=5

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

EX10

****

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FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 22:03:51

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02c RUN DATE (MON/DAY/YR) =01/28/2007
INPUT FILE = EX10.HMI USER NO.=
AHYMO-C-9803c01UNMLIB-AH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE
PAGE = 1									
RAINFALL TYPE= 1									
RAIN6= 1.470									
*S COMPUTE HYD BASIN X1									
COMPUTE NM HYD	100.00	-	1	.01175	19.65	.675	1.07765	1.500	2.614
PER IMP= 80.00									
*S COMPUTE HYD BASIN X2									
COMPUTE NM HYD	200.00	-	2	.02419	4.42	.122	.09489	1.533	.286
PER IMP= .00									
*S COMPUTE HYD BASIN X3									
COMPUTE NM HYD	300.00	-	3	.00904	1.65	.046	.09489	1.533	.286
PER IMP= .00									
*S COMPUTE HYD BASIN X4									
COMPUTE NM HYD	301.00	-	4	.00332	5.56	.191	1.07765	1.500	2.617
PER IMP= 80.00									
*S COMPUTE HYD BASIN X5									
COMPUTE NM HYD	400.00	-	5	.01581	2.89	.080	.09489	1.533	.286
PER IMP= .00									
*S COMPUTE HYD BASIN X6									
COMPUTE NM HYD	500.00	-	6	.02559	6.08	.164	.12025	1.533	.371
PER IMP= .00									
*S COMPUTE HYD BASIN X7									
COMPUTE NM HYD	501.00	-	7	.00374	6.26	.215	1.07765	1.500	2.617
PER IMP= 80.00									
*S COMPUTE HYD BASIN X8									
COMPUTE NM HYD	502.00	-	8	.01562	23.89	.810	.97290	1.500	2.390
PER IMP= 70.00									
*S ADD X3 AND X4									
ADD HYD	600.00	3& 4	10	.01236	7.13	.237	.35883	1.500	.901
*S ADD X6 AND X7									
ADD HYD	700.00	6& 7	11	.02933	12.07	.379	.24232	1.500	.643
FINISH									

```
*  Project Number 6010 (OXBOW TOWN CENTER) 011207
*  EXISTING Conditions
*  100 YEAR 24 HOUR RAINFALL TABLE
RAINFALL                TYPE=1  RAIN QUARTER=0
                        RAIN ONE=1.87 IN  RAIN SIX=2.20 IN
                        RAIN DAY=2.66 IN  DT=0.03333 HRS
*  10 YEAR RAINFALL TABLE
*RAINFALL               TYPE=1  RAIN QUARTER=0.0
*                       RAIN ONE=1.25 IN  RAIN SIX=1.47 IN
*                       RAIN DAY=1.77 IN  DT=0.03333 HRS
**********************************************************
**********************************************************
**********************************************************
*S  COMPUTE HYD BASIN X1
COMPUTE NM HYD          ID=1  HYDNO=100  AREA=0.01175SQ MI
                        PER A=0 PER B=0 PER C=20 PER D=80
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=1   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN X2
COMPUTE NM HYD          ID=2  HYDNO=200  AREA=0.02419SQ MI
                        PER A=90 PER B=10 PER C=0 PER D=0
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=2   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN X3
COMPUTE NM HYD          ID=3  HYDNO=300  AREA=0.00904SQ MI
                        PER A=90 PER B=10 PER C=0 PER D=0
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=3   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN X4
COMPUTE NM HYD          ID=4  HYDNO=301  AREA=0.00332SQ MI
                        PER A=0 PER B=0 PER C=20 PER D=80
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=4   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN X5
COMPUTE NM HYD          ID=5  HYDNO=400  AREA=0.01581SQ MI
                        PER A=90 PER B=10 PER C=0 PER D=0
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=5   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN X6
COMPUTE NM HYD          ID=6  HYDNO=500  AREA=0.02559SQ MI
                        PER A=80 PER B=10 PER C=10 PER D=0
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=6   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN X7
COMPUTE NM HYD          ID=7  HYDNO=501  AREA=0.00374SQ MI
                        PER A=0 PER B=0 PER C=20 PER D=80
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=7   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN X8
COMPUTE NM HYD          ID=8  HYDNO=502  AREA=0.01562SQ MI
                        PER A=0 PER B=10 PER C=20 PER D=70
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=8   CODE=5
**********************************************************
**********************************************************
**********************************************************
```

```
*S ADD X3 AND X4
ADD HYD                    ID=10 HYDNO=600
                           ID=3 ID=4
PRINT HYD                  ID=10 CODE=5
*************************************************************
*S ADD X6 AND X7
ADD HYD                    ID=11 HYDNO=700
                           ID=6 ID=7
*PRINT HYD                 ID=11 CODE=5
*************************************************************
*************************************************************
*************************************************************
FINISH
```

```
AHYMO PROGRAM (AHYMO_97) -                                  - Version:  1997.02c
     RUN DATE (MON/DAY/YR) = 01/28/2007
     START TIME (HR:MIN:SEC) = 20:35:44     USER NO.=
AHYMO-C-9803c01UNMLIB-AH
     INPUT FILE = EX100.HMI

*  Project Number 6010 (OXBOW TOWN CENTER) 011207

*  EXISTING Conditions

*  100 YEAR 24 HOUR RAINFALL TABLE

RAINFALL                TYPE=1  RAIN QUARTER=0

                        RAIN ONE=1.87 IN  RAIN SIX=2.20 IN

                        RAIN DAY=2.66 IN  DT=0.03333 HRS

                  COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 -
PEAK AT 1.40 HR.
                  DT =     .033330 HOURS        END TIME =     5.999400 HOURS
                     .0000   .0016   .0033   .0050   .0067   .0085   .0103
                     .0122   .0141   .0160   .0180   .0201   .0222   .0243
                     .0266   .0289   .0312   .0337   .0362   .0388   .0415
                     .0443   .0472   .0502   .0534   .0567   .0601   .0637
                     .0675   .0715   .0758   .0809   .0865   .0924   .1050
                     .1334   .1771   .2398   .3254   .4379   .5814   .7600
                     .9780  1.1804  1.2649  1.3363  1.3997  1.4575  1.5106
                    1.5600  1.6061  1.6493  1.6900  1.7284  1.7646  1.7989
                    1.8314  1.8623  1.8915  1.9193  1.9456  1.9518  1.9576
                    1.9630  1.9682  1.9732  1.9780  1.9825  1.9869  1.9912
                    1.9953  1.9993  2.0031  2.0068  2.0104  2.0140  2.0174
                    2.0207  2.0240  2.0272  2.0303  2.0333  2.0363  2.0392
                    2.0420  2.0448  2.0475  2.0502  2.0528  2.0554  2.0580
                    2.0605  2.0629  2.0653  2.0677  2.0700  2.0723  2.0746
                    2.0768  2.0790  2.0812  2.0833  2.0855  2.0875  2.0896
                    2.0916  2.0936  2.0956  2.0976  2.0995  2.1014  2.1033
                    2.1051  2.1070  2.1088  2.1106  2.1124  2.1141  2.1159
                    2.1176  2.1193  2.1210  2.1227  2.1244  2.1260  2.1276
                    2.1292  2.1308  2.1324  2.1340  2.1355  2.1371  2.1386
                    2.1401  2.1416  2.1431  2.1446  2.1460  2.1475  2.1489
                    2.1504  2.1518  2.1532  2.1546  2.1560  2.1573  2.1587
                    2.1600  2.1614  2.1627  2.1640  2.1654  2.1667  2.1680
                    2.1692  2.1705  2.1718  2.1731  2.1743  2.1756  2.1768
                    2.1780  2.1792  2.1804  2.1817  2.1829  2.1840  2.1852
                    2.1864  2.1876  2.1887  2.1899  2.1910  2.1922  2.1933
                    2.1944  2.1956  2.1967  2.1978  2.1989  2.2000

*  10 YEAR RAINFALL TABLE

*RAINFALL               TYPE=1  RAIN QUARTER=0.0

*                       RAIN ONE=1.25 IN  RAIN SIX=1.47 IN

*                       RAIN DAY=1.77 IN  DT=0.03333 HRS

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

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

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

*S  COMPUTE HYD BASIN X1

COMPUTE NM HYD          ID=1  HYDNO=100  AREA=0.01175SQ MI

                        PER A=0 PER B=0 PER C=20 PER D=80

                        TP=.13333 HR MASS RAIN=-1


          K =   .072665HR    TP =   .133330HR    K/TP RATIO =   .545000     SHAPE
CONSTANT, N =  7.106420
          UNIT PEAK =   37.103    CFS   UNIT VOLUME =    .9991       B =   526.28
  P60 = 1.8700
          AREA =      .009400 SQ MI    IA =    .10000 INCHES    INF =    .04000
INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.033330


          K =   .105891HR    TP =   .133330HR    K/TP RATIO =   .794199     SHAPE
CONSTANT, N =  4.514851
          UNIT PEAK =   6.8412    CFS   UNIT VOLUME =    .9986       B =   388.14
  P60 = 1.8700
          AREA =      .002350 SQ MI    IA =    .35000 INCHES    INF =    .83000
INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.033330

     PRINT HYD              ID=1   CODE=5
```

PARTIAL HYDROGRAPH 100.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		1.500	30.6	3.000	.3
4.500	.1	5.999	.2				
	.167	.0		1.667	15.5	3.166	.2
4.666	.1	6.166	.1				
	.333	.0		1.833	9.9	3.333	.2
4.833	.2	6.333	.0				
	.500	.0		2.000	7.1	3.500	.2
4.999	.2	6.499	.0				
	.667	.0		2.166	3.2	3.666	.2
5.166	.2	6.666	.0				
	.833	.0		2.333	1.5	3.833	.2
5.333	.2	6.833	.0				
	1.000	.0		2.500	.9	4.000	.2
5.499	.2						
	1.167	.1		2.666	.6	4.166	.2
5.666	.2						
	1.333	8.4		2.833	.4	4.333	.1
5.833	.2						

```
          RUNOFF VOLUME =      1.77127 INCHES      =       1.1100 ACRE-FEET
          PEAK DISCHARGE RATE =       30.62 CFS  AT   1.500 HOURS   BASIN AREA =
.0118 SQ. MI.
```

```
*************************************************************
*S  COMPUTE HYD BASIN X2
COMPUTE NM HYD          ID=2  HYDNO=200  AREA=0.02419SQ MI
                        PER A=90 PER B=10 PER C=0 PER D=0
                        TP=.13333 HR MASS RAIN=-1

          K =   .160451HR    TP =   .133330HR    K/TP RATIO =  1.203411     SHAPE
CONSTANT, N =  2.953513
          UNIT PEAK =   50.439    CFS   UNIT VOLUME =    .9995       B =   278.01
  P60 = 1.8700
          AREA =      .024190 SQ MI    IA =    .63500 INCHES    INF =   1.62800
INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.033330

     PRINT HYD              ID=2   CODE=5
```

PARTIAL HYDROGRAPH 200.00

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		1.000	.0	2.000	2.0
3.000	.2		4.000	.0			
	.167	.0		1.167	.0	2.166	1.4
3.166	.2		4.166	.0			
	.333	.0		1.333	.0	2.333	1.0
3.333	.1		4.333	.0			
	.500	.0		1.500	20.7	2.500	.7
3.500	.1		4.500	.0			
	.667	.0		1.667	12.0	2.666	.5
3.666	.1		4.666	.0			
	.833	.0		1.833	4.3	2.833	.3
3.833	.0		4.833	.0			

```
          RUNOFF VOLUME =      .45896 INCHES     =        .5921 ACRE-FEET
          PEAK DISCHARGE RATE =      21.11 CFS  AT   1.533 HOURS   BASIN AREA =
.0242 SQ. MI.

*************************************************************
*S  COMPUTE HYD BASIN X3
COMPUTE NM HYD          ID=3  HYDNO=300  AREA=0.00904SQ MI
                        PER A=90 PER B=10 PER C=0 PER D=0
                        TP=.13333 HR MASS RAIN=-1

          K =   .160451HR    TP =   .133330HR    K/TP RATIO =  1.203411     SHAPE
CONSTANT, N =  2.953513
          UNIT PEAK =   18.850    CFS   UNIT VOLUME =    .9990       B =   278.01
```

P60 = 1.8700
AREA = .009040 SQ MI IA = .63500 INCHES INF = 1.62800
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.033330

PRINT HYD ID=3 CODE=5

HYDROGRAPH FROM AREA 300.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
	.000		.0		1.000		.0		2.000		.7
3.000	.1	4.000	.0								
	.167		.0		1.167		.0		2.166		.5
3.166	.1	4.166	.0								
	.333		.0		1.333		.0		2.333		.4
3.333	.0	4.333	.0								
	.500		.0		1.500		7.7		2.500		.3
3.500	.0										
	.667		.0		1.667		4.5		2.666		.2
3.666	.0										
	.833		.0		1.833		1.6		2.833		.1
3.833	.0										

RUNOFF VOLUME = .45896 INCHES = .2213 ACRE-FEET
PEAK DISCHARGE RATE = 7.89 CFS AT 1.533 HOURS BASIN AREA =
.0090 SQ. MI.

****

*S COMPUTE HYD BASIN X4

COMPUTE NM HYD ID=4 HYDNO=301 AREA=0.00332SQ MI

PER A=0 PER B=0 PER C=20 PER D=80

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE
CONSTANT, N = 7.106420
UNIT PEAK = 10.484 CFS UNIT VOLUME = .9982 B = 526.28
P60 = 1.8700
AREA = .002656 SQ MI IA = .10000 INCHES INF = .04000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.033330

K = .105891HR TP = .133330HR K/TP RATIO = .794199 SHAPE
CONSTANT, N = 4.514851
UNIT PEAK = 1.9330 CFS UNIT VOLUME = .9941 B = 388.14
P60 = 1.8700
AREA = .000664 SQ MI IA = .35000 INCHES INF = .83000
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.033330

PRINT HYD ID=4 CODE=5

HYDROGRAPH FROM AREA 301.00

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		1.500	8.7	3.000	.1
4.500	.0		5.999	.1			
	.167	.0		1.667	4.4	3.166	.1
4.666	.0		6.166	.0			
	.333	.0		1.833	2.8	3.333	.1
4.833	.0		6.333	.0			
	.500	.0		2.000	2.0	3.500	.1
4.999	.0		6.499	.0			
	.667	.0		2.166	.9	3.666	.0
5.166	.0		6.666	.0			
	.833	.0		2.333	.4	3.833	.0
5.333	.0						
	1.000	.0		2.500	.3	4.000	.0
5.499	.0						
	1.167	.0		2.666	.2	4.166	.0
5.666	.1						
	1.333	2.4		2.833	.1	4.333	.0
5.833	.1						

RUNOFF VOLUME = 1.77127 INCHES = .3136 ACRE-FEET
PEAK DISCHARGE RATE = 8.66 CFS AT 1.500 HOURS BASIN AREA =
.0033 SQ. MI.

****

*S COMPUTE HYD BASIN X5

COMPUTE NM HYD ID=5 HYDNO=400 AREA=0.01581SQ MI

PER A=90 PER B=10 PER C=0 PER D=0

TP=.13333 HR MASS RAIN=-1

K = .160451HR TP = .133330HR K/TP RATIO = 1.203411 SHAPE
CONSTANT, N = 2.953513
UNIT PEAK = 32.966 CFS UNIT VOLUME = .9993 B = 278.01
P60 = 1.8700
AREA = .015810 SQ MI IA = .63500 INCHES INF = 1.62800
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.033330

PRINT HYD ID=5 CODE=5

HYDROGRAPH FROM AREA 400.00

TIME	TIME FLOW HRS	FLOW CFS	TIME	TIME FLOW HRS	FLOW CFS	TIME HRS	FLOW CFS

EX100

HRS	CFS	HRS	CFS			
	.000	.0	1.000	.0	2.000	1.3
3.000	.2	4.000	.0			
	.167	.0	1.167	.0	2.166	.9
3.166	.1	4.166	.0			
	.333	.0	1.333	.0	2.333	.6
3.333	.1	4.333	.0			
	.500	.0	1.500	13.5	2.500	.4
3.500	.1	4.500	.0			
	.667	.0	1.667	7.8	2.666	.3
3.666	.0	4.666	.0			
	.833	.0	1.833	2.8	2.833	.2
3.833	.0					

RUNOFF VOLUME = .45896 INCHES = .3870 ACRE-FEET
PEAK DISCHARGE RATE = 13.80 CFS AT 1.533 HOURS BASIN AREA =
.0158 SQ. MI.

****

*S COMPUTE HYD BASIN X6

COMPUTE NM HYD ID=6 HYDNO=500 AREA=0.02559SQ MI

PER A=80 PER B=10 PER C=10 PER D=0

TP=.13333 HR MASS RAIN=-1

K = .154668HR TP = .133330HR K/TP RATIO = 1.160037 SHAPE
CONSTANT, N = 3.055544
UNIT PEAK = 54.953 CFS UNIT VOLUME = .9995 B = 286.32
P60 = 1.8700
AREA = .025590 SQ MI IA = .60500 INCHES INF = 1.54400
INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
.033330

PRINT HYD ID=6 CODE=5

OUTFLOW HYDROGRAPH RESERVOIR 500.00

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		1.000	.0	2.000	2.3
3.000	.3		4.000	.0			
	.167	.0		1.167	.0	2.166	1.6
3.166	.2		4.166	.0			
	.333	.0		1.333	.0	2.333	1.1
3.333	.1		4.333	.0			
	.500	.0		1.500	24.1	2.500	.8
3.500	.1		4.500	.0			
	.667	.0		1.667	13.9	2.666	.5
3.666	.1		4.666	.0			
	.833	.0		1.833	4.8	2.833	.4
3.833	.0		4.833	.0			

RUNOFF VOLUME = .50071 INCHES = .6834 ACRE-FEET

PEAK DISCHARGE RATE = 24.55 CFS AT 1.533 HOURS BASIN AREA = .0256 SQ. MI.

****

*S COMPUTE HYD BASIN X7

COMPUTE NM HYD ID=7 HYDNO=501 AREA=0.00374SQ MI

PER A=0 PER B=0 PER C=20 PER D=80

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 11.810 CFS UNIT VOLUME = .9984 B = 526.28 P60 = 1.8700
AREA = .002992 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .105891HR TP = .133330HR K/TP RATIO = .794199 SHAPE CONSTANT, N = 4.514851
UNIT PEAK = 2.1775 CFS UNIT VOLUME = .9947 B = 388.14 P60 = 1.8700
AREA = .000748 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=7 CODE=5

OUTFLOW HYDROGRAPH RESERVOIR 501.00

TIME HRS	FLOW HRS CFS	TIME HRS	FLOW HRS CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
	.000		.0		1.500		9.8
4.500	.0	5.999	.1	3.000	.1		
	.167		.0		1.667		5.0
4.666	.0	6.166	.0	3.166	.1		
	.333		.0		1.833		3.2
4.833	.0	6.333	.0	3.333	.1		
	.500		.0		2.000		2.3
4.999	.0	6.499	.0	3.500	.1		
	.667		.0		2.166		1.0
5.166	.1	6.666	.0	3.666	.1		
	.833		.0		2.333		.5
5.333	.1			3.833	.1		
	1.000		.0		2.500		.3
5.499	.1			4.000	.0		
	1.167		.0		2.666		.2
5.666	.1			4.166	.0		
	1.333		2.7		2.833		.1
5.833	.1			4.333	.0		

RUNOFF VOLUME = 1.77127 INCHES = .3533 ACRE-FEET
PEAK DISCHARGE RATE = 9.76 CFS AT 1.500 HOURS BASIN AREA = .0037 SQ. MI.

****

*S COMPUTE HYD BASIN X8

COMPUTE NM HYD ID=8 HYDNO=502 AREA=0.01562SQ MI

PER A=0 PER B=10 PER C=20 PER D=70

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 43.158 CFS UNIT VOLUME = .9991 B = 526.28 P60 = 1.8700
AREA = .010934 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .114268HR TP = .133330HR K/TP RATIO = .857028 SHAPE CONSTANT, N = 4.150447
UNIT PEAK = 12.831 CFS UNIT VOLUME = .9993 B = 365.08 P60 = 1.8700
AREA = .004686 SQ MI IA = .40000 INCHES INF = .97000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=8 CODE=5

OUTFLOW HYDROGRAPH RESERVOIR 502.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		1.500	38.3	3.000	.4
4.500	.2	5.999	.2				
	.167	.0		1.667	19.6	3.166	.3
4.666	.2	6.166	.1				
	.333	.0		1.833	12.0	3.333	.3
4.833	.2	6.333	.0				
	.500	.0		2.000	8.4	3.500	.2
4.999	.2	6.499	.0				
	.667	.0		2.166	3.9	3.666	.2
5.166	.2	6.666	.0				
	.833	.0		2.333	1.8	3.833	.2
5.333	.2	6.833	.0				
	1.000	.0		2.500	1.1	4.000	.2
5.499	.2	6.999	.0				
	1.167	.1		2.666	.8	4.166	.2
5.666	.2						
	1.333	9.8		2.833	.5	4.333	.2
5.833	.2						

RUNOFF VOLUME = 1.63711 INCHES = 1.3638 ACRE-FEET
PEAK DISCHARGE RATE = 38.31 CFS AT 1.500 HOURS BASIN AREA =
.0156 SQ. MI.

****

****

****

*S ADD X3 AND X4

ADD HYD ID=10 HYDNO=600

ID=3 ID=4

PRINT HYD ID=10 CODE=5

HYDROGRAPH FROM AREA 600.00

TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	TIME FLOW HRS CFS	FLOW CFS	TIME HRS	FLOW CFS
	.000	.0		1.500	16.4	3.000	.2
4.500	.0		5.999	.1			
	.167	.0		1.667	8.9	3.166	.1
4.666	.0		6.166	.0			
	.333	.0		1.833	4.4	3.333	.1
4.833	.0		6.333	.0			
	.500	.0		2.000	2.7	3.500	.1
4.999	.0		6.499	.0			
	.667	.0		2.166	1.4	3.666	.1
5.166	.0		6.666	.0			
	.833	.0		2.333	.8	3.833	.1
5.333	.0						
	1.000	.0		2.500	.5	4.000	.1
5.499	.0						
	1.167	.0		2.666	.4	4.166	.1
5.666	.1						
	1.333	2.4		2.833	.2	4.333	.0
5.833	.1						

RUNOFF VOLUME = .81143 INCHES = .5349 ACRE-FEET
PEAK DISCHARGE RATE = 16.39 CFS AT 1.500 HOURS BASIN AREA =
.0124 SQ. MI.

****

*S ADD X6 AND X7

ADD HYD ID=11 HYDNO=700

ID=6 ID=7

*PRINT HYD ID=11 CODE=5

```
*****************************************************************
*****************************************************************
*****************************************************************
FINISH

    NORMAL PROGRAM FINISH          END TIME (HR:MIN:SEC) = 20:35:45
```

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02c RUN DATE (MON/DAY/YR) =01/28/2007
INPUT FILE = EX100.HMI USER NO.= AHYMO-C-9803c01UNMLIB-AH

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	PAGE = 1 NOTATION
RAINFALL TYPE= 1										
RAIN6= 2.200										
*S COMPUTE HYD BASIN X1										
COMPUTE NM HYD	100.00	-	1	.01175	30.62	1.110	1.77127	1.500	4.072	PER IMP= 80.00
*S COMPUTE HYD BASIN X2										
COMPUTE NM HYD	200.00	-	2	.02419	21.11	.592	.45896	1.533	1.364	PER IMP= .00
*S COMPUTE HYD BASIN X3										
COMPUTE NM HYD	300.00	-	3	.00904	7.89	.221	.45896	1.533	1.364	PER IMP= .00
*S COMPUTE HYD BASIN X4										
COMPUTE NM HYD	301.00	-	4	.00332	8.66	.314	1.77127	1.500	4.078	PER IMP= 80.00
*S COMPUTE HYD BASIN X5										
COMPUTE NM HYD	400.00	-	5	.01581	13.80	.387	.45896	1.533	1.364	PER IMP= .00
*S COMPUTE HYD BASIN X6										
COMPUTE NM HYD	500.00	-	6	.02559	24.55	.683	.50071	1.533	1.499	PER IMP= .00
*S COMPUTE HYD BASIN X7										
COMPUTE NM HYD	501.00	-	7	.00374	9.76	.353	1.77127	1.500	4.077	PER IMP= 80.00
*S COMPUTE HYD BASIN X8										
COMPUTE NM HYD	502.00	-	8	.01562	38.31	1.364	1.63711	1.500	3.833	PER IMP= 70.00
*S ADD X3 AND X4										
ADD HYD	600.00	3& 4	10	.01236	16.39	.535	.81143	1.500	2.072	
*S ADD X6 AND X7										
ADD HYD	700.00	6& 7	11	.02933	33.87	1.037	.66271	1.533	1.804	
FINISH										

APPENDIX B
AHYMO Developed Input/Output

```
                                        DEV10
*  Project Number 6010 (OXBOW TOWN CENTER) 100207
*  PROPOSED Conditions
*  100 YEAR 24 HOUR RAINFALL TABLE
*RAINFALL                TYPE=1  RAIN QUARTER=0
*                        RAIN ONE=1.87 IN  RAIN SIX=2.20 IN
*                        RAIN DAY=2.66 IN  DT=0.03333 HRS
*  10 YEAR RAINFALL TABLE
RAINFALL                TYPE=1  RAIN QUARTER=0.0
                        RAIN ONE=1.25 IN  RAIN SIX=1.47 IN
                        RAIN DAY=1.77 IN  DT=0.03333 HRS
**********************************************************
**********************************************************
**********************************************************
*S  COMPUTE HYD BASIN A1
COMPUTE NM HYD          ID=1  HYDNO=101  AREA=0.00780SQ MI
                        PER A=0 PER B=10 PER C=0 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=1   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN A2
COMPUTE NM HYD          ID=2  HYDNO=102  AREA=0.00623SQ MI
                        PER A=0 PER B=15 PER C=0 PER D=85
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=2   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN A3
COMPUTE NM HYD          ID=3  HYDNO=103  AREA=0.00833SQ MI
                        PER A=0 PER B=12 PER C=0 PER D=88
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=3   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN A4
COMPUTE NM HYD          ID=4  HYDNO=104  AREA=0.0104SQ MI
                        PER A=0 PER B=15 PER C=0 PER D=85
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=4   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B1
COMPUTE NM HYD          ID=11  HYDNO=201  AREA=0.00161SQ MI
                        PER A=0 PER B=10 PER C=0 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=11   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B2
COMPUTE NM HYD          ID=12  HYDNO=202  AREA=0.00097SQ MI
                        PER A=0 PER B=0 PER C=10 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=12   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B3
COMPUTE NM HYD          ID=13  HYDNO=203  AREA=0.00190SQ MI
                        PER A=0 PER B=10 PER C=5 PER D=85
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=13   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B4
COMPUTE NM HYD          ID=14  HYDNO=204  AREA=0.00459SQ MI
                        PER A=0 PER B=10 PER C=5 PER D=85
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=14   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B5
COMPUTE NM HYD          ID=15  HYDNO=205  AREA=0.00657SQ MI
                        PER A=0 PER B=10 PER C=5 PER D=85
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=15   CODE=5
```

```
**********************************************************
*S  COMPUTE HYD BASIN B6
COMPUTE NM HYD          ID=16  HYDNO=206  AREA=0.00575SQ MI
                        PER A=0 PER B=0 PER C=10 PER D=90
                        TP=.16667 HR MASS RAIN=-1
PRINT HYD               ID=16   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B7
COMPUTE NM HYD          ID=17  HYDNO=207  AREA=0.00176SQ MI
                        PER A=0 PER B=0 PER C=10 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=17   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B8
COMPUTE NM HYD          ID=18  HYDNO=208  AREA=0.00249SQ MI
                        PER A=0 PER B=0 PER C=10 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=18   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B9
COMPUTE NM HYD          ID=19  HYDNO=209  AREA=0.00725SQ MI
                        PER A=0 PER B=5 PER C=5 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=19   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B10
COMPUTE NM HYD          ID=20  HYDNO=210  AREA=0.00748SQ MI
                        PER A=0 PER B=10 PER C=0 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=20   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN O1
COMPUTE NM HYD          ID=21  HYDNO=211  AREA=0.00796SQ MI
                        PER A=0 PER B=10 PER C=5 PER D=85
                        TP=.1667 HR MASS RAIN=-1
PRINT HYD               ID=21   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN O2
COMPUTE NM HYD          ID=22  HYDNO=212  AREA=0.00767SQ MI
                        PER A=0 PER B=10 PER C=5 PER D=85
                        TP=.1667 HR MASS RAIN=-1
PRINT HYD               ID=22   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN OS1
COMPUTE NM HYD          ID=23  HYDNO=213  AREA=0.01104SQ MI
                        PER A=0 PER B=10 PER C=5 PER D=85
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=23   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN OS2
COMPUTE NM HYD          ID=24  HYDNO=214  AREA=0.0008SQ MI
                        PER A=0 PER B=5 PER C=5 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=24   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN OS3
COMPUTE NM HYD          ID=25  HYDNO=215  AREA=0.00311SQ MI
                        PER A=0 PER B=5 PER C=5 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=25   CODE=5
**********************************************************
**********************************************************
**********************************************************
*S ADD O1 AND O2
ADD HYD                 ID=28 HYDNO=300
                        ID=21 ID=22
```

```
PRINT HYD                ID=28 CODE=5
**********************************************************
*OFFSITE POND ON CHURCH TRACT
**********************************************************
ROUTE RESERVOIR          ID=29 HYD=301 INFLOW ID=28 CODE=5
                         OUTFLOW            STORAGE        ELEV
                          (CFS)             (AC-FT)        (FT)
                           0.01             0.0            5108
                           5.43             0.40           5110
                           7.05             0.65           5111
                           8.37             0.95           5112
                           9.50             1.25           5113
PRINT HYD                ID=29 CODE=5
**********************************************************
*POND 1
**********************************************************
ROUTE RESERVOIR          ID=30 HYD=302 INFLOW ID=1 CODE=5
                         OUTFLOW            STORAGE        ELEV
                          (CFS)             (AC-FT)        (FT)
                           0.01             0.0            5110
                           2.82             0.21           5111
                           3.31             0.47           5112
                           3.73             0.77           5113
                           4.11             1.12           5114
PRINT HYD                ID=30 CODE=5
**********************************************************
*S ADD OFFSITE POND AND POND 1
ADD HYD                  ID=31 HYDNO=303
                         ID=29 ID=30
PRINT HYD                ID=31 CODE=5
**********************************************************
*POND 3
**********************************************************
ROUTE RESERVOIR          ID=32 HYD=304 INFLOW ID=3 CODE=5
                         OUTFLOW            STORAGE        ELEV
                          (CFS)             (AC-FT)        (FT)
                           2.29             0.0            5111
                           2.89             0.28           5112
                           3.39             0.62           5113
                           3.83             1.01           5114
                           4.22             1.20           5115
PRINT HYD                ID=32 CODE=5
**********************************************************
*S ADD HYD 303 AND POND 3
ADD HYD                  ID=34 HYDNO=306
                         ID=31 ID=32
PRINT HYD                ID=34 CODE=5
**********************************************************
*S ADD B1 AND B2
ADD HYD                  ID=36 HYDNO=308
                         ID=11 ID=12
PRINT HYD                ID=36 CODE=5
**********************************************************
*S ADD HYD 308 AND B3
ADD HYD                  ID=37 HYDNO=309
                         ID=36 ID=13
PRINT HYD                ID=37 CODE=5
**********************************************************
*S ADD B5 AND B6
ADD HYD                  ID=38 HYDNO=310
                         ID=15 ID=16
PRINT HYD                ID=38 CODE=5
**********************************************************
*S ADD HYD 309 AND HYD 310
ADD HYD                  ID=39 HYDNO=311
                         ID=37 ID=38
```

```
PRINT HYD                ID=39 CODE=5
**********************************************************
*POND 5
**********************************************************
ROUTE RESERVOIR          ID=40 HYD=312 INFLOW ID=39 CODE=5
                         OUTFLOW            STORAGE        ELEV
                          (CFS)             (AC-FT)        (FT)
                           0.00             0.00           5108
                           5.44             0.13           5109
                           6.66             0.29           5110
                           7.69             0.48           5111
                           8.60             0.70           5112
                           9.42             0.96           5113
                           9.80             1.10           5113.5
PRINT HYD                ID=40 CODE=5
**********************************************************
*S ADD HYD 306 AND POND 5
ADD HYD                  ID=42 HYDNO=320
                         ID=34 ID=40
PRINT HYD                ID=42 CODE=5
**********************************************************
*S ADD HYD 320 AND B7
ADD HYD                  ID=43 HYDNO=321
                         ID=42 ID=17
PRINT HYD                ID=43 CODE=5
**********************************************************
*S ADD HYD 321 AND B8
ADD HYD                  ID=44 HYDNO=322
                         ID=43 ID=18
PRINT HYD                ID=44 CODE=5
**********************************************************
*S ADD HYD 322 AND B9
ADD HYD                  ID=45 HYDNO=323
                         ID=44 ID=19
PRINT HYD                ID=45 CODE=5
**********************************************************
*POND 6 (UNDERGROUND)
**********************************************************
ROUTE RESERVOIR          ID=46 HYD=324 INFLOW ID=45 CODE=5
                         OUTFLOW            STORAGE        ELEV
                          (CFS)             (AC-FT)        (FT)
                           0.01             0.0            5101
                           12.23            0.16           5103
                           20.70            0.40           5105
                           26.59            0.63           5107
                           29.10            0.72           5108
                           31.40            0.74           5108.5
PRINT HYD                ID=46 CODE=5
**********************************************************
*POND 7 (UNDERGROUND)
**********************************************************
ROUTE RESERVOIR          ID=48 HYD=325 INFLOW ID=20 CODE=5
                         OUTFLOW            STORAGE        ELEV
                          (CFS)             (AC-FT)        (FT)
                           0.00             0.00           5104.5
                           1.47             0.11           5106.5
                           2.16             0.29           5108.5
                           2.67             0.46           5110.5
                           3.00             0.53           5112.0
PRINT HYD                ID=48 CODE=5
**********************************************************
*S ADD A2 AND OS3
ADD HYD                  ID=49 HYDNO=326
                         ID=2 ID=25
PRINT HYD                ID=49 CODE=5
**********************************************************
```

```
*POND 2
*************************************************************
ROUTE RESERVOIR        ID=50 HYD=400 INFLOW ID=49 CODE=5
                       OUTFLOW            STORAGE        ELEV
                        (CFS)             (AC-FT)        (FT)
                         1.94             0.0            5111
                         2.44             0.26           5112
                         2.86             0.57           5113
                         3.22             0.93           5114
PRINT HYD              ID=50 CODE=5
*************************************************************
*S ADD A4 AND OS2
ADD HYD                ID=51 HYDNO=327
                       ID=4 ID=24
PRINT HYD              ID=51 CODE=5
*************************************************************
*POND 4
*************************************************************
ROUTE RESERVOIR        ID=52 HYD=401 INFLOW ID=51 CODE=5
                       OUTFLOW            STORAGE        ELEV
                        (CFS)             (AC-FT)        (FT)
                         2.76             0.0            5111
                         3.50             0.11           5112
                         4.12             0.32           5113
                         4.65             0.65           5114
                         5.13             1.05           5115
PRINT HYD              ID=52 CODE=5
*************************************************************
*POND 8 (UNDERGROUND)
*************************************************************
ROUTE RESERVOIR        ID=53 HYD=402 INFLOW ID=14 CODE=5
                       OUTFLOW            STORAGE        ELEV
                        (CFS)             (AC-FT)        (FT)
                         0.00             0.0            5105
                         2.27             0.05           5107
                         3.38             0.14           5109
                         4.20             0.22           5111
                         4.72             0.25           5112.5
PRINT HYD              ID=53 CODE=5
*************************************************************
*S ADD POND 2 AND POND 4
ADD HYD                ID=55 HYDNO=500
                       ID=50 ID=52
PRINT HYD              ID=55 CODE=5
*************************************************************
*S ADD HYD 500 AND POND 8
ADD HYD                ID=56 HYDNO=501
                       ID=55 ID=53
PRINT HYD              ID=56 CODE=5
*************************************************************
*S ADD HYD 501 AND POND 7
ADD HYD                ID=57 HYDNO=502
                       ID=56 ID=48
PRINT HYD              ID=57 CODE=5
*************************************************************
*S ADD HYD 502 AND POND 6
ADD HYD                ID=58 HYDNO=503
                       ID=57 ID=46
PRINT HYD              ID=58 CODE=5
*************************************************************
FINISH
```

```
        AHYMO PROGRAM (AHYMO_97) -                                  - Version:
1997.02c
              RUN DATE (MON/DAY/YR) = 10/02/2007
              START TIME (HR:MIN:SEC) = 15:48:35     USER NO.=
AHYMO-C-9803c01UNMLIB-AH
              INPUT FILE = DEV10.HMI

     *  Project Number 6010 (OXBOW TOWN CENTER) 100207

     *  PROPOSED Conditions

     *  100 YEAR 24 HOUR RAINFALL TABLE

     *RAINFALL                TYPE=1  RAIN QUARTER=0

     *                        RAIN ONE=1.87 IN  RAIN SIX=2.20 IN

     *                        RAIN DAY=2.66 IN  DT=0.03333 HRS

     *  10 YEAR RAINFALL TABLE

     RAINFALL                 TYPE=1  RAIN QUARTER=0.0

                              RAIN ONE=1.25 IN  RAIN SIX=1.47 IN

                              RAIN DAY=1.77 IN  DT=0.03333 HRS

                    COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS
2 - PEAK AT 1.40 HR.
                    DT =     .033330 HOURS        END TIME =     5.999400 HOURS
                       .0000   .0011   .0022   .0033   .0045   .0056   .0069
                       .0081   .0094   .0106   .0120   .0133   .0147   .0162
                       .0177   .0192   .0208   .0224   .0241   .0258   .0276
                       .0294   .0314   .0334   .0355   .0377   .0400   .0424
                       .0449   .0476   .0504   .0538   .0575   .0615   .0700
                       .0889   .1181   .1600   .2173   .2925   .3884   .5078
                       .6535   .7888   .8453   .8930   .9354   .9740  1.0095
                      1.0425  1.0733  1.1022  1.1294  1.1551  1.1793  1.2022
                      1.2240  1.2446  1.2641  1.2827  1.3003  1.3044  1.3083
                      1.3119  1.3154  1.3187  1.3219  1.3249  1.3279  1.3307
                      1.3335  1.3361  1.3387  1.3411  1.3436  1.3459  1.3482
                      1.3504  1.3526  1.3547  1.3568  1.3588  1.3608  1.3627
                      1.3646  1.3665  1.3683  1.3701  1.3719  1.3736  1.3753
                      1.3769  1.3786  1.3802  1.3818  1.3833  1.3849  1.3864
                      1.3879  1.3893  1.3908  1.3922  1.3936  1.3950  1.3964
                      1.3977  1.3991  1.4004  1.4017  1.4030  1.4042  1.4055
                      1.4067  1.4080  1.4092  1.4104  1.4116  1.4128  1.4139
                      1.4151  1.4162  1.4173  1.4185  1.4196  1.4207  1.4217
                      1.4228  1.4239  1.4249  1.4260  1.4270  1.4280  1.4291
                      1.4301  1.4311  1.4321  1.4330  1.4340  1.4350  1.4359
                      1.4369  1.4378  1.4388  1.4397  1.4406  1.4415  1.4425
                      1.4434  1.4443  1.4451  1.4460  1.4469  1.4478  1.4486
                      1.4495  1.4503  1.4512  1.4520  1.4529  1.4537  1.4545
                      1.4553  1.4562  1.4570  1.4578  1.4586  1.4594  1.4601
                      1.4609  1.4617  1.4625  1.4633  1.4640  1.4648  1.4655
                      1.4663  1.4670  1.4678  1.4685  1.4693  1.4700

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

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

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

```
*S  COMPUTE HYD BASIN A1

COMPUTE NM HYD          ID=1  HYDNO=101  AREA=0.00780SQ MI

                        PER A=0 PER B=10 PER C=0 PER D=90

                        TP=.13333 HR MASS RAIN=-1


          K =   .072665HR    TP =   .133330HR    K/TP RATIO =   .545000
SHAPE CONSTANT, N =  7.106420
          UNIT PEAK =   27.709    CFS   UNIT VOLUME =    .9990       B =
526.28      P60 = 1.2500
          AREA =      .007020 SQ MI    IA =    .10000 INCHES    INF =
.04000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT =   .033330


          K =   .141933HR    TP =   .133330HR    K/TP RATIO =  1.064525
SHAPE CONSTANT, N =  3.317383
          UNIT PEAK =   1.7945    CFS   UNIT VOLUME =    .9923       B =
306.75      P60 = 1.2500
          AREA =      .000780 SQ MI    IA =    .50000 INCHES    INF =
1.25000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT =   .033330

     PRINT HYD              ID=1   CODE=5


                                        PARTIAL HYDROGRAPH   101.00

          TIME      FLOW            TIME      FLOW            TIME      FLOW
     TIME      FLOW            TIME      FLOW
          HRS       CFS             HRS       CFS             HRS       CFS
      HRS       CFS             HRS       CFS
          .000        .0            1.500      13.4           3.000        .1
     4.500        .0            5.999        .1
          .167        .0            1.667       6.7           3.166        .1
     4.666        .0            6.166        .0
          .333        .0            1.833       4.4           3.333        .0
     4.833        .0            6.333        .0
          .500        .0            2.000       3.2           3.500        .0
     4.999        .1            6.499        .0
          .667        .0            2.166       1.4           3.666        .0
     5.166        .1            6.666        .0
          .833        .0            2.333        .6           3.833        .0
     5.333        .1            6.833        .0
         1.000        .0            2.500        .4           4.000        .0
     5.499        .1
         1.167        .0            2.666        .2           4.166        .0
     5.666        .1
         1.333       3.4            2.833        .1           4.333        .0
     5.833        .1

        RUNOFF VOLUME =      1.13650 INCHES      =        .4728 ACRE-FEET
        PEAK DISCHARGE RATE =      13.37 CFS  AT   1.500 HOURS   BASIN AREA =
.0078 SQ. MI.


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

*S  COMPUTE HYD BASIN A2
```

DEV10

COMPUTE NM HYD ID=2 HYDNO=102 AREA=0.00623SQ MI

PER A=0 PER B=15 PER C=0 PER D=85

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 20.902 CFS UNIT VOLUME = .9988 B = 526.28 P60 = 1.2500
AREA = .005296 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .141933HR TP = .133330HR K/TP RATIO = 1.064525
SHAPE CONSTANT, N = 3.317383
UNIT PEAK = 2.1500 CFS UNIT VOLUME = .9934 B = 306.75 P60 = 1.2500
AREA = .000935 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=2 CODE=5

PARTIAL HYDROGRAPH 102.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	10.3	3.000	.1
.167	.0	1.667	5.2	3.166	.0
.333	.0	1.833	3.3	3.333	.0
.500	.0	2.000	2.4	3.500	.0
.667	.0	2.166	1.1	3.666	.0
.833	.0	2.333	.5	3.833	.0
1.000	.0	2.500	.3	4.000	.0
1.167	.0	2.666	.2	4.166	.0
1.333	2.6	2.833	.1	4.333	.0

RUNOFF VOLUME = 1.08583 INCHES = .3608 ACRE-FEET
PEAK DISCHARGE RATE = 10.25 CFS AT 1.500 HOURS BASIN AREA = .0062 SQ. MI.

****

*S COMPUTE HYD BASIN A3

COMPUTE NM HYD ID=3 HYDNO=103 AREA=0.00833SQ MI

DEV10
PER A=0 PER B=12 PER C=0 PER D=88

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 28.934 CFS UNIT VOLUME = .9990 B =
526.28 P60 = 1.2500
AREA = .007330 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .141933HR TP = .133330HR K/TP RATIO = 1.064525
SHAPE CONSTANT, N = 3.317383
UNIT PEAK = 2.2998 CFS UNIT VOLUME = .9939 B =
306.75 P60 = 1.2500
AREA = .001000 SQ MI IA = .50000 INCHES INF =
1.25000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=3 CODE=5

PARTIAL HYDROGRAPH 103.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	14.1	3.000	.1
.167	.0	1.667	7.1	3.166	.1
.333	.0	1.833	4.6	3.333	.0
.500	.0	2.000	3.4	3.500	.0
.667	.0	2.166	1.5	3.666	.0
.833	.0	2.333	.7	3.833	.0
1.000	.0	2.500	.4	4.000	.0
1.167	.0	2.666	.2	4.166	.0
1.333	3.6	2.833	.2	4.333	.0

RUNOFF VOLUME = 1.11623 INCHES = .4959 ACRE-FEET
PEAK DISCHARGE RATE = 14.05 CFS AT 1.500 HOURS BASIN AREA =
.0083 SQ. MI.

****

*S COMPUTE HYD BASIN A4

COMPUTE NM HYD ID=4 HYDNO=104 AREA=0.0104SQ MI

PER A=0 PER B=15 PER C=0 PER D=85

DEV10
TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 34.893 CFS UNIT VOLUME = .9990 B =
526.28 P60 = 1.2500
AREA = .008840 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .141933HR TP = .133330HR K/TP RATIO = 1.064525
SHAPE CONSTANT, N = 3.317383
UNIT PEAK = 3.5891 CFS UNIT VOLUME = .9962 B =
306.75 P60 = 1.2500
AREA = .001560 SQ MI IA = .50000 INCHES INF =
1.25000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=4 CODE=5

PARTIAL HYDROGRAPH 104.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	17.1	3.000	.1
.167	.0	1.667	8.6	3.166	.1
.333	.0	1.833	5.6	3.333	.1
.500	.0	2.000	4.1	3.500	.0
.667	.0	2.166	1.8	3.666	.0
.833	.0	2.333	.8	3.833	.0
1.000	.0	2.500	.5	4.000	.0
1.167	.0	2.666	.3	4.166	.0
1.333	4.3	2.833	.2	4.333	.0

RUNOFF VOLUME = 1.08583 INCHES = .6023 ACRE-FEET
PEAK DISCHARGE RATE = 17.11 CFS AT 1.500 HOURS BASIN AREA =
.0104 SQ. MI.

****

*S COMPUTE HYD BASIN B1

COMPUTE NM HYD ID=11 HYDNO=201 AREA=0.00161SQ MI

PER A=0 PER B=10 PER C=0 PER D=90

TP=.13333 HR MASS RAIN=-1

```
          K =    .072665HR     TP =    .133330HR     K/TP RATIO =    .545000
SHAPE CONSTANT, N =  7.106420
          UNIT PEAK =    5.7194     CFS    UNIT VOLUME =     .9973        B =
526.28       P60 = 1.2500
          AREA =       .001449 SQ MI     IA =     .10000 INCHES     INF =
.04000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT =    .033330


          K =    .141933HR     TP =    .133330HR     K/TP RATIO =  1.064525
SHAPE CONSTANT, N =  3.317383
          UNIT PEAK =    .37041     CFS    UNIT VOLUME =     .9630        B =
306.75       P60 = 1.2500
          AREA =       .000161 SQ MI     IA =     .50000 INCHES     INF =
1.25000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT =    .033330

     PRINT HYD                ID=11   CODE=5
```

PARTIAL HYDROGRAPH 201.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	.7	2.666	.0
.167	.0	1.500	2.8	2.833	.0
.333	.0	1.667	1.4	3.000	.0
.500	.0	1.833	.9	3.166	.0
.667	.0	2.000	.7	3.333	.0
.833	.0	2.166	.3	3.500	.0
1.000	.0	2.333	.1	3.666	.0
1.167	.0	2.500	.1	3.833	.0

```
          RUNOFF VOLUME =     1.13650 INCHES     =        .0976 ACRE-FEET
          PEAK DISCHARGE RATE =       2.77 CFS  AT   1.500 HOURS   BASIN AREA =
.0016 SQ. MI.


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

     *S  COMPUTE HYD BASIN B2

     COMPUTE NM HYD           ID=12  HYDNO=202  AREA=0.00097SQ MI

                              PER A=0 PER B=0 PER C=10 PER D=90

                              TP=.13333 HR MASS RAIN=-1


          K =    .072665HR     TP =    .133330HR     K/TP RATIO =    .545000
SHAPE CONSTANT, N =  7.106420
          UNIT PEAK =    3.4459     CFS    UNIT VOLUME =     .9960        B =
```

526.28 P60 = 1.2500
AREA = .000873 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .108040HR TP = .133330HR K/TP RATIO = .810320
SHAPE CONSTANT, N = 4.414309
UNIT PEAK = .27785 CFS UNIT VOLUME = .9517 B =
381.91 P60 = 1.2500
AREA = .000097 SQ MI IA = .35000 INCHES INF =
.83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=12 CODE=5

PARTIAL HYDROGRAPH 202.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	.4	2.666	.0
.167	.0	1.500	1.7	2.833	.0
.333	.0	1.667	.9	3.000	.0
.500	.0	1.833	.6	3.166	.0
.667	.0	2.000	.4	3.333	.0
.833	.0	2.166	.2	3.500	.0
1.000	.0	2.333	.1	3.666	.0
1.167	.0	2.500	.0	3.833	.0

TIME HRS FLOW CFS TIME HRS FLOW CFS TIME HRS FLOW CFS
4.000 .0 5.333 .0
4.166 .0 5.499 .0
4.333 .0 5.666 .0
4.500 .0 5.833 .0
4.666 .0 5.999 .0
4.833 .0 6.166 .0
4.999 .0 6.333 .0
5.166 .0

RUNOFF VOLUME = 1.15775 INCHES = .0599 ACRE-FEET
PEAK DISCHARGE RATE = 1.72 CFS AT 1.500 HOURS BASIN AREA =
.0010 SQ. MI.

****

*S COMPUTE HYD BASIN B3

COMPUTE NM HYD ID=13 HYDNO=203 AREA=0.00190SQ MI

PER A=0 PER B=10 PER C=5 PER D=85

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 6.3747 CFS UNIT VOLUME = .9976 B =
526.28 P60 = 1.2500
AREA = .001615 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -

DT = .033330

K = .130635HR TP = .133330HR K/TP RATIO = .979790
SHAPE CONSTANT, N = 3.604282
UNIT PEAK = .70082 CFS UNIT VOLUME = .9807 B = 327.86 P60 = 1.2500
AREA = .000285 SQ MI IA = .45000 INCHES INF = 1.11000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=13 CODE=5

PARTIAL HYDROGRAPH 203.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	.8	2.666	.0
4.000	.0	5.333	.0		
.167	.0	1.500	3.2	2.833	.0
4.166	.0	5.499	.0		
.333	.0	1.667	1.6	3.000	.0
4.333	.0	5.666	.0		
.500	.0	1.833	1.0	3.166	.0
4.500	.0	5.833	.0		
.667	.0	2.000	.8	3.333	.0
4.666	.0	5.999	.0		
.833	.0	2.166	.3	3.500	.0
4.833	.0	6.166	.0		
1.000	.0	2.333	.1	3.666	.0
4.999	.0	6.333	.0		
1.167	.0	2.500	.1	3.833	.0
5.166	.0	6.499	.0		

RUNOFF VOLUME = 1.09479 INCHES = .1109 ACRE-FEET
PEAK DISCHARGE RATE = 3.17 CFS AT 1.500 HOURS BASIN AREA = .0019 SQ. MI.

****

*S COMPUTE HYD BASIN B4

COMPUTE NM HYD ID=14 HYDNO=204 AREA=0.00459SQ MI

PER A=0 PER B=10 PER C=5 PER D=85

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 15.400 CFS UNIT VOLUME = .9987 B = 526.28 P60 = 1.2500
AREA = .003902 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .130635HR TP = .133330HR K/TP RATIO = .979790

DEV10

SHAPE CONSTANT, N = 3.604282
UNIT PEAK = 1.6930 CFS UNIT VOLUME = .9919 B = 327.86 P60 = 1.2500
AREA = .000689 SQ MI IA = .45000 INCHES INF = 1.11000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=14 CODE=5

PARTIAL HYDROGRAPH 204.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	7.7	3.000	.0
4.500	.0	5.999	.1		
.167	.0	1.667	3.8	3.166	.0
4.666	.0	6.166	.0		
.333	.0	1.833	2.5	3.333	.0
4.833	.0	6.333	.0		
.500	.0	2.000	1.8	3.500	.0
4.999	.0	6.499	.0		
.667	.0	2.166	.8	3.666	.0
5.166	.0	6.666	.0		
.833	.0	2.333	.4	3.833	.0
5.333	.0				
1.000	.0	2.500	.2	4.000	.0
5.499	.0				
1.167	.0	2.666	.1	4.166	.0
5.666	.0				
1.333	1.9	2.833	.1	4.333	.0
5.833	.0				

RUNOFF VOLUME = 1.09479 INCHES = .2680 ACRE-FEET
PEAK DISCHARGE RATE = 7.65 CFS AT 1.500 HOURS BASIN AREA = .0046 SQ. MI.

****

*S COMPUTE HYD BASIN B5

COMPUTE NM HYD ID=15 HYDNO=205 AREA=0.00657SQ MI

PER A=0 PER B=10 PER C=5 PER D=85

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 22.043 CFS UNIT VOLUME = .9988 B = 526.28 P60 = 1.2500
AREA = .005585 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .130635HR TP = .133330HR K/TP RATIO = .979790
SHAPE CONSTANT, N = 3.604282
UNIT PEAK = 2.4234 CFS UNIT VOLUME = .9948 B =

DEV10

327.86 P60 = 1.2500
AREA = .000986 SQ MI IA = .45000 INCHES INF =
1.11000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=15 CODE=5

PARTIAL HYDROGRAPH 205.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	11.0	3.000	.1
.167	.0	1.667	5.5	3.166	.0
.333	.0	1.833	3.5	3.333	.0
.500	.0	2.000	2.6	3.500	.0
.667	.0	2.166	1.2	3.666	.0
.833	.0	2.333	.5	3.833	.0
1.000	.0	2.500	.3	4.000	.0
1.167	.0	2.666	.2	4.166	.0
1.333	2.7	2.833	.1	4.333	.0

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
4.500	.0	5.999	.1
4.666	.0	6.166	.0
4.833	.0	6.333	.0
4.999	.0	6.499	.0
5.166	.0	6.666	.0
5.333	.1		
5.499	.1		
5.666	.1		
5.833	.1		

RUNOFF VOLUME = 1.09479 INCHES = .3836 ACRE-FEET
PEAK DISCHARGE RATE = 10.95 CFS AT 1.500 HOURS BASIN AREA =
.0066 SQ. MI.

****

*S COMPUTE HYD BASIN B6

COMPUTE NM HYD ID=16 HYDNO=206 AREA=0.00575SQ MI

PER A=0 PER B=0 PER C=10 PER D=90

TP=.16667 HR MASS RAIN=-1

K = .090835HR TP = .166670HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 16.341 CFS UNIT VOLUME = .9996 B =
526.28 P60 = 1.2500
AREA = .005175 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .135056HR TP = .166670HR K/TP RATIO = .810320
SHAPE CONSTANT, N = 4.414309
UNIT PEAK = 1.3176 CFS UNIT VOLUME = .9901 B =
381.91 P60 = 1.2500
AREA = .000575 SQ MI IA = .35000 INCHES INF =

DEV10

.83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=16 CODE=5

PARTIAL HYDROGRAPH 206.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	8.6	3.000	.1
.167	.0	1.667	5.9	3.166	.1
.333	.0	1.833	3.5	3.333	.0
.500	.0	2.000	2.6	3.500	.0
.667	.0	2.166	1.5	3.666	.0
.833	.0	2.333	.6	3.833	.0
1.000	.0	2.500	.4	4.000	.0
1.167	.0	2.666	.2	4.166	.0
1.333	1.5	2.833	.2	4.333	.0
4.500	.0	5.999	.1		
4.666	.0	6.166	.0		
4.833	.0	6.333	.0		
4.999	.0	6.499	.0		
5.166	.0	6.666	.0		
5.333	.0	6.833	.0		
5.499	.1				
5.666	.1				
5.833	.1				

RUNOFF VOLUME = 1.15775 INCHES = .3550 ACRE-FEET
PEAK DISCHARGE RATE = 9.15 CFS AT 1.533 HOURS BASIN AREA =
.0058 SQ. MI.

****

*S COMPUTE HYD BASIN B7

COMPUTE NM HYD ID=17 HYDNO=207 AREA=0.00176SQ MI

PER A=0 PER B=0 PER C=10 PER D=90

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 6.2523 CFS UNIT VOLUME = .9976 B =
526.28 P60 = 1.2500
AREA = .001584 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .108040HR TP = .133330HR K/TP RATIO = .810320
SHAPE CONSTANT, N = 4.414309
UNIT PEAK = .50413 CFS UNIT VOLUME = .9741 B =
381.91 P60 = 1.2500
AREA = .000176 SQ MI IA = .35000 INCHES INF =
.83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -

DEV10

DT = .033330

PRINT HYD ID=17 CODE=5

PARTIAL HYDROGRAPH 207.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	.8	2.666	.0	4.000	.0
.167	.0	1.500	3.1	2.833	.0	4.166	.0
.333	.0	1.667	1.6	3.000	.0	4.333	.0
.500	.0	1.833	1.0	3.166	.0	4.500	.0
.667	.0	2.000	.7	3.333	.0	4.666	.0
.833	.0	2.166	.3	3.500	.0	4.833	.0
1.000	.0	2.333	.1	3.666	.0	4.999	.0
1.167	.0	2.500	.1	3.833	.0	5.166	.0
5.333	.0	5.499	.0	5.666	.0	5.833	.0
5.999	.0	6.166	.0	6.333	.0	6.499	.0

RUNOFF VOLUME = 1.15775 INCHES = .1087 ACRE-FEET
PEAK DISCHARGE RATE = 3.11 CFS AT 1.500 HOURS BASIN AREA = .0018 SQ. MI.

****

*S COMPUTE HYD BASIN B8

COMPUTE NM HYD ID=18 HYDNO=208 AREA=0.00249SQ MI

PER A=0 PER B=0 PER C=10 PER D=90

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 8.8456 CFS UNIT VOLUME = .9980 B = 526.28 P60 = 1.2500
AREA = .002241 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .108040HR TP = .133330HR K/TP RATIO = .810320
SHAPE CONSTANT, N = 4.414309
UNIT PEAK = .71323 CFS UNIT VOLUME = .9830 B = 381.91 P60 = 1.2500
AREA = .000249 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=18 CODE=5

DEV10

PARTIAL HYDROGRAPH 208.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	1.1	2.666	.1
.167	.0	1.500	4.4	2.833	.0
.333	.0	1.667	2.2	3.000	.0
.500	.0	1.833	1.4	3.166	.0
.667	.0	2.000	1.0	3.333	.0
.833	.0	2.166	.5	3.500	.0
1.000	.0	2.333	.2	3.666	.0
1.167	.0	2.500	.1	3.833	.0
4.000	.0	5.333	.0		
4.166	.0	5.499	.0		
4.333	.0	5.666	.0		
4.500	.0	5.833	.0		
4.666	.0	5.999	.0		
4.833	.0	6.166	.0		
4.999	.0	6.333	.0		
5.166	.0	6.499	.0		

RUNOFF VOLUME = 1.15775 INCHES = .1537 ACRE-FEET
PEAK DISCHARGE RATE = 4.40 CFS AT 1.500 HOURS BASIN AREA = .0025 SQ. MI.

****

*S COMPUTE HYD BASIN B9

COMPUTE NM HYD ID=19 HYDNO=209 AREA=0.00725SQ MI

PER A=0 PER B=5 PER C=5 PER D=90

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 25.755 CFS UNIT VOLUME = .9989 B = 526.28 P60 = 1.2500
AREA = .006525 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .124987HR TP = .133330HR K/TP RATIO = .937423
SHAPE CONSTANT, N = 3.772497
UNIT PEAK = 1.8472 CFS UNIT VOLUME = .9932 B = 339.71 P60 = 1.2500
AREA = .000725 SQ MI IA = .42500 INCHES INF = 1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=19 CODE=5

PARTIAL HYDROGRAPH 209.00

TIME	FLOW	TIME	FLOW	TIME	FLOW

DEV10

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	HRS	CFS
.000	.0	1.500	12.6	3.000	.1
.167	.0	1.667	6.3	3.166	.1
.333	.0	1.833	4.1	3.333	.0
.500	.0	2.000	3.0	3.500	.0
.667	.0	2.166	1.3	3.666	.0
.833	.0	2.333	.6	3.833	.0
1.000	.0	2.500	.3	4.000	.0
1.167	.0	2.666	.2	4.166	.0
1.333	3.2	2.833	.1	4.333	.0

HRS	CFS	HRS	CFS	HRS	CFS
4.500	.0	5.999	.1		
4.666	.0	6.166	.0		
4.833	.0	6.333	.0		
4.999	.1	6.499	.0		
5.166	.1	6.666	.0		
5.333	.1				
5.499	.1				
5.666	.1				
5.833	.1				

RUNOFF VOLUME = 1.14585 INCHES = .4431 ACRE-FEET
PEAK DISCHARGE RATE = 12.59 CFS AT 1.500 HOURS BASIN AREA = .0073 SQ. MI.

****

*S COMPUTE HYD BASIN B10

COMPUTE NM HYD ID=20 HYDNO=210 AREA=0.00748SQ MI

PER A=0 PER B=10 PER C=0 PER D=90

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 26.572 CFS UNIT VOLUME = .9989 B = 526.28 P60 = 1.2500
AREA = .006732 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .141933HR TP = .133330HR K/TP RATIO = 1.064525
SHAPE CONSTANT, N = 3.317383
UNIT PEAK = 1.7209 CFS UNIT VOLUME = .9917 B = 306.75 P60 = 1.2500
AREA = .000748 SQ MI IA = .50000 INCHES INF = 1.25000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=20 CODE=5

PARTIAL HYDROGRAPH 210.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS

DEV10

HRS	CFS	HRS	CFS		
.000	.0	1.500	12.8	3.000	.1
4.500	.0	5.999	.1		
.167	.0	1.667	6.4	3.166	.1
4.666	.0	6.166	.0		
.333	.0	1.833	4.2	3.333	.0
4.833	.0	6.333	.0		
.500	.0	2.000	3.1	3.500	.0
4.999	.1	6.499	.0		
.667	.0	2.166	1.4	3.666	.0
5.166	.1	6.666	.0		
.833	.0	2.333	.6	3.833	.0
5.333	.1				
1.000	.0	2.500	.4	4.000	.0
5.499	.1				
1.167	.0	2.666	.2	4.166	.0
5.666	.1				
1.333	3.3	2.833	.1	4.333	.0
5.833	.1				

RUNOFF VOLUME = 1.13650 INCHES = .4534 ACRE-FEET
PEAK DISCHARGE RATE = 12.83 CFS AT 1.500 HOURS BASIN AREA = .0075 SQ. MI.

****

*S COMPUTE HYD BASIN 01

COMPUTE NM HYD ID=21 HYDNO=211 AREA=0.00796SQ MI

PER A=0 PER B=10 PER C=5 PER D=85

TP=.1667 HR MASS RAIN=-1

K = .090852HR TP = .166700HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 21.360 CFS UNIT VOLUME = .9997 B = 526.28 P60 = 1.2500
AREA = .006766 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .163331HR TP = .166700HR K/TP RATIO = .979790
SHAPE CONSTANT, N = 3.604281
UNIT PEAK = 2.3483 CFS UNIT VOLUME = .9942 B = 327.86 P60 = 1.2500
AREA = .001194 SQ MI IA = .45000 INCHES INF = 1.11000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=21 CODE=5

PARTIAL HYDROGRAPH 211.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	11.2	3.000	.1

```
4.666          .0          6.166          .1
     .333          .0          1.833       4.5          3.333          .1
4.833          .0          6.333          .0
     .500          .0          2.000       3.3          3.500          .0
4.999          .0          6.499          .0
     .667          .0          2.166       1.9          3.666          .0
5.166          .1          6.666          .0
     .833          .0          2.333        .8          3.833          .0
5.333          .1          6.833          .0
    1.000          .0          2.500        .5          4.000          .0
5.499          .1          6.999          .0
    1.167          .0          2.666        .3          4.166          .0
5.666          .1
    1.333         1.9          2.833        .2          4.333          .0
5.833          .1

   RUNOFF VOLUME =     1.09479 INCHES     =        .4478 ACRE-FEET
   PEAK DISCHARGE RATE =      11.52 CFS  AT   1.533 HOURS   BASIN AREA =
  .0077 SQ. MI.


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

     *S  COMPUTE HYD BASIN OS1

     COMPUTE NM HYD          ID=23  HYDNO=213  AREA=0.01104SQ MI

                             PER A=0 PER B=10 PER C=5 PER D=85

                             TP=.13333 HR MASS RAIN=-1


          K =   .072665HR    TP =   .133330HR    K/TP RATIO =   .545000
SHAPE CONSTANT, N =  7.106420
          UNIT PEAK =   37.040    CFS   UNIT VOLUME =    .9991       B =
526.28      P60 = 1.2500
          AREA =      .009384 SQ MI    IA =    .10000 INCHES    INF =
.04000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT =   .033330


          K =   .130635HR    TP =   .133330HR    K/TP RATIO =   .979790
SHAPE CONSTANT, N =  3.604282
          UNIT PEAK =   4.0722    CFS   UNIT VOLUME =    .9970       B =
327.86      P60 = 1.2500
          AREA =      .001656 SQ MI    IA =    .45000 INCHES    INF =
1.11000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT =   .033330

     PRINT HYD               ID=23   CODE=5


                                        PARTIAL HYDROGRAPH   213.00

         TIME       FLOW            TIME       FLOW            TIME       FLOW
TIME       FLOW            TIME       FLOW
         HRS        CFS             HRS        CFS             HRS        CFS
 HRS        CFS             HRS        CFS
     .000          .0          1.500       18.4          3.000          .1
4.500          .1          5.999          .1
     .167          .0          1.667        9.2          3.166          .1
4.666          .1          6.166          .0
     .333          .0          1.833        5.9          3.333          .1
```

DEV10

4.833	.1		6.333	.0			
.500		.0	2.000		4.4	3.500	.1
4.999	.1		6.499	.0			
.667		.0	2.166		1.9	3.666	.0
5.166	.1		6.666	.0			
.833		.0	2.333		.9	3.833	.0
5.333	.1		6.833	.0			
1.000		.0	2.500		.5	4.000	.0
5.499	.1						
1.167		.0	2.666		.3	4.166	.0
5.666	.1						
1.333		4.6	2.833		.2	4.333	.0
5.833	.1						

RUNOFF VOLUME = 1.09479 INCHES = .6446 ACRE-FEET
PEAK DISCHARGE RATE = 18.39 CFS AT 1.500 HOURS BASIN AREA =
.0110 SQ. MI.

****

*S COMPUTE HYD BASIN OS2

COMPUTE NM HYD ID=24 HYDNO=214 AREA=0.0008SQ MI

PER A=0 PER B=5 PER C=5 PER D=90

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 2.8420 CFS UNIT VOLUME = .9955 B =
526.28 P60 = 1.2500
AREA = .000720 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .124987HR TP = .133330HR K/TP RATIO = .937423
SHAPE CONSTANT, N = 3.772497
UNIT PEAK = .20383 CFS UNIT VOLUME = .9352 B =
339.71 P60 = 1.2500
AREA = .000080 SQ MI IA = .42500 INCHES INF =
1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=24 CODE=5

PARTIAL HYDROGRAPH 214.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	.4	2.666	.0
4.000	.0	5.333	.0		
.167	.0	1.500	1.4	2.833	.0
4.166	.0	5.499	.0		
.333	.0	1.667	.7	3.000	.0
4.333	.0	5.666	.0		
.500	.0	1.833	.5	3.166	.0

DEV10

4.500	.0	5.833	.0				
.667	.0	2.000	.3	3.333	.0		
4.666	.0	5.999	.0				
.833	.0	2.166	.1	3.500	.0		
4.833	.0	6.166	.0				
1.000	.0	2.333	.1	3.666	.0		
4.999	.0	6.333	.0				
1.167	.0	2.500	.0	3.833	.0		
5.166	.0						

RUNOFF VOLUME = 1.14585 INCHES = .0489 ACRE-FEET
PEAK DISCHARGE RATE = 1.40 CFS AT 1.500 HOURS BASIN AREA =
.0008 SQ. MI.

****

*S COMPUTE HYD BASIN OS3

COMPUTE NM HYD ID=25 HYDNO=215 AREA=0.00311SQ MI

PER A=0 PER B=5 PER C=5 PER D=90

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 11.048 CFS UNIT VOLUME = .9984 B =
526.28 P60 = 1.2500
AREA = .002799 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .124987HR TP = .133330HR K/TP RATIO = .937423
SHAPE CONSTANT, N = 3.772497
UNIT PEAK = .79238 CFS UNIT VOLUME = .9831 B =
339.71 P60 = 1.2500
AREA = .000311 SQ MI IA = .42500 INCHES INF =
1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=25 CODE=5

PARTIAL HYDROGRAPH 215.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	1.4	2.666	.1
4.000	.0	5.333	.0		
.167	.0	1.500	5.4	2.833	.1
4.166	.0	5.499	.0		
.333	.0	1.667	2.7	3.000	.0
4.333	.0	5.666	.0		
.500	.0	1.833	1.8	3.166	.0
4.500	.0	5.833	.0		
.667	.0	2.000	1.3	3.333	.0
4.666	.0	5.999	.0		
.833	.0	2.166	.6	3.500	.0

DEV10

4.833	.0	6.166	.0				
1.000	.0	2.333	.3	3.666	.0		
4.999	.0	6.333	.0				
1.167	.0	2.500	.1	3.833	.0		
5.166	.0	6.499	.0				

RUNOFF VOLUME = 1.14585 INCHES = .1901 ACRE-FEET
PEAK DISCHARGE RATE = 5.41 CFS AT 1.500 HOURS BASIN AREA = .0031 SQ. MI.

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*S ADD O1 AND O2

ADD HYD ID=28 HYDNO=300

ID=21 ID=22

PRINT HYD ID=28 CODE=5

HYDROGRAPH FROM AREA 300.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	22.0	3.000	.3
4.500	.1	5.999	.2		
.167	.0	1.667	15.3	3.166	.2
4.666	.1	6.166	.1		
.333	.0	1.833	9.1	3.333	.1
4.833	.1	6.333	.0		
.500	.0	2.000	6.7	3.500	.1
4.999	.1	6.499	.0		
.667	.0	2.166	3.8	3.666	.1
5.166	.1	6.666	.0		
.833	.0	2.333	1.6	3.833	.1
5.333	.1	6.833	.0		
1.000	.0	2.500	1.0	4.000	.1
5.499	.1	6.999	.0		
1.167	.0	2.666	.6	4.166	.1
5.666	.1				
1.333	3.9	2.833	.4	4.333	.1
5.833	.2				

RUNOFF VOLUME = 1.09474 INCHES = .9126 ACRE-FEET
PEAK DISCHARGE RATE = 23.47 CFS AT 1.533 HOURS BASIN AREA = .0156 SQ. MI.

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*OFFSITE POND ON CHURCH TRACT

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ROUTE RESERVOIR ID=29 HYD=301 INFLOW ID=28 CODE=5

DEV10

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
0.01	0.0	5108
5.43	0.40	5110
7.05	0.65	5111
8.37	0.95	5112
9.50	1.25	5113

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5108.00	-.001	.00
.17	.00	5108.00	.000	.01
.33	.00	5108.00	.000	.01
.50	.00	5108.00	.000	.01
.67	.00	5108.00	.000	.01
.83	.00	5108.00	.000	.01
1.00	.00	5108.00	.000	.01
1.17	.00	5108.00	.000	.01
1.33	3.87	5108.06	.012	.17
1.50	21.95	5108.84	.169	2.30
1.67	15.27	5109.98	.397	5.38
1.83	9.10	5110.31	.477	5.93
2.00	6.69	5110.41	.502	6.09
2.17	3.79	5110.37	.493	6.03
2.33	1.64	5110.19	.446	5.73
2.50	1.00	5109.94	.388	5.26
2.67	.63	5109.66	.332	4.50
2.83	.41	5109.41	.281	3.82
3.00	.27	5109.19	.237	3.23
3.17	.18	5109.00	.200	2.72
3.33	.12	5108.84	.167	2.28
3.50	.09	5108.70	.140	1.91
3.67	.07	5108.58	.117	1.60
3.83	.06	5108.49	.098	1.34
4.00	.06	5108.41	.082	1.12
4.17	.07	5108.34	.069	.94
4.33	.07	5108.29	.058	.79
4.50	.08	5108.24	.049	.67
4.67	.08	5108.21	.041	.57
4.83	.09	5108.18	.035	.49
5.00	.10	5108.15	.030	.42
5.17	.11	5108.13	.026	.37
5.33	.12	5108.12	.023	.32
5.50	.13	5108.10	.021	.29
5.67	.14	5108.09	.019	.26
5.83	.16	5108.09	.017	.24
6.00	.17	5108.08	.016	.23
6.17	.10	5108.08	.015	.22
6.33	.03	5108.07	.013	.19
6.50	.01	5108.06	.011	.16
6.67	.01	5108.05	.009	.14
6.83	.00	5108.04	.008	.11
7.00	.00	5108.03	.006	.09
7.17	.00	5108.03	.005	.08
7.33	.00	5108.02	.004	.07
7.50	.00	5108.02	.003	.05

7.67	.00	5108.01	.003	.04
7.83	.00	5108.01	.002	.04
8.00	.00	5108.01	.002	.03
8.17	.00	5108.01	.001	.03
8.33	.00	5108.00	.001	.02
8.50	.00	5108.00	.001	.02
8.67	.00	5108.00	.000	.01
8.83	.00	5108.00	.000	.01
9.00	.00	5108.00	.000	.01
9.17	.00	5108.00	.000	.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.33	.00	5108.00	.000	.01
9.50	.00	5108.00	.000	.01
9.67	.00	5108.00	.000	.01
9.83	.00	5108.00	.000	.01
10.00	.00	5108.00	.000	.01
10.17	.00	5108.00	.000	.01
10.33	.00	5108.00	.000	.01
10.50	.00	5108.00	.000	.01
10.67	.00	5108.00	.000	.01
10.83	.00	5108.00	.000	.01
11.00	.00	5108.00	.000	.01
11.17	.00	5108.00	.000	.01
11.33	.00	5108.00	.000	.01
11.50	.00	5108.00	.000	.01
11.67	.00	5108.00	.000	.01
11.83	.00	5108.00	.000	.01
12.00	.00	5108.00	.000	.01
12.17	.00	5108.00	.000	.01
12.33	.00	5108.00	.000	.01
12.50	.00	5108.00	.000	.01
12.67	.00	5108.00	.000	.01
12.83	.00	5108.00	.000	.01
13.00	.00	5108.00	.000	.01
13.17	.00	5108.00	.000	.01
13.33	.00	5108.00	.000	.01
13.50	.00	5108.00	.000	.01
13.67	.00	5108.00	.000	.01
13.83	.00	5108.00	.000	.01
14.00	.00	5108.00	.000	.01
14.17	.00	5108.00	.000	.01
14.33	.00	5108.00	.000	.01
14.50	.00	5108.00	.000	.01
14.67	.00	5108.00	.000	.01
14.83	.00	5108.00	.000	.01
15.00	.00	5108.00	.000	.01
15.17	.00	5108.00	.000	.01
15.33	.00	5108.00	.000	.01
15.50	.00	5108.00	.000	.01
15.67	.00	5108.00	.000	.01
15.83	.00	5108.00	.000	.01
16.00	.00	5108.00	.000	.01
16.17	.00	5108.00	.000	.01
16.33	.00	5108.00	.000	.01
16.50	.00	5108.00	.000	.01
16.67	.00	5108.00	.000	.01
16.83	.00	5108.00	.000	.01
17.00	.00	5108.00	.000	.01
17.16	.00	5108.00	.000	.01
17.33	.00	5108.00	.000	.01
17.50	.00	5108.00	.000	.01
17.66	.00	5108.00	.000	.01
17.83	.00	5108.00	.000	.01

DEV10

18.00	.00	5108.00	.000	.01
18.16	.00	5108.00	.000	.01
18.33	.00	5108.00	.000	.01
18.50	.00	5108.00	.000	.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	.00	5108.00	.000	.01
18.83	.00	5108.00	.000	.01
19.00	.00	5108.00	.000	.01
19.16	.00	5108.00	.000	.01
19.33	.00	5108.00	.000	.01
19.50	.00	5108.00	.000	.01
19.66	.00	5108.00	.000	.01
19.83	.00	5108.00	.000	.01

PEAK DISCHARGE = 6.096 CFS - PEAK OCCURS AT HOUR 2.07
MAXIMUM WATER SURFACE ELEVATION = 5110.411
MAXIMUM STORAGE = .5028 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=29 CODE=5

HYDROGRAPH FROM AREA 301.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	1.1	7.999	.0
11.999	.0	15.998	.0		
.167	.0	4.166	.9	8.166	.0
12.165	.0	16.165	.0		
.333	.0	4.333	.8	8.332	.0
12.332	.0	16.332	.0		
.500	.0	4.500	.7	8.499	.0
12.499	.0	16.498	.0		
.667	.0	4.666	.6	8.666	.0
12.665	.0	16.665	.0		
.833	.0	4.833	.5	8.832	.0
12.832	.0	16.832	.0		
1.000	.0	4.999	.4	8.999	.0
12.999	.0	16.998	.0		
1.167	.0	5.166	.4	9.166	.0
13.165	.0	17.165	.0		
1.333	.2	5.333	.3	9.332	.0
13.332	.0	17.332	.0		
1.500	2.3	5.499	.3	9.499	.0
13.499	.0	17.498	.0		
1.667	5.4	5.666	.3	9.666	.0
13.665	.0	17.665	.0		
1.833	5.9	5.833	.2	9.832	.0
13.832	.0	17.832	.0		
2.000	6.1	5.999	.2	9.999	.0
13.999	.0	17.998	.0		
2.166	6.0	6.166	.2	10.166	.0
14.165	.0	18.165	.0		
2.333	5.7	6.333	.2	10.332	.0
14.332	.0	18.331	.0		
2.500	5.3	6.499	.2	10.499	.0
14.499	.0	18.498	.0		
2.666	4.5	6.666	.1	10.666	.0
14.665	.0	18.665	.0		
2.833	3.8	6.833	.1	10.832	.0
14.832	.0	18.831	.0		

DEV10

3.000	3.2	6.999	.1	10.999	.0	14.998	.0
18.998	.0	3.166	2.7	7.166	.1	11.166	.0
15.165	.0	19.165	.0	3.333	2.3	7.333	.1
11.332	.0	15.332	.0	19.331	.0	3.500	1.9
7.499	.1	11.499	.0	15.498	.0	19.498	.0
3.666	1.6	7.666	.0	11.665	.0	15.665	.0
19.665	.0	3.833	1.3	7.833	.0	11.832	.0
15.832	.0	19.831	.0				

RUNOFF VOLUME = 1.10678 INCHES = .9226 ACRE-FEET
PEAK DISCHARGE RATE = 6.10 CFS AT 2.066 HOURS BASIN AREA = .0156 SQ. MI.

****

*POND 1

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ROUTE RESERVOIR ID=30 HYD=302 INFLOW ID=1 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
0.01	0.0	5110
2.82	0.21	5111
3.31	0.47	5112
3.73	0.77	5113
4.11	1.12	5114

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5110.00	-.001	.00
.17	.00	5110.00	.000	.01
.33	.00	5110.00	.000	.01
.50	.00	5110.00	.000	.01
.67	.00	5110.00	.000	.01
.83	.00	5110.00	.000	.01
1.00	.00	5110.00	.000	.01
1.17	.00	5110.00	.000	.01
1.33	3.45	5110.06	.012	.17
1.50	13.37	5110.57	.120	1.62
1.67	6.72	5111.06	.227	2.85
1.83	4.40	5111.19	.260	2.91
2.00	3.23	5111.24	.272	2.94
2.17	1.43	5111.21	.265	2.92
2.33	.63	5111.11	.238	2.87
2.50	.37	5110.98	.206	2.77
2.67	.23	5110.83	.175	2.35
2.83	.15	5110.70	.148	1.98
3.00	.09	5110.59	.124	1.67

3.17	.06	5110.50	.104	1.40
3.33	.05	5110.41	.087	1.17
3.50	.04	5110.35	.073	.98
3.67	.03	5110.29	.061	.82
3.83	.03	5110.24	.051	.69
4.00	.03	5110.20	.043	.58
4.17	.04	5110.17	.036	.49
4.33	.04	5110.14	.030	.41
4.50	.04	5110.12	.025	.35
4.67	.04	5110.10	.021	.30
4.83	.05	5110.09	.018	.26
5.00	.05	5110.08	.016	.22
5.17	.06	5110.07	.014	.19
5.33	.07	5110.06	.012	.17
5.50	.07	5110.05	.011	.15
5.67	.08	5110.05	.010	.14
5.83	.08	5110.04	.009	.13
6.00	.09	5110.04	.008	.12
6.17	.04	5110.04	.008	.12
6.33	.01	5110.03	.007	.10
6.50	.00	5110.03	.005	.08
6.67	.00	5110.02	.004	.07
6.83	.00	5110.02	.004	.06
7.00	.00	5110.01	.003	.05
7.17	.00	5110.01	.002	.04
7.33	.00	5110.01	.002	.03
7.50	.00	5110.01	.001	.03
7.67	.00	5110.00	.001	.02
7.83	.00	5110.00	.001	.02
8.00	.00	5110.00	.000	.02
8.17	.00	5110.00	.000	.01
8.33	.00	5110.00	.000	.01
8.50	.00	5110.00	.000	.01
8.67	.00	5110.00	.000	.01
8.83	.00	5110.00	.000	.01
9.00	.00	5110.00	.000	.01
9.17	.00	5110.00	.000	.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.33	.00	5110.00	.000	.01
9.50	.00	5110.00	.000	.01
9.67	.00	5110.00	.000	.01
9.83	.00	5110.00	.000	.01
10.00	.00	5110.00	.000	.01
10.17	.00	5110.00	.000	.01
10.33	.00	5110.00	.000	.01
10.50	.00	5110.00	.000	.01
10.67	.00	5110.00	.000	.01
10.83	.00	5110.00	.000	.01
11.00	.00	5110.00	.000	.01
11.17	.00	5110.00	.000	.01
11.33	.00	5110.00	.000	.01
11.50	.00	5110.00	.000	.01
11.67	.00	5110.00	.000	.01
11.83	.00	5110.00	.000	.01
12.00	.00	5110.00	.000	.01
12.17	.00	5110.00	.000	.01
12.33	.00	5110.00	.000	.01
12.50	.00	5110.00	.000	.01
12.67	.00	5110.00	.000	.01
12.83	.00	5110.00	.000	.01
13.00	.00	5110.00	.000	.01
13.17	.00	5110.00	.000	.01
13.33	.00	5110.00	.000	.01

DEV10

13.50	.00	5110.00	.000	.01
13.67	.00	5110.00	.000	.01
13.83	.00	5110.00	.000	.01
14.00	.00	5110.00	.000	.01
14.17	.00	5110.00	.000	.01
14.33	.00	5110.00	.000	.01
14.50	.00	5110.00	.000	.01
14.67	.00	5110.00	.000	.01
14.83	.00	5110.00	.000	.01
15.00	.00	5110.00	.000	.01
15.17	.00	5110.00	.000	.01
15.33	.00	5110.00	.000	.01
15.50	.00	5110.00	.000	.01
15.67	.00	5110.00	.000	.01
15.83	.00	5110.00	.000	.01
16.00	.00	5110.00	.000	.01
16.17	.00	5110.00	.000	.01
16.33	.00	5110.00	.000	.01
16.50	.00	5110.00	.000	.01
16.67	.00	5110.00	.000	.01
16.83	.00	5110.00	.000	.01
17.00	.00	5110.00	.000	.01
17.16	.00	5110.00	.000	.01
17.33	.00	5110.00	.000	.01
17.50	.00	5110.00	.000	.01
17.66	.00	5110.00	.000	.01
17.83	.00	5110.00	.000	.01
18.00	.00	5110.00	.000	.01
18.16	.00	5110.00	.000	.01
18.33	.00	5110.00	.000	.01
18.50	.00	5110.00	.000	.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	.00	5110.00	.000	.01
18.83	.00	5110.00	.000	.01
19.00	.00	5110.00	.000	.01
19.16	.00	5110.00	.000	.01
19.33	.00	5110.00	.000	.01
19.50	.00	5110.00	.000	.01
19.66	.00	5110.00	.000	.01
19.83	.00	5110.00	.000	.01

PEAK DISCHARGE = 2.938 CFS - PEAK OCCURS AT HOUR 2.03
MAXIMUM WATER SURFACE ELEVATION = 5111.241
MAXIMUM STORAGE = .2725 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=30 CODE=5

HYDROGRAPH FROM AREA 302.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	.6	7.999	.0
11.999	.0	15.998	.0		
.167	.0	4.166	.5	8.166	.0
12.165	.0	16.165	.0		
.333	.0	4.333	.4	8.332	.0
12.332	.0	16.332	.0		
.500	.0	4.500	.3	8.499	.0
12.499	.0	16.498	.0		
.667	.0	4.666	.3	8.666	.0

DEV10

12.665	.0		16.665	.0			
.833	.0		4.833	.3		8.832	.0
12.832	.0		16.832	.0			
1.000	.0		4.999	.2		8.999	.0
12.999	.0		16.998	.0			
1.167	.0		5.166	.2		9.166	.0
13.165	.0		17.165	.0			
1.333	.2		5.333	.2		9.332	.0
13.332	.0		17.332	.0			
1.500	1.6		5.499	.2		9.499	.0
13.499	.0		17.498	.0			
1.667	2.9		5.666	.1		9.666	.0
13.665	.0		17.665	.0			
1.833	2.9		5.833	.1		9.832	.0
13.832	.0		17.832	.0			
2.000	2.9		5.999	.1		9.999	.0
13.999	.0		17.998	.0			
2.166	2.9		6.166	.1		10.166	.0
14.165	.0		18.165	.0			
2.333	2.9		6.333	.1		10.332	.0
14.332	.0		18.331	.0			
2.500	2.8		6.499	.1		10.499	.0
14.499	.0		18.498	.0			
2.666	2.3		6.666	.1		10.666	.0
14.665	.0		18.665	.0			
2.833	2.0		6.833	.1		10.832	.0
14.832	.0		18.831	.0			
3.000	1.7		6.999	.0		10.999	.0
14.998	.0		18.998	.0			
3.166	1.4		7.166	.0		11.166	.0
15.165	.0		19.165	.0			
3.333	1.2		7.333	.0		11.332	.0
15.332	.0		19.331	.0			
3.500	1.0		7.499	.0		11.499	.0
15.498	.0		19.498	.0			
3.666	.8		7.666	.0		11.665	.0
15.665	.0		19.665	.0			
3.833	.7		7.833	.0		11.832	.0
15.832	.0		19.831	.0			

RUNOFF VOLUME = 1.16169 INCHES = .4833 ACRE-FEET
PEAK DISCHARGE RATE = 2.94 CFS AT 2.033 HOURS BASIN AREA = .0078 SQ. MI.

****

*S ADD OFFSITE POND AND POND 1

ADD HYD ID=31 HYDNO=303

ID=29 ID=30

PRINT HYD ID=31 CODE=5

HYDROGRAPH FROM AREA 303.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	1.7	7.999	.0
11.999	.0	15.998	.0		
.167	.0	4.166	1.4	8.166	.0

DEV10

12.165	.0		16.165	.0			
.333	.0		4.333	1.2		8.332	.0
12.332	.0		16.332	.0			
.500	.0		4.500	1.0		8.499	.0
12.499	.0		16.498	.0			
.667	.0		4.666	.9		8.666	.0
12.665	.0		16.665	.0			
.833	.0		4.833	.7		8.832	.0
12.832	.0		16.832	.0			
1.000	.0		4.999	.6		8.999	.0
12.999	.0		16.998	.0			
1.167	.0		5.166	.6		9.166	.0
13.165	.0		17.165	.0			
1.333	.3		5.333	.5		9.332	.0
13.332	.0		17.332	.0			
1.500	3.9		5.499	.4		9.499	.0
13.499	.0		17.498	.0			
1.667	8.2		5.666	.4		9.666	.0
13.665	.0		17.665	.0			
1.833	8.8		5.833	.4		9.832	.0
13.832	.0		17.832	.0			
2.000	9.0		5.999	.4		9.999	.0
13.999	.0		17.998	.0			
2.166	9.0		6.166	.3		10.166	.0
14.165	.0		18.165	.0			
2.333	8.6		6.333	.3		10.332	.0
14.332	.0		18.331	.0			
2.500	8.0		6.499	.2		10.499	.0
14.499	.0		18.498	.0			
2.666	6.9		6.666	.2		10.666	.0
14.665	.0		18.665	.0			
2.833	5.8		6.833	.2		10.832	.0
14.832	.0		18.831	.0			
3.000	4.9		6.999	.1		10.999	.0
14.998	.0		18.998	.0			
3.166	4.1		7.166	.1		11.166	.0
15.165	.0		19.165	.0			
3.333	3.5		7.333	.1		11.332	.0
15.332	.0		19.331	.0			
3.500	2.9		7.499	.1		11.499	.0
15.498	.0		19.498	.0			
3.666	2.4		7.666	.1		11.665	.0
15.665	.0		19.665	.0			
3.833	2.0		7.833	.1		11.832	.0
15.832	.0		19.831	.0			

RUNOFF VOLUME = 1.12505 INCHES = 1.4059 ACRE-FEET
PEAK DISCHARGE RATE = 9.03 CFS AT 2.066 HOURS BASIN AREA = .0234 SQ. MI.

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*POND 3

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ROUTE RESERVOIR ID=32 HYD=304 INFLOW ID=3 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
2.29	0.0	5111

2.89	0.28	5112
3.39	0.62	5113
3.83	1.01	5114
4.22	1.20	5115

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

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5107.18	-1.069	.00
.17	.00	5111.00	.000	2.29
.33	.00	5111.00	.000	2.29
.50	.00	5111.00	.000	2.29
.67	.00	5111.00	.000	2.29
.83	.00	5111.00	.000	2.29
1.00	.00	5111.00	.000	2.29
1.17	.00	5111.00	.000	2.29
1.33	3.60	5111.00	.000	2.29
1.50	14.05	5111.32	.090	2.48
1.67	7.06	5111.72	.201	2.72
1.83	4.61	5111.86	.240	2.80
2.00	3.38	5111.91	.256	2.84
2.17	1.50	5111.90	.252	2.83
2.33	.67	5111.81	.227	2.78
2.50	.39	5111.70	.196	2.71
2.67	.24	5111.58	.163	2.64
2.83	.15	5111.46	.130	2.57
3.00	.10	5111.35	.097	2.50
3.17	.07	5111.23	.064	2.43
3.33	.05	5111.11	.032	2.36
3.50	.04	5111.00	.001	2.29
3.67	.04	5111.00	.000	2.29
3.83	.03	5111.00	.000	2.29
4.00	.03	5111.00	.000	2.29
4.17	.04	5111.00	.000	2.29
4.33	.04	5111.00	.000	2.29
4.50	.04	5111.00	.000	2.29
4.67	.05	5111.00	.000	2.29
4.83	.05	5111.00	.000	2.29
5.00	.06	5111.00	.000	2.29
5.17	.06	5111.00	.000	2.29
5.33	.07	5111.00	.000	2.29
5.50	.08	5111.00	.000	2.29
5.67	.08	5111.00	.000	2.29
5.83	.09	5111.00	.000	2.29
6.00	.10	5111.00	.000	2.29
6.17	.04	5111.00	.000	2.29
6.33	.01	5111.00	.000	2.29
6.50	.00	5111.00	.000	2.29
6.67	.00	5111.00	.000	2.29
6.83	.00	5111.00	.000	2.29
7.00	.00	5111.00	.000	2.29
7.17	.00	5111.00	.000	2.29
7.33	.00	5111.00	.000	2.29
7.50	.00	5111.00	.000	2.29
7.67	.00	5111.00	.000	2.29
7.83	.00	5111.00	.000	2.29
8.00	.00	5111.00	.000	2.29
8.17	.00	5111.00	.000	2.29
8.33	.00	5111.00	.000	2.29
8.50	.00	5111.00	.000	2.29

8.67	.00	5111.00	.000	2.29
8.83	.00	5111.00	.000	2.29
9.00	.00	5111.00	.000	2.29
9.17	.00	5111.00	.000	2.29

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.33	.00	5111.00	.000	2.29
9.50	.00	5111.00	.000	2.29
9.67	.00	5111.00	.000	2.29
9.83	.00	5111.00	.000	2.29
10.00	.00	5111.00	.000	2.29
10.17	.00	5111.00	.000	2.29
10.33	.00	5111.00	.000	2.29
10.50	.00	5111.00	.000	2.29
10.67	.00	5111.00	.000	2.29
10.83	.00	5111.00	.000	2.29
11.00	.00	5111.00	.000	2.29
11.17	.00	5111.00	.000	2.29
11.33	.00	5111.00	.000	2.29
11.50	.00	5111.00	.000	2.29
11.67	.00	5111.00	.000	2.29
11.83	.00	5111.00	.000	2.29
12.00	.00	5111.00	.000	2.29
12.17	.00	5111.00	.000	2.29
12.33	.00	5111.00	.000	2.29
12.50	.00	5111.00	.000	2.29
12.67	.00	5111.00	.000	2.29
12.83	.00	5111.00	.000	2.29
13.00	.00	5111.00	.000	2.29
13.17	.00	5111.00	.000	2.29
13.33	.00	5111.00	.000	2.29
13.50	.00	5111.00	.000	2.29
13.67	.00	5111.00	.000	2.29
13.83	.00	5111.00	.000	2.29
14.00	.00	5111.00	.000	2.29
14.17	.00	5111.00	.000	2.29
14.33	.00	5111.00	.000	2.29
14.50	.00	5111.00	.000	2.29
14.67	.00	5111.00	.000	2.29
14.83	.00	5111.00	.000	2.29
15.00	.00	5111.00	.000	2.29
15.17	.00	5111.00	.000	2.29
15.33	.00	5111.00	.000	2.29
15.50	.00	5111.00	.000	2.29
15.67	.00	5111.00	.000	2.29
15.83	.00	5111.00	.000	2.29
16.00	.00	5111.00	.000	2.29
16.17	.00	5111.00	.000	2.29
16.33	.00	5111.00	.000	2.29
16.50	.00	5111.00	.000	2.29
16.67	.00	5111.00	.000	2.29
16.83	.00	5111.00	.000	2.29
17.00	.00	5111.00	.000	2.29
17.16	.00	5111.00	.000	2.29
17.33	.00	5111.00	.000	2.29
17.50	.00	5111.00	.000	2.29
17.66	.00	5111.00	.000	2.29
17.83	.00	5111.00	.000	2.29
18.00	.00	5111.00	.000	2.29
18.16	.00	5111.00	.000	2.29
18.33	.00	5111.00	.000	2.29
18.50	.00	5111.00	.000	2.29

TIME INFLOW ELEV VOLUME OUTFLOW

DEV10

(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)
18.66	.00	5111.00	.000	2.29
18.83	.00	5111.00	.000	2.29
19.00	.00	5111.00	.000	2.29
19.16	.00	5111.00	.000	2.29
19.33	.00	5111.00	.000	2.29
19.50	.00	5111.00	.000	2.29
19.66	.00	5111.00	.000	2.29
19.83	.00	5111.00	.000	2.29

PEAK DISCHARGE = 2.841 CFS - PEAK OCCURS AT HOUR 2.07
MAXIMUM WATER SURFACE ELEVATION = 5111.919
MAXIMUM STORAGE = .2573 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=32 CODE=5

HYDROGRAPH FROM AREA 304.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	2.3	7.999	2.3
.167	2.3	4.166	2.3	8.166	2.3
.333	2.3	4.333	2.3	8.332	2.3
.500	2.3	4.500	2.3	8.499	2.3
.667	2.3	4.666	2.3	8.666	2.3
.833	2.3	4.833	2.3	8.832	2.3
1.000	2.3	4.999	2.3	8.999	2.3
1.167	2.3	5.166	2.3	9.166	2.3
1.333	2.3	5.333	2.3	9.332	2.3
1.500	2.5	5.499	2.3	9.499	2.3
1.667	2.7	5.666	2.3	9.666	2.3
1.833	2.8	5.833	2.3	9.832	2.3
2.000	2.8	5.999	2.3	9.999	2.3
2.166	2.8	6.166	2.3	10.166	2.3
2.333	2.8	6.333	2.3	10.332	2.3
2.500	2.7	6.499	2.3	10.499	2.3
2.666	2.6	6.666	2.3	10.666	2.3
2.833	2.6	6.833	2.3	10.832	2.3
3.000	2.5	6.999	2.3	10.999	2.3
3.166	2.4	7.166	2.3	11.166	2.3
3.333	2.4	7.333	2.3	11.332	2.3

DEV10

3.500	2.3	7.499	2.3	11.499	2.3	15.498	2.3
19.498	2.3						
3.666	2.3	7.666	2.3	11.665	2.3	15.665	2.3
19.665	2.3						
3.833	2.3	7.833	2.3	11.832	2.3	15.832	2.3
19.831	2.3						

RUNOFF VOLUME = 8.63458 INCHES = 3.8360 ACRE-FEET
PEAK DISCHARGE RATE = 2.84 CFS AT 2.066 HOURS BASIN AREA = .0083 SQ. MI.

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*S ADD HYD 303 AND POND 3

ADD HYD ID=34 HYDNO=306

ID=31 ID=32

PRINT HYD ID=34 CODE=5

HYDROGRAPH FROM AREA 306.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	4.0	7.999	2.3
11.999	2.3	15.998	2.3		
.167	2.3	4.166	3.7	8.166	2.3
12.165	2.3	16.165	2.3		
.333	2.3	4.333	3.5	8.332	2.3
12.332	2.3	16.332	2.3		
.500	2.3	4.500	3.3	8.499	2.3
12.499	2.3	16.498	2.3		
.667	2.3	4.666	3.2	8.666	2.3
12.665	2.3	16.665	2.3		
.833	2.3	4.833	3.0	8.832	2.3
12.832	2.3	16.832	2.3		
1.000	2.3	4.999	2.9	8.999	2.3
12.999	2.3	16.998	2.3		
1.167	2.3	5.166	2.8	9.166	2.3
13.165	2.3	17.165	2.3		
1.333	2.6	5.333	2.8	9.332	2.3
13.332	2.3	17.332	2.3		
1.500	6.4	5.499	2.7	9.499	2.3
13.499	2.3	17.498	2.3		
1.667	11.0	5.666	2.7	9.666	2.3
13.665	2.3	17.665	2.3		
1.833	11.6	5.833	2.7	9.832	2.3
13.832	2.3	17.832	2.3		
2.000	11.9	5.999	2.6	9.999	2.3
13.999	2.3	17.998	2.3		
2.166	11.8	6.166	2.6	10.166	2.3
14.165	2.3	18.165	2.3		
2.333	11.4	6.333	2.6	10.332	2.3
14.332	2.3	18.331	2.3		
2.500	10.7	6.499	2.5	10.499	2.3
14.499	2.3	18.498	2.3		
2.666	9.5	6.666	2.5	10.666	2.3
14.665	2.3	18.665	2.3		
2.833	8.4	6.833	2.5	10.832	2.3
14.832	2.3	18.831	2.3		

DEV10

3.000	7.4	6.999	2.4	10.999	2.3	14.998	2.3
3.166	6.5	7.166	2.4	11.166	2.3	15.165	2.3
3.333	5.8	7.333	2.4	11.332	2.3	15.332	2.3
3.500	5.2	7.499	2.4	11.499	2.3	15.498	2.3
3.666	4.7	7.666	2.4	11.665	2.3	15.665	2.3
3.833	4.3	7.833	2.3	11.832	2.3	15.832	2.3
		18.998	2.3			19.165	2.3
		19.331	2.3			19.498	2.3
		19.665	2.3			19.831	2.3

RUNOFF VOLUME = 3.09468 INCHES = 5.2419 ACRE-FEET
PEAK DISCHARGE RATE = 11.88 CFS AT 2.066 HOURS BASIN AREA = .0318 SQ. MI.

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*S ADD B1 AND B2

ADD HYD ID=36 HYDNO=308

ID=11 ID=12

PRINT HYD ID=36 CODE=5

HYDROGRAPH FROM AREA 308.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	1.1	2.666	.1
.167	.0	1.500	4.5	2.833	.0
.333	.0	1.667	2.3	3.000	.0
.500	.0	1.833	1.5	3.166	.0
.667	.0	2.000	1.1	3.333	.0
.833	.0	2.166	.5	3.500	.0
1.000	.0	2.333	.2	3.666	.0
1.167	.0	2.500	.1	3.833	.0
4.000	.0	5.333	.0	6.666	.0
4.166	.0	5.499	.0	6.833	.0
4.333	.0	5.666	.0	6.999	.0
4.500	.0	5.833	.0	7.166	.0
4.666	.0	5.999	.0	7.333	.0
4.833	.0	6.166	.0	7.499	.0
4.999	.0	6.333	.0	7.666	.0
5.166	.0			7.833	.0

RUNOFF VOLUME = 1.14426 INCHES = .1574 ACRE-FEET
PEAK DISCHARGE RATE = 4.49 CFS AT 1.500 HOURS BASIN AREA = .0026 SQ. MI.

****

*S ADD HYD 308 AND B3

ADD HYD ID=37 HYDNO=309

ID=36 ID=13

DEV10

PRINT HYD ID=37 CODE=5

HYDROGRAPH FROM AREA 309.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	1.9	2.666	.1
4.000	.0	5.333	.0	2.833	.1
.167	.0	1.500	7.7	3.000	.0
4.166	.0	5.499	.0	3.166	.0
.333	.0	1.667	3.8	3.333	.0
4.333	.0	5.666	.0	3.500	.0
.500	.0	1.833	2.5	3.666	.0
4.500	.0	5.833	.0	3.833	.0
.667	.0	2.000	1.8		
4.666	.0	5.999	.1		
.833	.0	2.166	.8		
4.833	.0	6.166	.0		
1.000	.0	2.333	.4		
4.999	.0	6.333	.0		
1.167	.0	2.500	.2		
5.166	.0	6.499	.0		

RUNOFF VOLUME = 1.12321 INCHES = .2684 ACRE-FEET
PEAK DISCHARGE RATE = 7.66 CFS AT 1.500 HOURS BASIN AREA = .0045 SQ. MI.

****

*S ADD B5 AND B6

ADD HYD ID=38 HYDNO=310

ID=15 ID=16

PRINT HYD ID=38 CODE=5

HYDROGRAPH FROM AREA 310.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	19.5	3.000	.2
4.500	.1	5.999	.1	3.166	.1
.167	.0	1.667	11.4	3.333	.1
4.666	.1	6.166	.1	3.500	.1
.333	.0	1.833	7.1	3.666	.1
4.833	.1	6.333	.0	3.833	.1
.500	.0	2.000	5.2	4.000	.1
4.999	.1	6.499	.0	4.166	.1
.667	.0	2.166	2.6		
5.166	.1	6.666	.0		
.833	.0	2.333	1.2		
5.333	.1	6.833	.0		
1.000	.0	2.500	.7		
5.499	.1	2.666	.4		
1.167	.0				
5.666	.1				

DEV10

1.333	4.3	2.833	.3	4.333	.1	5.833	.1		

RUNOFF VOLUME = 1.12412 INCHES = .7386 ACRE-FEET
PEAK DISCHARGE RATE = 19.60 CFS AT 1.533 HOURS BASIN AREA = .0123 SQ. MI.

****

*S ADD HYD 309 AND HYD 310

ADD HYD ID=39 HYDNO=311

ID=37 ID=38

PRINT HYD ID=39 CODE=5

HYDROGRAPH FROM AREA 311.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	27.2	3.000	.2
.167	.0	1.667	15.3	3.166	.1
.333	.0	1.833	9.6	3.333	.1
.500	.0	2.000	7.0	3.500	.1
.667	.0	2.166	3.4	3.666	.1
.833	.0	2.333	1.5	3.833	.1
1.000	.0	2.500	.9	4.000	.1
1.167	.0	2.666	.5	4.166	.1
1.333	6.2	2.833	.3	4.333	.1
4.500	.1	5.999	.2	5.833	.2
4.666	.1	6.166	.1		
4.833	.1	6.333	.0		
4.999	.1	6.499	.0		
5.166	.1	6.666	.0		
5.333	.1	6.833	.0		
5.499	.2				
5.666	.2				

RUNOFF VOLUME = 1.12388 INCHES = 1.0070 ACRE-FEET
PEAK DISCHARGE RATE = 27.17 CFS AT 1.500 HOURS BASIN AREA = .0168 SQ. MI.

****

*POND 5

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ROUTE RESERVOIR ID=40 HYD=312 INFLOW ID=39 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
0.00	0.00	5108
5.44	0.13	5109

6.66	0.29	5110
7.69	0.48	5111
8.60	0.70	5112
9.42	0.96	5113
9.80	1.10	5113.5

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

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5108.00	.000	.00
.17	.00	5108.00	.000	.00
.33	.00	5108.00	.000	.00
.50	.00	5108.00	.000	.00
.67	.00	5108.00	.000	.00
.83	.00	5108.00	.000	.00
1.00	.00	5108.00	.000	.00
1.17	.00	5108.00	.000	.00
1.33	6.19	5108.15	.020	.82
1.50	27.17	5109.45	.202	5.99
1.67	15.28	5110.65	.413	7.33
1.83	9.56	5110.96	.473	7.65
2.00	7.02	5111.00	.480	7.69
2.17	3.43	5110.84	.450	7.53
2.33	1.51	5110.47	.380	7.15
2.50	.89	5110.06	.301	6.72
2.67	.54	5109.57	.222	6.14
2.83	.34	5109.11	.147	5.57
3.00	.22	5108.66	.086	3.60
3.17	.14	5108.39	.050	2.10
3.33	.10	5108.23	.029	1.23
3.50	.08	5108.13	.017	.73
3.67	.07	5108.08	.011	.45
3.83	.07	5108.05	.007	.28
4.00	.07	5108.03	.005	.19
4.17	.07	5108.03	.003	.14
4.33	.08	5108.02	.003	.11
4.50	.09	5108.02	.002	.10
4.67	.09	5108.02	.002	.09
4.83	.10	5108.02	.002	.09
5.00	.11	5108.02	.002	.10
5.17	.12	5108.02	.003	.11
5.33	.14	5108.02	.003	.12
5.50	.15	5108.02	.003	.13
5.67	.16	5108.03	.003	.14
5.83	.18	5108.03	.004	.15
6.00	.19	5108.03	.004	.17
6.17	.09	5108.03	.004	.16
6.33	.02	5108.02	.003	.11
6.50	.01	5108.01	.002	.07
6.67	.00	5108.01	.001	.04
6.83	.00	5108.00	.001	.02
7.00	.00	5108.00	.000	.01
7.17	.00	5108.00	.000	.01
7.33	.00	5108.00	.000	.00

PEAK DISCHARGE = 7.696 CFS - PEAK OCCURS AT HOUR 1.93
MAXIMUM WATER SURFACE ELEVATION = 5111.006
MAXIMUM STORAGE = .4814 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=40 CODE=5

HYDROGRAPH FROM AREA 312.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.667	7.3	3.333	1.2
.167	.0	1.833	7.7	3.500	.7
.333	.0	2.000	7.7	3.666	.4
.500	.0	2.166	7.5	3.833	.3
.667	.0	2.333	7.1	4.000	.2
.833	.0	2.500	6.7	4.166	.1
1.000	.0	2.666	6.1	4.333	.1
1.167	.0	2.833	5.6	4.500	.1
1.333	.8	3.000	3.6	4.666	.1
1.500	6.0	3.166	2.1	4.833	.1

RUNOFF VOLUME = 1.12388 INCHES = 1.0070 ACRE-FEET
PEAK DISCHARGE RATE = 7.70 CFS AT 1.933 HOURS BASIN AREA = .0168 SQ. MI.

****

*S ADD HYD 306 AND POND 5

ADD HYD ID=42 HYDNO=320

ID=34 ID=40

PRINT HYD ID=42 CODE=5

HYDROGRAPH FROM AREA 320.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	4.2	7.999	2.3
.167	2.3	4.166	3.9	8.166	2.3
.333	2.3	4.333	3.6	8.332	2.3
.500	2.3	4.500	3.4	8.499	2.3
.667	2.3	4.666	3.2	8.666	2.3
.833	2.3	4.833	3.1	8.832	2.3

DEV10

1.000	2.3	4.999	3.0	8.999	2.3	12.999	2.3
16.998	2.3	1.167	2.3	5.166	3.0	9.166	2.3
13.165	2.3	17.165	2.3	1.333	3.4	5.333	2.9
9.332	2.3	13.332	2.3	17.332	2.3	1.500	12.4
5.499	2.9	9.499	2.3	13.499	2.3	17.498	2.3
1.667	18.3	5.666	2.8	9.666	2.3	13.665	2.3
17.665	2.3	1.833	19.3	5.833	2.8	9.832	2.3
13.832	2.3	17.832	2.3	2.000	19.6	5.999	2.8
9.999	2.3	13.999	2.3	17.998	2.3	2.166	19.3
6.166	2.8	10.166	2.3	14.165	2.3	18.165	2.3
2.333	18.5	6.333	2.7	10.332	2.3	14.332	2.3
18.331	2.3	2.500	17.5	6.499	2.6	10.499	2.3
14.499	2.3	18.498	2.3	2.666	15.6	6.666	2.5
10.666	2.3	14.665	2.3	18.665	2.3	2.833	13.9
6.833	2.5	10.832	2.3	14.832	2.3	18.831	2.3
3.000	11.0	6.999	2.4	10.999	2.3	14.998	2.3
18.998	2.3	3.166	8.6	7.166	2.4	11.166	2.3
15.165	2.3	19.165	2.3	3.333	7.0	7.333	2.4
11.332	2.3	15.332	2.3	19.331	2.3	3.500	5.9
7.499	2.4	11.499	2.3	15.498	2.3	19.498	2.3
3.666	5.2	7.666	2.4	11.665	2.3	15.665	2.3
19.665	2.3	3.833	4.6	7.833	2.3	11.832	2.3
15.832	2.3	19.831	2.3				

RUNOFF VOLUME = 2.41285 INCHES = 6.2489 ACRE-FEET
PEAK DISCHARGE RATE = 19.55 CFS AT 2.000 HOURS BASIN AREA = .0486 SQ. MI.

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*S ADD HYD 320 AND B7

ADD HYD ID=43 HYDNO=321

ID=42 ID=17

PRINT HYD ID=43 CODE=5

HYDROGRAPH FROM AREA 321.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	4.2	7.999	2.3
11.999	2.3	15.998	2.3	.167	2.3
4.166	3.9	8.166	2.3	12.165	2.3
16.165	2.3	.333	2.3	4.333	3.6
8.332	2.3	12.332	2.3	16.332	2.3

DEV10

.500	2.3	4.500	3.4	8.499	2.3	12.499	2.3
.667	2.3	4.666	3.3	8.666	2.3	12.665	2.3
.833	2.3	4.833	3.1	8.832	2.3	12.832	2.3
1.000	2.3	4.999	3.0	8.999	2.3	12.999	2.3
1.167	2.3	5.166	3.0	9.166	2.3	13.165	2.3
1.333	4.2	5.333	2.9	9.332	2.3	13.332	2.3
1.500	15.5	5.499	2.9	9.499	2.3	13.499	2.3
1.667	19.8	5.666	2.9	9.666	2.3	13.665	2.3
1.833	20.3	5.833	2.8	9.832	2.3	13.832	2.3
2.000	20.3	5.999	2.8	9.999	2.3	13.999	2.3
2.166	19.6	6.166	2.8	10.166	2.3	14.165	2.3
2.333	18.7	6.333	2.7	10.332	2.3	14.332	2.3
2.500	17.5	6.499	2.6	10.499	2.3	14.499	2.3
2.666	15.7	6.666	2.5	10.666	2.3	14.665	2.3
2.833	14.0	6.833	2.5	10.832	2.3	14.832	2.3
3.000	11.0	6.999	2.4	10.999	2.3	14.998	2.3
3.166	8.7	7.166	2.4	11.166	2.3	15.165	2.3
3.333	7.1	7.333	2.4	11.332	2.3	15.332	2.3
3.500	5.9	7.499	2.4	11.499	2.3	15.498	2.3
3.666	5.2	7.666	2.4	11.665	2.3	15.665	2.3
3.833	4.6	7.833	2.3	11.832	2.3	15.832	2.3

RUNOFF VOLUME = 2.36894 INCHES = 6.3576 ACRE-FEET
PEAK DISCHARGE RATE = 20.34 CFS AT 1.900 HOURS BASIN AREA = .0503 SQ. MI.

****

*S ADD HYD 321 AND B8

ADD HYD ID=44 HYDNO=322

ID=43 ID=18

PRINT HYD ID=44 CODE=5

HYDROGRAPH FROM AREA 322.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS

DEV10

.000	.0	4.000	4.2	7.999	2.3	11.999	2.3
.167	2.3	4.166	3.9	8.166	2.3	12.165	2.3
.333	2.3	4.333	3.6	8.332	2.3	12.332	2.3
.500	2.3	4.500	3.4	8.499	2.3	12.499	2.3
.667	2.3	4.666	3.3	8.666	2.3	12.665	2.3
.833	2.3	4.833	3.2	8.832	2.3	12.832	2.3
1.000	2.3	4.999	3.1	8.999	2.3	12.999	2.3
1.167	2.3	5.166	3.0	9.166	2.3	13.165	2.3
1.333	5.3	5.333	2.9	9.332	2.3	13.332	2.3
1.500	19.9	5.499	2.9	9.499	2.3	13.499	2.3
1.667	22.0	5.666	2.9	9.666	2.3	13.665	2.3
1.833	21.7	5.833	2.9	9.832	2.3	13.832	2.3
2.000	21.3	5.999	2.9	9.999	2.3	13.999	2.3
2.166	20.1	6.166	2.8	10.166	2.3	14.165	2.3
2.333	18.9	6.333	2.7	10.332	2.3	14.332	2.3
2.500	17.7	6.499	2.6	10.499	2.3	14.499	2.3
2.666	15.7	6.666	2.5	10.666	2.3	14.665	2.3
2.833	14.0	6.833	2.5	10.832	2.3	14.832	2.3
3.000	11.0	6.999	2.4	10.999	2.3	14.998	2.3
3.166	8.7	7.166	2.4	11.166	2.3	15.165	2.3
3.333	7.1	7.333	2.4	11.332	2.3	15.332	2.3
3.500	5.9	7.499	2.4	11.499	2.3	15.498	2.3
3.666	5.2	7.666	2.4	11.665	2.3	15.665	2.3
3.833	4.6	7.833	2.3	11.832	2.3	15.832	2.3

RUNOFF VOLUME = 2.31183 INCHES = 6.5113 ACRE-FEET
PEAK DISCHARGE RATE = 22.05 CFS AT 1.667 HOURS BASIN AREA = .0528 SQ. MI.

****

*S ADD HYD 322 AND B9

ADD HYD ID=45 HYDNO=323

ID=44 ID=19

PRINT HYD ID=45 CODE=5

DEV10

HYDROGRAPH FROM AREA 323.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	4.2	7.999	2.3
.167	2.3	4.166	3.9	8.166	2.3
.333	2.3	4.333	3.7	8.332	2.3
.500	2.3	4.500	3.5	8.499	2.3
.667	2.3	4.666	3.3	8.666	2.3
.833	2.3	4.833	3.2	8.832	2.3
1.000	2.3	4.999	3.1	8.999	2.3
1.167	2.3	5.166	3.0	9.166	2.3
1.333	8.5	5.333	3.0	9.332	2.3
1.500	32.5	5.499	3.0	9.499	2.3
1.667	28.4	5.666	2.9	9.666	2.3
1.833	25.8	5.833	2.9	9.832	2.3
2.000	24.3	5.999	2.9	9.999	2.3
2.166	21.4	6.166	2.8	10.166	2.3
2.333	19.5	6.333	2.7	10.332	2.3
2.500	18.0	6.499	2.6	10.499	2.3
2.666	16.0	6.666	2.5	10.666	2.3
2.833	14.2	6.833	2.5	10.832	2.3
3.000	11.1	6.999	2.4	10.999	2.3
3.166	8.7	7.166	2.4	11.166	2.3
3.333	7.1	7.333	2.4	11.332	2.3
3.500	6.0	7.499	2.4	11.499	2.3
3.666	5.2	7.666	2.4	11.665	2.3
3.833	4.6	7.833	2.3	11.832	2.3

RUNOFF VOLUME = 2.17108 INCHES = 6.9543 ACRE-FEET
PEAK DISCHARGE RATE = 33.21 CFS AT 1.533 HOURS BASIN AREA = .0601 SQ. MI.

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*POND 6 (UNDERGROUND)

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DEV10

ROUTE RESERVOIR ID=46 HYD=324 INFLOW ID=45 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
0.01	0.0	5101
12.23	0.16	5103
20.70	0.40	5105
26.59	0.63	5107
29.10	0.72	5108
31.40	0.74	5108.5

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5101.00	.000	.00
.17	2.31	5101.23	.018	1.42
.33	2.31	5101.33	.026	2.00
.50	2.31	5101.36	.029	2.20
.67	2.31	5101.37	.030	2.27
.83	2.31	5101.37	.030	2.30
1.00	2.31	5101.38	.030	2.31
1.17	2.31	5101.38	.030	2.31
1.33	8.54	5101.60	.048	3.67
1.50	32.48	5103.44	.213	14.11
1.67	28.37	5104.97	.397	20.58
1.83	25.83	5105.60	.469	22.46
2.00	24.34	5105.86	.498	23.22
2.17	21.44	5105.84	.496	23.17
2.33	19.47	5105.55	.463	22.31
2.50	18.00	5105.18	.421	21.24
2.67	15.96	5104.77	.372	19.71
2.83	14.15	5104.33	.320	17.88
3.00	11.13	5103.86	.263	15.85
3.17	8.73	5103.30	.196	13.51
3.33	7.11	5102.71	.137	10.46
3.50	5.97	5102.28	.102	7.82
3.67	5.21	5102.03	.082	6.31
3.83	4.65	5101.88	.070	5.37
4.00	4.23	5101.77	.062	4.73
4.17	3.91	5101.70	.056	4.28
4.33	3.66	5101.64	.051	3.94
4.50	3.47	5101.60	.048	3.68
4.67	3.31	5101.57	.045	3.48
4.83	3.20	5101.54	.043	3.33
5.00	3.11	5101.52	.042	3.21
5.17	3.04	5101.51	.041	3.12
5.33	3.00	5101.50	.040	3.05
5.50	2.97	5101.49	.039	3.00
5.67	2.95	5101.48	.039	2.97
5.83	2.94	5101.48	.039	2.96
6.00	2.95	5101.48	.038	2.95
6.17	2.84	5101.48	.038	2.92
6.33	2.70	5101.46	.037	2.81
6.50	2.61	5101.44	.035	2.71
6.67	2.54	5101.43	.034	2.61

DEV10

6.83	2.49	5101.42	.033	2.54
7.00	2.45	5101.41	.032	2.49
7.17	2.42	5101.40	.032	2.45
7.33	2.39	5101.39	.032	2.42
7.50	2.37	5101.39	.031	2.39
7.67	2.36	5101.39	.031	2.38
7.83	2.35	5101.38	.031	2.36
8.00	2.34	5101.38	.031	2.35
8.17	2.33	5101.38	.030	2.34
8.33	2.32	5101.38	.030	2.33
8.50	2.32	5101.38	.030	2.32
8.67	2.31	5101.38	.030	2.32
8.83	2.31	5101.38	.030	2.31
9.00	2.31	5101.38	.030	2.31
9.17	2.31	5101.38	.030	2.31

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.33	2.31	5101.38	.030	2.31
9.50	2.31	5101.38	.030	2.31
9.67	2.31	5101.38	.030	2.31
9.83	2.31	5101.38	.030	2.31
10.00	2.31	5101.38	.030	2.31
10.17	2.31	5101.38	.030	2.31
10.33	2.31	5101.38	.030	2.31
10.50	2.31	5101.38	.030	2.31
10.67	2.31	5101.38	.030	2.31
10.83	2.31	5101.38	.030	2.31
11.00	2.31	5101.38	.030	2.31
11.17	2.31	5101.38	.030	2.31
11.33	2.31	5101.38	.030	2.31
11.50	2.31	5101.38	.030	2.31
11.67	2.31	5101.38	.030	2.31
11.83	2.31	5101.38	.030	2.31
12.00	2.31	5101.38	.030	2.31
12.17	2.31	5101.38	.030	2.31
12.33	2.31	5101.38	.030	2.31
12.50	2.31	5101.38	.030	2.31
12.67	2.31	5101.38	.030	2.31
12.83	2.31	5101.38	.030	2.31
13.00	2.31	5101.38	.030	2.31
13.17	2.31	5101.38	.030	2.31
13.33	2.31	5101.38	.030	2.31
13.50	2.31	5101.38	.030	2.31
13.67	2.31	5101.38	.030	2.31
13.83	2.31	5101.38	.030	2.31
14.00	2.31	5101.38	.030	2.31
14.17	2.31	5101.38	.030	2.31
14.33	2.31	5101.38	.030	2.31
14.50	2.31	5101.38	.030	2.31
14.67	2.31	5101.38	.030	2.31
14.83	2.31	5101.38	.030	2.31
15.00	2.31	5101.38	.030	2.31
15.17	2.31	5101.38	.030	2.31
15.33	2.31	5101.38	.030	2.31
15.50	2.31	5101.38	.030	2.31
15.67	2.31	5101.38	.030	2.31
15.83	2.31	5101.38	.030	2.31
16.00	2.31	5101.38	.030	2.31
16.17	2.31	5101.38	.030	2.31
16.33	2.31	5101.38	.030	2.31
16.50	2.31	5101.38	.030	2.31
16.67	2.31	5101.38	.030	2.31
16.83	2.31	5101.38	.030	2.31
17.00	2.31	5101.38	.030	2.31

DEV10

17.16	2.31	5101.38	.030	2.31
17.33	2.31	5101.38	.030	2.31
17.50	2.31	5101.38	.030	2.31
17.66	2.31	5101.38	.030	2.31
17.83	2.31	5101.38	.030	2.31
18.00	2.31	5101.38	.030	2.31
18.16	2.31	5101.38	.030	2.31
18.33	2.31	5101.38	.030	2.31
18.50	2.31	5101.38	.030	2.31

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	2.31	5101.38	.030	2.31
18.83	2.31	5101.38	.030	2.31
19.00	2.31	5101.38	.030	2.31
19.16	2.31	5101.38	.030	2.31
19.33	2.31	5101.38	.030	2.31
19.50	2.31	5101.38	.030	2.31
19.66	2.31	5101.38	.030	2.31
19.83	2.31	5101.38	.030	2.31

PEAK DISCHARGE = 23.323 CFS - PEAK OCCURS AT HOUR 2.07
MAXIMUM WATER SURFACE ELEVATION = 5105.891
MAXIMUM STORAGE = .5024 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=46 CODE=5

HYDROGRAPH FROM AREA 324.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	4.7	7.999	2.3
.167	1.4	4.166	4.3	8.166	2.3
.333	2.0	4.333	3.9	8.332	2.3
.500	2.2	4.500	3.7	8.499	2.3
.667	2.3	4.666	3.5	8.666	2.3
.833	2.3	4.833	3.3	8.832	2.3
1.000	2.3	4.999	3.2	8.999	2.3
1.167	2.3	5.166	3.1	9.166	2.3
1.333	3.7	5.333	3.1	9.332	2.3
1.500	14.1	5.499	3.0	9.499	2.3
1.667	20.6	5.666	3.0	9.666	2.3
1.833	22.5	5.833	3.0	9.832	2.3
2.000	23.2	5.999	2.9	9.999	2.3
2.166	23.2	6.166	2.9	10.166	2.3
2.333	22.3	6.333	2.8	10.332	2.3
2.500	21.2	6.499	2.7	10.499	2.3

DEV10

14.499	2.3	18.498	2.3				
2.666	19.7	6.666	2.6	10.666	2.3		
14.665	2.3	18.665	2.3				
2.833	17.9	6.833	2.5	10.832	2.3		
14.832	2.3	18.831	2.3				
3.000	15.9	6.999	2.5	10.999	2.3		
14.998	2.3	18.998	2.3				
3.166	13.5	7.166	2.5	11.166	2.3		
15.165	2.3	19.165	2.3				
3.333	10.5	7.333	2.4	11.332	2.3		
15.332	2.3	19.331	2.3				
3.500	7.8	7.499	2.4	11.499	2.3		
15.498	2.3	19.498	2.3				
3.666	6.3	7.666	2.4	11.665	2.3		
15.665	2.3	19.665	2.3				
3.833	5.4	7.833	2.4	11.832	2.3		
15.832	2.3	19.831	2.3				

RUNOFF VOLUME = 2.16167 INCHES = 6.9242 ACRE-FEET
PEAK DISCHARGE RATE = 23.32 CFS AT 2.066 HOURS BASIN AREA = .0601 SQ. MI.

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*POND 7 (UNDERGROUND)

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ROUTE RESERVOIR ID=48 HYD=325 INFLOW ID=20 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
0.00	0.00	5104.5
1.47	0.11	5106.5
2.16	0.29	5108.5
2.67	0.46	5110.5
3.00	0.53	5112.0

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5104.50	.000	.00
.17	.00	5104.50	.000	.00
.33	.00	5104.50	.000	.00
.50	.00	5104.50	.000	.00
.67	.00	5104.50	.000	.00
.83	.00	5104.50	.000	.00
1.00	.00	5104.50	.000	.00
1.17	.00	5104.50	.000	.00
1.33	3.31	5104.71	.012	.15
1.50	12.83	5106.56	.116	1.49
1.67	6.44	5107.79	.226	1.91
1.83	4.22	5108.26	.269	2.08
2.00	3.10	5108.49	.289	2.16
2.17	1.37	5108.52	.292	2.17

DEV10

2.33	.61	5108.33	.275	2.10
2.50	.36	5108.09	.253	2.02
2.67	.22	5107.83	.230	1.93
2.83	.14	5107.57	.206	1.84
3.00	.09	5107.31	.183	1.75
3.17	.06	5107.06	.160	1.66
3.33	.04	5106.82	.139	1.58
3.50	.04	5106.59	.118	1.50
3.67	.03	5106.30	.099	1.32
3.83	.03	5106.00	.083	1.10
4.00	.03	5105.76	.069	.92
4.17	.03	5105.55	.058	.77
4.33	.04	5105.38	.049	.65
4.50	.04	5105.24	.041	.55
4.67	.04	5105.13	.035	.46
4.83	.05	5105.03	.029	.39
5.00	.05	5104.95	.025	.33
5.17	.06	5104.89	.021	.29
5.33	.06	5104.84	.019	.25
5.50	.07	5104.80	.016	.22
5.67	.07	5104.76	.014	.19
5.83	.08	5104.74	.013	.17
6.00	.09	5104.72	.012	.16
6.17	.04	5104.70	.011	.14
6.33	.01	5104.67	.009	.12
6.50	.00	5104.64	.008	.10
6.67	.00	5104.62	.006	.09
6.83	.00	5104.60	.005	.07
7.00	.00	5104.58	.004	.06
7.17	.00	5104.57	.004	.05
7.33	.00	5104.56	.003	.04
7.50	.00	5104.55	.003	.03
7.67	.00	5104.54	.002	.03
7.83	.00	5104.53	.002	.02
8.00	.00	5104.53	.001	.02
8.17	.00	5104.52	.001	.02
8.33	.00	5104.52	.001	.01
8.50	.00	5104.52	.001	.01
8.67	.00	5104.51	.001	.01
8.83	.00	5104.51	.001	.01
9.00	.00	5104.51	.000	.01
9.17	.00	5104.51	.000	.01
9.33	.00	5104.51	.000	.00

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)

PEAK DISCHARGE = 2.172 CFS - PEAK OCCURS AT HOUR 2.10
MAXIMUM WATER SURFACE ELEVATION = 5108.548
MAXIMUM STORAGE = .2941 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=48 CODE=5

HYDROGRAPH FROM AREA 325.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	6.499	.1	2.166	2.2
.167	.0	6.666	.1	8.666	.0
.333	.0	8.832	.0	2.333	2.1
2.500	2.0	4.333	.6	4.500	.5
4.666	.5				

DEV10

6.833	.1		8.999	.0			
.500	.0		2.666	1.9		4.833	.4
6.999	.1		9.166	.0			
.667	.0		2.833	1.8		4.999	.3
7.166	.1		9.332	.0			
.833	.0		3.000	1.7		5.166	.3
7.333	.0		9.499	.0			
1.000	.0		3.166	1.7		5.333	.2
7.499	.0		9.666	.0			
1.167	.0		3.333	1.6		5.499	.2
7.666	.0		9.832	.0			
1.333	.2		3.500	1.5		5.666	.2
7.833	.0		9.999	.0			
1.500	1.5		3.666	1.3		5.833	.2
7.999	.0		10.166	.0			
1.667	1.9		3.833	1.1		5.999	.2
8.166	.0		10.332	.0			
1.833	2.1		4.000	.9		6.166	.1
8.332	.0		10.499	.0			
2.000	2.2		4.166	.8		6.333	.1
8.499	.0		10.666	.0			

RUNOFF VOLUME = 1.13646 INCHES = .4534 ACRE-FEET
PEAK DISCHARGE RATE = 2.17 CFS AT 2.100 HOURS BASIN AREA =
.0075 SQ. MI.

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*S ADD A2 AND OS3

ADD HYD ID=49 HYDNO=326

ID=2 ID=25

PRINT HYD ID=49 CODE=5

HYDROGRAPH FROM AREA 326.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	15.7	3.000	.1
.167	.0	1.667	7.9	3.166	.1
.333	.0	1.833	5.1	3.333	.1
.500	.0	2.000	3.7	3.500	.0
.667	.0	2.166	1.7	3.666	.0
.833	.0	2.333	.7	3.833	.0
1.000	.0	2.500	.4	4.000	.0
1.167	.0	2.666	.3	4.166	.0
1.333	4.0	2.833	.2	4.333	.0

RUNOFF VOLUME = 1.10576 INCHES = .5508 ACRE-FEET
PEAK DISCHARGE RATE = 15.66 CFS AT 1.500 HOURS BASIN AREA =

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*POND 2

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ROUTE RESERVOIR ID=50 HYD=400 INFLOW ID=49 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
1.94	0.0	5111
2.44	0.26	5112
2.86	0.57	5113
3.22	0.93	5114

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5107.12	-1.009	.00
.17	.00	5111.00	.000	1.94
.33	.00	5111.00	.000	1.94
.50	.00	5111.00	.000	1.94
.67	.00	5111.00	.000	1.94
.83	.00	5111.00	.000	1.94
1.00	.00	5111.00	.000	1.94
1.17	.00	5111.00	.000	1.94
1.33	3.98	5111.00	.000	1.94
1.50	15.66	5111.43	.111	2.15
1.67	7.87	5111.94	.243	2.41
1.83	5.11	5112.11	.295	2.49
2.00	3.74	5112.20	.321	2.52
2.17	1.66	5112.21	.325	2.53
2.33	.74	5112.15	.305	2.50
2.50	.43	5112.06	.279	2.47
2.67	.26	5111.96	.250	2.42
2.83	.16	5111.85	.220	2.36
3.00	.11	5111.73	.190	2.30
3.17	.07	5111.61	.160	2.25
3.33	.05	5111.50	.130	2.19
3.50	.04	5111.39	.101	2.13
3.67	.04	5111.28	.072	2.08
3.83	.04	5111.17	.045	2.03
4.00	.04	5111.07	.018	1.97
4.17	.04	5111.00	.000	1.94
4.33	.04	5111.00	.000	1.94
4.50	.05	5111.00	.000	1.94
4.67	.05	5111.00	.000	1.94
4.83	.06	5111.00	.000	1.94
5.00	.06	5111.00	.000	1.94
5.17	.07	5111.00	.000	1.94
5.33	.08	5111.00	.000	1.94
5.50	.08	5111.00	.000	1.94
5.67	.09	5111.00	.000	1.94
5.83	.10	5111.00	.000	1.94

6.00	.11	5111.00	.000	1.94
6.17	.04	5111.00	.000	1.94
6.33	.01	5111.00	.000	1.94
6.50	.01	5111.00	.000	1.94
6.67	.00	5111.00	.000	1.94
6.83	.00	5111.00	.000	1.94
7.00	.00	5111.00	.000	1.94
7.17	.00	5111.00	.000	1.94
7.33	.00	5111.00	.000	1.94
7.50	.00	5111.00	.000	1.94
7.67	.00	5111.00	.000	1.94
7.83	.00	5111.00	.000	1.94
8.00	.00	5111.00	.000	1.94
8.17	.00	5111.00	.000	1.94
8.33	.00	5111.00	.000	1.94
8.50	.00	5111.00	.000	1.94
8.67	.00	5111.00	.000	1.94
8.83	.00	5111.00	.000	1.94
9.00	.00	5111.00	.000	1.94
9.17	.00	5111.00	.000	1.94

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.33	.00	5111.00	.000	1.94
9.50	.00	5111.00	.000	1.94
9.67	.00	5111.00	.000	1.94
9.83	.00	5111.00	.000	1.94
10.00	.00	5111.00	.000	1.94
10.17	.00	5111.00	.000	1.94
10.33	.00	5111.00	.000	1.94
10.50	.00	5111.00	.000	1.94
10.67	.00	5111.00	.000	1.94
10.83	.00	5111.00	.000	1.94
11.00	.00	5111.00	.000	1.94
11.17	.00	5111.00	.000	1.94
11.33	.00	5111.00	.000	1.94
11.50	.00	5111.00	.000	1.94
11.67	.00	5111.00	.000	1.94
11.83	.00	5111.00	.000	1.94
12.00	.00	5111.00	.000	1.94
12.17	.00	5111.00	.000	1.94
12.33	.00	5111.00	.000	1.94
12.50	.00	5111.00	.000	1.94
12.67	.00	5111.00	.000	1.94
12.83	.00	5111.00	.000	1.94
13.00	.00	5111.00	.000	1.94
13.17	.00	5111.00	.000	1.94
13.33	.00	5111.00	.000	1.94
13.50	.00	5111.00	.000	1.94
13.67	.00	5111.00	.000	1.94
13.83	.00	5111.00	.000	1.94
14.00	.00	5111.00	.000	1.94
14.17	.00	5111.00	.000	1.94
14.33	.00	5111.00	.000	1.94
14.50	.00	5111.00	.000	1.94
14.67	.00	5111.00	.000	1.94
14.83	.00	5111.00	.000	1.94
15.00	.00	5111.00	.000	1.94
15.17	.00	5111.00	.000	1.94
15.33	.00	5111.00	.000	1.94
15.50	.00	5111.00	.000	1.94
15.67	.00	5111.00	.000	1.94
15.83	.00	5111.00	.000	1.94
16.00	.00	5111.00	.000	1.94
16.17	.00	5111.00	.000	1.94

DEV10

16.33	.00	5111.00	.000	1.94
16.50	.00	5111.00	.000	1.94
16.67	.00	5111.00	.000	1.94
16.83	.00	5111.00	.000	1.94
17.00	.00	5111.00	.000	1.94
17.16	.00	5111.00	.000	1.94
17.33	.00	5111.00	.000	1.94
17.50	.00	5111.00	.000	1.94
17.66	.00	5111.00	.000	1.94
17.83	.00	5111.00	.000	1.94
18.00	.00	5111.00	.000	1.94
18.16	.00	5111.00	.000	1.94
18.33	.00	5111.00	.000	1.94
18.50	.00	5111.00	.000	1.94

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	.00	5111.00	.000	1.94
18.83	.00	5111.00	.000	1.94
19.00	.00	5111.00	.000	1.94
19.16	.00	5111.00	.000	1.94
19.33	.00	5111.00	.000	1.94
19.50	.00	5111.00	.000	1.94
19.66	.00	5111.00	.000	1.94
19.83	.00	5111.00	.000	1.94

PEAK DISCHARGE = 2.531 CFS - PEAK OCCURS AT HOUR 2.10
MAXIMUM WATER SURFACE ELEVATION = 5112.217
MAXIMUM STORAGE = .3273 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=50 CODE=5

HYDROGRAPH FROM AREA 400.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	2.0	7.999	1.9	11.999	1.9
.167	1.9	4.166	1.9	8.166	1.9	12.165	1.9
.333	1.9	4.333	1.9	8.332	1.9	12.332	1.9
.500	1.9	4.500	1.9	8.499	1.9	12.499	1.9
.667	1.9	4.666	1.9	8.666	1.9	12.665	1.9
.833	1.9	4.833	1.9	8.832	1.9	12.832	1.9
1.000	1.9	4.999	1.9	8.999	1.9	12.999	1.9
1.167	1.9	5.166	1.9	9.166	1.9	13.165	1.9
1.333	1.9	5.333	1.9	9.332	1.9	13.332	1.9
1.500	2.2	5.499	1.9	9.499	1.9	13.499	1.9
1.667	2.4	5.666	1.9	9.666	1.9	13.665	1.9
1.833	2.5	5.833	1.9	9.832	1.9	13.832	1.9
2.000	2.5	5.999	1.9	9.999	1.9	13.999	1.9

2.166	2.5	6.166	1.9	10.166	1.9	14.165	1.9
18.165	1.9						
2.333	2.5	6.333	1.9	10.332	1.9	14.332	1.9
18.331	1.9						
2.500	2.5	6.499	1.9	10.499	1.9	14.499	1.9
18.498	1.9						
2.666	2.4	6.666	1.9	10.666	1.9	14.665	1.9
18.665	1.9						
2.833	2.4	6.833	1.9	10.832	1.9	14.832	1.9
18.831	1.9						
3.000	2.3	6.999	1.9	10.999	1.9	14.998	1.9
18.998	1.9						
3.166	2.2	7.166	1.9	11.166	1.9	15.165	1.9
19.165	1.9						
3.333	2.2	7.333	1.9	11.332	1.9	15.332	1.9
19.331	1.9						
3.500	2.1	7.499	1.9	11.499	1.9	15.498	1.9
19.498	1.9						
3.666	2.1	7.666	1.9	11.665	1.9	15.665	1.9
19.665	1.9						
3.833	2.0	7.833	1.9	11.832	1.9	15.832	1.9
19.831	1.9						

RUNOFF VOLUME = 6.58535 INCHES = 3.2804 ACRE-FEET
PEAK DISCHARGE RATE = 2.53 CFS AT 2.100 HOURS BASIN AREA = .0093 SQ. MI.

****

*S ADD A4 AND OS2

ADD HYD ID=51 HYDNO=327

ID=4 ID=24

PRINT HYD ID=51 CODE=5

HYDROGRAPH FROM AREA 327.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	18.5	3.000	.1	4.500	.1
5.999	.1						
.167	.0	1.667	9.3	3.166	.1	4.666	.1
6.166	.1						
.333	.0	1.833	6.0	3.333	.1	4.833	.1
6.333	.0						
.500	.0	2.000	4.4	3.500	.1	4.999	.1
6.499	.0						
.667	.0	2.166	2.0	3.666	.0	5.166	.1
6.666	.0						
.833	.0	2.333	.9	3.833	.0	5.333	.1
6.833	.0						
1.000	.0	2.500	.5	4.000	.0	5.499	.1
1.167	.0	2.666	.3	4.166	.0	5.666	.1
1.333	4.7	2.833	.2	4.333	.1	5.833	.1

RUNOFF VOLUME = 1.09006 INCHES = .6511 ACRE-FEET

PEAK DISCHARGE RATE = DEV10 18.51 CFS AT 1.500 HOURS BASIN AREA = .0112 SQ. MI.

****

*POND 4

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ROUTE RESERVOIR ID=52 HYD=401 INFLOW ID=51 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
2.76	0.0	5111
3.50	0.11	5112
4.12	0.32	5113
4.65	0.65	5114
5.13	1.05	5115

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5107.27	-.410	.00
.17	.00	5111.00	.000	2.76
.33	.00	5111.00	.000	2.76
.50	.00	5111.00	.000	2.76
.67	.00	5111.00	.000	2.76
.83	.00	5111.00	.000	2.76
1.00	.00	5111.00	.000	2.76
1.17	.00	5111.00	.000	2.76
1.33	4.70	5111.00	.000	2.76
1.50	18.51	5112.05	.120	3.53
1.67	9.30	5112.72	.262	3.95
1.83	6.04	5112.94	.308	4.08
2.00	4.42	5113.01	.322	4.12
2.17	1.96	5112.96	.312	4.10
2.33	.87	5112.78	.274	3.98
2.50	.51	5112.57	.229	3.85
2.67	.31	5112.35	.183	3.71
2.83	.20	5112.12	.136	3.58
3.00	.13	5111.82	.090	3.37
3.17	.09	5111.43	.047	3.08
3.33	.07	5111.07	.008	2.81
3.50	.05	5111.00	.000	2.76
3.67	.05	5111.00	.000	2.76
3.83	.05	5111.00	.000	2.76
4.00	.05	5111.00	.000	2.76
4.17	.05	5111.00	.000	2.76
4.33	.05	5111.00	.000	2.76
4.50	.06	5111.00	.000	2.76
4.67	.06	5111.00	.000	2.76
4.83	.07	5111.00	.000	2.76
5.00	.07	5111.00	.000	2.76
5.17	.08	5111.00	.000	2.76
5.33	.09	5111.00	.000	2.76

5.50	.10	5111.00	.000	2.76
5.67	.10	5111.00	.000	2.76
5.83	.12	5111.00	.000	2.76
6.00	.13	5111.00	.000	2.76
6.17	.05	5111.00	.000	2.76
6.33	.01	5111.00	.000	2.76
6.50	.01	5111.00	.000	2.76
6.67	.00	5111.00	.000	2.76
6.83	.00	5111.00	.000	2.76
7.00	.00	5111.00	.000	2.76
7.17	.00	5111.00	.000	2.76
7.33	.00	5111.00	.000	2.76
7.50	.00	5111.00	.000	2.76
7.67	.00	5111.00	.000	2.76
7.83	.00	5111.00	.000	2.76
8.00	.00	5111.00	.000	2.76
8.17	.00	5111.00	.000	2.76
8.33	.00	5111.00	.000	2.76
8.50	.00	5111.00	.000	2.76
8.67	.00	5111.00	.000	2.76
8.83	.00	5111.00	.000	2.76
9.00	.00	5111.00	.000	2.76
9.17	.00	5111.00	.000	2.76

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.33	.00	5111.00	.000	2.76
9.50	.00	5111.00	.000	2.76
9.67	.00	5111.00	.000	2.76
9.83	.00	5111.00	.000	2.76
10.00	.00	5111.00	.000	2.76
10.17	.00	5111.00	.000	2.76
10.33	.00	5111.00	.000	2.76
10.50	.00	5111.00	.000	2.76
10.67	.00	5111.00	.000	2.76
10.83	.00	5111.00	.000	2.76
11.00	.00	5111.00	.000	2.76
11.17	.00	5111.00	.000	2.76
11.33	.00	5111.00	.000	2.76
11.50	.00	5111.00	.000	2.76
11.67	.00	5111.00	.000	2.76
11.83	.00	5111.00	.000	2.76
12.00	.00	5111.00	.000	2.76
12.17	.00	5111.00	.000	2.76
12.33	.00	5111.00	.000	2.76
12.50	.00	5111.00	.000	2.76
12.67	.00	5111.00	.000	2.76
12.83	.00	5111.00	.000	2.76
13.00	.00	5111.00	.000	2.76
13.17	.00	5111.00	.000	2.76
13.33	.00	5111.00	.000	2.76
13.50	.00	5111.00	.000	2.76
13.67	.00	5111.00	.000	2.76
13.83	.00	5111.00	.000	2.76
14.00	.00	5111.00	.000	2.76
14.17	.00	5111.00	.000	2.76
14.33	.00	5111.00	.000	2.76
14.50	.00	5111.00	.000	2.76
14.67	.00	5111.00	.000	2.76
14.83	.00	5111.00	.000	2.76
15.00	.00	5111.00	.000	2.76
15.17	.00	5111.00	.000	2.76
15.33	.00	5111.00	.000	2.76
15.50	.00	5111.00	.000	2.76
15.67	.00	5111.00	.000	2.76

DEV10

15.83	.00	5111.00	.000	2.76
16.00	.00	5111.00	.000	2.76
16.17	.00	5111.00	.000	2.76
16.33	.00	5111.00	.000	2.76
16.50	.00	5111.00	.000	2.76
16.67	.00	5111.00	.000	2.76
16.83	.00	5111.00	.000	2.76
17.00	.00	5111.00	.000	2.76
17.16	.00	5111.00	.000	2.76
17.33	.00	5111.00	.000	2.76
17.50	.00	5111.00	.000	2.76
17.66	.00	5111.00	.000	2.76
17.83	.00	5111.00	.000	2.76
18.00	.00	5111.00	.000	2.76
18.16	.00	5111.00	.000	2.76
18.33	.00	5111.00	.000	2.76
18.50	.00	5111.00	.000	2.76

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	.00	5111.00	.000	2.76
18.83	.00	5111.00	.000	2.76
19.00	.00	5111.00	.000	2.76
19.16	.00	5111.00	.000	2.76
19.33	.00	5111.00	.000	2.76
19.50	.00	5111.00	.000	2.76
19.66	.00	5111.00	.000	2.76
19.83	.00	5111.00	.000	2.76

PEAK DISCHARGE = 4.124 CFS - PEAK OCCURS AT HOUR 2.03
MAXIMUM WATER SURFACE ELEVATION = 5113.008
MAXIMUM STORAGE = .3227 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=52 CODE=5

HYDROGRAPH FROM AREA 401.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	2.8	7.999	2.8
.167	2.8	4.166	2.8	8.166	2.8
.333	2.8	4.333	2.8	8.332	2.8
.500	2.8	4.500	2.8	8.499	2.8
.667	2.8	4.666	2.8	8.666	2.8
.833	2.8	4.833	2.8	8.832	2.8
1.000	2.8	4.999	2.8	8.999	2.8
1.167	2.8	5.166	2.8	9.166	2.8
1.333	2.8	5.333	2.8	9.332	2.8
1.500	3.5	5.499	2.8	9.499	2.8
1.667	3.9	5.666	2.8	9.666	2.8
1.833	4.1	5.833	2.8	9.832	2.8

13.832	2.8		17.832	2.8			
2.000		4.1	5.999		2.8	9.999	2.8
13.999	2.8		17.998	2.8			
2.166		4.1	6.166		2.8	10.166	2.8
14.165	2.8		18.165	2.8			
2.333		4.0	6.333		2.8	10.332	2.8
14.332	2.8		18.331	2.8			
2.500		3.9	6.499		2.8	10.499	2.8
14.499	2.8		18.498	2.8			
2.666		3.7	6.666		2.8	10.666	2.8
14.665	2.8		18.665	2.8			
2.833		3.6	6.833		2.8	10.832	2.8
14.832	2.8		18.831	2.8			
3.000		3.4	6.999		2.8	10.999	2.8
14.998	2.8		18.998	2.8			
3.166		3.1	7.166		2.8	11.166	2.8
15.165	2.8		19.165	2.8			
3.333		2.8	7.333		2.8	11.332	2.8
15.332	2.8		19.331	2.8			
3.500		2.8	7.499		2.8	11.499	2.8
15.498	2.8		19.498	2.8			
3.666		2.8	7.666		2.8	11.665	2.8
15.665	2.8		19.665	2.8			
3.833		2.8	7.833		2.8	11.832	2.8
15.832	2.8		19.831	2.8			

RUNOFF VOLUME = 7.87751 INCHES = 4.7055 ACRE-FEET
PEAK DISCHARGE RATE = 4.12 CFS AT 2.033 HOURS BASIN AREA =
.0112 SQ. MI.

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*POND 8 (UNDERGROUND)

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ROUTE RESERVOIR ID=53 HYD=402 INFLOW ID=14 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
0.00	0.0	5105
2.27	0.05	5107
3.38	0.14	5109
4.20	0.22	5111
4.72	0.25	5112.5

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

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5105.00	.000	.00
.17	.00	5105.00	.000	.00
.33	.00	5105.00	.000	.00
.50	.00	5105.00	.000	.00
.67	.00	5105.00	.000	.00
.83	.00	5105.00	.000	.00

DEV10

1.00	.00	5105.00	.000	.00
1.17	.00	5105.00	.000	.00
1.33	1.92	5105.25	.006	.28
1.50	7.65	5107.15	.057	2.35
1.67	3.84	5108.11	.100	2.89
1.83	2.47	5108.15	.102	2.91
2.00	1.81	5107.92	.091	2.78
2.17	.81	5107.52	.074	2.56
2.33	.36	5106.91	.048	2.17
2.50	.21	5106.13	.028	1.29
2.67	.13	5105.67	.017	.76
2.83	.08	5105.40	.010	.45
3.00	.05	5105.24	.006	.27
3.17	.03	5105.14	.004	.16
3.33	.03	5105.09	.002	.10
3.50	.02	5105.06	.001	.06
3.67	.02	5105.04	.001	.04
3.83	.02	5105.03	.001	.03
4.00	.02	5105.02	.001	.03
4.17	.02	5105.02	.000	.02
4.33	.02	5105.02	.000	.02
4.50	.02	5105.02	.000	.02
4.67	.02	5105.02	.000	.02
4.83	.03	5105.02	.001	.02
5.00	.03	5105.02	.001	.03
5.17	.03	5105.03	.001	.03
5.33	.04	5105.03	.001	.03
5.50	.04	5105.03	.001	.03
5.67	.04	5105.03	.001	.04
5.83	.05	5105.04	.001	.04
6.00	.05	5105.04	.001	.05
6.17	.02	5105.04	.001	.04
6.33	.01	5105.02	.001	.03
6.50	.00	5105.01	.000	.02
6.67	.00	5105.01	.000	.01
6.83	.00	5105.00	.000	.01
7.00	.00	5105.00	.000	.00

PEAK DISCHARGE = 2.924 CFS - PEAK OCCURS AT HOUR 1.77
MAXIMUM WATER SURFACE ELEVATION = 5108.178
MAXIMUM STORAGE = .1030 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=53 CODE=5

HYDROGRAPH FROM AREA 402.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	2.4	3.000	.3
.167	.0	1.667	2.9	3.166	.2
.333	.0	1.833	2.9	3.333	.1
.500	.0	2.000	2.8	3.500	.1
.667	.0	2.166	2.6	3.666	.0
.833	.0	2.333	2.2	3.833	.0
1.000	.0	2.500	1.3	4.000	.0
1.167	.0	2.666	.8	4.166	.0
4.500	.0	5.999	.0		
4.666	.0	6.166	.0		
4.833	.0	6.333	.0		
4.999	.0	6.499	.0		
5.166	.0	6.666	.0		
5.333	.0	6.833	.0		
5.499	.0	6.999	.0		

DEV10

5.666 .0 7.166 .0
1.333 .3 2.833 .5 4.333 .0
5.833 .0

RUNOFF VOLUME = 1.09473 INCHES = .2680 ACRE-FEET
PEAK DISCHARGE RATE = 2.92 CFS AT 1.766 HOURS BASIN AREA =
.0046 SQ. MI.

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*S ADD POND 2 AND POND 4

ADD HYD ID=55 HYDNO=500

ID=50 ID=52

PRINT HYD ID=55 CODE=5

OUTFLOW HYDROGRAPH RESERVOIR 500.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	4.7	7.999	4.7
.167	4.7	4.166	4.7	8.166	4.7
.333	4.7	4.333	4.7	8.332	4.7
.500	4.7	4.500	4.7	8.499	4.7
.667	4.7	4.666	4.7	8.666	4.7
.833	4.7	4.833	4.7	8.832	4.7
1.000	4.7	4.999	4.7	8.999	4.7
1.167	4.7	5.166	4.7	9.166	4.7
1.333	4.7	5.333	4.7	9.332	4.7
1.500	5.7	5.499	4.7	9.499	4.7
1.667	6.4	5.666	4.7	9.666	4.7
1.833	6.6	5.833	4.7	9.832	4.7
2.000	6.6	5.999	4.7	9.999	4.7
2.166	6.6	6.166	4.7	10.166	4.7
2.333	6.5	6.333	4.7	10.332	4.7
2.500	6.3	6.499	4.7	10.499	4.7
2.666	6.1	6.666	4.7	10.666	4.7
2.833	5.9	6.833	4.7	10.832	4.7
3.000	5.7	6.999	4.7	10.999	4.7
3.166	5.3	7.166	4.7	11.166	4.7

DEV10

15.165	4.7	19.165	4.7				
3.333	5.0	7.333	4.7	11.332	4.7		
15.332	4.7	19.331	4.7				
3.500	4.9	7.499	4.7	11.499	4.7		
15.498	4.7	19.498	4.7				
3.666	4.8	7.666	4.7	11.665	4.7		
15.665	4.7	19.665	4.7				
3.833	4.8	7.833	4.7	11.832	4.7		
15.832	4.7	19.831	4.7				

RUNOFF VOLUME = 7.28989 INCHES = 7.9858 ACRE-FEET
PEAK DISCHARGE RATE = 6.65 CFS AT 2.066 HOURS BASIN AREA =
.0205 SQ. MI.

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*S ADD HYD 500 AND POND 8

ADD HYD ID=56 HYDNO=501

ID=55 ID=53

PRINT HYD ID=56 CODE=5

OUTFLOW HYDROGRAPH RESERVOIR 501.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	4.8	7.999	4.7
11.999	4.7	15.998	4.7		
.167	4.7	4.166	4.7	8.166	4.7
12.165	4.7	16.165	4.7		
.333	4.7	4.333	4.7	8.332	4.7
12.332	4.7	16.332	4.7		
.500	4.7	4.500	4.7	8.499	4.7
12.499	4.7	16.498	4.7		
.667	4.7	4.666	4.7	8.666	4.7
12.665	4.7	16.665	4.7		
.833	4.7	4.833	4.7	8.832	4.7
12.832	4.7	16.832	4.7		
1.000	4.7	4.999	4.7	8.999	4.7
12.999	4.7	16.998	4.7		
1.167	4.7	5.166	4.7	9.166	4.7
13.165	4.7	17.165	4.7		
1.333	5.0	5.333	4.7	9.332	4.7
13.332	4.7	17.332	4.7		
1.500	8.0	5.499	4.7	9.499	4.7
13.499	4.7	17.498	4.7		
1.667	9.2	5.666	4.7	9.666	4.7
13.665	4.7	17.665	4.7		
1.833	9.5	5.833	4.7	9.832	4.7
13.832	4.7	17.832	4.7		
2.000	9.4	5.999	4.7	9.999	4.7
13.999	4.7	17.998	4.7		
2.166	9.2	6.166	4.7	10.166	4.7
14.165	4.7	18.165	4.7		
2.333	8.7	6.333	4.7	10.332	4.7
14.332	4.7	18.331	4.7		
2.500	7.6	6.499	4.7	10.499	4.7
14.499	4.7	18.498	4.7		
2.666	6.9	6.666	4.7	10.666	4.7

14.665	4.7	18.665	4.7				
2.833	6.4	6.833	4.7	10.832	4.7		
14.832	4.7	18.831	4.7				
3.000	5.9	6.999	4.7	10.999	4.7		
14.998	4.7	18.998	4.7				
3.166	5.5	7.166	4.7	11.166	4.7		
15.165	4.7	19.165	4.7				
3.333	5.1	7.333	4.7	11.332	4.7		
15.332	4.7	19.331	4.7				
3.500	5.0	7.499	4.7	11.499	4.7		
15.498	4.7	19.498	4.7				
3.666	4.9	7.666	4.7	11.665	4.7		
15.665	4.7	19.665	4.7				
3.833	4.8	7.833	4.7	11.832	4.7		
15.832	4.7	19.831	4.7				

RUNOFF VOLUME = 6.15832 INCHES = 8.2537 ACRE-FEET
PEAK DISCHARGE RATE = 9.48 CFS AT 1.866 HOURS BASIN AREA = .0251 SQ. MI.

****

*S ADD HYD 501 AND POND 7

ADD HYD ID=57 HYDNO=502

ID=56 ID=48

PRINT HYD ID=57 CODE=5

OUTFLOW HYDROGRAPH RESERVOIR 502.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	5.7	7.999	4.7
11.999	4.7	15.998	4.7		
.167	4.7	4.166	5.5	8.166	4.7
12.165	4.7	16.165	4.7		
.333	4.7	4.333	5.4	8.332	4.7
12.332	4.7	16.332	4.7		
.500	4.7	4.500	5.3	8.499	4.7
12.499	4.7	16.498	4.7		
.667	4.7	4.666	5.2	8.666	4.7
12.665	4.7	16.665	4.7		
.833	4.7	4.833	5.1	8.832	4.7
12.832	4.7	16.832	4.7		
1.000	4.7	4.999	5.1	8.999	4.7
12.999	4.7	16.998	4.7		
1.167	4.7	5.166	5.0	9.166	4.7
13.165	4.7	17.165	4.7		
1.333	5.1	5.333	5.0	9.332	4.7
13.332	4.7	17.332	4.7		
1.500	9.5	5.499	5.0	9.499	4.7
13.499	4.7	17.498	4.7		
1.667	11.2	5.666	4.9	9.666	4.7
13.665	4.7	17.665	4.7		
1.833	11.6	5.833	4.9	9.832	4.7
13.832	4.7	17.832	4.7		
2.000	11.6	5.999	4.9	9.999	4.7
13.999	4.7	17.998	4.7		
2.166	11.4	6.166	4.9	10.166	4.7

DEV10

14.165	4.7	18.165	4.7		
2.333	10.8	6.333	4.9	10.332	4.7
14.332	4.7	18.331	4.7		
2.500	9.6	6.499	4.8	10.499	4.7
14.499	4.7	18.498	4.7		
2.666	8.8	6.666	4.8	10.666	4.7
14.665	4.7	18.665	4.7		
2.833	8.2	6.833	4.8	10.832	4.7
14.832	4.7	18.831	4.7		
3.000	7.7	6.999	4.8	10.999	4.7
14.998	4.7	18.998	4.7		
3.166	7.2	7.166	4.8	11.166	4.7
15.165	4.7	19.165	4.7		
3.333	6.7	7.333	4.7	11.332	4.7
15.332	4.7	19.331	4.7		
3.500	6.5	7.499	4.7	11.499	4.7
15.498	4.7	19.498	4.7		
3.666	6.2	7.666	4.7	11.665	4.7
15.665	4.7	19.665	4.7		
3.833	5.9	7.833	4.7	11.832	4.7
15.832	4.7	19.831	4.7		

RUNOFF VOLUME = 5.00639 INCHES = 8.7071 ACRE-FEET
PEAK DISCHARGE RATE = 11.60 CFS AT 1.933 HOURS BASIN AREA = .0326 SQ. MI.

****

*S ADD HYD 502 AND POND 6

ADD HYD ID=58 HYDNO=503

ID=57 ID=46

PRINT HYD ID=58 CODE=5

OUTFLOW HYDROGRAPH RESERVOIR 503.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	10.4	7.999	7.1
.167	6.1	4.166	9.8	8.166	7.1
.333	6.7	4.333	9.3	8.332	7.0
.500	6.9	4.500	8.9	8.499	7.0
.667	7.0	4.666	8.7	8.666	7.0
.833	7.0	4.833	8.4	8.832	7.0
1.000	7.0	4.999	8.3	8.999	7.0
1.167	7.0	5.166	8.1	9.166	7.0
1.333	8.8	5.333	8.0	9.332	7.0
1.500	23.6	5.499	8.0	9.499	7.0
1.667	31.7	5.666	7.9	9.666	7.0

DEV10

13.665	7.0	17.665	7.0				
1.833	34.0	5.833	7.9	9.832	7.0		
13.832	7.0	17.832	7.0				
2.000	34.8	5.999	7.9	9.999	7.0		
13.999	7.0	17.998	7.0				
2.166	34.5	6.166	7.8	10.166	7.0		
14.165	7.0	18.165	7.0				
2.333	33.1	6.333	7.7	10.332	7.0		
14.332	7.0	18.331	7.0				
2.500	30.9	6.499	7.5	10.499	7.0		
14.499	7.0	18.498	7.0				
2.666	28.5	6.666	7.4	10.666	7.0		
14.665	7.0	18.665	7.0				
2.833	26.1	6.833	7.3	10.832	7.0		
14.832	7.0	18.831	7.0				
3.000	23.5	6.999	7.3	10.999	7.0		
14.998	7.0	18.998	7.0				
3.166	20.7	7.166	7.2	11.166	7.0		
15.165	7.0	19.165	7.0				
3.333	17.1	7.333	7.2	11.332	7.0		
15.332	7.0	19.331	7.0				
3.500	14.3	7.499	7.1	11.499	7.0		
15.498	7.0	19.498	7.0				
3.666	12.5	7.666	7.1	11.665	7.0		
15.665	7.0	19.665	7.0				
3.833	11.3	7.833	7.1	11.832	7.0		
15.832	7.0	19.831	7.0				

RUNOFF VOLUME = 3.16268 INCHES = 15.6311 ACRE-FEET
PEAK DISCHARGE RATE = 34.86 CFS AT 2.066 HOURS BASIN AREA =
.0927 SQ. MI.

****

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 15:48:35

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02c RUN DATE (MON/DAY/YR) =10/02/2007
INPUT FILE = DEV10.HMI USER NO.=
AHYMO-C-9803c01UNMLIB-AH

PAGE = 1

COMMAND NOTATION	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE
RAINFALL TYPE= 1									
RAIN6= 1.470									
*S COMPUTE HYD BASIN A1									
COMPUTE NM HYD	101.00	-	1	.00780	13.37	.473	1.13650	1.500	2.679
PER IMP= 90.00									
*S COMPUTE HYD BASIN A2									
COMPUTE NM HYD	102.00	-	2	.00623	10.25	.361	1.08583	1.500	2.572
PER IMP= 85.00									
*S COMPUTE HYD BASIN A3									
COMPUTE NM HYD	103.00	-	3	.00833	14.05	.496	1.11623	1.500	2.636
PER IMP= 88.00									
*S COMPUTE HYD BASIN A4									
COMPUTE NM HYD	104.00	-	4	.01040	17.11	.602	1.08583	1.500	2.571
PER IMP= 85.00									
*S COMPUTE HYD BASIN B1									
COMPUTE NM HYD	201.00	-	11	.00161	2.77	.098	1.13650	1.500	2.686
PER IMP= 90.00									
*S COMPUTE HYD BASIN B2									
COMPUTE NM HYD	202.00	-	12	.00097	1.72	.060	1.15775	1.500	2.769
PER IMP= 90.00									
*S COMPUTE HYD BASIN B3									
COMPUTE NM HYD	203.00	-	13	.00190	3.17	.111	1.09479	1.500	2.609
PER IMP= 85.00									
*S COMPUTE HYD BASIN B4									
COMPUTE NM HYD	204.00	-	14	.00459	7.65	.268	1.09479	1.500	2.605
PER IMP= 85.00									
*S COMPUTE HYD BASIN B5									
COMPUTE NM HYD	205.00	-	15	.00657	10.95	.384	1.09479	1.500	2.604
PER IMP= 85.00									
*S COMPUTE HYD BASIN B6									
COMPUTE NM HYD	206.00	-	16	.00575	9.15	.355	1.15775	1.533	2.485
PER IMP= 90.00									
*S COMPUTE HYD BASIN B7									

```
    COMPUTE NM HYD          207.00   -    17        .00176        3.11        .109      1.15775    1.500    2.761
PER IMP=  90.00
    *S  COMPUTE HYD BASIN B8
    COMPUTE NM HYD          208.00   -    18        .00249        4.40        .154      1.15775    1.500    2.759
PER IMP=  90.00
    *S  COMPUTE HYD BASIN B9
    COMPUTE NM HYD          209.00   -    19        .00725       12.59        .443      1.14585    1.500    2.713
PER IMP=  90.00
    *S  COMPUTE HYD BASIN B10
    COMPUTE NM HYD          210.00   -    20        .00748       12.83        .453      1.13650    1.500    2.679
PER IMP=  90.00
    *S  COMPUTE HYD BASIN O1
    COMPUTE NM HYD          211.00   -    21        .00796       11.95        .465      1.09479    1.533    2.346
PER IMP=  85.00
    *S  COMPUTE HYD BASIN O2
    COMPUTE NM HYD          212.00   -    22        .00767       11.52        .448      1.09479    1.533    2.346
PER IMP=  85.00
    *S  COMPUTE HYD BASIN OS1
    COMPUTE NM HYD          213.00   -    23        .01104       18.39        .645      1.09479    1.500    2.603
PER IMP=  85.00
    *S  COMPUTE HYD BASIN OS2
    COMPUTE NM HYD          214.00   -    24        .00080        1.40        .049      1.14585    1.500    2.729
PER IMP=  90.00
    *S  COMPUTE HYD BASIN OS3
    COMPUTE NM HYD          215.00   -    25        .00311        5.41        .190      1.14585    1.500    2.716
PER IMP=  90.00
    *S ADD O1 AND O2
    ADD HYD                 300.00 21&22  28        .01563       23.47        .913      1.09474    1.533    2.346
    ROUTE RESERVOIR         301.00   28   29        .01563        6.10        .923      1.10678    2.066     .609
AC-FT=      .503
    ROUTE RESERVOIR         302.00    1   30        .00780        2.94        .483      1.16169    2.033     .589
AC-FT=      .273
    *S ADD OFFSITE POND AND POND 1
    ADD HYD                 303.00 29&30  31        .02343        9.03       1.406      1.12505    2.066     .602
    ROUTE RESERVOIR         304.00    3   32        .00833        2.84       3.836      8.63458    2.066     .533
AC-FT=      .257
    *S ADD HYD 303 AND POND 3
    ADD HYD                 306.00 31&32  34        .03176       11.88       5.242      3.09468    2.066     .584
    *S ADD B1 AND B2
```


COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE

NOTATION

```
    ADD HYD                 308.00 11&12  36        .00258        4.49        .157      1.14426    1.500    2.717
    *S ADD HYD 308 AND B3
    ADD HYD                 309.00 36&13  37        .00448        7.66        .268      1.12321    1.500    2.671
    *S ADD B5 AND B6
    ADD HYD                 310.00 15&16  38        .01232       19.60        .739      1.12412    1.533    2.486
    *S ADD HYD 309 AND HYD 310
    ADD HYD                 311.00 37&38  39        .01680       27.17       1.007      1.12388    1.500    2.527
    ROUTE RESERVOIR         312.00   39   40        .01680        7.70       1.007      1.12388    1.933     .716
AC-FT=      .481
    *S ADD HYD 306 AND POND 5
    ADD HYD                 320.00 34&40  42        .04856       19.55       6.249      2.41285    2.000     .629
    *S ADD HYD 320 AND B7
    ADD HYD                 321.00 42&17  43        .05032       20.34       6.358      2.36894    1.900     .632
    *S ADD HYD 321 AND B8
    ADD HYD                 322.00 43&18  44        .05281       22.05       6.511      2.31183    1.667     .652
    *S ADD HYD 322 AND B9
    ADD HYD                 323.00 44&19  45        .06006       33.21       6.954      2.17108    1.533     .864
    ROUTE RESERVOIR         324.00   45   46        .06006       23.32       6.924      2.16167    2.066     .607
AC-FT=      .502
    ROUTE RESERVOIR         325.00   20   48        .00748        2.17        .453      1.13646    2.100     .454
AC-FT=      .294
    *S ADD A2 AND OS3
    ADD HYD                 326.00  2&25  49        .00934       15.66        .551      1.10576    1.500    2.620
    ROUTE RESERVOIR         400.00   49   50        .00934        2.53       3.280      6.58535    2.100     .423
AC-FT=      .327
    *S ADD A4 AND OS2
    ADD HYD                 327.00  4&24  51        .01120       18.51        .651      1.09006    1.500    2.582
    ROUTE RESERVOIR         401.00   51   52        .01120        4.12       4.705      7.87751    2.033     .575
AC-FT=      .323
    ROUTE RESERVOIR         402.00   14   53        .00459        2.92        .268      1.09473    1.766     .995
AC-FT=      .103
    *S ADD POND 2 AND POND 4
    ADD HYD                 500.00 50&52  55        .02054        6.65       7.986      7.28989    2.066     .506
    *S ADD HYD 500 AND POND 8
    ADD HYD                 501.00 55&53  56        .02513        9.48       8.254      6.15832    1.866     .590
    *S ADD HYD 501 AND POND 7
    ADD HYD                 502.00 56&48  57        .03261       11.60       8.707      5.00639    1.933     .556
    *S ADD HYD 502 AND POND 6
    ADD HYD                 503.00 57&46  58        .09267       34.86      15.631      3.16268    2.066     .588
    FINISH
```

```
                                        DEV100
*  Project Number 6010 (OXBOW TOWN CENTER) 100207
*  PROPOSED Conditions
*  100 YEAR 24 HOUR RAINFALL TABLE
RAINFALL                TYPE=1  RAIN QUARTER=0
                        RAIN ONE=1.87 IN  RAIN SIX=2.20 IN
                        RAIN DAY=2.66 IN  DT=0.03333 HRS
*  10 YEAR RAINFALL TABLE
*RAINFALL               TYPE=1  RAIN QUARTER=0.0
*                       RAIN ONE=1.25 IN  RAIN SIX=1.47 IN
*                       RAIN DAY=1.77 IN  DT=0.03333 HRS
**********************************************************
**********************************************************
**********************************************************
*S  COMPUTE HYD BASIN A1
COMPUTE NM HYD          ID=1  HYDNO=101  AREA=0.00780SQ MI
                        PER A=0 PER B=10 PER C=0 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=1   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN A2
COMPUTE NM HYD          ID=2  HYDNO=102  AREA=0.00623SQ MI
                        PER A=0 PER B=15 PER C=0 PER D=85
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=2   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN A3
COMPUTE NM HYD          ID=3  HYDNO=103  AREA=0.00833SQ MI
                        PER A=0 PER B=12 PER C=0 PER D=88
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=3   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN A4
COMPUTE NM HYD          ID=4  HYDNO=104  AREA=0.0104SQ MI
                        PER A=0 PER B=15 PER C=0 PER D=85
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=4   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B1
COMPUTE NM HYD          ID=11  HYDNO=201  AREA=0.00161SQ MI
                        PER A=0 PER B=10 PER C=0 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=11   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B2
COMPUTE NM HYD          ID=12  HYDNO=202  AREA=0.00097SQ MI
                        PER A=0 PER B=0 PER C=10 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=12   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B3
COMPUTE NM HYD          ID=13  HYDNO=203  AREA=0.00190SQ MI
                        PER A=0 PER B=10 PER C=5 PER D=85
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=13   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B4
COMPUTE NM HYD          ID=14  HYDNO=204  AREA=0.00459SQ MI
                        PER A=0 PER B=10 PER C=5 PER D=85
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=14   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B5
COMPUTE NM HYD          ID=15  HYDNO=205  AREA=0.00657SQ MI
                        PER A=0 PER B=10 PER C=5 PER D=85
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=15   CODE=5
```

```
**********************************************************
*S  COMPUTE HYD BASIN B6
COMPUTE NM HYD          ID=16  HYDNO=206  AREA=0.00575SQ MI
                        PER A=0 PER B=0 PER C=10 PER D=90
                        TP=.16667 HR MASS RAIN=-1
PRINT HYD               ID=16   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B7
COMPUTE NM HYD          ID=17  HYDNO=207  AREA=0.00176SQ MI
                        PER A=0 PER B=0 PER C=10 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=17   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B8
COMPUTE NM HYD          ID=18  HYDNO=208  AREA=0.00249SQ MI
                        PER A=0 PER B=0 PER C=10 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=18   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B9
COMPUTE NM HYD          ID=19  HYDNO=209  AREA=0.00725SQ MI
                        PER A=0 PER B=5 PER C=5 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=19   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN B10
COMPUTE NM HYD          ID=20  HYDNO=210  AREA=0.00748SQ MI
                        PER A=0 PER B=10 PER C=0 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=20   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN O1
COMPUTE NM HYD          ID=21  HYDNO=211  AREA=0.00796SQ MI
                        PER A=0 PER B=10 PER C=5 PER D=85
                        TP=.1667 HR MASS RAIN=-1
PRINT HYD               ID=21   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN O2
COMPUTE NM HYD          ID=22  HYDNO=212  AREA=0.00767SQ MI
                        PER A=0 PER B=10 PER C=5 PER D=85
                        TP=.1667 HR MASS RAIN=-1
PRINT HYD               ID=22   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN OS1
COMPUTE NM HYD          ID=23  HYDNO=213  AREA=0.01104SQ MI
                        PER A=0 PER B=10 PER C=5 PER D=85
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=23   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN OS2
COMPUTE NM HYD          ID=24  HYDNO=214  AREA=0.0008SQ MI
                        PER A=0 PER B=5 PER C=5 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=24   CODE=5
**********************************************************
*S  COMPUTE HYD BASIN OS3
COMPUTE NM HYD          ID=25  HYDNO=215  AREA=0.00311SQ MI
                        PER A=0 PER B=5 PER C=5 PER D=90
                        TP=.13333 HR MASS RAIN=-1
PRINT HYD               ID=25   CODE=5
**********************************************************
**********************************************************
**********************************************************
*S ADD O1 AND O2
ADD HYD                 ID=28 HYDNO=300
                        ID=21 ID=22
```

```
PRINT HYD                ID=28 CODE=5
**********************************************************************
*OFFSITE POND ON CHURCH TRACT
**********************************************************************
ROUTE RESERVOIR          ID=29 HYD=301 INFLOW ID=28 CODE=5
                         OUTFLOW          STORAGE          ELEV
                          (CFS)           (AC-FT)          (FT)
                           0.01           0.0              5108
                           5.43           0.40             5110
                           7.05           0.65             5111
                           8.37           0.95             5112
                           9.50           1.25             5113
PRINT HYD                ID=29 CODE=5
**********************************************************************
*POND 1
**********************************************************************
ROUTE RESERVOIR          ID=30 HYD=302 INFLOW ID=1 CODE=5
                         OUTFLOW          STORAGE          ELEV
                          (CFS)           (AC-FT)          (FT)
                           0.01           0.0              5110
                           2.82           0.21             5111
                           3.31           0.47             5112
                           3.73           0.77             5113
                           4.11           1.12             5114
PRINT HYD                ID=30 CODE=5
**********************************************************************
*S ADD OFFSITE POND AND POND 1
ADD HYD                  ID=31 HYDNO=303
                         ID=29 ID=30
PRINT HYD                ID=31 CODE=5
**********************************************************************
*POND 3
**********************************************************************
ROUTE RESERVOIR          ID=32 HYD=304 INFLOW ID=3 CODE=5
                         OUTFLOW          STORAGE          ELEV
                          (CFS)           (AC-FT)          (FT)
                           2.29           0.0              5111
                           2.89           0.28             5112
                           3.39           0.62             5113
                           3.83           1.01             5114
                           4.22           1.20             5115
PRINT HYD                ID=32 CODE=5
**********************************************************************
*S ADD HYD 303 AND POND 3
ADD HYD                  ID=34 HYDNO=306
                         ID=31 ID=32
PRINT HYD                ID=34 CODE=5
**********************************************************************
*S ADD B1 AND B2
ADD HYD                  ID=36 HYDNO=308
                         ID=11 ID=12
PRINT HYD                ID=36 CODE=5
**********************************************************************
*S ADD HYD 308 AND B3
ADD HYD                  ID=37 HYDNO=309
                         ID=36 ID=13
PRINT HYD                ID=37 CODE=5
**********************************************************************
*S ADD B5 AND B6
ADD HYD                  ID=38 HYDNO=310
                         ID=15 ID=16
PRINT HYD                ID=38 CODE=5
**********************************************************************
*S ADD HYD 309 AND HYD 310
ADD HYD                  ID=39 HYDNO=311
                         ID=37 ID=38
```

```
PRINT HYD                ID=39 CODE=5
**********************************************************
*POND 5
**********************************************************
ROUTE RESERVOIR          ID=40 HYD=312 INFLOW ID=39 CODE=5
                         OUTFLOW            STORAGE        ELEV
                          (CFS)             (AC-FT)        (FT)
                           0.00             0.00           5108
                           5.44             0.13           5109
                           6.66             0.29           5110
                           7.69             0.48           5111
                           8.60             0.70           5112
                           9.42             0.96           5113
                           9.80             1.10           5113.5
PRINT HYD                ID=40 CODE=5
**********************************************************
*S ADD HYD 306 AND POND 5
ADD HYD                  ID=42 HYDNO=320
                         ID=34 ID=40
PRINT HYD                ID=42 CODE=5
**********************************************************
*S ADD HYD 320 AND B7
ADD HYD                  ID=43 HYDNO=321
                         ID=42 ID=17
PRINT HYD                ID=43 CODE=5
**********************************************************
*S ADD HYD 321 AND B8
ADD HYD                  ID=44 HYDNO=322
                         ID=43 ID=18
PRINT HYD                ID=44 CODE=5
**********************************************************
*S ADD HYD 322 AND B9
ADD HYD                  ID=45 HYDNO=323
                         ID=44 ID=19
PRINT HYD                ID=45 CODE=5
**********************************************************
*POND 6 (UNDERGROUND)
**********************************************************
ROUTE RESERVOIR          ID=46 HYD=324 INFLOW ID=45 CODE=5
                         OUTFLOW            STORAGE        ELEV
                          (CFS)             (AC-FT)        (FT)
                           0.01             0.0            5101
                           12.23            0.16           5103
                           20.70            0.40           5105
                           26.59            0.63           5107
                           29.10            0.72           5108
                           31.40            0.74           5108.5
PRINT HYD                ID=46 CODE=5
**********************************************************
*POND 7 (UNDERGROUND)
**********************************************************
ROUTE RESERVOIR          ID=48 HYD=325 INFLOW ID=20 CODE=5
                         OUTFLOW            STORAGE        ELEV
                          (CFS)             (AC-FT)        (FT)
                           0.00             0.00           5104.5
                           1.47             0.11           5106.5
                           2.16             0.29           5108.5
                           2.67             0.46           5110.5
                           3.00             0.53           5112.0
PRINT HYD                ID=48 CODE=5
**********************************************************
*S ADD A2 AND OS3
ADD HYD                  ID=49 HYDNO=326
                         ID=2 ID=25
PRINT HYD                ID=49 CODE=5
**********************************************************
```

```
*POND 2
**********************************************************
ROUTE RESERVOIR        ID=50 HYD=400 INFLOW ID=49 CODE=5
                       OUTFLOW            STORAGE        ELEV
                        (CFS)             (AC-FT)        (FT)
                         1.94             0.0            5111
                         2.44             0.26           5112
                         2.86             0.57           5113
                         3.22             0.93           5114
PRINT HYD              ID=50 CODE=5
**********************************************************
*S ADD A4 AND OS2
ADD HYD                ID=51 HYDNO=327
                       ID=4 ID=24
PRINT HYD              ID=51 CODE=5
**********************************************************
*POND 4
**********************************************************
ROUTE RESERVOIR        ID=52 HYD=401 INFLOW ID=51 CODE=5
                       OUTFLOW            STORAGE        ELEV
                        (CFS)             (AC-FT)        (FT)
                         2.76             0.0            5111
                         3.50             0.11           5112
                         4.12             0.32           5113
                         4.65             0.65           5114
                         5.13             1.05           5115
PRINT HYD              ID=52 CODE=5
**********************************************************
*POND 8 (UNDERGROUND)
**********************************************************
ROUTE RESERVOIR        ID=53 HYD=402 INFLOW ID=14 CODE=5
                       OUTFLOW            STORAGE        ELEV
                        (CFS)             (AC-FT)        (FT)
                         0.00             0.0            5105
                         2.27             0.05           5107
                         3.38             0.14           5109
                         4.20             0.22           5111
                         4.72             0.25           5112.5
PRINT HYD              ID=53 CODE=5
**********************************************************
*S ADD POND 2 AND POND 4
ADD HYD                ID=55 HYDNO=500
                       ID=50 ID=52
PRINT HYD              ID=55 CODE=5
**********************************************************
*S ADD HYD 500 AND POND 8
ADD HYD                ID=56 HYDNO=501
                       ID=55 ID=53
PRINT HYD              ID=56 CODE=5
**********************************************************
*S ADD HYD 501 AND POND 7
ADD HYD                ID=57 HYDNO=502
                       ID=56 ID=48
PRINT HYD              ID=57 CODE=5
**********************************************************
*S ADD HYD 502 AND POND 6
ADD HYD                ID=58 HYDNO=503
                       ID=57 ID=46
PRINT HYD              ID=58 CODE=5
**********************************************************
FINISH
```

```
        AHYMO PROGRAM (AHYMO_97) -                                  - Version:
1997.02c
              RUN DATE (MON/DAY/YR) = 10/02/2007
              START TIME (HR:MIN:SEC) = 15:48:17      USER NO.=
AHYMO-C-9803c01UNMLIB-AH
              INPUT FILE = DEV100.HMI

     *  Project Number 6010 (OXBOW TOWN CENTER) 100207

     *  PROPOSED Conditions

     *  100 YEAR 24 HOUR RAINFALL TABLE

     RAINFALL                TYPE=1  RAIN QUARTER=0

                             RAIN ONE=1.87 IN  RAIN SIX=2.20 IN

                             RAIN DAY=2.66 IN  DT=0.03333 HRS

                        COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS
2 - PEAK AT 1.40 HR.
                        DT =     .033330 HOURS       END TIME =     5.999400 HOURS
                           .0000   .0016   .0033   .0050   .0067   .0085   .0103
                           .0122   .0141   .0160   .0180   .0201   .0222   .0243
                           .0266   .0289   .0312   .0337   .0362   .0388   .0415
                           .0443   .0472   .0502   .0534   .0567   .0601   .0637
                           .0675   .0715   .0758   .0809   .0865   .0924   .1050
                           .1334   .1771   .2398   .3254   .4379   .5814   .7600
                           .9780  1.1804  1.2649  1.3363  1.3997  1.4575  1.5106
                          1.5600  1.6061  1.6493  1.6900  1.7284  1.7646  1.7989
                          1.8314  1.8623  1.8915  1.9193  1.9456  1.9518  1.9576
                          1.9630  1.9682  1.9732  1.9780  1.9825  1.9869  1.9912
                          1.9953  1.9993  2.0031  2.0068  2.0104  2.0140  2.0174
                          2.0207  2.0240  2.0272  2.0303  2.0333  2.0363  2.0392
                          2.0420  2.0448  2.0475  2.0502  2.0528  2.0554  2.0580
                          2.0605  2.0629  2.0653  2.0677  2.0700  2.0723  2.0746
                          2.0768  2.0790  2.0812  2.0833  2.0855  2.0875  2.0896
                          2.0916  2.0936  2.0956  2.0976  2.0995  2.1014  2.1033
                          2.1051  2.1070  2.1088  2.1106  2.1124  2.1141  2.1159
                          2.1176  2.1193  2.1210  2.1227  2.1244  2.1260  2.1276
                          2.1292  2.1308  2.1324  2.1340  2.1355  2.1371  2.1386
                          2.1401  2.1416  2.1431  2.1446  2.1460  2.1475  2.1489
                          2.1504  2.1518  2.1532  2.1546  2.1560  2.1573  2.1587
                          2.1600  2.1614  2.1627  2.1640  2.1654  2.1667  2.1680
                          2.1692  2.1705  2.1718  2.1731  2.1743  2.1756  2.1768
                          2.1780  2.1792  2.1804  2.1817  2.1829  2.1840  2.1852
                          2.1864  2.1876  2.1887  2.1899  2.1910  2.1922  2.1933
                          2.1944  2.1956  2.1967  2.1978  2.1989  2.2000

     *  10 YEAR RAINFALL TABLE

     *RAINFALL               TYPE=1  RAIN QUARTER=0.0

     *                       RAIN ONE=1.25 IN  RAIN SIX=1.47 IN

     *                       RAIN DAY=1.77 IN  DT=0.03333 HRS

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

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

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

```
*S  COMPUTE HYD BASIN A1

COMPUTE NM HYD          ID=1  HYDNO=101  AREA=0.00780SQ MI

                        PER A=0 PER B=10 PER C=0 PER D=90

                        TP=.13333 HR MASS RAIN=-1


          K =   .072665HR    TP =   .133330HR    K/TP RATIO =   .545000
SHAPE CONSTANT, N =  7.106420
          UNIT PEAK =   27.709    CFS   UNIT VOLUME =    .9990       B =
526.28      P60 = 1.8700
          AREA =      .007020 SQ MI    IA =    .10000 INCHES    INF =
.04000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT =   .033330


          K =   .131021HR    TP =   .133330HR    K/TP RATIO =   .982685
SHAPE CONSTANT, N =  3.593448
          UNIT PEAK =   1.9135    CFS   UNIT VOLUME =    .9932       B =
327.09      P60 = 1.8700
          AREA =      .000780 SQ MI    IA =    .50000 INCHES    INF =
1.25000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT =   .033330

     PRINT HYD              ID=1   CODE=5


                                        PARTIAL HYDROGRAPH   101.00

          TIME      FLOW          TIME      FLOW          TIME      FLOW
TIME      FLOW          TIME      FLOW
     HRS       CFS           HRS       CFS           HRS       CFS
 HRS       CFS           HRS       CFS
     .000        .0          1.500      20.7          3.000        .2
4.500        .1          5.999        .1
     .167        .0          1.667      10.5          3.166        .2
4.666        .1          6.166        .1
     .333        .0          1.833       6.8          3.333        .2
4.833        .1          6.333        .0
     .500        .0          2.000       5.0          3.500        .1
4.999        .1          6.499        .0
     .667        .0          2.166       2.3          3.666        .1
5.166        .1          6.666        .0
     .833        .0          2.333       1.1          3.833        .1
5.333        .1          6.833        .0
    1.000        .0          2.500        .7          4.000        .1
5.499        .1
    1.167        .1          2.666        .4          4.166        .1
5.666        .1
    1.333       6.1          2.833        .3          4.333        .1
5.833        .1

       RUNOFF VOLUME =     1.83567 INCHES     =        .7636 ACRE-FEET
       PEAK DISCHARGE RATE =      20.65 CFS  AT   1.500 HOURS   BASIN AREA =
.0078 SQ. MI.


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

*S  COMPUTE HYD BASIN A2
```

```
                                        DEV100
     COMPUTE NM HYD          ID=2  HYDNO=102  AREA=0.00623SQ MI

                             PER A=0 PER B=15 PER C=0 PER D=85

                             TP=.13333 HR MASS RAIN=-1

          K =    .072665HR    TP =    .133330HR    K/TP RATIO =    .545000
SHAPE CONSTANT, N =  7.106420
          UNIT PEAK =   20.902    CFS   UNIT VOLUME =    .9988       B =
526.28      P60 = 1.8700
          AREA =       .005296 SQ MI    IA =    .10000 INCHES    INF =
.04000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT =   .033330

          K =    .131021HR    TP =    .133330HR    K/TP RATIO =    .982685
SHAPE CONSTANT, N =  3.593448
          UNIT PEAK =   2.2925    CFS   UNIT VOLUME =    .9943       B =
327.09      P60 = 1.8700
          AREA =       .000935 SQ MI    IA =    .50000 INCHES    INF =
1.25000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT =   .033330

     PRINT HYD               ID=2   CODE=5

                                        PARTIAL HYDROGRAPH   102.00

          TIME       FLOW            TIME       FLOW            TIME       FLOW
TIME       FLOW            TIME       FLOW
     HRS        CFS             HRS        CFS             HRS        CFS
HRS        CFS             HRS        CFS
     .000          .0          1.500       16.0          3.000         .2
4.500         .1          5.999         .1
     .167          .0          1.667        8.2          3.166         .1
4.666         .1          6.166         .0
     .333          .0          1.833        5.2          3.333         .1
4.833         .1          6.333         .0
     .500          .0          2.000        3.8          3.500         .1
4.999         .1          6.499         .0
     .667          .0          2.166        1.7          3.666         .1
5.166         .1          6.666         .0
     .833          .0          2.333         .8          3.833         .1
5.333         .1          6.833         .0
    1.000          .0          2.500         .5          4.000         .1
5.499         .1
    1.167          .0          2.666         .3          4.166         .1
5.666         .1
    1.333         4.6          2.833         .2          4.333         .1
5.833         .1

       RUNOFF VOLUME =      1.77077 INCHES      =         .5884 ACRE-FEET
       PEAK DISCHARGE RATE =       16.03 CFS  AT   1.500 HOURS   BASIN AREA =
.0062 SQ. MI.


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

     *S  COMPUTE HYD BASIN A3

     COMPUTE NM HYD          ID=3  HYDNO=103  AREA=0.00833SQ MI
```

DEV100
PER A=0 PER B=12 PER C=0 PER D=88

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 28.934 CFS UNIT VOLUME = .9990 B =
526.28 P60 = 1.8700
AREA = .007330 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .131021HR TP = .133330HR K/TP RATIO = .982685
SHAPE CONSTANT, N = 3.593448
UNIT PEAK = 2.4522 CFS UNIT VOLUME = .9948 B =
327.09 P60 = 1.8700
AREA = .001000 SQ MI IA = .50000 INCHES INF =
1.25000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=3 CODE=5

PARTIAL HYDROGRAPH 103.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	21.8	3.000	.2
.167	.0	1.667	11.1	3.166	.2
.333	.0	1.833	7.1	3.333	.2
.500	.0	2.000	5.2	3.500	.1
.667	.0	2.166	2.4	3.666	.1
.833	.0	2.333	1.1	3.833	.1
1.000	.0	2.500	.7	4.000	.1
1.167	.1	2.666	.5	4.166	.1
1.333	6.3	2.833	.3	4.333	.1

RUNOFF VOLUME = 1.80971 INCHES = .8040 ACRE-FEET
PEAK DISCHARGE RATE = 21.80 CFS AT 1.500 HOURS BASIN AREA =
.0083 SQ. MI.

****

*S COMPUTE HYD BASIN A4

COMPUTE NM HYD ID=4 HYDNO=104 AREA=0.0104SQ MI

PER A=0 PER B=15 PER C=0 PER D=85

DEV100
TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 34.893 CFS UNIT VOLUME = .9990 B =
526.28 P60 = 1.8700
AREA = .008840 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .131021HR TP = .133330HR K/TP RATIO = .982685
SHAPE CONSTANT, N = 3.593448
UNIT PEAK = 3.8270 CFS UNIT VOLUME = .9967 B =
327.09 P60 = 1.8700
AREA = .001560 SQ MI IA = .50000 INCHES INF =
1.25000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=4 CODE=5

PARTIAL HYDROGRAPH 104.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	26.7	3.000	.3
.167	.0	1.667	13.6	3.166	.2
.333	.0	1.833	8.7	3.333	.2
.500	.0	2.000	6.3	3.500	.2
.667	.0	2.166	2.9	3.666	.2
.833	.0	2.333	1.4	3.833	.2
1.000	.0	2.500	.8	4.000	.1
1.167	.1	2.666	.6	4.166	.1
1.333	7.7	2.833	.4	4.333	.1

RUNOFF VOLUME = 1.77077 INCHES = .9822 ACRE-FEET
PEAK DISCHARGE RATE = 26.75 CFS AT 1.500 HOURS BASIN AREA =
.0104 SQ. MI.

****

*S COMPUTE HYD BASIN B1

COMPUTE NM HYD ID=11 HYDNO=201 AREA=0.00161SQ MI

PER A=0 PER B=10 PER C=0 PER D=90

TP=.13333 HR MASS RAIN=-1

```
          K =    .072665HR     TP =    .133330HR     K/TP RATIO =    .545000
SHAPE CONSTANT, N =  7.106420
          UNIT PEAK =    5.7194     CFS    UNIT VOLUME =     .9973        B =
526.28       P60 = 1.8700
          AREA =       .001449 SQ MI     IA =     .10000 INCHES     INF =
.04000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT =    .033330


          K =    .131021HR     TP =    .133330HR     K/TP RATIO =    .982685
SHAPE CONSTANT, N =  3.593448
          UNIT PEAK =    .39497     CFS    UNIT VOLUME =     .9644        B =
327.09       P60 = 1.8700
          AREA =       .000161 SQ MI     IA =     .50000 INCHES     INF =
1.25000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT =    .033330

     PRINT HYD                ID=11   CODE=5
```

PARTIAL HYDROGRAPH 201.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	1.3	2.666	.1
.167	.0	1.500	4.3	2.833	.1
.333	.0	1.667	2.2	3.000	.0
.500	.0	1.833	1.4	3.166	.0
.667	.0	2.000	1.0	3.333	.0
.833	.0	2.166	.5	3.500	.0
1.000	.0	2.333	.2	3.666	.0
1.167	.0	2.500	.1	3.833	.0

```
          RUNOFF VOLUME =      1.83567 INCHES      =          .1576 ACRE-FEET
          PEAK DISCHARGE RATE =        4.28 CFS  AT    1.500 HOURS    BASIN AREA =
.0016 SQ. MI.


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

     *S  COMPUTE HYD BASIN B2

     COMPUTE NM HYD           ID=12  HYDNO=202  AREA=0.00097SQ MI

                              PER A=0 PER B=0 PER C=10 PER D=90

                              TP=.13333 HR MASS RAIN=-1


          K =    .072665HR     TP =    .133330HR     K/TP RATIO =    .545000
SHAPE CONSTANT, N =  7.106420
          UNIT PEAK =    3.4459     CFS    UNIT VOLUME =     .9960        B =
```

```
526.28      P60 = 1.8700
          AREA =       .000873 SQ MI    IA =    .10000 INCHES    INF =
.04000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT =   .033330


          K =   .105891HR    TP =   .133330HR    K/TP RATIO =   .794199
SHAPE CONSTANT, N =  4.514851
          UNIT PEAK =   .28238    CFS   UNIT VOLUME =    .9537       B =
388.14      P60 = 1.8700
          AREA =       .000097 SQ MI    IA =    .35000 INCHES    INF =
.83000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT =   .033330

     PRINT HYD              ID=12   CODE=5
```

PARTIAL HYDROGRAPH 202.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	.8	2.666	.0
4.000	.0	5.333	.0		
.167	.0	1.500	2.6	2.833	.0
4.166	.0	5.499	.0		
.333	.0	1.667	1.3	3.000	.0
4.333	.0	5.666	.0		
.500	.0	1.833	.9	3.166	.0
4.500	.0	5.833	.0		
.667	.0	2.000	.6	3.333	.0
4.666	.0	5.999	.0		
.833	.0	2.166	.3	3.500	.0
4.833	.0	6.166	.0		
1.000	.0	2.333	.1	3.666	.0
4.999	.0	6.333	.0		
1.167	.0	2.500	.1	3.833	.0
5.166	.0				

```
        RUNOFF VOLUME =     1.86838 INCHES     =        .0967 ACRE-FEET
        PEAK DISCHARGE RATE =       2.64 CFS  AT   1.500 HOURS   BASIN AREA =
.0010 SQ. MI.


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

     *S  COMPUTE HYD BASIN B3

     COMPUTE NM HYD          ID=13  HYDNO=203  AREA=0.00190SQ MI

                             PER A=0 PER B=10 PER C=5 PER D=85

                             TP=.13333 HR MASS RAIN=-1


          K =   .072665HR    TP =   .133330HR    K/TP RATIO =   .545000
SHAPE CONSTANT, N =  7.106420
          UNIT PEAK =   6.3747    CFS   UNIT VOLUME =    .9976       B =
526.28      P60 = 1.8700
          AREA =       .001615 SQ MI    IA =    .10000 INCHES    INF =
.04000 INCHES PER HOUR
          RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
```

DEV100

DT = .033330

K = .122644HR TP = .133330HR K/TP RATIO = .919857
SHAPE CONSTANT, N = 3.848008
UNIT PEAK = .73725 CFS UNIT VOLUME = .9827 B = 344.91 P60 = 1.8700
AREA = .000285 SQ MI IA = .45000 INCHES INF = 1.11000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=13 CODE=5

PARTIAL HYDROGRAPH 203.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	1.4	2.666	.1
.167	.0	1.500	5.0	2.833	.1
.333	.0	1.667	2.5	3.000	.0
.500	.0	1.833	1.6	3.166	.0
.667	.0	2.000	1.2	3.333	.0
.833	.0	2.166	.5	3.500	.0
1.000	.0	2.333	.3	3.666	.0
1.167	.0	2.500	.2	3.833	.0
4.000	.0	5.333	.0		
4.166	.0	5.499	.0		
4.333	.0	5.666	.0		
4.500	.0	5.833	.0		
4.666	.0	5.999	.0		
4.833	.0	6.166	.0		
4.999	.0	6.333	.0		
5.166	.0	6.499	.0		

RUNOFF VOLUME = 1.78520 INCHES = .1809 ACRE-FEET
PEAK DISCHARGE RATE = 4.95 CFS AT 1.500 HOURS BASIN AREA = .0019 SQ. MI.

****

*S COMPUTE HYD BASIN B4

COMPUTE NM HYD ID=14 HYDNO=204 AREA=0.00459SQ MI

PER A=0 PER B=10 PER C=5 PER D=85

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 15.400 CFS UNIT VOLUME = .9987 B = 526.28 P60 = 1.8700
AREA = .003902 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .122644HR TP = .133330HR K/TP RATIO = .919857

DEV100

SHAPE CONSTANT, N = 3.848008
UNIT PEAK = 1.7810 CFS UNIT VOLUME = .9926 B = 344.91 P60 = 1.8700
AREA = .000689 SQ MI IA = .45000 INCHES INF = 1.11000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=14 CODE=5

PARTIAL HYDROGRAPH 204.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	11.9	3.000	.1
.167	.0	1.667	6.1	3.166	.1
.333	.0	1.833	3.9	3.333	.1
.500	.0	2.000	2.8	3.500	.1
.667	.0	2.166	1.3	3.666	.1
.833	.0	2.333	.6	3.833	.1
1.000	.0	2.500	.4	4.000	.1
1.167	.0	2.666	.2	4.166	.1
1.333	3.4	2.833	.2	4.333	.1
4.500	.1	5.999	.1		
4.666	.1	6.166	.0		
4.833	.1	6.333	.0		
4.999	.1	6.499	.0		
5.166	.1	6.666	.0		
5.333	.1				
5.499	.1				
5.666	.1				
5.833	.1				

RUNOFF VOLUME = 1.78520 INCHES = .4370 ACRE-FEET
PEAK DISCHARGE RATE = 11.94 CFS AT 1.500 HOURS BASIN AREA = .0046 SQ. MI.

****

*S COMPUTE HYD BASIN B5

COMPUTE NM HYD ID=15 HYDNO=205 AREA=0.00657SQ MI

PER A=0 PER B=10 PER C=5 PER D=85

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 22.043 CFS UNIT VOLUME = .9988 B = 526.28 P60 = 1.8700
AREA = .005585 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .122644HR TP = .133330HR K/TP RATIO = .919857
SHAPE CONSTANT, N = 3.848008
UNIT PEAK = 2.5493 CFS UNIT VOLUME = .9949 B =

DEV100

344.91 P60 = 1.8700
AREA = .000986 SQ MI IA = .45000 INCHES INF =
1.11000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=15 CODE=5

PARTIAL HYDROGRAPH 205.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	17.1	3.000	.2
.167	.0	1.667	8.7	3.166	.1
.333	.0	1.833	5.5	3.333	.1
.500	.0	2.000	4.0	3.500	.1
.667	.0	2.166	1.8	3.666	.1
.833	.0	2.333	.9	3.833	.1
1.000	.0	2.500	.5	4.000	.1
1.167	.0	2.666	.4	4.166	.1
1.333	4.9	2.833	.3	4.333	.1

RUNOFF VOLUME = 1.78520 INCHES = .6255 ACRE-FEET
PEAK DISCHARGE RATE = 17.08 CFS AT 1.500 HOURS BASIN AREA =
.0066 SQ. MI.

****

*S COMPUTE HYD BASIN B6

COMPUTE NM HYD ID=16 HYDNO=206 AREA=0.00575SQ MI

PER A=0 PER B=0 PER C=10 PER D=90

TP=.16667 HR MASS RAIN=-1

K = .090835HR TP = .166670HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 16.341 CFS UNIT VOLUME = .9996 B =
526.28 P60 = 1.8700
AREA = .005175 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .132369HR TP = .166670HR K/TP RATIO = .794199
SHAPE CONSTANT, N = 4.514851
UNIT PEAK = 1.3391 CFS UNIT VOLUME = .9901 B =
388.14 P60 = 1.8700
AREA = .000575 SQ MI IA = .35000 INCHES INF =

DEV100

.83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=16 CODE=5

PARTIAL HYDROGRAPH 206.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	13.2	3.000	.2
.167	.0	1.667	9.2	3.166	.2
.333	.0	1.833	5.5	3.333	.1
.500	.0	2.000	4.1	3.500	.1
.667	.0	2.166	2.3	3.666	.1
.833	.0	2.333	1.0	3.833	.1
1.000	.0	2.500	.7	4.000	.1
1.167	.0	2.666	.4	4.166	.1
1.333	3.0	2.833	.3	4.333	.1
4.500	.1	5.999	.1		
4.666	.1	6.166	.1		
4.833	.1	6.333	.0		
4.999	.1	6.499	.0		
5.166	.1	6.666	.0		
5.333	.1	6.833	.0		
5.499	.1	6.999	.0		
5.666	.1				
5.833	.1				

RUNOFF VOLUME = 1.86838 INCHES = .5730 ACRE-FEET
PEAK DISCHARGE RATE = 14.05 CFS AT 1.533 HOURS BASIN AREA =
.0058 SQ. MI.

****

*S COMPUTE HYD BASIN B7

COMPUTE NM HYD ID=17 HYDNO=207 AREA=0.00176SQ MI

PER A=0 PER B=0 PER C=10 PER D=90

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 6.2523 CFS UNIT VOLUME = .9976 B =
526.28 P60 = 1.8700
AREA = .001584 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .105891HR TP = .133330HR K/TP RATIO = .794199
SHAPE CONSTANT, N = 4.514851
UNIT PEAK = .51236 CFS UNIT VOLUME = .9755 B =
388.14 P60 = 1.8700
AREA = .000176 SQ MI IA = .35000 INCHES INF =
.83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -

DEV100

DT = .033330

PRINT HYD ID=17 CODE=5

PARTIAL HYDROGRAPH 207.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	1.4	2.666	.1
.167	.0	1.500	4.8	2.833	.1
.333	.0	1.667	2.4	3.000	.0
.500	.0	1.833	1.6	3.166	.0
.667	.0	2.000	1.1	3.333	.0
.833	.0	2.166	.5	3.500	.0
1.000	.0	2.333	.2	3.666	.0
1.167	.0	2.500	.1	3.833	.0
4.000	.0	5.333	.0		
4.166	.0	5.499	.0		
4.333	.0	5.666	.0		
4.500	.0	5.833	.0		
4.666	.0	5.999	.0		
4.833	.0	6.166	.0		
4.999	.0	6.333	.0		
5.166	.0	6.499	.0		

RUNOFF VOLUME = 1.86838 INCHES = .1754 ACRE-FEET
PEAK DISCHARGE RATE = 4.77 CFS AT 1.500 HOURS BASIN AREA = .0018 SQ. MI.

****

*S COMPUTE HYD BASIN B8

COMPUTE NM HYD ID=18 HYDNO=208 AREA=0.00249SQ MI

PER A=0 PER B=0 PER C=10 PER D=90

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 8.8456 CFS UNIT VOLUME = .9980 B = 526.28 P60 = 1.8700
AREA = .002241 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

K = .105891HR TP = .133330HR K/TP RATIO = .794199
SHAPE CONSTANT, N = 4.514851
UNIT PEAK = .72487 CFS UNIT VOLUME = .9823 B = 388.14 P60 = 1.8700
AREA = .000249 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033330

PRINT HYD ID=18 CODE=5

DEV100

PARTIAL HYDROGRAPH 208.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	6.7	3.000	.1
.167	.0	1.667	3.4	3.166	.1
.333	.0	1.833	2.2	3.333	.0
.500	.0	2.000	1.6	3.500	.0
.667	.0	2.166	.7	3.666	.0
.833	.0	2.333	.3	3.833	.0
1.000	.0	2.500	.2	4.000	.0
1.167	.0	2.666	.1	4.166	.0
1.333	2.0	2.833	.1	4.333	.0

4.500 .0 5.999 .0 6.166 .0 6.333 .0 6.499 .0 6.666 .0 5.833 .0 5.333 .0 5.499 .0 5.666 .0

RUNOFF VOLUME = 1.86838 INCHES = .2481 ACRE-FEET
PEAK DISCHARGE RATE = 6.74 CFS AT 1.500 HOURS BASIN AREA =
.0025 SQ. MI.

****

*S COMPUTE HYD BASIN B9

COMPUTE NM HYD ID=19 HYDNO=209 AREA=0.00725SQ MI

PER A=0 PER B=5 PER C=5 PER D=90

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 25.755 CFS UNIT VOLUME = .9989 B =
526.28 P60 = 1.8700
AREA = .006525 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .118456HR TP = .133330HR K/TP RATIO = .888442
SHAPE CONSTANT, N = 3.992480
UNIT PEAK = 1.9286 CFS UNIT VOLUME = .9937 B =
354.67 P60 = 1.8700
AREA = .000725 SQ MI IA = .42500 INCHES INF =
1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=19 CODE=5

PARTIAL HYDROGRAPH 209.00

DEV100

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	19.4	3.000	.2
4.500	.1	1.667	9.8	3.166	.2
.167	.0	1.833	6.4	3.333	.1
4.666	.1	2.000	4.6	3.500	.1
.333	.0	2.166	2.1	3.666	.1
4.833	.1	2.333	1.0	3.833	.1
.500	.0	2.500	.6	4.000	.1
4.999	.1	2.666	.4	4.166	.1
.667	.0	2.833	.3	4.333	.1
5.166	.1				
.833	.0				
5.333	.1				
1.000	.0				
5.499	.1				
1.167	.0				
5.666	.1				
1.333	5.7				
5.833	.1				

RUNOFF VOLUME = 1.85050 INCHES = .7155 ACRE-FEET
PEAK DISCHARGE RATE = 19.39 CFS AT 1.500 HOURS BASIN AREA =
.0073 SQ. MI.

****

*S COMPUTE HYD BASIN B10

COMPUTE NM HYD ID=20 HYDNO=210 AREA=0.00748SQ MI

PER A=0 PER B=10 PER C=0 PER D=90

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 26.572 CFS UNIT VOLUME = .9989 B =
526.28 P60 = 1.8700
AREA = .006732 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .131021HR TP = .133330HR K/TP RATIO = .982685
SHAPE CONSTANT, N = 3.593448
UNIT PEAK = 1.8350 CFS UNIT VOLUME = .9932 B =
327.09 P60 = 1.8700
AREA = .000748 SQ MI IA = .50000 INCHES INF =
1.25000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=20 CODE=5

PARTIAL HYDROGRAPH 210.00

TIME	FLOW	TIME	FLOW	TIME	FLOW

DEV100

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	HRS	CFS
.000	.0	1.500	19.8	3.000	.2
4.500	.1	1.667	10.0	3.166	.2
.167	.0	1.833	6.5	3.333	.1
4.666	.1	2.000	4.8	3.500	.1
.333	.0	2.166	2.2	3.666	.1
4.833	.1	2.333	1.0	3.833	.1
.500	.0	2.500	.6	4.000	.1
4.999	.1	2.666	.4	4.166	.1
.667	.0	2.833	.3	4.333	.1
5.166	.1				
.833	.0				
5.333	.1				
1.000	.0				
5.499	.1				
1.167	.1				
5.666	.1				
1.333	5.8				
5.833	.1				

RUNOFF VOLUME = 1.83567 INCHES = .7323 ACRE-FEET
PEAK DISCHARGE RATE = 19.81 CFS AT 1.500 HOURS BASIN AREA =
.0075 SQ. MI.

****

*S COMPUTE HYD BASIN 01

COMPUTE NM HYD ID=21 HYDNO=211 AREA=0.00796SQ MI

PER A=0 PER B=10 PER C=5 PER D=85

TP=.1667 HR MASS RAIN=-1

K = .090852HR TP = .166700HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 21.360 CFS UNIT VOLUME = .9997 B =
526.28 P60 = 1.8700
AREA = .006766 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .153340HR TP = .166700HR K/TP RATIO = .919856
SHAPE CONSTANT, N = 3.848002
UNIT PEAK = 2.4704 CFS UNIT VOLUME = .9945 B =
344.91 P60 = 1.8700
AREA = .001194 SQ MI IA = .45000 INCHES INF =
1.11000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=21 CODE=5

PARTIAL HYDROGRAPH 211.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS

DEV100

HRS	CFS	HRS	CFS			
.000	.0	1.500	17.5	3.000	.3	
4.500	.1	5.999	.1			
.167	.0	1.667	12.2	3.166	.2	
4.666	.1	6.166	.1			
.333	.0	1.833	7.3	3.333	.2	
4.833	.1	6.333	.0			
.500	.0	2.000	5.3	3.500	.1	
4.999	.1	6.499	.0			
.667	.0	2.166	3.0	3.666	.1	
5.166	.1	6.666	.0			
.833	.0	2.333	1.4	3.833	.1	
5.333	.1	6.833	.0			
1.000	.0	2.500	.9	4.000	.1	
5.499	.1	6.999	.0			
1.167	.0	2.666	.6	4.166	.1	
5.666	.1					
1.333	3.9	2.833	.4	4.333	.1	
5.833	.1					

RUNOFF VOLUME = 1.78520 INCHES = .7579 ACRE-FEET
PEAK DISCHARGE RATE = 18.66 CFS AT 1.533 HOURS BASIN AREA =
.0080 SQ. MI.

****

*S COMPUTE HYD BASIN O2

COMPUTE NM HYD ID=22 HYDNO=212 AREA=0.00767SQ MI

PER A=0 PER B=10 PER C=5 PER D=85

TP=.1667 HR MASS RAIN=-1

K = .090852HR TP = .166700HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 20.582 CFS UNIT VOLUME = .9997 B =
526.28 P60 = 1.8700
AREA = .006520 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .153340HR TP = .166700HR K/TP RATIO = .919856
SHAPE CONSTANT, N = 3.848002
UNIT PEAK = 2.3804 CFS UNIT VOLUME = .9945 B =
344.91 P60 = 1.8700
AREA = .001151 SQ MI IA = .45000 INCHES INF =
1.11000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=22 CODE=5

PARTIAL HYDROGRAPH 212.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	16.9	3.000	.3

4.500	.1		5.999	.1		3.166	.2
.167		.0	1.667		11.8		
4.666	.1		6.166	.1		3.333	.2
.333		.0	1.833		7.0		
4.833	.1		6.333	.0		3.500	.1
.500		.0	2.000		5.1		
4.999	.1		6.499	.0		3.666	.1
.667		.0	2.166		2.9		
5.166	.1		6.666	.0		3.833	.1
.833		.0	2.333		1.3		
5.333	.1		6.833	.0		4.000	.1
1.000		.0	2.500		.8		
5.499	.1		6.999	.0		4.166	.1
1.167		.0	2.666		.6		
5.666	.1					4.333	.1
1.333		3.8	2.833		.4		
5.833	.1						

RUNOFF VOLUME = 1.78520 INCHES = .7303 ACRE-FEET
PEAK DISCHARGE RATE = 17.98 CFS AT 1.533 HOURS BASIN AREA =
.0077 SQ. MI.

****

*S COMPUTE HYD BASIN OS1

COMPUTE NM HYD ID=23 HYDNO=213 AREA=0.01104SQ MI

PER A=0 PER B=10 PER C=5 PER D=85

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 37.040 CFS UNIT VOLUME = .9991 B =
526.28 P60 = 1.8700
AREA = .009384 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .122644HR TP = .133330HR K/TP RATIO = .919857
SHAPE CONSTANT, N = 3.848008
UNIT PEAK = 4.2838 CFS UNIT VOLUME = .9972 B =
344.91 P60 = 1.8700
AREA = .001656 SQ MI IA = .45000 INCHES INF =
1.11000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=23 CODE=5

PARTIAL HYDROGRAPH 213.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	28.7	3.000	.3
4.500	.1	5.999	.2	3.166	.2
.167	.0	1.667	14.6		

DEV100

4.666	.1		6.166	.1		3.333	.2		
.333		.0	1.833		9.3				
4.833	.2		6.333	.0		3.500	.2		
.500		.0	2.000		6.8				
4.999	.2		6.499	.0		3.666	.2		
.667		.0	2.166		3.1				
5.166	.2		6.666	.0		3.833	.2		
.833		.0	2.333		1.4				
5.333	.2		6.833	.0		4.000	.2		
1.000		.0	2.500		.9				
5.499	.2					4.166	.2		
1.167		.1	2.666		.6				
5.666	.2					4.333	.1		
1.333		8.2	2.833		.4				
5.833	.2								

RUNOFF VOLUME = 1.78520 INCHES = 1.0511 ACRE-FEET
PEAK DISCHARGE RATE = 28.69 CFS AT 1.500 HOURS BASIN AREA =
.0110 SQ. MI.

****

*S COMPUTE HYD BASIN OS2

COMPUTE NM HYD ID=24 HYDNO=214 AREA=0.0008SQ MI

PER A=0 PER B=5 PER C=5 PER D=90

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 2.8420 CFS UNIT VOLUME = .9955 B =
526.28 P60 = 1.8700
AREA = .000720 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .118456HR TP = .133330HR K/TP RATIO = .888442
SHAPE CONSTANT, N = 3.992480
UNIT PEAK = .21281 CFS UNIT VOLUME = .9359 B =
354.67 P60 = 1.8700
AREA = .000080 SQ MI IA = .42500 INCHES INF =
1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=24 CODE=5

PARTIAL HYDROGRAPH 214.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	.6	2.666	.0
4.000	.0	5.333	.0	2.833	.0
.167	.0	1.500	2.2	3.000	.0
4.166	.0	5.499	.0		
.333	.0	1.667	1.1		

4.333	.0		5.666	.0			
.500		.0	1.833		.7	3.166	.0
4.500	.0		5.833	.0			
.667		.0	2.000		.5	3.333	.0
4.666	.0		5.999	.0			
.833		.0	2.166		.2	3.500	.0
4.833	.0		6.166	.0			
1.000		.0	2.333		.1	3.666	.0
4.999	.0		6.333	.0			
1.167		.0	2.500		.1	3.833	.0
5.166	.0						

RUNOFF VOLUME = 1.85050 INCHES = .0790 ACRE-FEET
PEAK DISCHARGE RATE = 2.15 CFS AT 1.500 HOURS BASIN AREA =
.0008 SQ. MI.

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*S COMPUTE HYD BASIN OS3

COMPUTE NM HYD ID=25 HYDNO=215 AREA=0.00311SQ MI

PER A=0 PER B=5 PER C=5 PER D=90

TP=.13333 HR MASS RAIN=-1

K = .072665HR TP = .133330HR K/TP RATIO = .545000
SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 11.048 CFS UNIT VOLUME = .9984 B =
526.28 P60 = 1.8700
AREA = .002799 SQ MI IA = .10000 INCHES INF =
.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

K = .118456HR TP = .133330HR K/TP RATIO = .888442
SHAPE CONSTANT, N = 3.992480
UNIT PEAK = .82728 CFS UNIT VOLUME = .9847 B =
354.67 P60 = 1.8700
AREA = .000311 SQ MI IA = .42500 INCHES INF =
1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = .033330

PRINT HYD ID=25 CODE=5

PARTIAL HYDROGRAPH 215.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	8.3	3.000	.1
.167	.0	1.667	4.2	3.166	.1
.333	.0	1.833	2.7	3.333	.1
.500	.0	2.000	2.0	3.500	.1
.667	.0	2.166	.9	3.666	.1
4.500	.0	5.999	.1		
4.666	.0	6.166	.0		
4.833	.0	6.333	.0		
4.999	.0	6.499	.0		

DEV100

5.166	.0		6.666	.0		3.833	.0
.833		.0	2.333		.4		
5.333	.0		2.500		.3	4.000	.0
1.000		.0					
5.499	.1		2.666		.2	4.166	.0
1.167		.0					
5.666	.1		2.833		.1	4.333	.0
1.333		2.4					
5.833	.1						

RUNOFF VOLUME = 1.85050 INCHES = .3069 ACRE-FEET
PEAK DISCHARGE RATE = 8.33 CFS AT 1.500 HOURS BASIN AREA =
.0031 SQ. MI.

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*S ADD O1 AND O2

ADD HYD ID=28 HYDNO=300

ID=21 ID=22

PRINT HYD ID=28 CODE=5

HYDROGRAPH FROM AREA 300.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	34.4	3.000	.6
.167	.0	1.667	24.0	3.166	.4
.333	.0	1.833	14.3	3.333	.3
.500	.0	2.000	10.4	3.500	.3
.667	.0	2.166	6.0	3.666	.3
.833	.0	2.333	2.7	3.833	.2
1.000	.0	2.500	1.7	4.000	.2
1.167	.0	2.666	1.2	4.166	.2
1.333	7.7	2.833	.8	4.333	.2
4.500	.2	5.999	.3		
4.666	.2	6.166	.2		
4.833	.2	6.333	.0		
4.999	.2	6.499	.0		
5.166	.2	6.666	.0		
5.333	.2	6.833	.0		
5.499	.2	6.999	.0		
5.666	.2				
5.833	.3				

RUNOFF VOLUME = 1.78515 INCHES = 1.4881 ACRE-FEET
PEAK DISCHARGE RATE = 36.65 CFS AT 1.533 HOURS BASIN AREA =
.0156 SQ. MI.

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*OFFSITE POND ON CHURCH TRACT

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ROUTE RESERVOIR ID=29 HYD=301 INFLOW ID=28 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
0.01	0.0	5108
5.43	0.40	5110
7.05	0.65	5111
8.37	0.95	5112
9.50	1.25	5113

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5108.00	-.001	.00
.17	.00	5108.00	.000	.01
.33	.00	5108.00	.000	.01
.50	.00	5108.00	.000	.01
.67	.00	5108.00	.000	.01
.83	.00	5108.00	.000	.01
1.00	.00	5108.00	.000	.01
1.17	.04	5108.00	.000	.01
1.33	7.72	5108.16	.032	.45
1.50	34.43	5109.43	.286	3.88
1.67	24.02	5110.99	.648	7.04
1.83	14.31	5111.49	.797	7.70
2.00	10.41	5111.69	.857	7.96
2.17	5.96	5111.71	.864	7.99
2.33	2.71	5111.53	.810	7.76
2.50	1.71	5111.28	.735	7.43
2.67	1.15	5111.02	.655	7.07
2.83	.81	5110.70	.574	6.56
3.00	.59	5110.39	.497	6.06
3.17	.44	5110.10	.424	5.58
3.33	.35	5109.78	.357	4.84
3.50	.29	5109.50	.300	4.07
3.67	.25	5109.26	.252	3.42
3.83	.23	5109.06	.212	2.88
4.00	.22	5108.89	.179	2.43
4.17	.22	5108.75	.151	2.05
4.33	.21	5108.64	.128	1.74
4.50	.21	5108.54	.108	1.48
4.67	.21	5108.46	.093	1.26
4.83	.22	5108.40	.079	1.09
5.00	.22	5108.34	.068	.94
5.17	.23	5108.30	.059	.82
5.33	.23	5108.26	.052	.72
5.50	.24	5108.23	.046	.63
5.67	.25	5108.21	.041	.57
5.83	.26	5108.19	.037	.51
6.00	.27	5108.17	.034	.47
6.17	.16	5108.16	.031	.43
6.33	.04	5108.13	.027	.37
6.50	.02	5108.11	.022	.31
6.67	.01	5108.09	.019	.26
6.83	.01	5108.08	.016	.22

7.00	.00	5108.06	.013	.18
7.17	.00	5108.05	.011	.15
7.33	.00	5108.04	.009	.13
7.50	.00	5108.04	.007	.11
7.67	.00	5108.03	.006	.09
7.83	.00	5108.02	.005	.07
8.00	.00	5108.02	.004	.06
8.17	.00	5108.01	.003	.05
8.33	.00	5108.01	.002	.04
8.50	.00	5108.01	.002	.03
8.67	.00	5108.01	.001	.03
8.83	.00	5108.00	.001	.02
9.00	.00	5108.00	.001	.02
9.17	.00	5108.00	.000	.02

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.33	.00	5108.00	.000	.01
9.50	.00	5108.00	.000	.01
9.67	.00	5108.00	.000	.01
9.83	.00	5108.00	.000	.01
10.00	.00	5108.00	.000	.01
10.17	.00	5108.00	.000	.01
10.33	.00	5108.00	.000	.01
10.50	.00	5108.00	.000	.01
10.67	.00	5108.00	.000	.01
10.83	.00	5108.00	.000	.01
11.00	.00	5108.00	.000	.01
11.17	.00	5108.00	.000	.01
11.33	.00	5108.00	.000	.01
11.50	.00	5108.00	.000	.01
11.67	.00	5108.00	.000	.01
11.83	.00	5108.00	.000	.01
12.00	.00	5108.00	.000	.01
12.17	.00	5108.00	.000	.01
12.33	.00	5108.00	.000	.01
12.50	.00	5108.00	.000	.01
12.67	.00	5108.00	.000	.01
12.83	.00	5108.00	.000	.01
13.00	.00	5108.00	.000	.01
13.17	.00	5108.00	.000	.01
13.33	.00	5108.00	.000	.01
13.50	.00	5108.00	.000	.01
13.67	.00	5108.00	.000	.01
13.83	.00	5108.00	.000	.01
14.00	.00	5108.00	.000	.01
14.17	.00	5108.00	.000	.01
14.33	.00	5108.00	.000	.01
14.50	.00	5108.00	.000	.01
14.67	.00	5108.00	.000	.01
14.83	.00	5108.00	.000	.01
15.00	.00	5108.00	.000	.01
15.17	.00	5108.00	.000	.01
15.33	.00	5108.00	.000	.01
15.50	.00	5108.00	.000	.01
15.67	.00	5108.00	.000	.01
15.83	.00	5108.00	.000	.01
16.00	.00	5108.00	.000	.01
16.17	.00	5108.00	.000	.01
16.33	.00	5108.00	.000	.01
16.50	.00	5108.00	.000	.01
16.67	.00	5108.00	.000	.01
16.83	.00	5108.00	.000	.01
17.00	.00	5108.00	.000	.01
17.16	.00	5108.00	.000	.01

DEV100

17.33	.00	5108.00	.000	.01
17.50	.00	5108.00	.000	.01
17.66	.00	5108.00	.000	.01
17.83	.00	5108.00	.000	.01
18.00	.00	5108.00	.000	.01
18.16	.00	5108.00	.000	.01
18.33	.00	5108.00	.000	.01
18.50	.00	5108.00	.000	.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	.00	5108.00	.000	.01
18.83	.00	5108.00	.000	.01
19.00	.00	5108.00	.000	.01
19.16	.00	5108.00	.000	.01
19.33	.00	5108.00	.000	.01
19.50	.00	5108.00	.000	.01
19.66	.00	5108.00	.000	.01
19.83	.00	5108.00	.000	.01

PEAK DISCHARGE = 8.013 CFS - PEAK OCCURS AT HOUR 2.10
MAXIMUM WATER SURFACE ELEVATION = 5111.729
MAXIMUM STORAGE = .8689 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=29 CODE=5

HYDROGRAPH FROM AREA 301.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	2.4	7.999	.1		
.167	.0	4.166	2.1	8.166	.0		
.333	.0	4.333	1.7	8.332	.0		
.500	.0	4.500	1.5	8.499	.0		
.667	.0	4.666	1.3	8.666	.0		
.833	.0	4.833	1.1	8.832	.0		
1.000	.0	4.999	.9	8.999	.0		
1.167	.0	5.166	.8	9.166	.0		
1.333	.4	5.333	.7	9.332	.0		
1.500	3.9	5.499	.6	9.499	.0		
1.667	7.0	5.666	.6	9.666	.0		
1.833	7.7	5.833	.5	9.832	.0		
2.000	8.0	5.999	.5	9.999	.0		
2.166	8.0	6.166	.4	10.166	.0		
2.333	7.8	6.333	.4	10.332	.0		
2.500	7.4	6.499	.3	10.499	.0		

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
11.999	.0	15.998	.0				
12.165	.0	16.165	.0				
12.332	.0	16.332	.0				
12.499	.0	16.498	.0				
12.665	.0	16.665	.0				
12.832	.0	16.832	.0				
12.999	.0	16.998	.0				
13.165	.0	17.165	.0				
13.332	.0	17.332	.0				
13.499	.0	17.498	.0				
13.665	.0	17.665	.0				
13.832	.0	17.832	.0				
13.999	.0	17.998	.0				
14.165	.0	18.165	.0				
14.332	.0	18.331	.0				
14.499	.0	18.498	.0				

DEV100

2.666	7.1	6.666	.3	10.666	.0	14.665	.0
2.833	6.6	6.833	.2	10.832	.0	14.832	.0
3.000	6.1	6.999	.2	10.999	.0	14.998	.0
3.166	5.6	7.166	.2	11.166	.0	15.165	.0
3.333	4.8	7.333	.1	11.332	.0	15.332	.0
3.500	4.1	7.499	.1	11.499	.0	15.498	.0
3.666	3.4	7.666	.1	11.665	.0	15.665	.0
3.833	2.9	7.833	.1	11.832	.0	15.832	.0

RUNOFF VOLUME = 1.79654 INCHES = 1.4976 ACRE-FEET
PEAK DISCHARGE RATE = 8.01 CFS AT 2.100 HOURS BASIN AREA = .0156 SQ. MI.

****

*POND 1

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ROUTE RESERVOIR ID=30 HYD=302 INFLOW ID=1 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
0.01	0.0	5110
2.82	0.21	5111
3.31	0.47	5112
3.73	0.77	5113
4.11	1.12	5114

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5110.00	-.001	.00
.17	.00	5110.00	.000	.01
.33	.00	5110.00	.000	.01
.50	.00	5110.00	.000	.01
.67	.00	5110.00	.000	.01
.83	.00	5110.00	.000	.01
1.00	.00	5110.00	.000	.01
1.17	.05	5110.00	.000	.01
1.33	6.08	5110.14	.028	.39
1.50	20.65	5110.94	.197	2.65
1.67	10.47	5111.63	.373	3.13
1.83	6.79	5111.90	.443	3.26
2.00	4.97	5112.03	.478	3.32
2.17	2.26	5112.05	.485	3.33
2.33	1.06	5111.96	.460	3.29

2.50	.66	5111.83	.426	3.23
2.67	.44	5111.69	.390	3.16
2.83	.31	5111.55	.352	3.09
3.00	.23	5111.40	.314	3.02
3.17	.18	5111.25	.275	2.94
3.33	.15	5111.11	.238	2.87
3.50	.14	5110.96	.201	2.70
3.67	.13	5110.80	.168	2.26
3.83	.12	5110.67	.142	1.90
4.00	.11	5110.57	.119	1.60
4.17	.11	5110.48	.100	1.35
4.33	.11	5110.40	.085	1.14
4.50	.11	5110.34	.072	.97
4.67	.11	5110.29	.061	.83
4.83	.11	5110.25	.052	.71
5.00	.12	5110.21	.045	.61
5.17	.12	5110.18	.038	.52
5.33	.12	5110.16	.033	.46
5.50	.13	5110.14	.029	.40
5.67	.13	5110.12	.026	.35
5.83	.14	5110.11	.023	.32
6.00	.14	5110.10	.021	.29
6.17	.06	5110.09	.019	.26
6.33	.02	5110.07	.016	.22
6.50	.01	5110.06	.013	.18
6.67	.00	5110.05	.011	.15
6.83	.00	5110.04	.009	.13
7.00	.00	5110.03	.007	.11
7.17	.00	5110.03	.006	.09
7.33	.00	5110.02	.005	.07
7.50	.00	5110.02	.004	.06
7.67	.00	5110.01	.003	.05
7.83	.00	5110.01	.002	.04
8.00	.00	5110.01	.002	.04
8.17	.00	5110.01	.001	.03
8.33	.00	5110.01	.001	.02
8.50	.00	5110.00	.001	.02
8.67	.00	5110.00	.001	.02
8.83	.00	5110.00	.000	.01
9.00	.00	5110.00	.000	.01
9.17	.00	5110.00	.000	.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.33	.00	5110.00	.000	.01
9.50	.00	5110.00	.000	.01
9.67	.00	5110.00	.000	.01
9.83	.00	5110.00	.000	.01
10.00	.00	5110.00	.000	.01
10.17	.00	5110.00	.000	.01
10.33	.00	5110.00	.000	.01
10.50	.00	5110.00	.000	.01
10.67	.00	5110.00	.000	.01
10.83	.00	5110.00	.000	.01
11.00	.00	5110.00	.000	.01
11.17	.00	5110.00	.000	.01
11.33	.00	5110.00	.000	.01
11.50	.00	5110.00	.000	.01
11.67	.00	5110.00	.000	.01
11.83	.00	5110.00	.000	.01
12.00	.00	5110.00	.000	.01
12.17	.00	5110.00	.000	.01
12.33	.00	5110.00	.000	.01
12.50	.00	5110.00	.000	.01
12.67	.00	5110.00	.000	.01

12.83	.00	5110.00	.000	.01
13.00	.00	5110.00	.000	.01
13.17	.00	5110.00	.000	.01
13.33	.00	5110.00	.000	.01
13.50	.00	5110.00	.000	.01
13.67	.00	5110.00	.000	.01
13.83	.00	5110.00	.000	.01
14.00	.00	5110.00	.000	.01
14.17	.00	5110.00	.000	.01
14.33	.00	5110.00	.000	.01
14.50	.00	5110.00	.000	.01
14.67	.00	5110.00	.000	.01
14.83	.00	5110.00	.000	.01
15.00	.00	5110.00	.000	.01
15.17	.00	5110.00	.000	.01
15.33	.00	5110.00	.000	.01
15.50	.00	5110.00	.000	.01
15.67	.00	5110.00	.000	.01
15.83	.00	5110.00	.000	.01
16.00	.00	5110.00	.000	.01
16.17	.00	5110.00	.000	.01
16.33	.00	5110.00	.000	.01
16.50	.00	5110.00	.000	.01
16.67	.00	5110.00	.000	.01
16.83	.00	5110.00	.000	.01
17.00	.00	5110.00	.000	.01
17.16	.00	5110.00	.000	.01
17.33	.00	5110.00	.000	.01
17.50	.00	5110.00	.000	.01
17.66	.00	5110.00	.000	.01
17.83	.00	5110.00	.000	.01
18.00	.00	5110.00	.000	.01
18.16	.00	5110.00	.000	.01
18.33	.00	5110.00	.000	.01
18.50	.00	5110.00	.000	.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	.00	5110.00	.000	.01
18.83	.00	5110.00	.000	.01
19.00	.00	5110.00	.000	.01
19.16	.00	5110.00	.000	.01
19.33	.00	5110.00	.000	.01
19.50	.00	5110.00	.000	.01
19.66	.00	5110.00	.000	.01
19.83	.00	5110.00	.000	.01

PEAK DISCHARGE = 3.334 CFS - PEAK OCCURS AT HOUR 2.10
MAXIMUM WATER SURFACE ELEVATION = 5112.057
MAXIMUM STORAGE = .4869 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=30 CODE=5

HYDROGRAPH FROM AREA 302.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	1.6	7.999	.0
11.999	.0	15.998	.0		
.167	.0	4.166	1.4	8.166	.0
12.165	.0	16.165	.0		
.333	.0	4.333	1.1	8.332	.0

DEV10

12.665	.0	16.665	.0				
.833	.0	4.833	.3	8.832	.0		
12.832	.0	16.832	.0				
1.000	.0	4.999	.2	8.999	.0		
12.999	.0	16.998	.0				
1.167	.0	5.166	.2	9.166	.0		
13.165	.0	17.165	.0				
1.333	.2	5.333	.2	9.332	.0		
13.332	.0	17.332	.0				
1.500	1.6	5.499	.2	9.499	.0		
13.499	.0	17.498	.0				
1.667	2.9	5.666	.1	9.666	.0		
13.665	.0	17.665	.0				
1.833	2.9	5.833	.1	9.832	.0		
13.832	.0	17.832	.0				
2.000	2.9	5.999	.1	9.999	.0		
13.999	.0	17.998	.0				
2.166	2.9	6.166	.1	10.166	.0		
14.165	.0	18.165	.0				
2.333	2.9	6.333	.1	10.332	.0		
14.332	.0	18.331	.0				
2.500	2.8	6.499	.1	10.499	.0		
14.499	.0	18.498	.0				
2.666	2.3	6.666	.1	10.666	.0		
14.665	.0	18.665	.0				
2.833	2.0	6.833	.1	10.832	.0		
14.832	.0	18.831	.0				
3.000	1.7	6.999	.0	10.999	.0		
14.998	.0	18.998	.0				
3.166	1.4	7.166	.0	11.166	.0		
15.165	.0	19.165	.0				
3.333	1.2	7.333	.0	11.332	.0		
15.332	.0	19.331	.0				
3.500	1.0	7.499	.0	11.499	.0		
15.498	.0	19.498	.0				
3.666	.8	7.666	.0	11.665	.0		
15.665	.0	19.665	.0				
3.833	.7	7.833	.0	11.832	.0		
15.832	.0	19.831	.0				

RUNOFF VOLUME = 1.16169 INCHES = .4833 ACRE-FEET
PEAK DISCHARGE RATE = 2.94 CFS AT 2.033 HOURS BASIN AREA = .0078 SQ. MI.

****

*S ADD OFFSITE POND AND POND 1

ADD HYD ID=31 HYDNO=303

ID=29 ID=30

PRINT HYD ID=31 CODE=5

HYDROGRAPH FROM AREA 303.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	1.7	7.999	.0
11.999	.0	15.998	.0		
.167	.0	4.166	1.4	8.166	.0

DEV10

12.165	.0	16.165	.0				
.333	.0	4.333	1.2	8.332	.0		
12.332	.0	16.332	.0				
.500	.0	4.500	1.0	8.499	.0		
12.499	.0	16.498	.0				
.667	.0	4.666	.9	8.666	.0		
12.665	.0	16.665	.0				
.833	.0	4.833	.7	8.832	.0		
12.832	.0	16.832	.0				
1.000	.0	4.999	.6	8.999	.0		
12.999	.0	16.998	.0				
1.167	.0	5.166	.6	9.166	.0		
13.165	.0	17.165	.0				
1.333	.3	5.333	.5	9.332	.0		
13.332	.0	17.332	.0				
1.500	3.9	5.499	.4	9.499	.0		
13.499	.0	17.498	.0				
1.667	8.2	5.666	.4	9.666	.0		
13.665	.0	17.665	.0				
1.833	8.8	5.833	.4	9.832	.0		
13.832	.0	17.832	.0				
2.000	9.0	5.999	.4	9.999	.0		
13.999	.0	17.998	.0				
2.166	9.0	6.166	.3	10.166	.0		
14.165	.0	18.165	.0				
2.333	8.6	6.333	.3	10.332	.0		
14.332	.0	18.331	.0				
2.500	8.0	6.499	.2	10.499	.0		
14.499	.0	18.498	.0				
2.666	6.9	6.666	.2	10.666	.0		
14.665	.0	18.665	.0				
2.833	5.8	6.833	.2	10.832	.0		
14.832	.0	18.831	.0				
3.000	4.9	6.999	.1	10.999	.0		
14.998	.0	18.998	.0				
3.166	4.1	7.166	.1	11.166	.0		
15.165	.0	19.165	.0				
3.333	3.5	7.333	.1	11.332	.0		
15.332	.0	19.331	.0				
3.500	2.9	7.499	.1	11.499	.0		
15.498	.0	19.498	.0				
3.666	2.4	7.666	.1	11.665	.0		
15.665	.0	19.665	.0				
3.833	2.0	7.833	.1	11.832	.0		
15.832	.0	19.831	.0				

RUNOFF VOLUME = 1.12505 INCHES = 1.4059 ACRE-FEET
PEAK DISCHARGE RATE = 9.03 CFS AT 2.066 HOURS BASIN AREA = .0234 SQ. MI.

****

*POND 3

****

ROUTE RESERVOIR ID=32 HYD=304 INFLOW ID=3 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
2.29	0.0	5111

2.89	0.28	5112
3.39	0.62	5113
3.83	1.01	5114
4.22	1.20	5115

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

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5107.18	-1.069	.00
.17	.00	5111.00	.000	2.29
.33	.00	5111.00	.000	2.29
.50	.00	5111.00	.000	2.29
.67	.00	5111.00	.000	2.29
.83	.00	5111.00	.000	2.29
1.00	.00	5111.00	.000	2.29
1.17	.00	5111.00	.000	2.29
1.33	3.60	5111.00	.000	2.29
1.50	14.05	5111.32	.090	2.48
1.67	7.06	5111.72	.201	2.72
1.83	4.61	5111.86	.240	2.80
2.00	3.38	5111.91	.256	2.84
2.17	1.50	5111.90	.252	2.83
2.33	.67	5111.81	.227	2.78
2.50	.39	5111.70	.196	2.71
2.67	.24	5111.58	.163	2.64
2.83	.15	5111.46	.130	2.57
3.00	.10	5111.35	.097	2.50
3.17	.07	5111.23	.064	2.43
3.33	.05	5111.11	.032	2.36
3.50	.04	5111.00	.001	2.29
3.67	.04	5111.00	.000	2.29
3.83	.03	5111.00	.000	2.29
4.00	.03	5111.00	.000	2.29
4.17	.04	5111.00	.000	2.29
4.33	.04	5111.00	.000	2.29
4.50	.04	5111.00	.000	2.29
4.67	.05	5111.00	.000	2.29
4.83	.05	5111.00	.000	2.29
5.00	.06	5111.00	.000	2.29
5.17	.06	5111.00	.000	2.29
5.33	.07	5111.00	.000	2.29
5.50	.08	5111.00	.000	2.29
5.67	.08	5111.00	.000	2.29
5.83	.09	5111.00	.000	2.29
6.00	.10	5111.00	.000	2.29
6.17	.04	5111.00	.000	2.29
6.33	.01	5111.00	.000	2.29
6.50	.00	5111.00	.000	2.29
6.67	.00	5111.00	.000	2.29
6.83	.00	5111.00	.000	2.29
7.00	.00	5111.00	.000	2.29
7.17	.00	5111.00	.000	2.29
7.33	.00	5111.00	.000	2.29
7.50	.00	5111.00	.000	2.29
7.67	.00	5111.00	.000	2.29
7.83	.00	5111.00	.000	2.29
8.00	.00	5111.00	.000	2.29
8.17	.00	5111.00	.000	2.29
8.33	.00	5111.00	.000	2.29
8.50	.00	5111.00	.000	2.29

8.67	.00	5111.00	.000	2.29
8.83	.00	5111.00	.000	2.29
9.00	.00	5111.00	.000	2.29
9.17	.00	5111.00	.000	2.29

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.33	.00	5111.00	.000	2.29
9.50	.00	5111.00	.000	2.29
9.67	.00	5111.00	.000	2.29
9.83	.00	5111.00	.000	2.29
10.00	.00	5111.00	.000	2.29
10.17	.00	5111.00	.000	2.29
10.33	.00	5111.00	.000	2.29
10.50	.00	5111.00	.000	2.29
10.67	.00	5111.00	.000	2.29
10.83	.00	5111.00	.000	2.29
11.00	.00	5111.00	.000	2.29
11.17	.00	5111.00	.000	2.29
11.33	.00	5111.00	.000	2.29
11.50	.00	5111.00	.000	2.29
11.67	.00	5111.00	.000	2.29
11.83	.00	5111.00	.000	2.29
12.00	.00	5111.00	.000	2.29
12.17	.00	5111.00	.000	2.29
12.33	.00	5111.00	.000	2.29
12.50	.00	5111.00	.000	2.29
12.67	.00	5111.00	.000	2.29
12.83	.00	5111.00	.000	2.29
13.00	.00	5111.00	.000	2.29
13.17	.00	5111.00	.000	2.29
13.33	.00	5111.00	.000	2.29
13.50	.00	5111.00	.000	2.29
13.67	.00	5111.00	.000	2.29
13.83	.00	5111.00	.000	2.29
14.00	.00	5111.00	.000	2.29
14.17	.00	5111.00	.000	2.29
14.33	.00	5111.00	.000	2.29
14.50	.00	5111.00	.000	2.29
14.67	.00	5111.00	.000	2.29
14.83	.00	5111.00	.000	2.29
15.00	.00	5111.00	.000	2.29
15.17	.00	5111.00	.000	2.29
15.33	.00	5111.00	.000	2.29
15.50	.00	5111.00	.000	2.29
15.67	.00	5111.00	.000	2.29
15.83	.00	5111.00	.000	2.29
16.00	.00	5111.00	.000	2.29
16.17	.00	5111.00	.000	2.29
16.33	.00	5111.00	.000	2.29
16.50	.00	5111.00	.000	2.29
16.67	.00	5111.00	.000	2.29
16.83	.00	5111.00	.000	2.29
17.00	.00	5111.00	.000	2.29
17.16	.00	5111.00	.000	2.29
17.33	.00	5111.00	.000	2.29
17.50	.00	5111.00	.000	2.29
17.66	.00	5111.00	.000	2.29
17.83	.00	5111.00	.000	2.29
18.00	.00	5111.00	.000	2.29
18.16	.00	5111.00	.000	2.29
18.33	.00	5111.00	.000	2.29
18.50	.00	5111.00	.000	2.29

TIME INFLOW ELEV VOLUME OUTFLOW

DEV10

(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)
18.66	.00	5111.00	.000	2.29
18.83	.00	5111.00	.000	2.29
19.00	.00	5111.00	.000	2.29
19.16	.00	5111.00	.000	2.29
19.33	.00	5111.00	.000	2.29
19.50	.00	5111.00	.000	2.29
19.66	.00	5111.00	.000	2.29
19.83	.00	5111.00	.000	2.29

PEAK DISCHARGE = 2.841 CFS - PEAK OCCURS AT HOUR 2.07
MAXIMUM WATER SURFACE ELEVATION = 5111.919
MAXIMUM STORAGE = .2573 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=32 CODE=5

HYDROGRAPH FROM AREA 304.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	2.3	7.999	2.3
.167	2.3	4.166	2.3	8.166	2.3
.333	2.3	4.333	2.3	8.332	2.3
.500	2.3	4.500	2.3	8.499	2.3
.667	2.3	4.666	2.3	8.666	2.3
.833	2.3	4.833	2.3	8.832	2.3
1.000	2.3	4.999	2.3	8.999	2.3
1.167	2.3	5.166	2.3	9.166	2.3
1.333	2.3	5.333	2.3	9.332	2.3
1.500	2.5	5.499	2.3	9.499	2.3
1.667	2.7	5.666	2.3	9.666	2.3
1.833	2.8	5.833	2.3	9.832	2.3
2.000	2.8	5.999	2.3	9.999	2.3
2.166	2.8	6.166	2.3	10.166	2.3
2.333	2.8	6.333	2.3	10.332	2.3
2.500	2.7	6.499	2.3	10.499	2.3
2.666	2.6	6.666	2.3	10.666	2.3
2.833	2.6	6.833	2.3	10.832	2.3
3.000	2.5	6.999	2.3	10.999	2.3
3.166	2.4	7.166	2.3	11.166	2.3
3.333	2.4	7.333	2.3	11.332	2.3

DEV10

3.500	2.3	7.499	2.3	11.499	2.3	15.498	2.3
19.498	2.3						
3.666	2.3	7.666	2.3	11.665	2.3	15.665	2.3
19.665	2.3						
3.833	2.3	7.833	2.3	11.832	2.3	15.832	2.3
19.831	2.3						

RUNOFF VOLUME = 8.63458 INCHES = 3.8360 ACRE-FEET
PEAK DISCHARGE RATE = 2.84 CFS AT 2.066 HOURS BASIN AREA = .0083 SQ. MI.

****

*S ADD HYD 303 AND POND 3

ADD HYD ID=34 HYDNO=306

ID=31 ID=32

PRINT HYD ID=34 CODE=5

HYDROGRAPH FROM AREA 306.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	4.0	7.999	2.3	11.999	2.3
15.998	2.3						
.167	2.3	4.166	3.7	8.166	2.3	12.165	2.3
16.165	2.3						
.333	2.3	4.333	3.5	8.332	2.3	12.332	2.3
16.332	2.3						
.500	2.3	4.500	3.3	8.499	2.3	12.499	2.3
16.498	2.3						
.667	2.3	4.666	3.2	8.666	2.3	12.665	2.3
16.665	2.3						
.833	2.3	4.833	3.0	8.832	2.3	12.832	2.3
16.832	2.3						
1.000	2.3	4.999	2.9	8.999	2.3	12.999	2.3
16.998	2.3						
1.167	2.3	5.166	2.8	9.166	2.3	13.165	2.3
17.165	2.3						
1.333	2.6	5.333	2.8	9.332	2.3	13.332	2.3
17.332	2.3						
1.500	6.4	5.499	2.7	9.499	2.3	13.499	2.3
17.498	2.3						
1.667	11.0	5.666	2.7	9.666	2.3	13.665	2.3
17.665	2.3						
1.833	11.6	5.833	2.7	9.832	2.3	13.832	2.3
17.832	2.3						
2.000	11.9	5.999	2.6	9.999	2.3	13.999	2.3
17.998	2.3						
2.166	11.8	6.166	2.6	10.166	2.3	14.165	2.3
18.165	2.3						
2.333	11.4	6.333	2.6	10.332	2.3	14.332	2.3
18.331	2.3						
2.500	10.7	6.499	2.5	10.499	2.3	14.499	2.3
18.498	2.3						
2.666	9.5	6.666	2.5	10.666	2.3	14.665	2.3
18.665	2.3						
2.833	8.4	6.833	2.5	10.832	2.3	14.832	2.3
18.831	2.3						

3.000	7.4	6.999	2.4	10.999	2.3	14.998	2.3
18.998	2.3						
3.166	6.5	7.166	2.4	11.166	2.3	15.165	2.3
19.165	2.3						
3.333	5.8	7.333	2.4	11.332	2.3	15.332	2.3
19.331	2.3						
3.500	5.2	7.499	2.4	11.499	2.3	15.498	2.3
19.498	2.3						
3.666	4.7	7.666	2.4	11.665	2.3	15.665	2.3
19.665	2.3						
3.833	4.3	7.833	2.3	11.832	2.3	15.832	2.3
19.831	2.3						

RUNOFF VOLUME = 3.09468 INCHES = 5.2419 ACRE-FEET
PEAK DISCHARGE RATE = 11.88 CFS AT 2.066 HOURS BASIN AREA = .0318 SQ. MI.

****

*S ADD B1 AND B2

ADD HYD ID=36 HYDNO=308

ID=11 ID=12

PRINT HYD ID=36 CODE=5

HYDROGRAPH FROM AREA 308.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	1.1	2.666	.1	4.000	.0
5.333	.0						
.167	.0	1.500	4.5	2.833	.0	4.166	.0
5.499	.0						
.333	.0	1.667	2.3	3.000	.0	4.333	.0
5.666	.0						
.500	.0	1.833	1.5	3.166	.0	4.500	.0
5.833	.0						
.667	.0	2.000	1.1	3.333	.0	4.666	.0
5.999	.0						
.833	.0	2.166	.5	3.500	.0	4.833	.0
6.166	.0						
1.000	.0	2.333	.2	3.666	.0	4.999	.0
6.333	.0						
1.167	.0	2.500	.1	3.833	.0	5.166	.0

RUNOFF VOLUME = 1.14426 INCHES = .1574 ACRE-FEET
PEAK DISCHARGE RATE = 4.49 CFS AT 1.500 HOURS BASIN AREA = .0026 SQ. MI.

****

*S ADD HYD 308 AND B3

ADD HYD ID=37 HYDNO=309

ID=36 ID=13

PRINT HYD ID=37 CODE=5

HYDROGRAPH FROM AREA 309.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.333	1.9	2.666	.1
.167	.0	1.500	7.7	2.833	.1
.333	.0	1.667	3.8	3.000	.0
.500	.0	1.833	2.5	3.166	.0
.667	.0	2.000	1.8	3.333	.0
.833	.0	2.166	.8	3.500	.0
1.000	.0	2.333	.4	3.666	.0
1.167	.0	2.500	.2	3.833	.0

RUNOFF VOLUME = 1.12321 INCHES = .2684 ACRE-FEET
PEAK DISCHARGE RATE = 7.66 CFS AT 1.500 HOURS BASIN AREA = .0045 SQ. MI.

****

*S ADD B5 AND B6

ADD HYD ID=38 HYDNO=310

ID=15 ID=16

PRINT HYD ID=38 CODE=5

HYDROGRAPH FROM AREA 310.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	19.5	3.000	.2
.167	.0	1.667	11.4	3.166	.1
.333	.0	1.833	7.1	3.333	.1
.500	.0	2.000	5.2	3.500	.1
.667	.0	2.166	2.6	3.666	.1
.833	.0	2.333	1.2	3.833	.1
1.000	.0	2.500	.7	4.000	.1
1.167	.0	2.666	.4	4.166	.1

DEV10

1.333	4.3	2.833	.3	4.333	.1	5.833	.1

RUNOFF VOLUME = 1.12412 INCHES = .7386 ACRE-FEET
PEAK DISCHARGE RATE = 19.60 CFS AT 1.533 HOURS BASIN AREA = .0123 SQ. MI.

****

*S ADD HYD 309 AND HYD 310

ADD HYD ID=39 HYDNO=311

ID=37 ID=38

PRINT HYD ID=39 CODE=5

HYDROGRAPH FROM AREA 311.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	27.2	3.000	.2	4.500	.1
.167	.0	1.667	15.3	3.166	.1	4.666	.1
.333	.0	1.833	9.6	3.333	.1	4.833	.1
.500	.0	2.000	7.0	3.500	.1	4.999	.1
.667	.0	2.166	3.4	3.666	.1	5.166	.1
.833	.0	2.333	1.5	3.833	.1	5.333	.1
1.000	.0	2.500	.9	4.000	.1	5.499	.2
1.167	.0	2.666	.5	4.166	.1	5.666	.2
1.333	6.2	2.833	.3	4.333	.1	5.833	.2

RUNOFF VOLUME = 1.12388 INCHES = 1.0070 ACRE-FEET
PEAK DISCHARGE RATE = 27.17 CFS AT 1.500 HOURS BASIN AREA = .0168 SQ. MI.

****

*POND 5

****

ROUTE RESERVOIR ID=40 HYD=312 INFLOW ID=39 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
0.00	0.00	5108
5.44	0.13	5109

6.66	0.29	5110
7.69	0.48	5111
8.60	0.70	5112
9.42	0.96	5113
9.80	1.10	5113.5

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

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5108.00	.000	.00
.17	.00	5108.00	.000	.00
.33	.00	5108.00	.000	.00
.50	.00	5108.00	.000	.00
.67	.00	5108.00	.000	.00
.83	.00	5108.00	.000	.00
1.00	.00	5108.00	.000	.00
1.17	.00	5108.00	.000	.00
1.33	6.19	5108.15	.020	.82
1.50	27.17	5109.45	.202	5.99
1.67	15.28	5110.65	.413	7.33
1.83	9.56	5110.96	.473	7.65
2.00	7.02	5111.00	.480	7.69
2.17	3.43	5110.84	.450	7.53
2.33	1.51	5110.47	.380	7.15
2.50	.89	5110.06	.301	6.72
2.67	.54	5109.57	.222	6.14
2.83	.34	5109.11	.147	5.57
3.00	.22	5108.66	.086	3.60
3.17	.14	5108.39	.050	2.10
3.33	.10	5108.23	.029	1.23
3.50	.08	5108.13	.017	.73
3.67	.07	5108.08	.011	.45
3.83	.07	5108.05	.007	.28
4.00	.07	5108.03	.005	.19
4.17	.07	5108.03	.003	.14
4.33	.08	5108.02	.003	.11
4.50	.09	5108.02	.002	.10
4.67	.09	5108.02	.002	.09
4.83	.10	5108.02	.002	.09
5.00	.11	5108.02	.002	.10
5.17	.12	5108.02	.003	.11
5.33	.14	5108.02	.003	.12
5.50	.15	5108.02	.003	.13
5.67	.16	5108.03	.003	.14
5.83	.18	5108.03	.004	.15
6.00	.19	5108.03	.004	.17
6.17	.09	5108.03	.004	.16
6.33	.02	5108.02	.003	.11
6.50	.01	5108.01	.002	.07
6.67	.00	5108.01	.001	.04
6.83	.00	5108.00	.001	.02
7.00	.00	5108.00	.000	.01
7.17	.00	5108.00	.000	.01
7.33	.00	5108.00	.000	.00

PEAK DISCHARGE = 7.696 CFS - PEAK OCCURS AT HOUR 1.93
MAXIMUM WATER SURFACE ELEVATION = 5111.006
MAXIMUM STORAGE = .4814 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=40 CODE=5

HYDROGRAPH FROM AREA 312.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.667	7.3	3.333	1.2
4.999	.1	6.666	.0		
.167	.0	1.833	7.7	3.500	.7
5.166	.1	6.833	.0		
.333	.0	2.000	7.7	3.666	.4
5.333	.1	6.999	.0		
.500	.0	2.166	7.5	3.833	.3
5.499	.1	7.166	.0		
.667	.0	2.333	7.1	4.000	.2
5.666	.1	7.333	.0		
.833	.0	2.500	6.7	4.166	.1
5.833	.2	7.499	.0		
1.000	.0	2.666	6.1	4.333	.1
5.999	.2	7.666	.0		
1.167	.0	2.833	5.6	4.500	.1
6.166	.2				
1.333	.8	3.000	3.6	4.666	.1
6.333	.1				
1.500	6.0	3.166	2.1	4.833	.1
6.499	.1				

RUNOFF VOLUME = 1.12388 INCHES = 1.0070 ACRE-FEET
PEAK DISCHARGE RATE = 7.70 CFS AT 1.933 HOURS BASIN AREA = .0168 SQ. MI.

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*S ADD HYD 306 AND POND 5

ADD HYD ID=42 HYDNO=320

ID=34 ID=40

PRINT HYD ID=42 CODE=5

HYDROGRAPH FROM AREA 320.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	4.2	7.999	2.3
11.999	2.3	15.998	2.3		
.167	2.3	4.166	3.9	8.166	2.3
12.165	2.3	16.165	2.3		
.333	2.3	4.333	3.6	8.332	2.3
12.332	2.3	16.332	2.3		
.500	2.3	4.500	3.4	8.499	2.3
12.499	2.3	16.498	2.3		
.667	2.3	4.666	3.2	8.666	2.3
12.665	2.3	16.665	2.3		
.833	2.3	4.833	3.1	8.832	2.3
12.832	2.3	16.832	2.3		

1.000	2.3	4.999	3.0	8.999	2.3
12.999	2.3	16.998	2.3		
1.167	2.3	5.166	3.0	9.166	2.3
13.165	2.3	17.165	2.3		
1.333	3.4	5.333	2.9	9.332	2.3
13.332	2.3	17.332	2.3		
1.500	12.4	5.499	2.9	9.499	2.3
13.499	2.3	17.498	2.3		
1.667	18.3	5.666	2.8	9.666	2.3
13.665	2.3	17.665	2.3		
1.833	19.3	5.833	2.8	9.832	2.3
13.832	2.3	17.832	2.3		
2.000	19.6	5.999	2.8	9.999	2.3
13.999	2.3	17.998	2.3		
2.166	19.3	6.166	2.8	10.166	2.3
14.165	2.3	18.165	2.3		
2.333	18.5	6.333	2.7	10.332	2.3
14.332	2.3	18.331	2.3		
2.500	17.5	6.499	2.6	10.499	2.3
14.499	2.3	18.498	2.3		
2.666	15.6	6.666	2.5	10.666	2.3
14.665	2.3	18.665	2.3		
2.833	13.9	6.833	2.5	10.832	2.3
14.832	2.3	18.831	2.3		
3.000	11.0	6.999	2.4	10.999	2.3
14.998	2.3	18.998	2.3		
3.166	8.6	7.166	2.4	11.166	2.3
15.165	2.3	19.165	2.3		
3.333	7.0	7.333	2.4	11.332	2.3
15.332	2.3	19.331	2.3		
3.500	5.9	7.499	2.4	11.499	2.3
15.498	2.3	19.498	2.3		
3.666	5.2	7.666	2.4	11.665	2.3
15.665	2.3	19.665	2.3		
3.833	4.6	7.833	2.3	11.832	2.3
15.832	2.3	19.831	2.3		

RUNOFF VOLUME = 2.41285 INCHES = 6.2489 ACRE-FEET
PEAK DISCHARGE RATE = 19.55 CFS AT 2.000 HOURS BASIN AREA = .0486 SQ. MI.

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*S ADD HYD 320 AND B7

ADD HYD ID=43 HYDNO=321

ID=42 ID=17

PRINT HYD ID=43 CODE=5

HYDROGRAPH FROM AREA 321.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	4.2	7.999	2.3
11.999	2.3	15.998	2.3		
.167	2.3	4.166	3.9	8.166	2.3
12.165	2.3	16.165	2.3		
.333	2.3	4.333	3.6	8.332	2.3
12.332	2.3	16.332	2.3		

.500	2.3	4.500	3.4	8.499	2.3	12.499	2.3
16.498	2.3	.667	2.3	4.666	3.3	8.666	2.3
12.665	2.3	16.665	2.3	.833	2.3	4.833	3.1
8.832	2.3	12.832	2.3	16.832	2.3	1.000	2.3
4.999	3.0	8.999	2.3	12.999	2.3	16.998	2.3
1.167	2.3	5.166	3.0	9.166	2.3	13.165	2.3
17.165	2.3	1.333	4.2	5.333	2.9	9.332	2.3
13.332	2.3	17.332	2.3	1.500	15.5	5.499	2.9
9.499	2.3	13.499	2.3	17.498	2.3	1.667	19.8
5.666	2.9	9.666	2.3	13.665	2.3	17.665	2.3
1.833	20.3	5.833	2.8	9.832	2.3	13.832	2.3
17.832	2.3	2.000	20.3	5.999	2.8	9.999	2.3
13.999	2.3	17.998	2.3	2.166	19.6	6.166	2.8
10.166	2.3	14.165	2.3	18.165	2.3	2.333	18.7
6.333	2.7	10.332	2.3	14.332	2.3	18.331	2.3
2.500	17.5	6.499	2.6	10.499	2.3	14.499	2.3
18.498	2.3	2.666	15.7	6.666	2.5	10.666	2.3
14.665	2.3	18.665	2.3	2.833	14.0	6.833	2.5
10.832	2.3	14.832	2.3	18.831	2.3	3.000	11.0
6.999	2.4	10.999	2.3	14.998	2.3	18.998	2.3
3.166	8.7	7.166	2.4	11.166	2.3	15.165	2.3
19.165	2.3	3.333	7.1	7.333	2.4	11.332	2.3
15.332	2.3	19.331	2.3	3.500	5.9	7.499	2.4
11.499	2.3	15.498	2.3	19.498	2.3	3.666	5.2
7.666	2.4	11.665	2.3	15.665	2.3	19.665	2.3
3.833	4.6	7.833	2.3	11.832	2.3	15.832	2.3
19.831	2.3						

RUNOFF VOLUME = 2.36894 INCHES = 6.3576 ACRE-FEET
PEAK DISCHARGE RATE = 20.34 CFS AT 1.900 HOURS BASIN AREA = .0503 SQ. MI.

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*S ADD HYD 321 AND B8

ADD HYD ID=44 HYDNO=322

ID=43 ID=18

PRINT HYD ID=44 CODE=5

HYDROGRAPH FROM AREA 322.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS

```
      .000        .0        4.000       4.2        7.999       2.3
11.999       2.3       15.998       2.3
      .167       2.3        4.166       3.9        8.166       2.3
12.165       2.3       16.165       2.3
      .333       2.3        4.333       3.6        8.332       2.3
12.332       2.3       16.332       2.3
      .500       2.3        4.500       3.4        8.499       2.3
12.499       2.3       16.498       2.3
      .667       2.3        4.666       3.3        8.666       2.3
12.665       2.3       16.665       2.3
      .833       2.3        4.833       3.2        8.832       2.3
12.832       2.3       16.832       2.3
     1.000       2.3        4.999       3.1        8.999       2.3
12.999       2.3       16.998       2.3
     1.167       2.3        5.166       3.0        9.166       2.3
13.165       2.3       17.165       2.3
     1.333       5.3        5.333       2.9        9.332       2.3
13.332       2.3       17.332       2.3
     1.500      19.9        5.499       2.9        9.499       2.3
13.499       2.3       17.498       2.3
     1.667      22.0        5.666       2.9        9.666       2.3
13.665       2.3       17.665       2.3
     1.833      21.7        5.833       2.9        9.832       2.3
13.832       2.3       17.832       2.3
     2.000      21.3        5.999       2.9        9.999       2.3
13.999       2.3       17.998       2.3
     2.166      20.1        6.166       2.8       10.166       2.3
14.165       2.3       18.165       2.3
     2.333      18.9        6.333       2.7       10.332       2.3
14.332       2.3       18.331       2.3
     2.500      17.7        6.499       2.6       10.499       2.3
14.499       2.3       18.498       2.3
     2.666      15.7        6.666       2.5       10.666       2.3
14.665       2.3       18.665       2.3
     2.833      14.0        6.833       2.5       10.832       2.3
14.832       2.3       18.831       2.3
     3.000      11.0        6.999       2.4       10.999       2.3
14.998       2.3       18.998       2.3
     3.166       8.7        7.166       2.4       11.166       2.3
15.165       2.3       19.165       2.3
     3.333       7.1        7.333       2.4       11.332       2.3
15.332       2.3       19.331       2.3
     3.500       5.9        7.499       2.4       11.499       2.3
15.498       2.3       19.498       2.3
     3.666       5.2        7.666       2.4       11.665       2.3
15.665       2.3       19.665       2.3
     3.833       4.6        7.833       2.3       11.832       2.3
15.832       2.3       19.831       2.3

    RUNOFF VOLUME =      2.31183 INCHES      =       6.5113 ACRE-FEET
    PEAK DISCHARGE RATE =       22.05 CFS  AT   1.667 HOURS   BASIN AREA =
.0528 SQ. MI.


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*S ADD HYD 322 AND B9

ADD HYD                ID=45 HYDNO=323

                       ID=44 ID=19

PRINT HYD              ID=45 CODE=5
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DEV10

HYDROGRAPH FROM AREA 323.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	4.2	7.999	2.3
11.999	2.3	15.998	2.3		
.167	2.3	4.166	3.9	8.166	2.3
12.165	2.3	16.165	2.3		
.333	2.3	4.333	3.7	8.332	2.3
12.332	2.3	16.332	2.3		
.500	2.3	4.500	3.5	8.499	2.3
12.499	2.3	16.498	2.3		
.667	2.3	4.666	3.3	8.666	2.3
12.665	2.3	16.665	2.3		
.833	2.3	4.833	3.2	8.832	2.3
12.832	2.3	16.832	2.3		
1.000	2.3	4.999	3.1	8.999	2.3
12.999	2.3	16.998	2.3		
1.167	2.3	5.166	3.0	9.166	2.3
13.165	2.3	17.165	2.3		
1.333	8.5	5.333	3.0	9.332	2.3
13.332	2.3	17.332	2.3		
1.500	32.5	5.499	3.0	9.499	2.3
13.499	2.3	17.498	2.3		
1.667	28.4	5.666	2.9	9.666	2.3
13.665	2.3	17.665	2.3		
1.833	25.8	5.833	2.9	9.832	2.3
13.832	2.3	17.832	2.3		
2.000	24.3	5.999	2.9	9.999	2.3
13.999	2.3	17.998	2.3		
2.166	21.4	6.166	2.8	10.166	2.3
14.165	2.3	18.165	2.3		
2.333	19.5	6.333	2.7	10.332	2.3
14.332	2.3	18.331	2.3		
2.500	18.0	6.499	2.6	10.499	2.3
14.499	2.3	18.498	2.3		
2.666	16.0	6.666	2.5	10.666	2.3
14.665	2.3	18.665	2.3		
2.833	14.2	6.833	2.5	10.832	2.3
14.832	2.3	18.831	2.3		
3.000	11.1	6.999	2.4	10.999	2.3
14.998	2.3	18.998	2.3		
3.166	8.7	7.166	2.4	11.166	2.3
15.165	2.3	19.165	2.3		
3.333	7.1	7.333	2.4	11.332	2.3
15.332	2.3	19.331	2.3		
3.500	6.0	7.499	2.4	11.499	2.3
15.498	2.3	19.498	2.3		
3.666	5.2	7.666	2.4	11.665	2.3
15.665	2.3	19.665	2.3		
3.833	4.6	7.833	2.3	11.832	2.3
15.832	2.3	19.831	2.3		

RUNOFF VOLUME = 2.17108 INCHES = 6.9543 ACRE-FEET
PEAK DISCHARGE RATE = 33.21 CFS AT 1.533 HOURS BASIN AREA = .0601 SQ. MI.

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*POND 6 (UNDERGROUND)

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ROUTE RESERVOIR ID=46 HYD=324 INFLOW ID=45 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
0.01	0.0	5101
12.23	0.16	5103
20.70	0.40	5105
26.59	0.63	5107
29.10	0.72	5108
31.40	0.74	5108.5

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5101.00	.000	.00
.17	2.31	5101.23	.018	1.42
.33	2.31	5101.33	.026	2.00
.50	2.31	5101.36	.029	2.20
.67	2.31	5101.37	.030	2.27
.83	2.31	5101.37	.030	2.30
1.00	2.31	5101.38	.030	2.31
1.17	2.31	5101.38	.030	2.31
1.33	8.54	5101.60	.048	3.67
1.50	32.48	5103.44	.213	14.11
1.67	28.37	5104.97	.397	20.58
1.83	25.83	5105.60	.469	22.46
2.00	24.34	5105.86	.498	23.22
2.17	21.44	5105.84	.496	23.17
2.33	19.47	5105.55	.463	22.31
2.50	18.00	5105.18	.421	21.24
2.67	15.96	5104.77	.372	19.71
2.83	14.15	5104.33	.320	17.88
3.00	11.13	5103.86	.263	15.85
3.17	8.73	5103.30	.196	13.51
3.33	7.11	5102.71	.137	10.46
3.50	5.97	5102.28	.102	7.82
3.67	5.21	5102.03	.082	6.31
3.83	4.65	5101.88	.070	5.37
4.00	4.23	5101.77	.062	4.73
4.17	3.91	5101.70	.056	4.28
4.33	3.66	5101.64	.051	3.94
4.50	3.47	5101.60	.048	3.68
4.67	3.31	5101.57	.045	3.48
4.83	3.20	5101.54	.043	3.33
5.00	3.11	5101.52	.042	3.21
5.17	3.04	5101.51	.041	3.12
5.33	3.00	5101.50	.040	3.05
5.50	2.97	5101.49	.039	3.00
5.67	2.95	5101.48	.039	2.97
5.83	2.94	5101.48	.039	2.96
6.00	2.95	5101.48	.038	2.95
6.17	2.84	5101.48	.038	2.92
6.33	2.70	5101.46	.037	2.81
6.50	2.61	5101.44	.035	2.71
6.67	2.54	5101.43	.034	2.61

6.83	2.49	5101.42	.033	2.54
7.00	2.45	5101.41	.032	2.49
7.17	2.42	5101.40	.032	2.45
7.33	2.39	5101.39	.032	2.42
7.50	2.37	5101.39	.031	2.39
7.67	2.36	5101.39	.031	2.38
7.83	2.35	5101.38	.031	2.36
8.00	2.34	5101.38	.031	2.35
8.17	2.33	5101.38	.030	2.34
8.33	2.32	5101.38	.030	2.33
8.50	2.32	5101.38	.030	2.32
8.67	2.31	5101.38	.030	2.32
8.83	2.31	5101.38	.030	2.31
9.00	2.31	5101.38	.030	2.31
9.17	2.31	5101.38	.030	2.31

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.33	2.31	5101.38	.030	2.31
9.50	2.31	5101.38	.030	2.31
9.67	2.31	5101.38	.030	2.31
9.83	2.31	5101.38	.030	2.31
10.00	2.31	5101.38	.030	2.31
10.17	2.31	5101.38	.030	2.31
10.33	2.31	5101.38	.030	2.31
10.50	2.31	5101.38	.030	2.31
10.67	2.31	5101.38	.030	2.31
10.83	2.31	5101.38	.030	2.31
11.00	2.31	5101.38	.030	2.31
11.17	2.31	5101.38	.030	2.31
11.33	2.31	5101.38	.030	2.31
11.50	2.31	5101.38	.030	2.31
11.67	2.31	5101.38	.030	2.31
11.83	2.31	5101.38	.030	2.31
12.00	2.31	5101.38	.030	2.31
12.17	2.31	5101.38	.030	2.31
12.33	2.31	5101.38	.030	2.31
12.50	2.31	5101.38	.030	2.31
12.67	2.31	5101.38	.030	2.31
12.83	2.31	5101.38	.030	2.31
13.00	2.31	5101.38	.030	2.31
13.17	2.31	5101.38	.030	2.31
13.33	2.31	5101.38	.030	2.31
13.50	2.31	5101.38	.030	2.31
13.67	2.31	5101.38	.030	2.31
13.83	2.31	5101.38	.030	2.31
14.00	2.31	5101.38	.030	2.31
14.17	2.31	5101.38	.030	2.31
14.33	2.31	5101.38	.030	2.31
14.50	2.31	5101.38	.030	2.31
14.67	2.31	5101.38	.030	2.31
14.83	2.31	5101.38	.030	2.31
15.00	2.31	5101.38	.030	2.31
15.17	2.31	5101.38	.030	2.31
15.33	2.31	5101.38	.030	2.31
15.50	2.31	5101.38	.030	2.31
15.67	2.31	5101.38	.030	2.31
15.83	2.31	5101.38	.030	2.31
16.00	2.31	5101.38	.030	2.31
16.17	2.31	5101.38	.030	2.31
16.33	2.31	5101.38	.030	2.31
16.50	2.31	5101.38	.030	2.31
16.67	2.31	5101.38	.030	2.31
16.83	2.31	5101.38	.030	2.31
17.00	2.31	5101.38	.030	2.31

DEV10

17.16	2.31	5101.38	.030	2.31
17.33	2.31	5101.38	.030	2.31
17.50	2.31	5101.38	.030	2.31
17.66	2.31	5101.38	.030	2.31
17.83	2.31	5101.38	.030	2.31
18.00	2.31	5101.38	.030	2.31
18.16	2.31	5101.38	.030	2.31
18.33	2.31	5101.38	.030	2.31
18.50	2.31	5101.38	.030	2.31

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	2.31	5101.38	.030	2.31
18.83	2.31	5101.38	.030	2.31
19.00	2.31	5101.38	.030	2.31
19.16	2.31	5101.38	.030	2.31
19.33	2.31	5101.38	.030	2.31
19.50	2.31	5101.38	.030	2.31
19.66	2.31	5101.38	.030	2.31
19.83	2.31	5101.38	.030	2.31

PEAK DISCHARGE = 23.323 CFS - PEAK OCCURS AT HOUR 2.07
MAXIMUM WATER SURFACE ELEVATION = 5105.891
MAXIMUM STORAGE = .5024 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=46 CODE=5

HYDROGRAPH FROM AREA 324.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	4.7	7.999	2.3	11.999	2.3
.167	1.4	4.166	4.3	8.166	2.3	12.165	2.3
.333	2.0	4.333	3.9	8.332	2.3	12.332	2.3
.500	2.2	4.500	3.7	8.499	2.3	12.499	2.3
.667	2.3	4.666	3.5	8.666	2.3	12.665	2.3
.833	2.3	4.833	3.3	8.832	2.3	12.832	2.3
1.000	2.3	4.999	3.2	8.999	2.3	12.999	2.3
1.167	2.3	5.166	3.1	9.166	2.3	13.165	2.3
1.333	3.7	5.333	3.1	9.332	2.3	13.332	2.3
1.500	14.1	5.499	3.0	9.499	2.3	13.499	2.3
1.667	20.6	5.666	3.0	9.666	2.3	13.665	2.3
1.833	22.5	5.833	3.0	9.832	2.3	13.832	2.3
2.000	23.2	5.999	2.9	9.999	2.3	13.999	2.3
2.166	23.2	6.166	2.9	10.166	2.3	14.165	2.3
2.333	22.3	6.333	2.8	10.332	2.3	14.332	2.3
2.500	21.2	6.499	2.7	10.499	2.3		

14.499	2.3	18.498	2.3				
2.666	19.7	6.666	2.6	10.666	2.3		
14.665	2.3	18.665	2.3				
2.833	17.9	6.833	2.5	10.832	2.3		
14.832	2.3	18.831	2.3				
3.000	15.9	6.999	2.5	10.999	2.3		
14.998	2.3	18.998	2.3				
3.166	13.5	7.166	2.5	11.166	2.3		
15.165	2.3	19.165	2.3				
3.333	10.5	7.333	2.4	11.332	2.3		
15.332	2.3	19.331	2.3				
3.500	7.8	7.499	2.4	11.499	2.3		
15.498	2.3	19.498	2.3				
3.666	6.3	7.666	2.4	11.665	2.3		
15.665	2.3	19.665	2.3				
3.833	5.4	7.833	2.4	11.832	2.3		
15.832	2.3	19.831	2.3				

RUNOFF VOLUME = 2.16167 INCHES = 6.9242 ACRE-FEET
PEAK DISCHARGE RATE = 23.32 CFS AT 2.066 HOURS BASIN AREA = .0601 SQ. MI.

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*POND 7 (UNDERGROUND)

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ROUTE RESERVOIR ID=48 HYD=325 INFLOW ID=20 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
0.00	0.00	5104.5
1.47	0.11	5106.5
2.16	0.29	5108.5
2.67	0.46	5110.5
3.00	0.53	5112.0

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5104.50	.000	.00
.17	.00	5104.50	.000	.00
.33	.00	5104.50	.000	.00
.50	.00	5104.50	.000	.00
.67	.00	5104.50	.000	.00
.83	.00	5104.50	.000	.00
1.00	.00	5104.50	.000	.00
1.17	.00	5104.50	.000	.00
1.33	3.31	5104.71	.012	.15
1.50	12.83	5106.56	.116	1.49
1.67	6.44	5107.79	.226	1.91
1.83	4.22	5108.26	.269	2.08
2.00	3.10	5108.49	.289	2.16
2.17	1.37	5108.52	.292	2.17

DEV10

2.33	.61	5108.33	.275	2.10
2.50	.36	5108.09	.253	2.02
2.67	.22	5107.83	.230	1.93
2.83	.14	5107.57	.206	1.84
3.00	.09	5107.31	.183	1.75
3.17	.06	5107.06	.160	1.66
3.33	.04	5106.82	.139	1.58
3.50	.04	5106.59	.118	1.50
3.67	.03	5106.30	.099	1.32
3.83	.03	5106.00	.083	1.10
4.00	.03	5105.76	.069	.92
4.17	.03	5105.55	.058	.77
4.33	.04	5105.38	.049	.65
4.50	.04	5105.24	.041	.55
4.67	.04	5105.13	.035	.46
4.83	.05	5105.03	.029	.39
5.00	.05	5104.95	.025	.33
5.17	.06	5104.89	.021	.29
5.33	.06	5104.84	.019	.25
5.50	.07	5104.80	.016	.22
5.67	.07	5104.76	.014	.19
5.83	.08	5104.74	.013	.17
6.00	.09	5104.72	.012	.16
6.17	.04	5104.70	.011	.14
6.33	.01	5104.67	.009	.12
6.50	.00	5104.64	.008	.10
6.67	.00	5104.62	.006	.09
6.83	.00	5104.60	.005	.07
7.00	.00	5104.58	.004	.06
7.17	.00	5104.57	.004	.05
7.33	.00	5104.56	.003	.04
7.50	.00	5104.55	.003	.03
7.67	.00	5104.54	.002	.03
7.83	.00	5104.53	.002	.02
8.00	.00	5104.53	.001	.02
8.17	.00	5104.52	.001	.02
8.33	.00	5104.52	.001	.01
8.50	.00	5104.52	.001	.01
8.67	.00	5104.51	.001	.01
8.83	.00	5104.51	.001	.01
9.00	.00	5104.51	.000	.01
9.17	.00	5104.51	.000	.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.33	.00	5104.51	.000	.00

PEAK DISCHARGE = 2.172 CFS - PEAK OCCURS AT HOUR 2.10
MAXIMUM WATER SURFACE ELEVATION = 5108.548
MAXIMUM STORAGE = .2941 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=48 CODE=5

HYDROGRAPH FROM AREA 325.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	2.166	2.2	4.333	.6	6.499	.1
.167	.0	2.333	2.1	4.500	.5	6.666	.1
.333	.0	2.500	2.0	4.666	.5	8.666	.0
						8.832	.0

DEV10

6.833	.1	8.999	.0				
.500	.0	2.666	1.9	4.833	.4		
6.999	.1	9.166	.0				
.667	.0	2.833	1.8	4.999	.3		
7.166	.1	9.332	.0				
.833	.0	3.000	1.7	5.166	.3		
7.333	.0	9.499	.0				
1.000	.0	3.166	1.7	5.333	.2		
7.499	.0	9.666	.0				
1.167	.0	3.333	1.6	5.499	.2		
7.666	.0	9.832	.0				
1.333	.2	3.500	1.5	5.666	.2		
7.833	.0	9.999	.0				
1.500	1.5	3.666	1.3	5.833	.2		
7.999	.0	10.166	.0				
1.667	1.9	3.833	1.1	5.999	.2		
8.166	.0	10.332	.0				
1.833	2.1	4.000	.9	6.166	.1		
8.332	.0	10.499	.0				
2.000	2.2	4.166	.8	6.333	.1		
8.499	.0	10.666	.0				

RUNOFF VOLUME = 1.13646 INCHES = .4534 ACRE-FEET
PEAK DISCHARGE RATE = 2.17 CFS AT 2.100 HOURS BASIN AREA =
.0075 SQ. MI.

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*S ADD A2 AND OS3

ADD HYD ID=49 HYDNO=326

ID=2 ID=25

PRINT HYD ID=49 CODE=5

HYDROGRAPH FROM AREA 326.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	15.7	3.000	.1	4.500	.0
.167	.0	1.667	7.9	3.166	.1	4.666	.1
.333	.0	1.833	5.1	3.333	.1	4.833	.1
.500	.0	2.000	3.7	3.500	.0	4.999	.1
.667	.0	2.166	1.7	3.666	.0	5.166	.1
.833	.0	2.333	.7	3.833	.0	5.333	.1
1.000	.0	2.500	.4	4.000	.0	5.499	.1
1.167	.0	2.666	.3	4.166	.0	5.666	.1
1.333	4.0	2.833	.2	4.333	.0	5.833	.1

RUNOFF VOLUME = 1.10576 INCHES = .5508 ACRE-FEET
PEAK DISCHARGE RATE = 15.66 CFS AT 1.500 HOURS BASIN AREA =

.0093 SQ. MI.

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*POND 2

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ROUTE RESERVOIR ID=50 HYD=400 INFLOW ID=49 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
1.94	0.0	5111
2.44	0.26	5112
2.86	0.57	5113
3.22	0.93	5114

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5107.12	-1.009	.00
.17	.00	5111.00	.000	1.94
.33	.00	5111.00	.000	1.94
.50	.00	5111.00	.000	1.94
.67	.00	5111.00	.000	1.94
.83	.00	5111.00	.000	1.94
1.00	.00	5111.00	.000	1.94
1.17	.00	5111.00	.000	1.94
1.33	3.98	5111.00	.000	1.94
1.50	15.66	5111.43	.111	2.15
1.67	7.87	5111.94	.243	2.41
1.83	5.11	5112.11	.295	2.49
2.00	3.74	5112.20	.321	2.52
2.17	1.66	5112.21	.325	2.53
2.33	.74	5112.15	.305	2.50
2.50	.43	5112.06	.279	2.47
2.67	.26	5111.96	.250	2.42
2.83	.16	5111.85	.220	2.36
3.00	.11	5111.73	.190	2.30
3.17	.07	5111.61	.160	2.25
3.33	.05	5111.50	.130	2.19
3.50	.04	5111.39	.101	2.13
3.67	.04	5111.28	.072	2.08
3.83	.04	5111.17	.045	2.03
4.00	.04	5111.07	.018	1.97
4.17	.04	5111.00	.000	1.94
4.33	.04	5111.00	.000	1.94
4.50	.05	5111.00	.000	1.94
4.67	.05	5111.00	.000	1.94
4.83	.06	5111.00	.000	1.94
5.00	.06	5111.00	.000	1.94
5.17	.07	5111.00	.000	1.94
5.33	.08	5111.00	.000	1.94
5.50	.08	5111.00	.000	1.94
5.67	.09	5111.00	.000	1.94
5.83	.10	5111.00	.000	1.94

6.00	.11	5111.00	.000	1.94
6.17	.04	5111.00	.000	1.94
6.33	.01	5111.00	.000	1.94
6.50	.01	5111.00	.000	1.94
6.67	.00	5111.00	.000	1.94
6.83	.00	5111.00	.000	1.94
7.00	.00	5111.00	.000	1.94
7.17	.00	5111.00	.000	1.94
7.33	.00	5111.00	.000	1.94
7.50	.00	5111.00	.000	1.94
7.67	.00	5111.00	.000	1.94
7.83	.00	5111.00	.000	1.94
8.00	.00	5111.00	.000	1.94
8.17	.00	5111.00	.000	1.94
8.33	.00	5111.00	.000	1.94
8.50	.00	5111.00	.000	1.94
8.67	.00	5111.00	.000	1.94
8.83	.00	5111.00	.000	1.94
9.00	.00	5111.00	.000	1.94
9.17	.00	5111.00	.000	1.94

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.33	.00	5111.00	.000	1.94
9.50	.00	5111.00	.000	1.94
9.67	.00	5111.00	.000	1.94
9.83	.00	5111.00	.000	1.94
10.00	.00	5111.00	.000	1.94
10.17	.00	5111.00	.000	1.94
10.33	.00	5111.00	.000	1.94
10.50	.00	5111.00	.000	1.94
10.67	.00	5111.00	.000	1.94
10.83	.00	5111.00	.000	1.94
11.00	.00	5111.00	.000	1.94
11.17	.00	5111.00	.000	1.94
11.33	.00	5111.00	.000	1.94
11.50	.00	5111.00	.000	1.94
11.67	.00	5111.00	.000	1.94
11.83	.00	5111.00	.000	1.94
12.00	.00	5111.00	.000	1.94
12.17	.00	5111.00	.000	1.94
12.33	.00	5111.00	.000	1.94
12.50	.00	5111.00	.000	1.94
12.67	.00	5111.00	.000	1.94
12.83	.00	5111.00	.000	1.94
13.00	.00	5111.00	.000	1.94
13.17	.00	5111.00	.000	1.94
13.33	.00	5111.00	.000	1.94
13.50	.00	5111.00	.000	1.94
13.67	.00	5111.00	.000	1.94
13.83	.00	5111.00	.000	1.94
14.00	.00	5111.00	.000	1.94
14.17	.00	5111.00	.000	1.94
14.33	.00	5111.00	.000	1.94
14.50	.00	5111.00	.000	1.94
14.67	.00	5111.00	.000	1.94
14.83	.00	5111.00	.000	1.94
15.00	.00	5111.00	.000	1.94
15.17	.00	5111.00	.000	1.94
15.33	.00	5111.00	.000	1.94
15.50	.00	5111.00	.000	1.94
15.67	.00	5111.00	.000	1.94
15.83	.00	5111.00	.000	1.94
16.00	.00	5111.00	.000	1.94
16.17	.00	5111.00	.000	1.94

DEV10

16.33	.00	5111.00	.000	1.94
16.50	.00	5111.00	.000	1.94
16.67	.00	5111.00	.000	1.94
16.83	.00	5111.00	.000	1.94
17.00	.00	5111.00	.000	1.94
17.16	.00	5111.00	.000	1.94
17.33	.00	5111.00	.000	1.94
17.50	.00	5111.00	.000	1.94
17.66	.00	5111.00	.000	1.94
17.83	.00	5111.00	.000	1.94
18.00	.00	5111.00	.000	1.94
18.16	.00	5111.00	.000	1.94
18.33	.00	5111.00	.000	1.94
18.50	.00	5111.00	.000	1.94

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	.00	5111.00	.000	1.94
18.83	.00	5111.00	.000	1.94
19.00	.00	5111.00	.000	1.94
19.16	.00	5111.00	.000	1.94
19.33	.00	5111.00	.000	1.94
19.50	.00	5111.00	.000	1.94
19.66	.00	5111.00	.000	1.94
19.83	.00	5111.00	.000	1.94

PEAK DISCHARGE = 2.531 CFS - PEAK OCCURS AT HOUR 2.10
MAXIMUM WATER SURFACE ELEVATION = 5112.217
MAXIMUM STORAGE = .3273 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=50 CODE=5

HYDROGRAPH FROM AREA 400.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	2.0	7.999	1.9	11.999	1.9
.167	1.9	4.166	1.9	8.166	1.9	12.165	1.9
.333	1.9	4.333	1.9	8.332	1.9	12.332	1.9
.500	1.9	4.500	1.9	8.499	1.9	12.499	1.9
.667	1.9	4.666	1.9	8.666	1.9	12.665	1.9
.833	1.9	4.833	1.9	8.832	1.9	12.832	1.9
1.000	1.9	4.999	1.9	8.999	1.9	12.999	1.9
1.167	1.9	5.166	1.9	9.166	1.9	13.165	1.9
1.333	1.9	5.333	1.9	9.332	1.9	13.332	1.9
1.500	2.2	5.499	1.9	9.499	1.9	13.499	1.9
1.667	2.4	5.666	1.9	9.666	1.9	13.665	1.9
1.833	2.5	5.833	1.9	9.832	1.9	13.832	1.9
2.000	2.5	5.999	1.9	9.999	1.9	13.999	1.9

2.166	2.5	6.166	1.9	10.166	1.9
14.165	1.9	18.165	1.9		
2.333	2.5	6.333	1.9	10.332	1.9
14.332	1.9	18.331	1.9		
2.500	2.5	6.499	1.9	10.499	1.9
14.499	1.9	18.498	1.9		
2.666	2.4	6.666	1.9	10.666	1.9
14.665	1.9	18.665	1.9		
2.833	2.4	6.833	1.9	10.832	1.9
14.832	1.9	18.831	1.9		
3.000	2.3	6.999	1.9	10.999	1.9
14.998	1.9	18.998	1.9		
3.166	2.2	7.166	1.9	11.166	1.9
15.165	1.9	19.165	1.9		
3.333	2.2	7.333	1.9	11.332	1.9
15.332	1.9	19.331	1.9		
3.500	2.1	7.499	1.9	11.499	1.9
15.498	1.9	19.498	1.9		
3.666	2.1	7.666	1.9	11.665	1.9
15.665	1.9	19.665	1.9		
3.833	2.0	7.833	1.9	11.832	1.9
15.832	1.9	19.831	1.9		

RUNOFF VOLUME = 6.58535 INCHES = 3.2804 ACRE-FEET
PEAK DISCHARGE RATE = 2.53 CFS AT 2.100 HOURS BASIN AREA = .0093 SQ. MI.

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*S ADD A4 AND OS2

ADD HYD ID=51 HYDNO=327

ID=4 ID=24

PRINT HYD ID=51 CODE=5

HYDROGRAPH FROM AREA 327.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	18.5	3.000	.1
4.500	.1	5.999	.1		
.167	.0	1.667	9.3	3.166	.1
4.666	.1	6.166	.1		
.333	.0	1.833	6.0	3.333	.1
4.833	.1	6.333	.0		
.500	.0	2.000	4.4	3.500	.1
4.999	.1	6.499	.0		
.667	.0	2.166	2.0	3.666	.0
5.166	.1	6.666	.0		
.833	.0	2.333	.9	3.833	.0
5.333	.1	6.833	.0		
1.000	.0	2.500	.5	4.000	.0
5.499	.1				
1.167	.0	2.666	.3	4.166	.0
5.666	.1				
1.333	4.7	2.833	.2	4.333	.1
5.833	.1				

RUNOFF VOLUME = 1.09006 INCHES = .6511 ACRE-FEET

DEV10
PEAK DISCHARGE RATE = 18.51 CFS AT 1.500 HOURS BASIN AREA = .0112 SQ. MI.

****

*POND 4

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ROUTE RESERVOIR ID=52 HYD=401 INFLOW ID=51 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
2.76	0.0	5111
3.50	0.11	5112
4.12	0.32	5113
4.65	0.65	5114
5.13	1.05	5115

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TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5107.27	-.410	.00
.17	.00	5111.00	.000	2.76
.33	.00	5111.00	.000	2.76
.50	.00	5111.00	.000	2.76
.67	.00	5111.00	.000	2.76
.83	.00	5111.00	.000	2.76
1.00	.00	5111.00	.000	2.76
1.17	.00	5111.00	.000	2.76
1.33	4.70	5111.00	.000	2.76
1.50	18.51	5112.05	.120	3.53
1.67	9.30	5112.72	.262	3.95
1.83	6.04	5112.94	.308	4.08
2.00	4.42	5113.01	.322	4.12
2.17	1.96	5112.96	.312	4.10
2.33	.87	5112.78	.274	3.98
2.50	.51	5112.57	.229	3.85
2.67	.31	5112.35	.183	3.71
2.83	.20	5112.12	.136	3.58
3.00	.13	5111.82	.090	3.37
3.17	.09	5111.43	.047	3.08
3.33	.07	5111.07	.008	2.81
3.50	.05	5111.00	.000	2.76
3.67	.05	5111.00	.000	2.76
3.83	.05	5111.00	.000	2.76
4.00	.05	5111.00	.000	2.76
4.17	.05	5111.00	.000	2.76
4.33	.05	5111.00	.000	2.76
4.50	.06	5111.00	.000	2.76
4.67	.06	5111.00	.000	2.76
4.83	.07	5111.00	.000	2.76
5.00	.07	5111.00	.000	2.76
5.17	.08	5111.00	.000	2.76
5.33	.09	5111.00	.000	2.76

5.50	.10	5111.00	.000	2.76
5.67	.10	5111.00	.000	2.76
5.83	.12	5111.00	.000	2.76
6.00	.13	5111.00	.000	2.76
6.17	.05	5111.00	.000	2.76
6.33	.01	5111.00	.000	2.76
6.50	.01	5111.00	.000	2.76
6.67	.00	5111.00	.000	2.76
6.83	.00	5111.00	.000	2.76
7.00	.00	5111.00	.000	2.76
7.17	.00	5111.00	.000	2.76
7.33	.00	5111.00	.000	2.76
7.50	.00	5111.00	.000	2.76
7.67	.00	5111.00	.000	2.76
7.83	.00	5111.00	.000	2.76
8.00	.00	5111.00	.000	2.76
8.17	.00	5111.00	.000	2.76
8.33	.00	5111.00	.000	2.76
8.50	.00	5111.00	.000	2.76
8.67	.00	5111.00	.000	2.76
8.83	.00	5111.00	.000	2.76
9.00	.00	5111.00	.000	2.76
9.17	.00	5111.00	.000	2.76

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.33	.00	5111.00	.000	2.76
9.50	.00	5111.00	.000	2.76
9.67	.00	5111.00	.000	2.76
9.83	.00	5111.00	.000	2.76
10.00	.00	5111.00	.000	2.76
10.17	.00	5111.00	.000	2.76
10.33	.00	5111.00	.000	2.76
10.50	.00	5111.00	.000	2.76
10.67	.00	5111.00	.000	2.76
10.83	.00	5111.00	.000	2.76
11.00	.00	5111.00	.000	2.76
11.17	.00	5111.00	.000	2.76
11.33	.00	5111.00	.000	2.76
11.50	.00	5111.00	.000	2.76
11.67	.00	5111.00	.000	2.76
11.83	.00	5111.00	.000	2.76
12.00	.00	5111.00	.000	2.76
12.17	.00	5111.00	.000	2.76
12.33	.00	5111.00	.000	2.76
12.50	.00	5111.00	.000	2.76
12.67	.00	5111.00	.000	2.76
12.83	.00	5111.00	.000	2.76
13.00	.00	5111.00	.000	2.76
13.17	.00	5111.00	.000	2.76
13.33	.00	5111.00	.000	2.76
13.50	.00	5111.00	.000	2.76
13.67	.00	5111.00	.000	2.76
13.83	.00	5111.00	.000	2.76
14.00	.00	5111.00	.000	2.76
14.17	.00	5111.00	.000	2.76
14.33	.00	5111.00	.000	2.76
14.50	.00	5111.00	.000	2.76
14.67	.00	5111.00	.000	2.76
14.83	.00	5111.00	.000	2.76
15.00	.00	5111.00	.000	2.76
15.17	.00	5111.00	.000	2.76
15.33	.00	5111.00	.000	2.76
15.50	.00	5111.00	.000	2.76
15.67	.00	5111.00	.000	2.76

DEV10

15.83	.00	5111.00	.000	2.76
16.00	.00	5111.00	.000	2.76
16.17	.00	5111.00	.000	2.76
16.33	.00	5111.00	.000	2.76
16.50	.00	5111.00	.000	2.76
16.67	.00	5111.00	.000	2.76
16.83	.00	5111.00	.000	2.76
17.00	.00	5111.00	.000	2.76
17.16	.00	5111.00	.000	2.76
17.33	.00	5111.00	.000	2.76
17.50	.00	5111.00	.000	2.76
17.66	.00	5111.00	.000	2.76
17.83	.00	5111.00	.000	2.76
18.00	.00	5111.00	.000	2.76
18.16	.00	5111.00	.000	2.76
18.33	.00	5111.00	.000	2.76
18.50	.00	5111.00	.000	2.76

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.66	.00	5111.00	.000	2.76
18.83	.00	5111.00	.000	2.76
19.00	.00	5111.00	.000	2.76
19.16	.00	5111.00	.000	2.76
19.33	.00	5111.00	.000	2.76
19.50	.00	5111.00	.000	2.76
19.66	.00	5111.00	.000	2.76
19.83	.00	5111.00	.000	2.76

PEAK DISCHARGE = 4.124 CFS - PEAK OCCURS AT HOUR 2.03
MAXIMUM WATER SURFACE ELEVATION = 5113.008
MAXIMUM STORAGE = .3227 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=52 CODE=5

HYDROGRAPH FROM AREA 401.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	2.8	7.999	2.8
11.999	2.8	15.998	2.8		
.167	2.8	4.166	2.8	8.166	2.8
12.165	2.8	16.165	2.8		
.333	2.8	4.333	2.8	8.332	2.8
12.332	2.8	16.332	2.8		
.500	2.8	4.500	2.8	8.499	2.8
12.499	2.8	16.498	2.8		
.667	2.8	4.666	2.8	8.666	2.8
12.665	2.8	16.665	2.8		
.833	2.8	4.833	2.8	8.832	2.8
12.832	2.8	16.832	2.8		
1.000	2.8	4.999	2.8	8.999	2.8
12.999	2.8	16.998	2.8		
1.167	2.8	5.166	2.8	9.166	2.8
13.165	2.8	17.165	2.8		
1.333	2.8	5.333	2.8	9.332	2.8
13.332	2.8	17.332	2.8		
1.500	3.5	5.499	2.8	9.499	2.8
13.499	2.8	17.498	2.8		
1.667	3.9	5.666	2.8	9.666	2.8
13.665	2.8	17.665	2.8		
1.833	4.1	5.833	2.8	9.832	2.8

13.832	2.8	17.832	2.8				
2.000	4.1	5.999	2.8	9.999	2.8		
13.999	2.8	17.998	2.8				
2.166	4.1	6.166	2.8	10.166	2.8		
14.165	2.8	18.165	2.8				
2.333	4.0	6.333	2.8	10.332	2.8		
14.332	2.8	18.331	2.8				
2.500	3.9	6.499	2.8	10.499	2.8		
14.499	2.8	18.498	2.8				
2.666	3.7	6.666	2.8	10.666	2.8		
14.665	2.8	18.665	2.8				
2.833	3.6	6.833	2.8	10.832	2.8		
14.832	2.8	18.831	2.8				
3.000	3.4	6.999	2.8	10.999	2.8		
14.998	2.8	18.998	2.8				
3.166	3.1	7.166	2.8	11.166	2.8		
15.165	2.8	19.165	2.8				
3.333	2.8	7.333	2.8	11.332	2.8		
15.332	2.8	19.331	2.8				
3.500	2.8	7.499	2.8	11.499	2.8		
15.498	2.8	19.498	2.8				
3.666	2.8	7.666	2.8	11.665	2.8		
15.665	2.8	19.665	2.8				
3.833	2.8	7.833	2.8	11.832	2.8		
15.832	2.8	19.831	2.8				

RUNOFF VOLUME = 7.87751 INCHES = 4.7055 ACRE-FEET
PEAK DISCHARGE RATE = 4.12 CFS AT 2.033 HOURS BASIN AREA =
.0112 SQ. MI.

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*POND 8 (UNDERGROUND)

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ROUTE RESERVOIR ID=53 HYD=402 INFLOW ID=14 CODE=5

OUTFLOW (CFS)	STORAGE (AC-FT)	ELEV (FT)
0.00	0.0	5105
2.27	0.05	5107
3.38	0.14	5109
4.20	0.22	5111
4.72	0.25	5112.5

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

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
.00	.00	5105.00	.000	.00
.17	.00	5105.00	.000	.00
.33	.00	5105.00	.000	.00
.50	.00	5105.00	.000	.00
.67	.00	5105.00	.000	.00
.83	.00	5105.00	.000	.00

DEV10

1.00	.00	5105.00	.000	.00
1.17	.00	5105.00	.000	.00
1.33	1.92	5105.25	.006	.28
1.50	7.65	5107.15	.057	2.35
1.67	3.84	5108.11	.100	2.89
1.83	2.47	5108.15	.102	2.91
2.00	1.81	5107.92	.091	2.78
2.17	.81	5107.52	.074	2.56
2.33	.36	5106.91	.048	2.17
2.50	.21	5106.13	.028	1.29
2.67	.13	5105.67	.017	.76
2.83	.08	5105.40	.010	.45
3.00	.05	5105.24	.006	.27
3.17	.03	5105.14	.004	.16
3.33	.03	5105.09	.002	.10
3.50	.02	5105.06	.001	.06
3.67	.02	5105.04	.001	.04
3.83	.02	5105.03	.001	.03
4.00	.02	5105.02	.001	.03
4.17	.02	5105.02	.000	.02
4.33	.02	5105.02	.000	.02
4.50	.02	5105.02	.000	.02
4.67	.02	5105.02	.000	.02
4.83	.03	5105.02	.001	.02
5.00	.03	5105.02	.001	.03
5.17	.03	5105.03	.001	.03
5.33	.04	5105.03	.001	.03
5.50	.04	5105.03	.001	.03
5.67	.04	5105.03	.001	.04
5.83	.05	5105.04	.001	.04
6.00	.05	5105.04	.001	.05
6.17	.02	5105.04	.001	.04
6.33	.01	5105.02	.001	.03
6.50	.00	5105.01	.000	.02
6.67	.00	5105.01	.000	.01
6.83	.00	5105.00	.000	.01
7.00	.00	5105.00	.000	.00

PEAK DISCHARGE = 2.924 CFS - PEAK OCCURS AT HOUR 1.77
MAXIMUM WATER SURFACE ELEVATION = 5108.178
MAXIMUM STORAGE = .1030 AC-FT INCREMENTAL TIME= .033330HRS

PRINT HYD ID=53 CODE=5

HYDROGRAPH FROM AREA 402.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	1.500	2.4	3.000	.3
4.500	.0	5.999	.0		
.167	.0	1.667	2.9	3.166	.2
4.666	.0	6.166	.0		
.333	.0	1.833	2.9	3.333	.1
4.833	.0	6.333	.0		
.500	.0	2.000	2.8	3.500	.1
4.999	.0	6.499	.0		
.667	.0	2.166	2.6	3.666	.0
5.166	.0	6.666	.0		
.833	.0	2.333	2.2	3.833	.0
5.333	.0	6.833	.0		
1.000	.0	2.500	1.3	4.000	.0
5.499	.0	6.999	.0		
1.167	.0	2.666	.8	4.166	.0

DEV10

5.666 .0 7.166 .0
1.333 .3 2.833 .5 4.333 .0
5.833 .0

RUNOFF VOLUME = 1.09473 INCHES = .2680 ACRE-FEET
PEAK DISCHARGE RATE = 2.92 CFS AT 1.766 HOURS BASIN AREA =
.0046 SQ. MI.

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*S ADD POND 2 AND POND 4

ADD HYD ID=55 HYDNO=500

ID=50 ID=52

PRINT HYD ID=55 CODE=5

OUTFLOW HYDROGRAPH RESERVOIR 500.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	4.7	7.999	4.7
.167	4.7	4.166	4.7	8.166	4.7
.333	4.7	4.333	4.7	8.332	4.7
.500	4.7	4.500	4.7	8.499	4.7
.667	4.7	4.666	4.7	8.666	4.7
.833	4.7	4.833	4.7	8.832	4.7
1.000	4.7	4.999	4.7	8.999	4.7
1.167	4.7	5.166	4.7	9.166	4.7
1.333	4.7	5.333	4.7	9.332	4.7
1.500	5.7	5.499	4.7	9.499	4.7
1.667	6.4	5.666	4.7	9.666	4.7
1.833	6.6	5.833	4.7	9.832	4.7
2.000	6.6	5.999	4.7	9.999	4.7
2.166	6.6	6.166	4.7	10.166	4.7
2.333	6.5	6.333	4.7	10.332	4.7
2.500	6.3	6.499	4.7	10.499	4.7
2.666	6.1	6.666	4.7	10.666	4.7
2.833	5.9	6.833	4.7	10.832	4.7
3.000	5.7	6.999	4.7	10.999	4.7
3.166	5.3	7.166	4.7	11.166	4.7

DEV10

15.165	4.7	19.165	4.7				
3.333	5.0	7.333	4.7	11.332	4.7		
15.332	4.7	19.331	4.7				
3.500	4.9	7.499	4.7	11.499	4.7		
15.498	4.7	19.498	4.7				
3.666	4.8	7.666	4.7	11.665	4.7		
15.665	4.7	19.665	4.7				
3.833	4.8	7.833	4.7	11.832	4.7		
15.832	4.7	19.831	4.7				

RUNOFF VOLUME = 7.28989 INCHES = 7.9858 ACRE-FEET
PEAK DISCHARGE RATE = 6.65 CFS AT 2.066 HOURS BASIN AREA =
.0205 SQ. MI.

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*S ADD HYD 500 AND POND 8

ADD HYD ID=56 HYDNO=501

ID=55 ID=53

PRINT HYD ID=56 CODE=5

OUTFLOW HYDROGRAPH RESERVOIR 501.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	4.8	7.999	4.7
11.999	4.7	15.998	4.7		
.167	4.7	4.166	4.7	8.166	4.7
12.165	4.7	16.165	4.7		
.333	4.7	4.333	4.7	8.332	4.7
12.332	4.7	16.332	4.7		
.500	4.7	4.500	4.7	8.499	4.7
12.499	4.7	16.498	4.7		
.667	4.7	4.666	4.7	8.666	4.7
12.665	4.7	16.665	4.7		
.833	4.7	4.833	4.7	8.832	4.7
12.832	4.7	16.832	4.7		
1.000	4.7	4.999	4.7	8.999	4.7
12.999	4.7	16.998	4.7		
1.167	4.7	5.166	4.7	9.166	4.7
13.165	4.7	17.165	4.7		
1.333	5.0	5.333	4.7	9.332	4.7
13.332	4.7	17.332	4.7		
1.500	8.0	5.499	4.7	9.499	4.7
13.499	4.7	17.498	4.7		
1.667	9.2	5.666	4.7	9.666	4.7
13.665	4.7	17.665	4.7		
1.833	9.5	5.833	4.7	9.832	4.7
13.832	4.7	17.832	4.7		
2.000	9.4	5.999	4.7	9.999	4.7
13.999	4.7	17.998	4.7		
2.166	9.2	6.166	4.7	10.166	4.7
14.165	4.7	18.165	4.7		
2.333	8.7	6.333	4.7	10.332	4.7
14.332	4.7	18.331	4.7		
2.500	7.6	6.499	4.7	10.499	4.7
14.499	4.7	18.498	4.7		
2.666	6.9	6.666	4.7	10.666	4.7

14.665	4.7	18.665	4.7				
2.833	6.4	6.833	4.7	10.832	4.7		
14.832	4.7	18.831	4.7				
3.000	5.9	6.999	4.7	10.999	4.7		
14.998	4.7	18.998	4.7				
3.166	5.5	7.166	4.7	11.166	4.7		
15.165	4.7	19.165	4.7				
3.333	5.1	7.333	4.7	11.332	4.7		
15.332	4.7	19.331	4.7				
3.500	5.0	7.499	4.7	11.499	4.7		
15.498	4.7	19.498	4.7				
3.666	4.9	7.666	4.7	11.665	4.7		
15.665	4.7	19.665	4.7				
3.833	4.8	7.833	4.7	11.832	4.7		
15.832	4.7	19.831	4.7				

RUNOFF VOLUME = 6.15832 INCHES = 8.2537 ACRE-FEET
PEAK DISCHARGE RATE = 9.48 CFS AT 1.866 HOURS BASIN AREA = .0251 SQ. MI.

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*S ADD HYD 501 AND POND 7

ADD HYD ID=57 HYDNO=502

ID=56 ID=48

PRINT HYD ID=57 CODE=5

OUTFLOW HYDROGRAPH RESERVOIR 502.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	5.7	7.999	4.7
11.999	4.7	15.998	4.7		
.167	4.7	4.166	5.5	8.166	4.7
12.165	4.7	16.165	4.7		
.333	4.7	4.333	5.4	8.332	4.7
12.332	4.7	16.332	4.7		
.500	4.7	4.500	5.3	8.499	4.7
12.499	4.7	16.498	4.7		
.667	4.7	4.666	5.2	8.666	4.7
12.665	4.7	16.665	4.7		
.833	4.7	4.833	5.1	8.832	4.7
12.832	4.7	16.832	4.7		
1.000	4.7	4.999	5.1	8.999	4.7
12.999	4.7	16.998	4.7		
1.167	4.7	5.166	5.0	9.166	4.7
13.165	4.7	17.165	4.7		
1.333	5.1	5.333	5.0	9.332	4.7
13.332	4.7	17.332	4.7		
1.500	9.5	5.499	5.0	9.499	4.7
13.499	4.7	17.498	4.7		
1.667	11.2	5.666	4.9	9.666	4.7
13.665	4.7	17.665	4.7		
1.833	11.6	5.833	4.9	9.832	4.7
13.832	4.7	17.832	4.7		
2.000	11.6	5.999	4.9	9.999	4.7
13.999	4.7	17.998	4.7		
2.166	11.4	6.166	4.9	10.166	4.7

DEV10

14.165	4.7	18.165	4.7		
2.333	10.8	6.333	4.9	10.332	4.7
14.332	4.7	18.331	4.7		
2.500	9.6	6.499	4.8	10.499	4.7
14.499	4.7	18.498	4.7		
2.666	8.8	6.666	4.8	10.666	4.7
14.665	4.7	18.665	4.7		
2.833	8.2	6.833	4.8	10.832	4.7
14.832	4.7	18.831	4.7		
3.000	7.7	6.999	4.8	10.999	4.7
14.998	4.7	18.998	4.7		
3.166	7.2	7.166	4.8	11.166	4.7
15.165	4.7	19.165	4.7		
3.333	6.7	7.333	4.7	11.332	4.7
15.332	4.7	19.331	4.7		
3.500	6.5	7.499	4.7	11.499	4.7
15.498	4.7	19.498	4.7		
3.666	6.2	7.666	4.7	11.665	4.7
15.665	4.7	19.665	4.7		
3.833	5.9	7.833	4.7	11.832	4.7
15.832	4.7	19.831	4.7		

RUNOFF VOLUME = 5.00639 INCHES = 8.7071 ACRE-FEET
PEAK DISCHARGE RATE = 11.60 CFS AT 1.933 HOURS BASIN AREA =
.0326 SQ. MI.

****

*S ADD HYD 502 AND POND 6

ADD HYD ID=58 HYDNO=503

ID=57 ID=46

PRINT HYD ID=58 CODE=5

OUTFLOW HYDROGRAPH RESERVOIR 503.00

TIME HRS	FLOW CFS	TIME HRS	FLOW CFS	TIME HRS	FLOW CFS
.000	.0	4.000	10.4	7.999	7.1
11.999	7.0	15.998	7.0		
.167	6.1	4.166	9.8	8.166	7.1
12.165	7.0	16.165	7.0		
.333	6.7	4.333	9.3	8.332	7.0
12.332	7.0	16.332	7.0		
.500	6.9	4.500	8.9	8.499	7.0
12.499	7.0	16.498	7.0		
.667	7.0	4.666	8.7	8.666	7.0
12.665	7.0	16.665	7.0		
.833	7.0	4.833	8.4	8.832	7.0
12.832	7.0	16.832	7.0		
1.000	7.0	4.999	8.3	8.999	7.0
12.999	7.0	16.998	7.0		
1.167	7.0	5.166	8.1	9.166	7.0
13.165	7.0	17.165	7.0		
1.333	8.8	5.333	8.0	9.332	7.0
13.332	7.0	17.332	7.0		
1.500	23.6	5.499	8.0	9.499	7.0
13.499	7.0	17.498	7.0		
1.667	31.7	5.666	7.9	9.666	7.0

DEV10

13.665	7.0	17.665	7.0				
1.833	34.0	5.833	7.9	9.832	7.0		
13.832	7.0	17.832	7.0				
2.000	34.8	5.999	7.9	9.999	7.0		
13.999	7.0	17.998	7.0				
2.166	34.5	6.166	7.8	10.166	7.0		
14.165	7.0	18.165	7.0				
2.333	33.1	6.333	7.7	10.332	7.0		
14.332	7.0	18.331	7.0				
2.500	30.9	6.499	7.5	10.499	7.0		
14.499	7.0	18.498	7.0				
2.666	28.5	6.666	7.4	10.666	7.0		
14.665	7.0	18.665	7.0				
2.833	26.1	6.833	7.3	10.832	7.0		
14.832	7.0	18.831	7.0				
3.000	23.5	6.999	7.3	10.999	7.0		
14.998	7.0	18.998	7.0				
3.166	20.7	7.166	7.2	11.166	7.0		
15.165	7.0	19.165	7.0				
3.333	17.1	7.333	7.2	11.332	7.0		
15.332	7.0	19.331	7.0				
3.500	14.3	7.499	7.1	11.499	7.0		
15.498	7.0	19.498	7.0				
3.666	12.5	7.666	7.1	11.665	7.0		
15.665	7.0	19.665	7.0				
3.833	11.3	7.833	7.1	11.832	7.0		
15.832	7.0	19.831	7.0				

RUNOFF VOLUME = 3.16268 INCHES = 15.6311 ACRE-FEET
PEAK DISCHARGE RATE = 34.86 CFS AT 2.066 HOURS BASIN AREA =
.0927 SQ. MI.

****

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 15:48:35

DEV10

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02c RUN DATE (MON/DAY/YR) =10/02/2007

INPUT FILE = DEV10.HMI USER NO.=

AHYMO-C-9803c01UNMLIB-AH

PAGE = 1

COMMAND NOTATION	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE
RAINFALL TYPE= 1									
RAIN6= 1.470									
*S COMPUTE HYD BASIN A1									
COMPUTE NM HYD	101.00	-	1	.00780	13.37	.473	1.13650	1.500	2.679
PER IMP= 90.00									
*S COMPUTE HYD BASIN A2									
COMPUTE NM HYD	102.00	-	2	.00623	10.25	.361	1.08583	1.500	2.572
PER IMP= 85.00									
*S COMPUTE HYD BASIN A3									
COMPUTE NM HYD	103.00	-	3	.00833	14.05	.496	1.11623	1.500	2.636
PER IMP= 88.00									
*S COMPUTE HYD BASIN A4									
COMPUTE NM HYD	104.00	-	4	.01040	17.11	.602	1.08583	1.500	2.571
PER IMP= 85.00									
*S COMPUTE HYD BASIN B1									
COMPUTE NM HYD	201.00	-	11	.00161	2.77	.098	1.13650	1.500	2.686
PER IMP= 90.00									
*S COMPUTE HYD BASIN B2									
COMPUTE NM HYD	202.00	-	12	.00097	1.72	.060	1.15775	1.500	2.769
PER IMP= 90.00									
*S COMPUTE HYD BASIN B3									
COMPUTE NM HYD	203.00	-	13	.00190	3.17	.111	1.09479	1.500	2.609
PER IMP= 85.00									
*S COMPUTE HYD BASIN B4									
COMPUTE NM HYD	204.00	-	14	.00459	7.65	.268	1.09479	1.500	2.605
PER IMP= 85.00									
*S COMPUTE HYD BASIN B5									
COMPUTE NM HYD	205.00	-	15	.00657	10.95	.384	1.09479	1.500	2.604
PER IMP= 85.00									
*S COMPUTE HYD BASIN B6									
COMPUTE NM HYD	206.00	-	16	.00575	9.15	.355	1.15775	1.533	2.485
PER IMP= 90.00									
*S COMPUTE HYD BASIN B7									

```
                                                                  DEV10
    COMPUTE NM HYD          207.00   -    17        .00176        3.11        .109      1.15775    1.500     2.761
PER IMP=  90.00
    *S  COMPUTE HYD BASIN B8
    COMPUTE NM HYD          208.00   -    18        .00249        4.40        .154      1.15775    1.500     2.759
PER IMP=  90.00
    *S  COMPUTE HYD BASIN B9
    COMPUTE NM HYD          209.00   -    19        .00725       12.59        .443      1.14585    1.500     2.713
PER IMP=  90.00
    *S  COMPUTE HYD BASIN B10
    COMPUTE NM HYD          210.00   -    20        .00748       12.83        .453      1.13650    1.500     2.679
PER IMP=  90.00
    *S  COMPUTE HYD BASIN O1
    COMPUTE NM HYD          211.00   -    21        .00796       11.95        .465      1.09479    1.533     2.346
PER IMP=  85.00
    *S  COMPUTE HYD BASIN O2
    COMPUTE NM HYD          212.00   -    22        .00767       11.52        .448      1.09479    1.533     2.346
PER IMP=  85.00
    *S  COMPUTE HYD BASIN OS1
    COMPUTE NM HYD          213.00   -    23        .01104       18.39        .645      1.09479    1.500     2.603
PER IMP=  85.00
    *S  COMPUTE HYD BASIN OS2
    COMPUTE NM HYD          214.00   -    24        .00080        1.40        .049      1.14585    1.500     2.729
PER IMP=  90.00
    *S  COMPUTE HYD BASIN OS3
    COMPUTE NM HYD          215.00   -    25        .00311        5.41        .190      1.14585    1.500     2.716
PER IMP=  90.00
    *S ADD O1 AND O2
    ADD HYD                 300.00 21&22  28        .01563       23.47        .913      1.09474    1.533     2.346
    ROUTE RESERVOIR         301.00   28   29        .01563        6.10        .923      1.10678    2.066      .609
AC-FT=     .503
    ROUTE RESERVOIR         302.00    1   30        .00780        2.94        .483      1.16169    2.033      .589
AC-FT=     .273
    *S ADD OFFSITE POND AND POND 1
    ADD HYD                 303.00 29&30  31        .02343        9.03       1.406      1.12505    2.066      .602
    ROUTE RESERVOIR         304.00    3   32        .00833        2.84       3.836      8.63458    2.066      .533
AC-FT=     .257
    *S ADD HYD 303 AND POND 3
    ADD HYD                 306.00 31&32  34        .03176       11.88       5.242      3.09468    2.066      .584
    *S ADD B1 AND B2
```

PAGE = 2

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE

NOTATION

```
    ADD HYD                 308.00 11&12  36        .00258        4.49        .157      1.14426    1.500    2.717
    *S ADD HYD 308 AND B3
    ADD HYD                 309.00 36&13  37        .00448        7.66        .268      1.12321    1.500    2.671
    *S ADD B5 AND B6
    ADD HYD                 310.00 15&16  38        .01232       19.60        .739      1.12412    1.533    2.486
    *S ADD HYD 309 AND HYD 310
    ADD HYD                 311.00 37&38  39        .01680       27.17       1.007      1.12388    1.500    2.527
    ROUTE RESERVOIR         312.00   39   40        .01680        7.70       1.007      1.12388    1.933     .716
AC-FT=     .481
    *S ADD HYD 306 AND POND 5
    ADD HYD                 320.00 34&40  42        .04856       19.55       6.249      2.41285    2.000     .629
    *S ADD HYD 320 AND B7
    ADD HYD                 321.00 42&17  43        .05032       20.34       6.358      2.36894    1.900     .632
    *S ADD HYD 321 AND B8
    ADD HYD                 322.00 43&18  44        .05281       22.05       6.511      2.31183    1.667     .652
    *S ADD HYD 322 AND B9
    ADD HYD                 323.00 44&19  45        .06006       33.21       6.954      2.17108    1.533     .864
    ROUTE RESERVOIR         324.00   45   46        .06006       23.32       6.924      2.16167    2.066     .607
AC-FT=     .502
    ROUTE RESERVOIR         325.00   20   48        .00748        2.17        .453      1.13646    2.100     .454
AC-FT=     .294
    *S ADD A2 AND OS3
    ADD HYD                 326.00  2&25  49        .00934       15.66        .551      1.10576    1.500    2.620
    ROUTE RESERVOIR         400.00   49   50        .00934        2.53       3.280      6.58535    2.100     .423
AC-FT=     .327
    *S ADD A4 AND OS2
    ADD HYD                 327.00  4&24  51        .01120       18.51        .651      1.09006    1.500    2.582
    ROUTE RESERVOIR         401.00   51   52        .01120        4.12       4.705      7.87751    2.033     .575
AC-FT=     .323
    ROUTE RESERVOIR         402.00   14   53        .00459        2.92        .268      1.09473    1.766     .995
AC-FT=     .103
    *S ADD POND 2 AND POND 4
    ADD HYD                 500.00 50&52  55        .02054        6.65       7.986      7.28989    2.066     .506
    *S ADD HYD 500 AND POND 8
    ADD HYD                 501.00 55&53  56        .02513        9.48       8.254      6.15832    1.866     .590
    *S ADD HYD 501 AND POND 7
    ADD HYD                 502.00 56&48  57        .03261       11.60       8.707      5.00639    1.933     .556
    *S ADD HYD 502 AND POND 6
    ADD HYD                 503.00 57&46  58        .09267       34.86      15.631      3.16268    2.066     .588
    FINISH
```

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.673                                                    DEV100
    *S ADD HYD 502 AND POND 6
    ADD HYD                 503.00 57&46  58        .09267        45.14       18.366       3.71597    2.000
.761
    FINISH
```

APPENDIX C

Hydraflow Inlet and Storm Drain Analysis
and
Orifice Calculations

Oxbow Town Center
6010
Orifice Plate Design
10/2/2007

Pond 1

$Q_{Allowable}$	3.58	cfs
Coef. Of Discharge	0.61	
Orifice Diameter	0.70	ft
Orifice Area	0.38	ft^2
Orifice Invert Elevation	5108.00	ft
Pond Bottom	5109.00	ft
MWSEL	5112.00	ft

WSEL	Q_{OUT}
5109.0	0.00
5110.0	2.41
5111.0	3.05
5112.0	3.58

$Q_{Discharged}$	3.58	Check	0.00

Pond 2

$Q_{Allowable}$	2.86	cfs
Coef. Of Discharge	0.61	
Orifice Diameter	0.62	ft
Orifice Area	0.30	ft^2
Orifice Invert Elevation	5109.00	ft
Pond Bottom	5111.00	ft
MWSEL	5113.00	ft

WSEL	Q_{OUT}
5111.0	0.00
5112.0	2.44
5113.0	2.86
5114.0	3.22
5115.0	3.55

$Q_{Discharged}$	2.86	Check	0.00

Pond 3

$Q_{Allowable}$	3.83	cfs
Coef. Of Discharge	0.61	
Orifice Diameter	0.68	ft
Orifice Area	0.36	ft^2
Orifice Invert Elevation	5109.00	ft
Pond Bottom	5111.00	ft
MWSEL	5114.00	ft

WSEL	Q_{OUT}
5111.0	0.00
5112.0	2.89
5113.0	3.39
5114.0	3.83
5115.0	4.22

$Q_{Discharged}$	3.83	Check	0.00

Oxbow Town Center
6010
Orifice Plate Design
10/2/2007

Pond 4

			WSEL	Q_{OUT}
$Q_{Allowable}$	5.13	cfs	5111.0	0.00
Coef. Of Discharge	0.61		5112.0	3.50
Orifice Diameter	0.75	ft	5113.0	4.12
Orifice Area	0.44	ft^2	5114.0	4.65
Orifice Invert Elevation	5109.00	ft	5115.0	5.13
Pond Bottom	5111.00	ft	5115.5	5.35
MWSEL	5115.00	ft		
$Q_{Discharged}$	5.13		Check	0.00

Pond 5

			WSEL	Q_{OUT}
$Q_{Allowable}$	9.80	cfs	5108.0	0.00
Coef. Of Discharge	0.61		5109.0	5.44
Orifice Diameter	1.00	ft	5110.0	6.66
Orifice Area	0.79	ft^2	5111.0	7.69
Orifice Invert Elevation	5106.50	ft	5112.0	8.60
Pond Bottom	5108.00	ft	5113.0	9.42
MWSEL	5113.50	ft	5114.0	10.17
$Q_{Discharged}$	9.80		Check	0.00

Pond 6 (90" CMP Underground Storage)

			WSEL	Q_{OUT}
$Q_{Allowable}$	31.40	cfs	5103.0	12.61
Coef. Of Discharge	0.61		5105.0	21.44
Orifice Diameter	1.79	ft	5107.0	27.58
Orifice Area	2.50	ft^2	5108.0	30.18
Orifice Invert Elevation	5101.05	ft	5109.0	32.58
Pond Bottom	5101.05	ft		
MWSEL	5108.50	ft		
$Q_{Discharged}$	31.40		Check	0.00

Oxbow Town Center
6010
Orifice Plate Design
10/2/2007

Pond 7 (90" CMP Underground Storage)

$Q_{Allowable}$	3.00	cfs
Coef. Of Discharge	0.61	
Orifice Diameter	0.54	ft
Orifice Area	0.23	ft^2
Orifice Invert Elevation	5104.50	ft
Pond Bottom	5104.50	ft
MWSEL	5112.00	ft

WSEL	Q_{OUT}
5106.5	1.47
5108.5	2.16
5110.5	2.67
5112.0	3.00

$Q_{Discharged}$	3.00	Check	0.00

Pond 8 (90" CMP Underground Storage)

$Q_{Allowable}$	4.72	cfs
Coef. Of Discharge	0.61	
Orifice Diameter	0.68	ft
Orifice Area	0.36	ft^2
Orifice Invert Elevation	5105.00	ft
Pond Bottom	5105.00	ft
MWSEL	5112.50	ft

WSEL	Q_{OUT}
5107.0	2.27
5109.0	3.38
5111.0	4.20
5112.5	4.72

$Q_{Discharged}$	4.72	Check	0.00

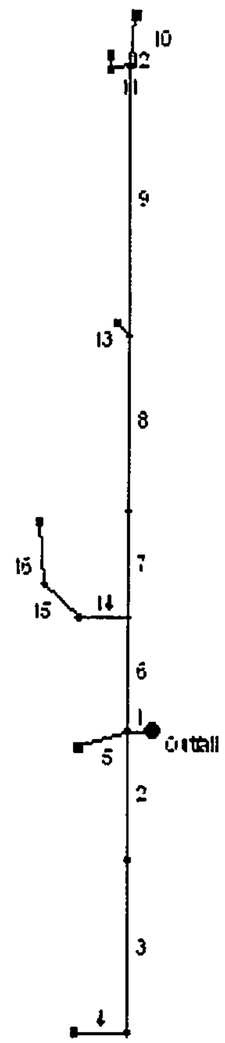
Offsite Detention Pond on Church Tract

$Q_{Allowable}$	9.50	cfs
Coef. Of Discharge	0.61	
Orifice Diameter	1.08	ft
Orifice Area	0.92	ft^2
Orifice Invert Elevation	5108.00	ft
Pond Bottom	5108.00	ft
MWSEL	5113.00	ft

WSEL	Q_{OUT}
5110.0	5.43
5111.0	7.05
5112.0	8.37
5113.0	9.50

$Q_{Discharged}$	9.50	Check	0.00

Hydraflow Plan View



Project file: SD012607-1.stm	IDF file: sampleFHA.IDF	No. Lines: 16	10-02-2007

Hydraflow Summary Report

Line No.	Line ID	Flow rate (cfs)	Line size (in)	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line slope (%)	HGL down (ft)	HGL up (ft)	Minor loss (ft)	Dns line No.
1		48.44	36 c	44.0	5099.00	5100.20	2.728	5102.00	5102.42	0.81	End
2		2.84	18 c	204.0	5100.20	5101.97	0.868	5103.23	5103.37	0.00	1
3		2.84	18 c	267.0	5101.97	5103.84	0.700	5103.47	5104.48	0.06	2
4		2.84	18 c	91.0	5104.00	5104.64	0.703	5105.50	5105.54	0.01	3
5		30.26	24 c	87.0	5100.20	5101.05	0.977	5103.23*	5104.79*	0.07	1
6		15.34	24 c	178.0	5100.20	5101.70	0.843	5103.23*	5104.05*	0.02	1
7		11.51	18 c	167.0	5101.70	5103.12	0.850	5104.07*	5106.08*	0.03	6
8		11.51	18 c	270.0	5103.12	5105.42	0.852	5106.11*	5109.35*	0.16	7
9		6.89	18 c	424.0	5105.42	5108.00	0.609	5109.52*	5111.35*	0.17	8
10		2.89	18 c	80.0	5108.00	5110.00	2.500	5111.51*	5111.57*	0.00	9
11		4.00	18 c	32.0	5108.00	5110.50	7.813	5111.51	5111.49	0.06	9
12		2.00	18 c	24.0	5110.50	5111.50	4.167	5112.00	5112.04	0.00	11
13		4.62	18 c	30.0	5111.40	5112.00	2.000	5112.90	5112.82	0.02	8
14		3.83	18 c	84.0	5101.70	5102.77	1.274	5104.07	5104.17	0.00	6
15		3.83	18 c	81.0	5102.77	5103.79	1.259	5104.27	5104.54	0.01	14
16		3.83	18 c	95.0	5103.79	5105.00	1.274	5105.29	5105.75	0.00	15

Project File: SD012607-1.stm	IDF File: sampleFHA.IDF	Total No. Lines: 16	Run Date: 10-02-2007

NOTES: c = circular; e = elliptical; b = box; Return period = 2 Yrs.; * Indicates surcharge condition.

Hydraflow Hydraulic Grade Line Computations

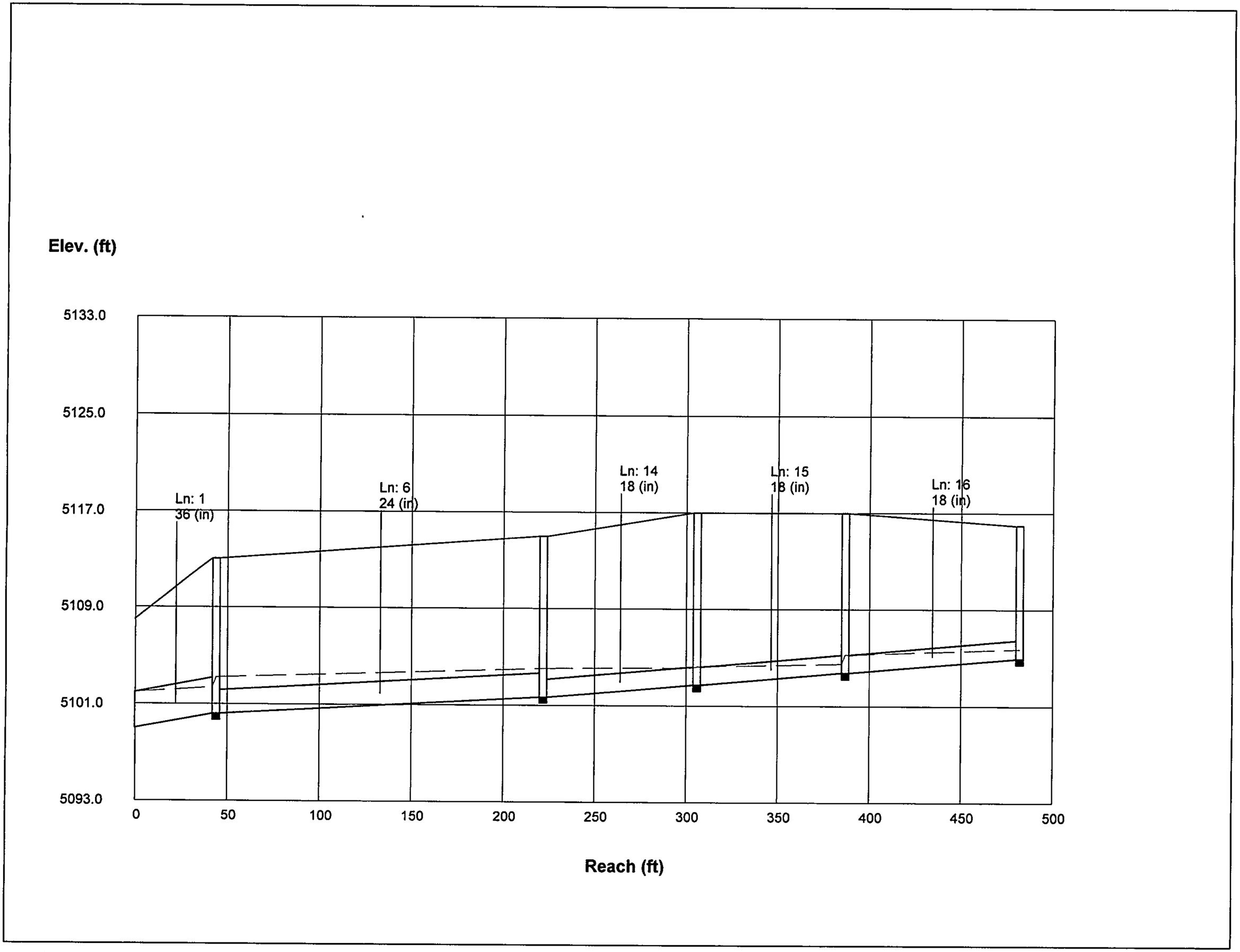
Line	Size	Q	Downstream								Len	Upstream								Check		JL coeff	Minor loss
	(in)	(cfs)	Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)	(ft)	Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)	Ave Sf (%)	Enrgy loss (ft)	(K)	(ft)
1	36	48.44	5099.00	5102.00	3.00	7.07	6.85	0.73	5102.73	0.528	44.0	5100.20	5102.42	2.22**	5.60	8.64	1.16	5103.58	0.656	0.592	N/A	0.70	0.81
2	18	2.84	5100.20	5103.23	1.50	1.77	1.61	0.04	5103.27	0.073	204	5101.97	5103.37	1.40	1.71	1.66	0.04	5103.41	0.063	0.068	0.139	0.05	0.00
3	18	2.84	5101.97	5103.47	1.50*	1.77	1.61	0.04	5103.51	0.073	267	5103.84	5104.48	0.64**	0.72	3.92	0.24	5104.72	0.501	0.287	N/A	0.25	0.06
4	18	2.84	5104.00	5105.50	1.50*	1.77	1.61	0.04	5105.54	0.073	91.0	5104.64	5105.54	0.90	1.11	2.55	0.10	5105.65	0.160	0.116	0.106	0.05	0.01
5	24	30.26	5100.20	5103.23	2.00	3.14	9.63	1.44	5104.67	1.791	87.0	5101.05	5104.79	2.00	3.14	9.63	1.44	5106.23	1.790	1.790	1.558	0.05	0.07
6	24	15.34	5100.20	5103.23	2.00	3.14	4.88	0.37	5103.60	0.460	178	5101.70	5104.05	2.00	3.14	4.88	0.37	5104.42	0.460	0.460	0.819	0.05	0.02
7	18	11.51	5101.70	5104.07	1.50	1.77	6.51	0.66	5104.73	1.202	167	5103.12	5106.08	1.50	1.77	6.51	0.66	5106.74	1.201	1.202	2.007	0.05	0.03
8	18	11.51	5103.12	5106.11	1.50	1.77	6.51	0.66	5106.77	1.202	270	5105.42	5109.35	1.50	1.77	6.51	0.66	5110.01	1.201	1.202	3.244	0.25	0.16
9	18	6.89	5105.42	5109.52	1.50	1.77	3.90	0.24	5109.76	0.431	424	5108.00	5111.35	1.50	1.77	3.90	0.24	5111.58	0.431	0.431	1.826	0.70	0.17
10	18	2.89	5108.00	5111.51	1.50	1.77	1.64	0.04	5111.55	0.076	80.0	5110.00	5111.57	1.50	1.77	1.64	0.04	5111.61	0.076	0.076	0.061	0.00	0.00
11	18	4.00	5108.00	5111.51	1.50	1.77	2.26	0.08	5111.59	0.145	32.0	5110.50	5111.49	0.99	1.23	3.24	0.16	5111.65	0.244	0.195	0.062	0.35	0.06
12	18	2.00	5110.50	5112.00	1.50*	1.77	1.13	0.02	5112.02	0.036	24.0	5111.50	5112.04	0.54**	0.57	3.49	0.19	5112.23	0.473	0.255	N/A	0.00	0.00
13	18	4.62	5111.40	5112.90	1.50*	1.77	2.61	0.11	5113.01	0.194	30.0	5112.00	5112.82	0.82	0.99	4.65	0.34	5113.16	0.566	0.380	0.114	0.05	0.02
14	18	3.83	5101.70	5104.07	1.50	1.77	2.17	0.07	5104.14	0.133	84.0	5102.77	5104.17	1.40	1.72	2.23	0.08	5104.25	0.115	0.124	0.104	0.05	0.00
15	18	3.83	5102.77	5104.27	1.50*	1.77	2.17	0.07	5104.34	0.133	81.0	5103.79	5104.54	0.75**	0.88	4.36	0.30	5104.83	0.539	0.336	N/A	0.05	0.01
16	18	3.83	5103.79	5105.29	1.50*	1.77	2.17	0.07	5105.36	0.133	95.0	5105.00	5105.75	0.75**	0.88	4.36	0.30	5106.04	0.539	0.336	N/A	0.00	0.00

Project File: SD012607-1.stm	IDF File: sampleFHA.IDF	Total number of lines: 16	Run Date: 10-02-2007

NOTES: Initial tailwater elevation = 5102 (ft) , * Crown depth assumed., ** Critical depth assumed., i Under inlet control.

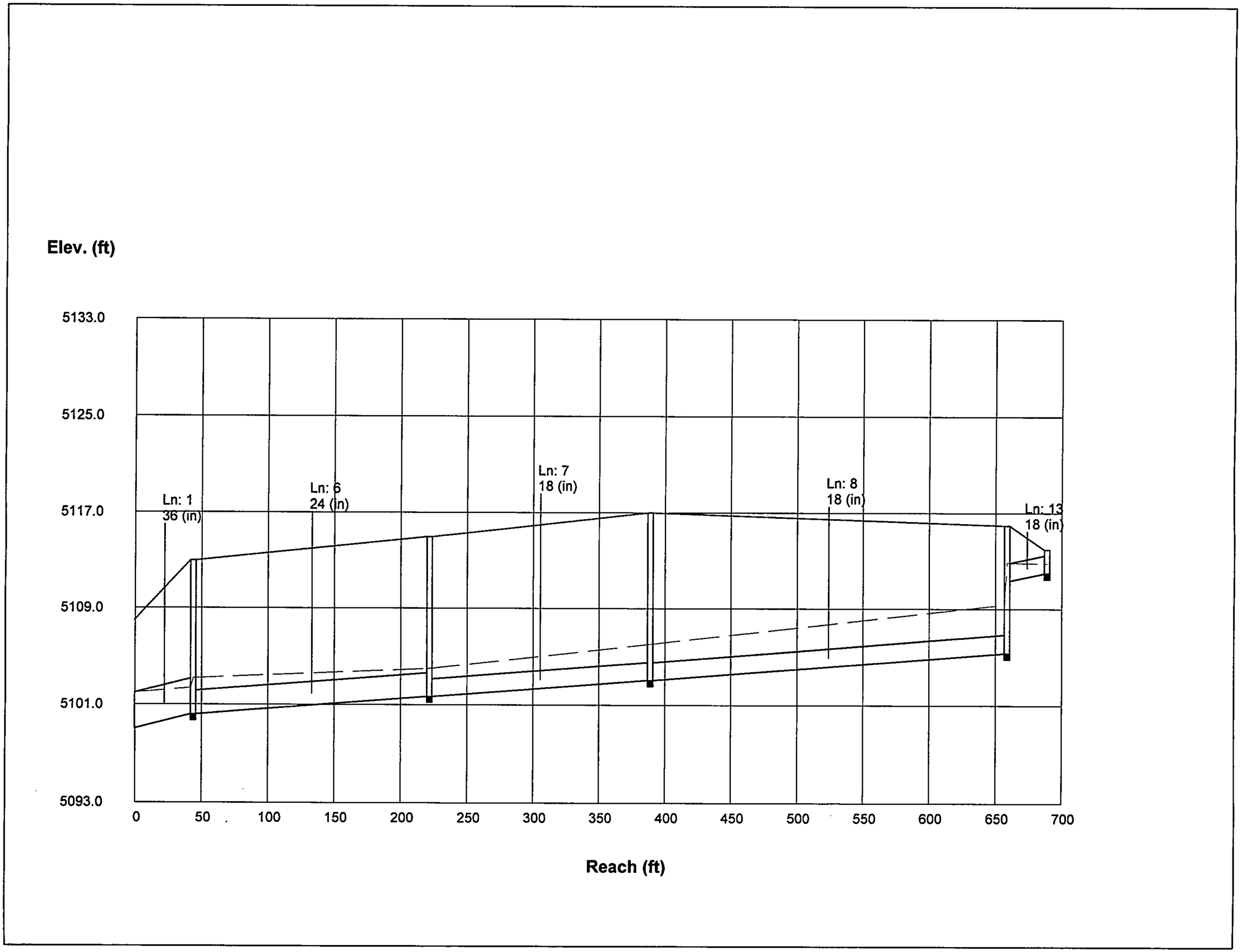
Storm Sewer Profile

Proj. file: SD012607-1.stm



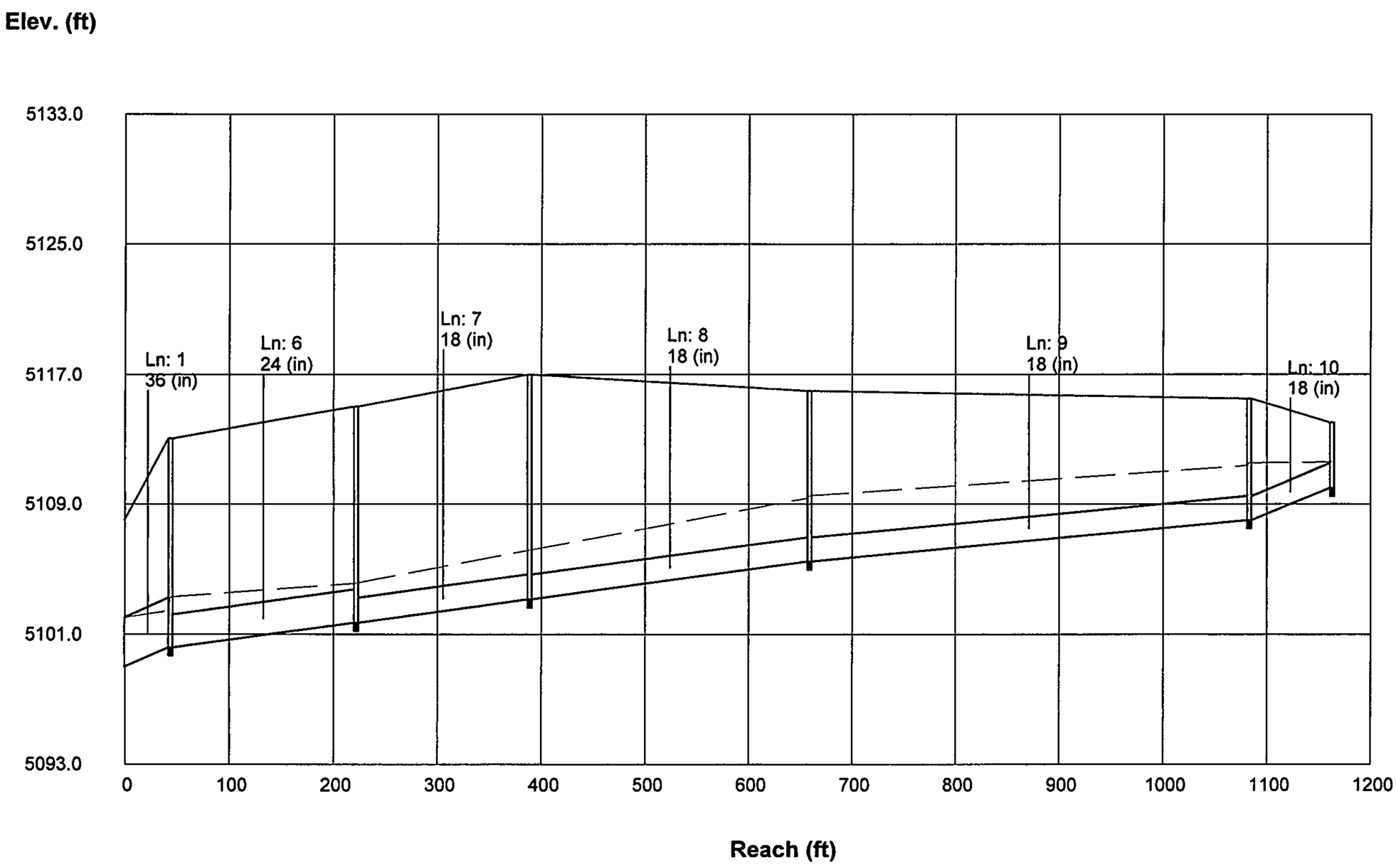
Storm Sewer Profile

Proj. file: SD012607-1.stm



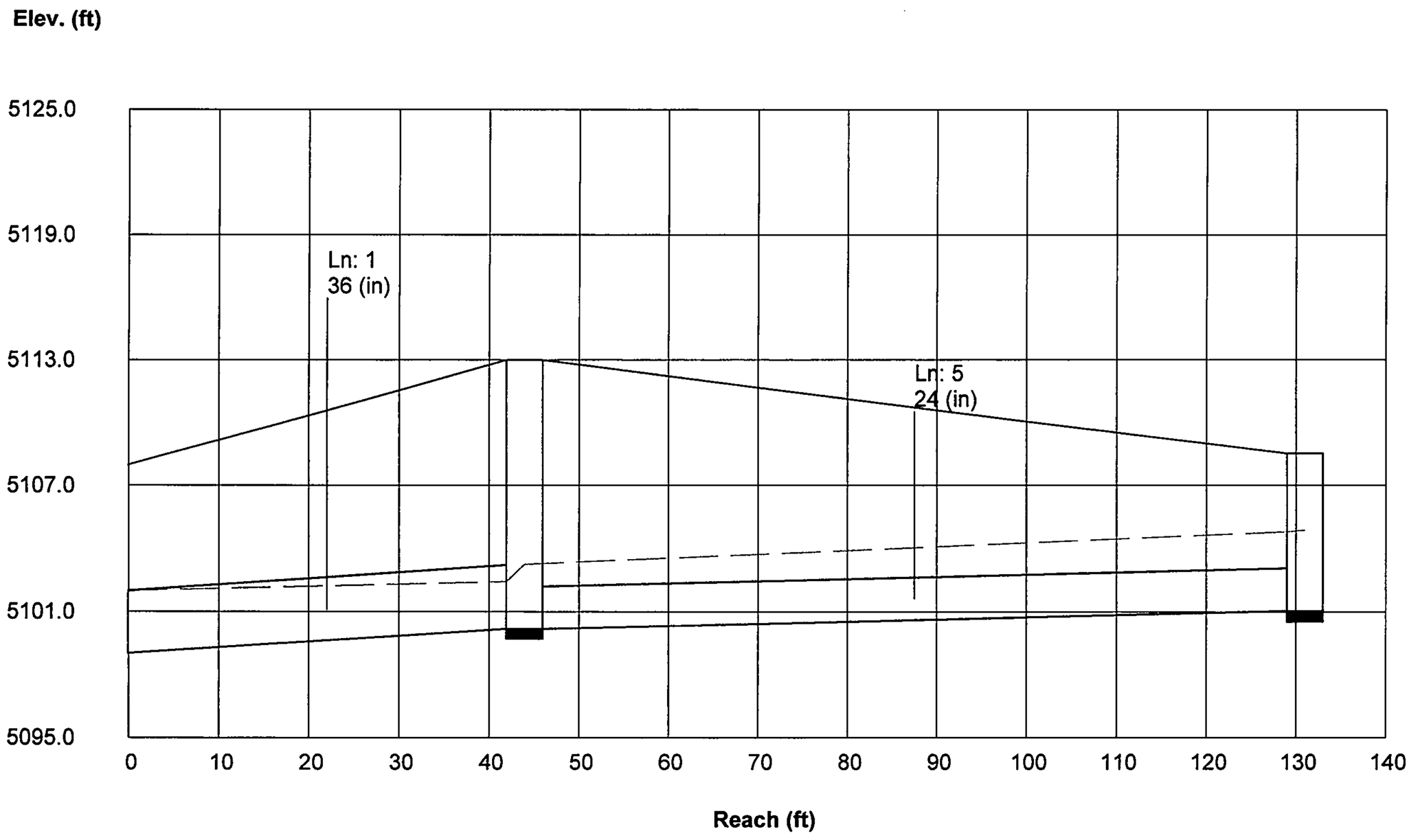
Storm Sewer Profile

Proj. file: SD012607-1.stm



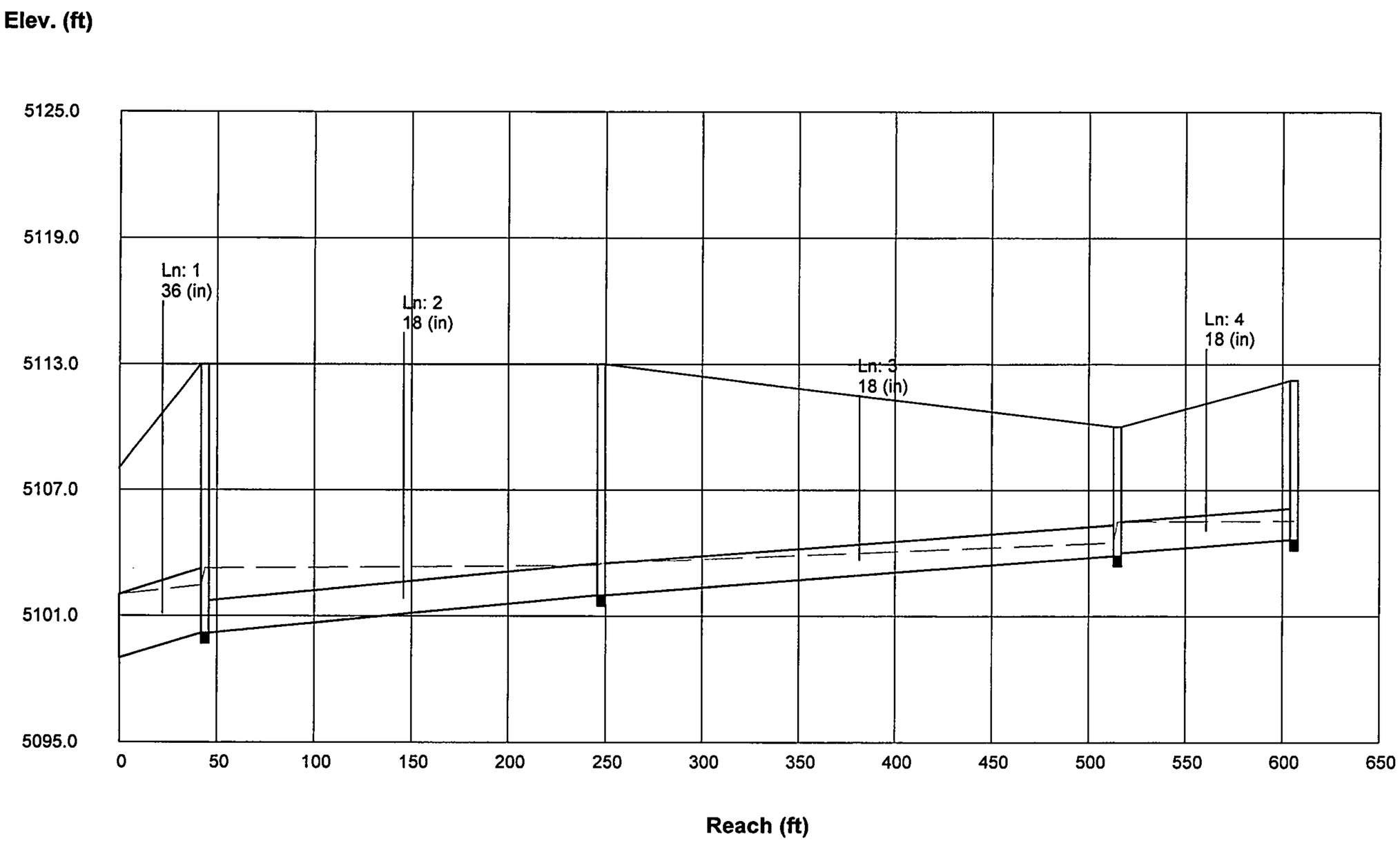
Storm Sewer Profile

Proj. file: SD012607-1.stm

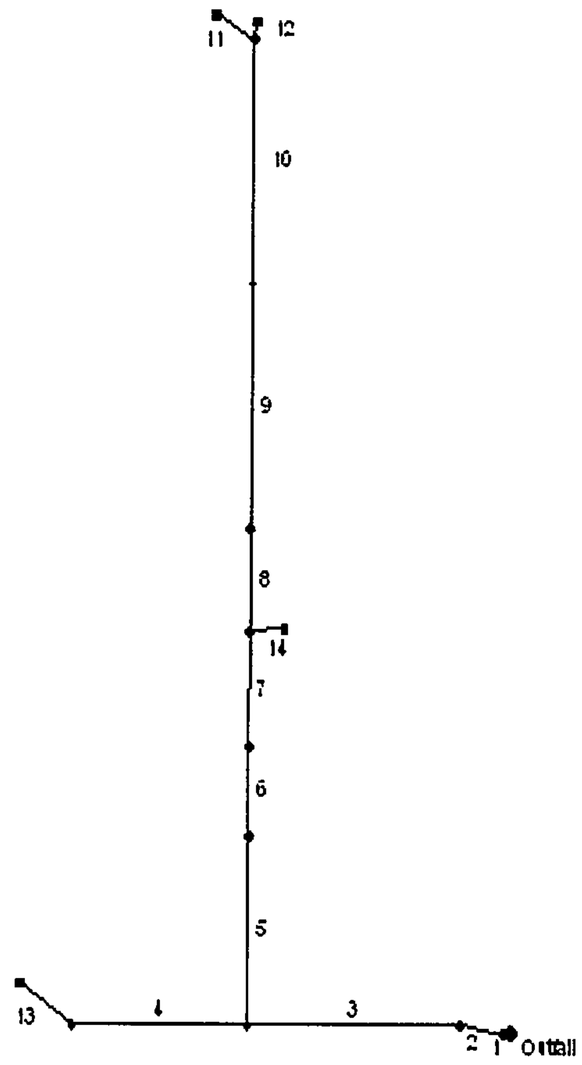


Storm Sewer Profile

Proj. file: SD012607-1.stm



Hydraflow Plan View



Project file: SD012607-2.stm	IDF file: sampleFHA.IDF	No. Lines: 14	10-02-2007

Hydraflow Summary Report

Line No.	Line ID	Flow rate (cfs)	Line size (in)	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line slope (%)	HGL down (ft)	HGL up (ft)	Minor loss (ft)	Dns line No.
1		21.82	30 c	10.0	5100.95	5101.05	0.996	5103.45	5103.47	0.00	End
2		21.82	30 c	70.0	5101.05	5101.40	0.500	5103.55	5103.71	0.03	1
3		21.82	30 c	340.0	5101.40	5103.10	0.500	5103.90	5104.83	0.28	2
4		7.92	18 c	280.0	5103.10	5105.97	1.025	5105.11	5107.04	0.08	3
5		13.90	24 c	267.0	5103.10	5103.90	0.300	5105.11*	5106.12*	0.02	3
6		13.90	24 c	131.0	5103.90	5104.33	0.328	5106.14*	5106.63*	0.02	5
7		13.90	24 c	165.0	5104.33	5104.87	0.327	5106.65*	5107.27*	0.08	6
8		11.34	24 c	150.0	5104.87	5105.36	0.326	5107.35*	5107.73*	0.01	7
9		11.34	24 c	350.0	5105.36	5106.52	0.331	5107.74*	5108.62*	0.01	8
10		11.34	24 c	350.0	5106.52	5107.77	0.357	5108.63	5109.44	0.01	9
11		8.01	18 c	70.0	5107.77	5108.00	0.329	5109.45*	5109.86*	0.00	10
12		3.33	18 c	25.0	5107.77	5108.00	0.920	5109.45	5109.48	0.00	10
13		7.92	18 c	100.0	5105.97	5107.00	1.030	5107.47	5108.07	0.00	4
14		2.56	18 c	55.0	5106.70	5110.00	6.000	5108.20	5110.61	0.00	7

Project File: SD012607-2.stm	IDF File: sampleFHA.IDF	Total No. Lines: 14	Run Date: 10-02-2007

NOTES: c = circular; e = elliptical; b = box; Return period = 2 Yrs.; * Indicates surcharge condition.

Hydraflow Hydraulic Grade Line Computations

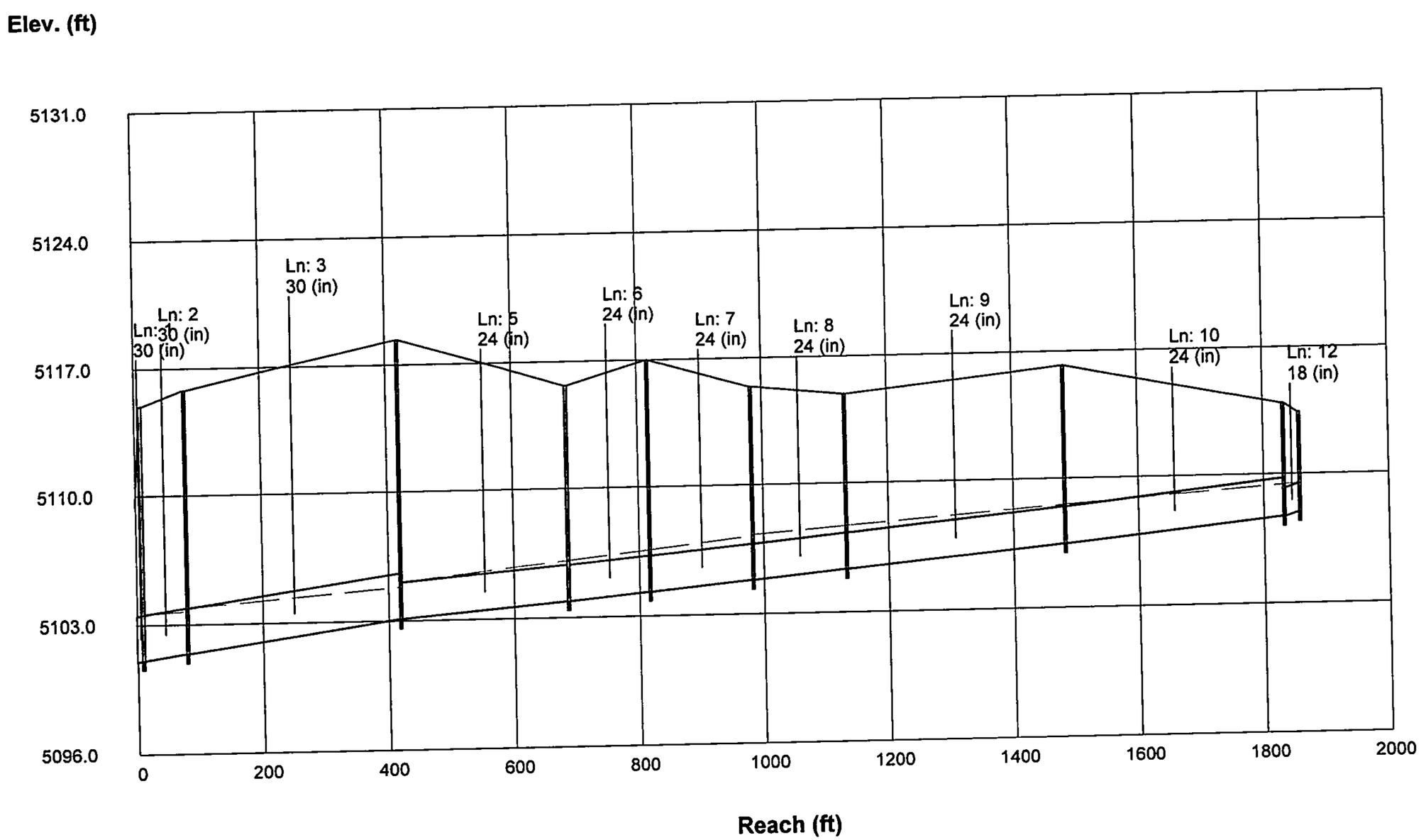
Line	Size	Q	Downstream								Len	Upstream								Check		JL coeff	Minor loss
	(in)	(cfs)	Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)	(ft)	Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)	Ave Sf (%)	Enrgy loss (ft)	(K)	(ft)
1	30	21.82	5100.95	5103.45	2.50	4.91	4.45	0.31	5103.76	0.283	10.0	5101.05	5103.47	2.42	4.86	4.49	0.31	5103.78	0.249	0.266	0.027	0.00	0.00
2	30	21.82	5101.05	5103.55	2.50*	4.91	4.45	0.31	5103.86	0.283	70.0	5101.40	5103.71	2.31	4.74	4.60	0.33	5104.04	0.245	0.264	0.185	0.10	0.03
3	30	21.82	5101.40	5103.90	2.50*	4.91	4.45	0.31	5104.21	0.283	340	5103.10	5104.83	1.73	3.63	6.01	0.56	5105.40	0.414	0.349	1.186	0.50	0.28
4	18	7.92	5103.10	5105.11	1.50	1.77	4.48	0.31	5105.43	0.569	280	5105.97	5107.04	1.07**	1.35	5.85	0.53	5107.58	0.765	0.667	N/A	0.15	0.08
5	24	13.90	5103.10	5105.11	2.00	3.14	4.43	0.30	5105.42	0.378	267	5103.90	5106.12	2.00	3.14	4.42	0.30	5106.43	0.378	0.378	1.009	0.05	0.02
6	24	13.90	5103.90	5106.14	2.00	3.14	4.43	0.30	5106.44	0.378	131	5104.33	5106.63	2.00	3.14	4.42	0.30	5106.94	0.378	0.378	0.495	0.05	0.02
7	24	13.90	5104.33	5106.65	2.00	3.14	4.43	0.30	5106.95	0.378	165	5104.87	5107.27	2.00	3.14	4.42	0.30	5107.58	0.378	0.378	0.623	0.25	0.08
8	24	11.34	5104.87	5107.35	2.00	3.14	3.61	0.20	5107.55	0.251	150	5105.36	5107.73	2.00	3.14	3.61	0.20	5107.93	0.251	0.251	0.377	0.05	0.01
9	24	11.34	5105.36	5107.74	2.00	3.14	3.61	0.20	5107.94	0.251	350	5106.52	5108.62	2.00	3.14	3.61	0.20	5108.82	0.251	0.251	0.880	0.05	0.01
10	24	11.34	5106.52	5108.63	2.00	3.14	3.61	0.20	5108.83	0.251	350	5107.77	5109.44	1.67	2.80	4.05	0.25	5109.70	0.243	0.247	0.866	0.05	0.01
11	18	8.01	5107.77	5109.45	1.50	1.77	4.53	0.32	5109.77	0.582	70.0	5108.00	5109.86	1.50	1.77	4.53	0.32	5110.18	0.582	0.582	0.407	0.00	0.00
12	18	3.33	5107.77	5109.45	1.50	1.77	1.88	0.06	5109.51	0.101	25.0	5108.00	5109.48	1.48	1.76	1.89	0.06	5109.53	0.091	0.096	0.024	0.00	0.00
13	18	7.92	5105.97	5107.47	1.50*	1.77	4.48	0.31	5107.78	0.569	100	5107.00	5108.07	1.07**	1.35	5.85	0.53	5108.61	0.765	0.667	N/A	0.00	0.00
14	18	2.56	5106.70	5108.20	1.50*	1.77	1.45	0.03	5108.23	0.059	55.0	5110.00	5110.61	0.61**	0.68	3.79	0.22	5110.83	0.491	0.275	N/A	0.00	0.00

Project File: SD012607-2.stm	IDF File: sampleFHA.IDF	Total number of lines: 14	Run Date: 10-02-2007

NOTES: Initial tailwater elevation = 5103.45 (ft) , * Crown depth assumed., ** Critical depth assumed., i Under inlet control.

Storm Sewer Profile

Proj. file: SD012607-2.stm



Storm Sewer Profile

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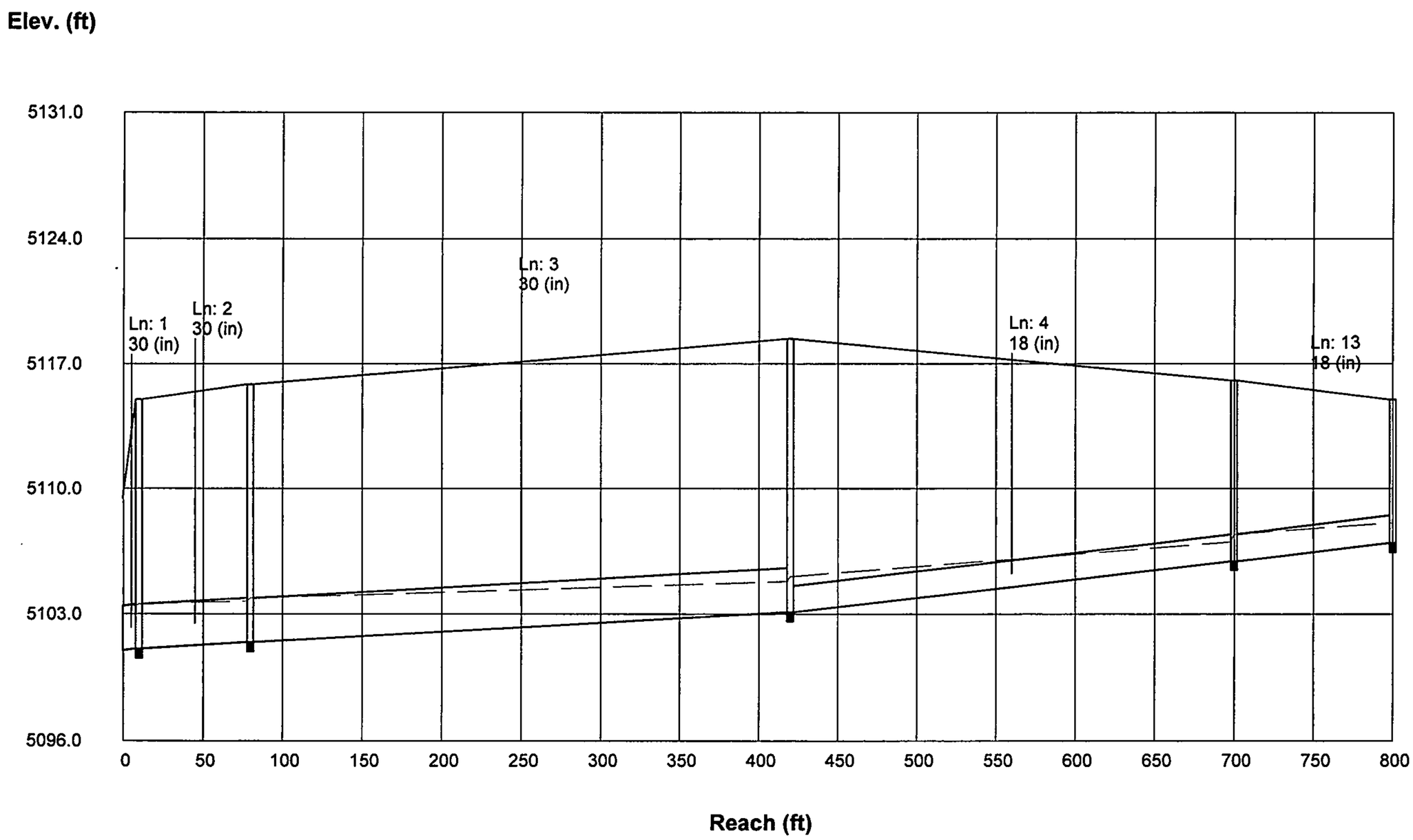

Storm Sewer Profile

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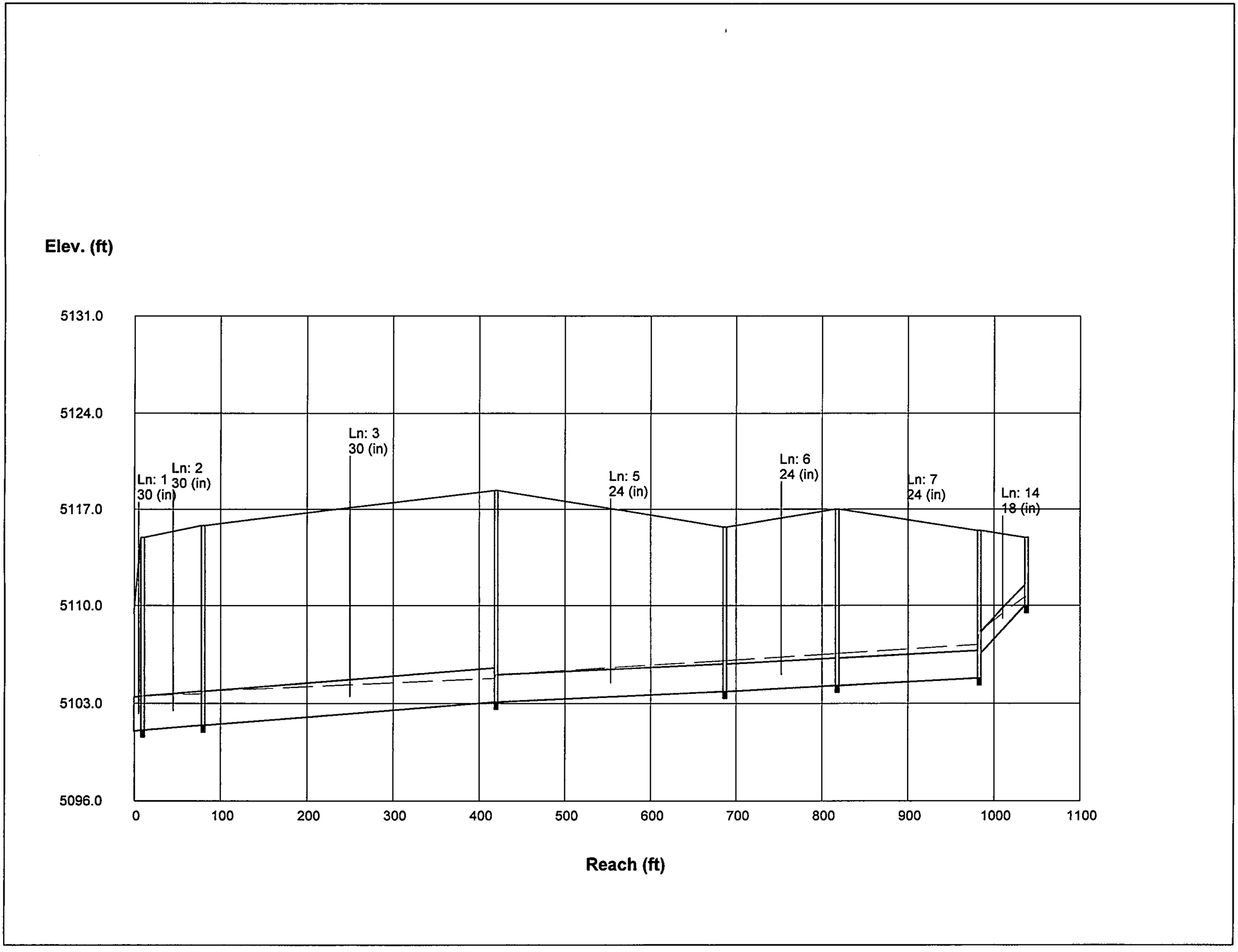
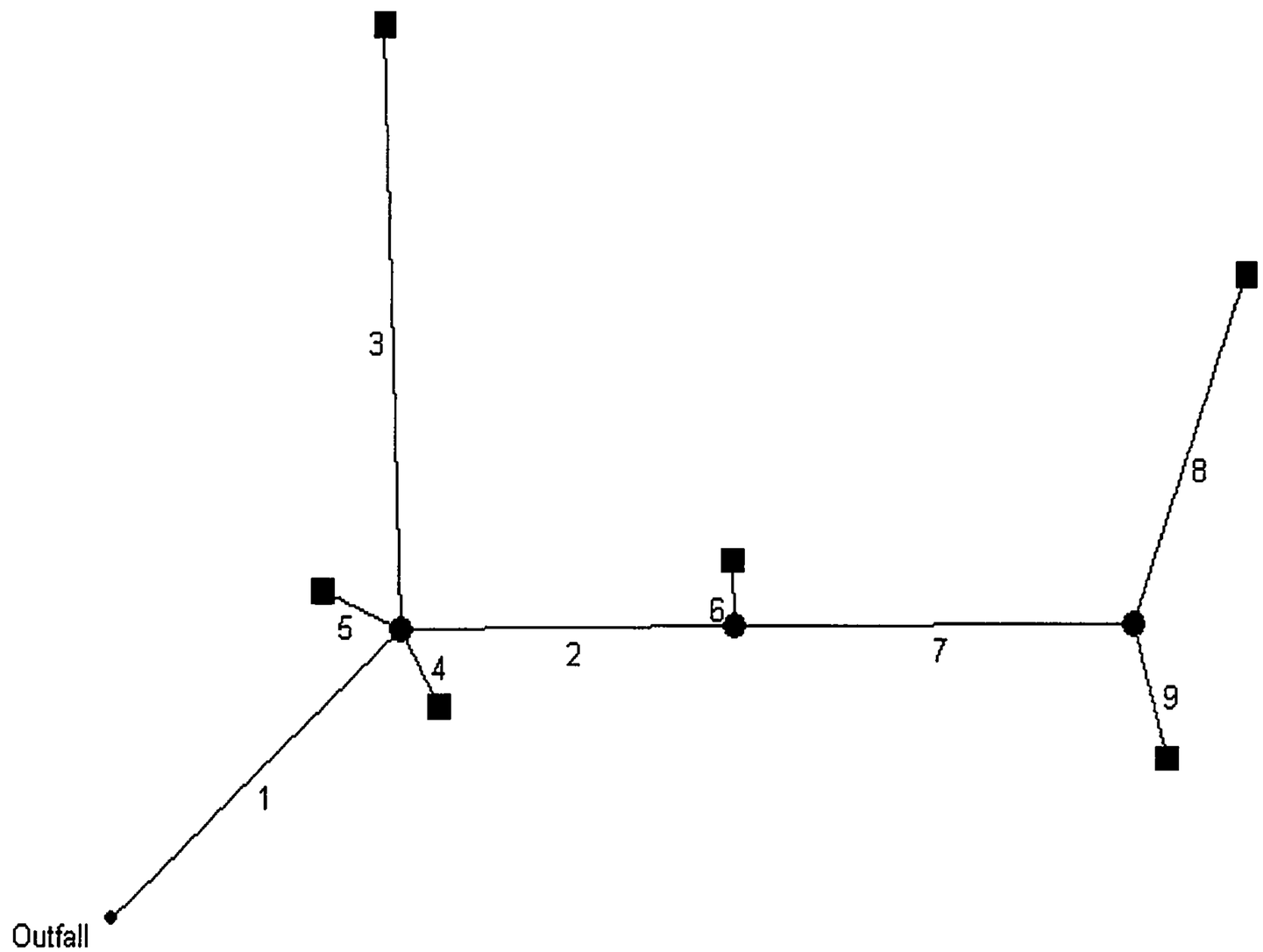


Hydraflow Plan View



Project file: SD012607-3.stm	IDF file: sampleFHA.IDF	No. Lines: 9	02-02-2007

Hydraflow Summary Report

Line No.	Line ID	Flow rate (cfs)	Line size (in)	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line slope (%)	HGL down (ft)	HGL up (ft)	Minor loss (ft)	Dns line No.
1		21.30	30 c	114.0	5108.00	5108.67	0.588	5112.76*	5113.07*	0.13	End
2		9.32	24 c	98.0	5108.67	5109.36	0.704	5113.20*	5113.37*	0.03	1
3		2.80	24 c	160.0	5108.67	5110.50	1.144	5113.20*	5113.22*	0.00	1
4		8.68	18 c	23.0	5108.67	5110.33	7.218	5113.20*	5113.36*	0.00	1
5		0.50	18 c	25.0	5108.67	5110.25	6.320	5113.20*	5113.20*	0.00	1
6		0.94	18 c	17.0	5109.36	5110.20	4.943	5113.40*	5113.40*	0.00	2
7		8.38	24 c	117.0	5109.36	5110.18	0.701	5113.40*	5113.56*	0.03	2
8		5.31	18 c	98.0	5110.18	5110.76	0.591	5113.59*	5113.84*	0.00	7
9		3.07	18 c	37.0	5110.18	5111.98	4.864	5113.59*	5113.62*	0.00	7

Project File: SD012607-3.stm	IDF File: sampleFHA.IDF	Total No. Lines: 9	Run Date: 02-02-2007

NOTES: c = circular; e = elliptical; b = box; Return period = 2 Yrs.; * Indicates surcharge condition.

Hydraflow Hydraulic Grade Line Computations

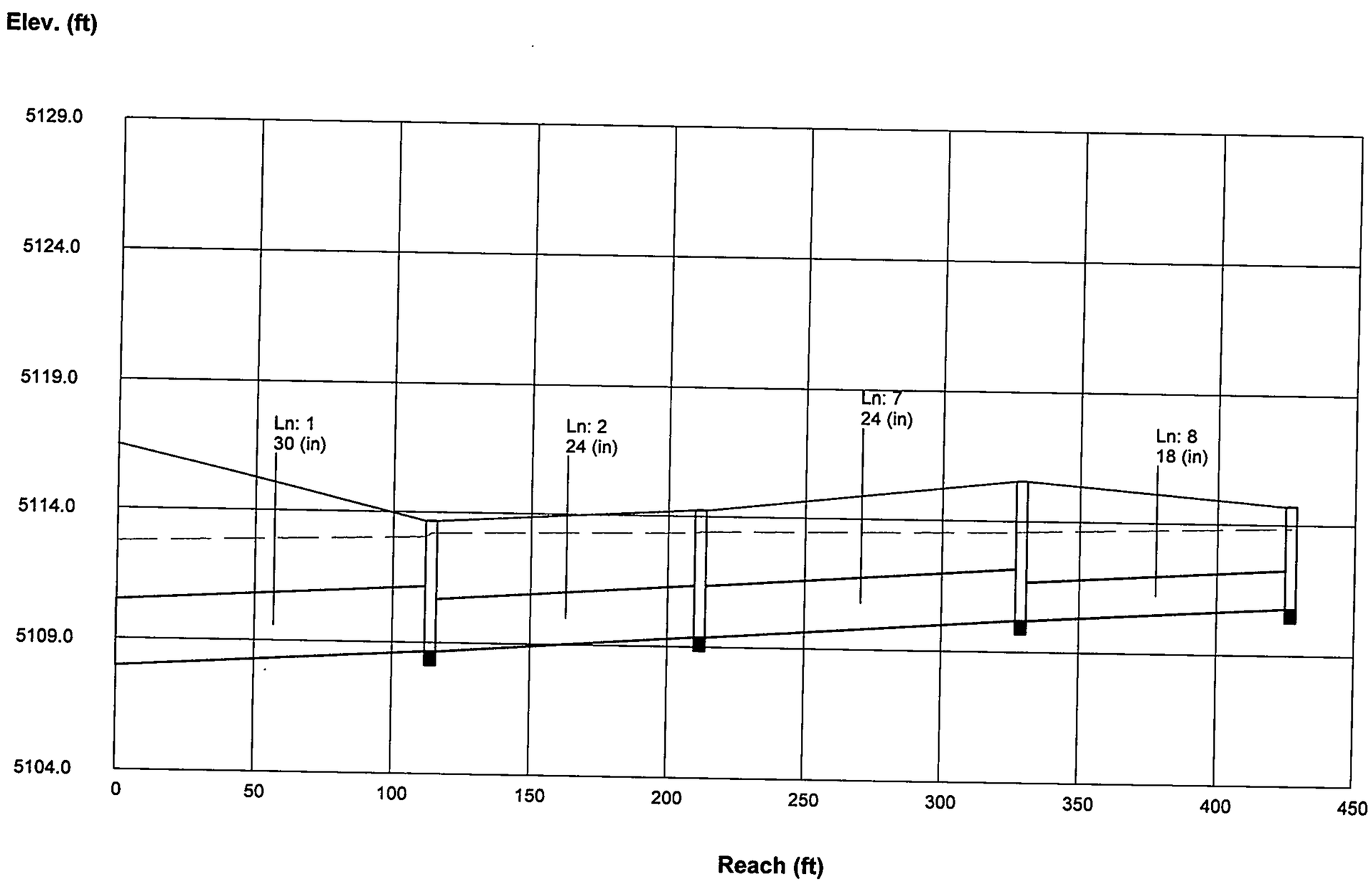
Line	Size	Q	Downstream								Len	Upstream								Check		JL coeff	Minor loss
	(in)	(cfs)	Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)	(ft)	Invert elev (ft)	HGL elev (ft)	Depth (ft)	Area (sqft)	Vel (ft/s)	Vel head (ft)	EGL elev (ft)	Sf (%)	Ave Sf (%)	Enrgy loss (ft)	(K)	(ft)
1	30	21.30	5108.00	5112.76	2.50	4.91	4.34	0.29	5113.05	0.270	114	5108.67	5113.07	2.50	4.91	4.34	0.29	5113.36	0.270	0.270	0.308	0.45	0.13
2	24	9.32	5108.67	5113.20	2.00	3.14	2.97	0.14	5113.34	0.170	98.0	5109.36	5113.37	2.00	3.14	2.97	0.14	5113.50	0.170	0.170	0.166	0.25	0.03
3	24	2.80	5108.67	5113.20	2.00	3.14	0.89	0.01	5113.21	0.015	160	5110.50	5113.22	2.00	3.14	0.89	0.01	5113.24	0.015	0.015	0.025	0.00	0.00
4	18	8.68	5108.67	5113.20	1.50	1.77	4.91	0.38	5113.57	0.684	23.0	5110.33	5113.36	1.50	1.77	4.91	0.38	5113.73	0.683	0.683	0.157	0.00	0.00
5	18	0.50	5108.67	5113.20	1.50	1.77	0.28	0.00	5113.20	0.002	25.0	5110.25	5113.20	1.50	1.77	0.28	0.00	5113.20	0.002	0.002	0.001	0.00	0.00
6	18	0.94	5109.36	5113.40	1.50	1.77	0.53	0.00	5113.40	0.008	17.0	5110.20	5113.40	1.50	1.77	0.53	0.00	5113.41	0.008	0.008	0.001	0.00	0.00
7	24	8.38	5109.36	5113.40	2.00	3.14	2.67	0.11	5113.51	0.137	117	5110.18	5113.56	2.00	3.14	2.67	0.11	5113.67	0.137	0.137	0.161	0.25	0.03
8	18	5.31	5110.18	5113.59	1.50	1.77	3.01	0.14	5113.73	0.256	98.0	5110.76	5113.84	1.50	1.77	3.00	0.14	5113.98	0.256	0.256	0.251	0.00	0.00
9	18	3.07	5110.18	5113.59	1.50	1.77	1.74	0.05	5113.64	0.086	37.0	5111.98	5113.62	1.50	1.77	1.74	0.05	5113.67	0.085	0.085	0.032	0.00	0.00

Project File: SD012607-3.stm | IDF File: sampleFHA.IDF | Total number of lines: 9 | Run Date: 02-02-2007

NOTES: Initial tailwater elevation = 5112.76 (ft) , * Crown depth assumed., ** Critical depth assumed., i Under inlet control.

Storm Sewer Profile

Proj. file: SD012607-3.stm



Storm Sewer Profile

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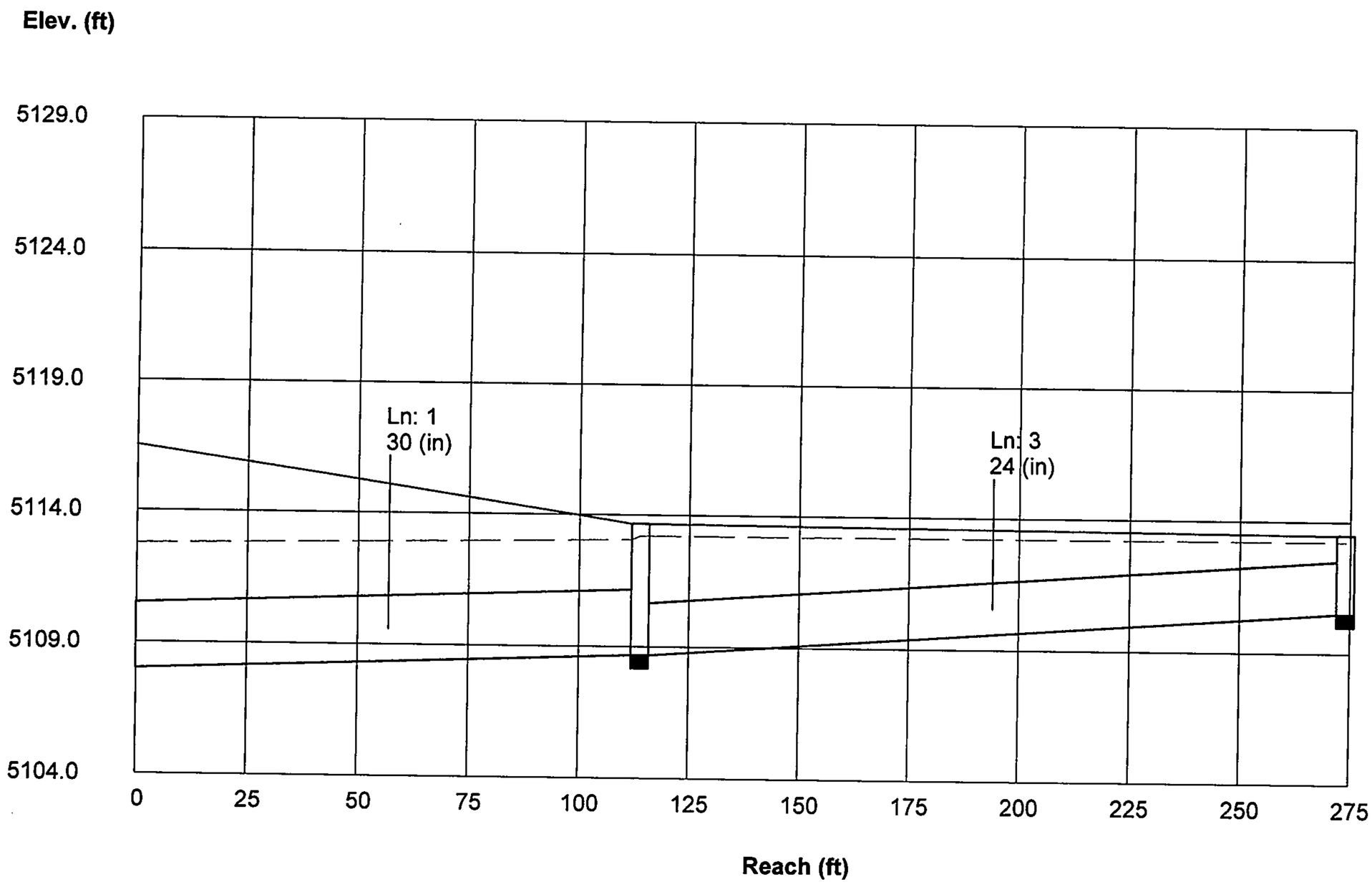
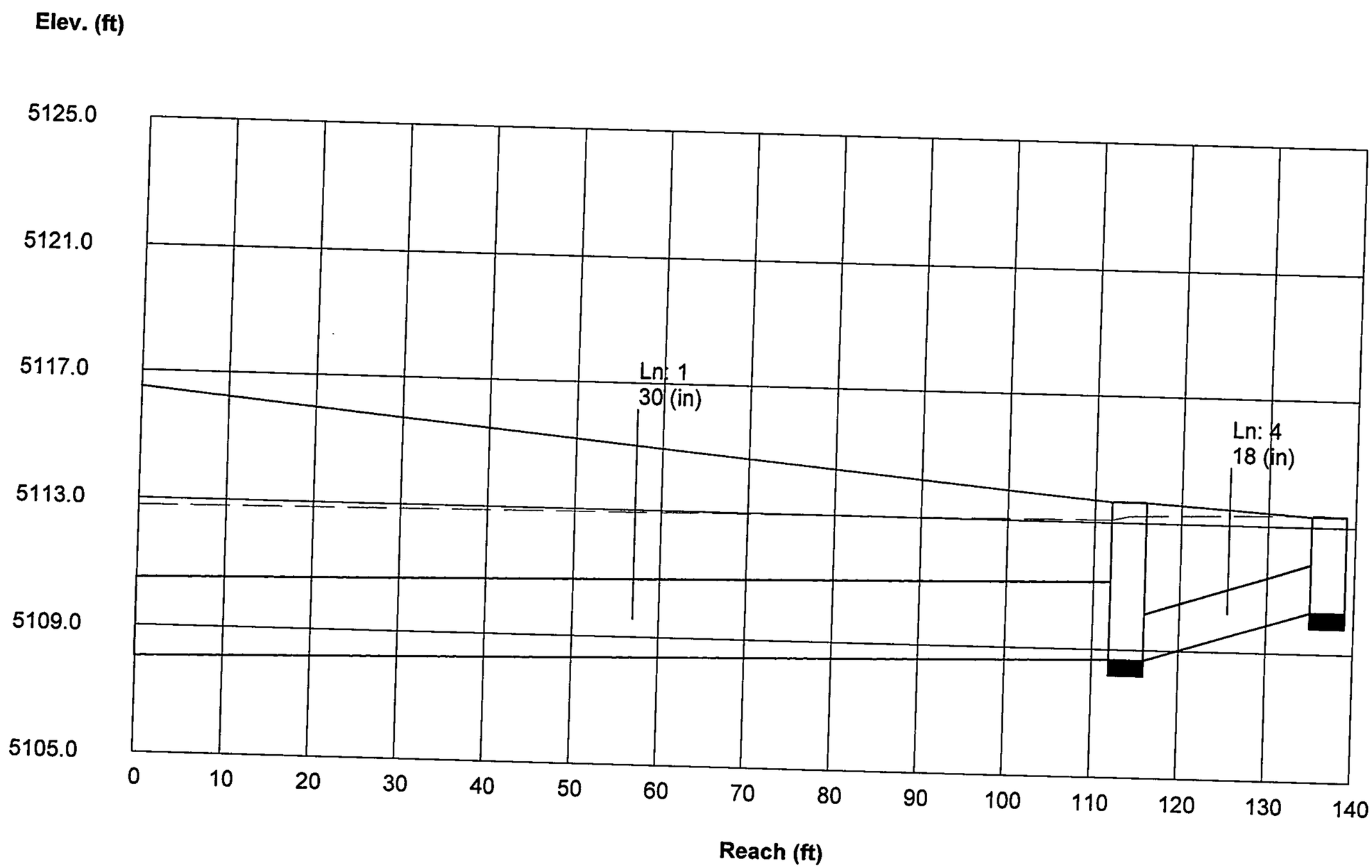
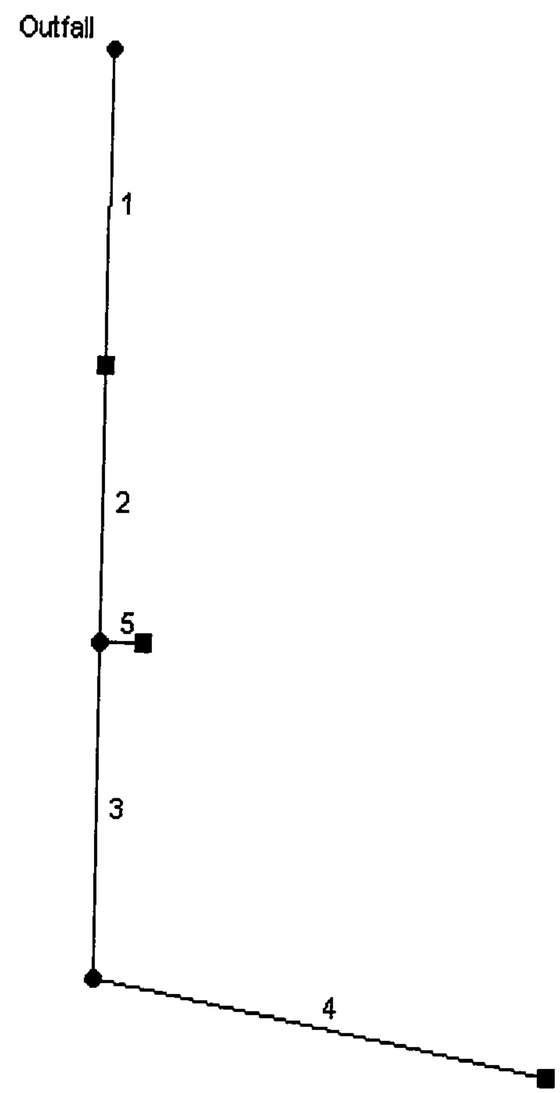


Storm Sewer Profile

Proj. file: SD012607-3.stm



Hydraflow Plan View



Project file: SD012607-4.stm	IDF file: sampleFHA.IDF	No. Lines: 5	02-02-2007

Hydraflow Summary Report

Line No.	Line ID	Flow rate (cfs)	Line size (in)	Line length (ft)	Invert EL Dn (ft)	Invert EL Up (ft)	Line slope (%)	HGL down (ft)	HGL up (ft)	Minor loss (ft)	Dns line No.
1		15.50	24 c	160.0	5108.00	5109.12	0.700	5112.76*	5113.51*	0.00	End
2		13.00	24 c	140.0	5109.12	5110.10	0.700	5113.51*	5113.98*	0.01	1
3		12.00	24 c	170.0	5110.10	5111.29	0.700	5113.99*	5114.47*	0.06	2
4		12.00	24 c	260.0	5111.29	5113.11	0.700	5114.52*	5115.26*	0.06	3
5		1.00	12 c	25.0	5110.10	5112.75	10.600	5113.99*	5114.01*	0.00	2

Project File: SD012607-4.stm	IDF File: sampleFHA.IDF	Total No. Lines: 5	Run Date: 02-02-2007

NOTES: c = circular; e = elliptical; b = box; Return period = 2 Yrs.; * Indicates surcharge condition.

Hydraflow Hydraulic Grade Line Computations

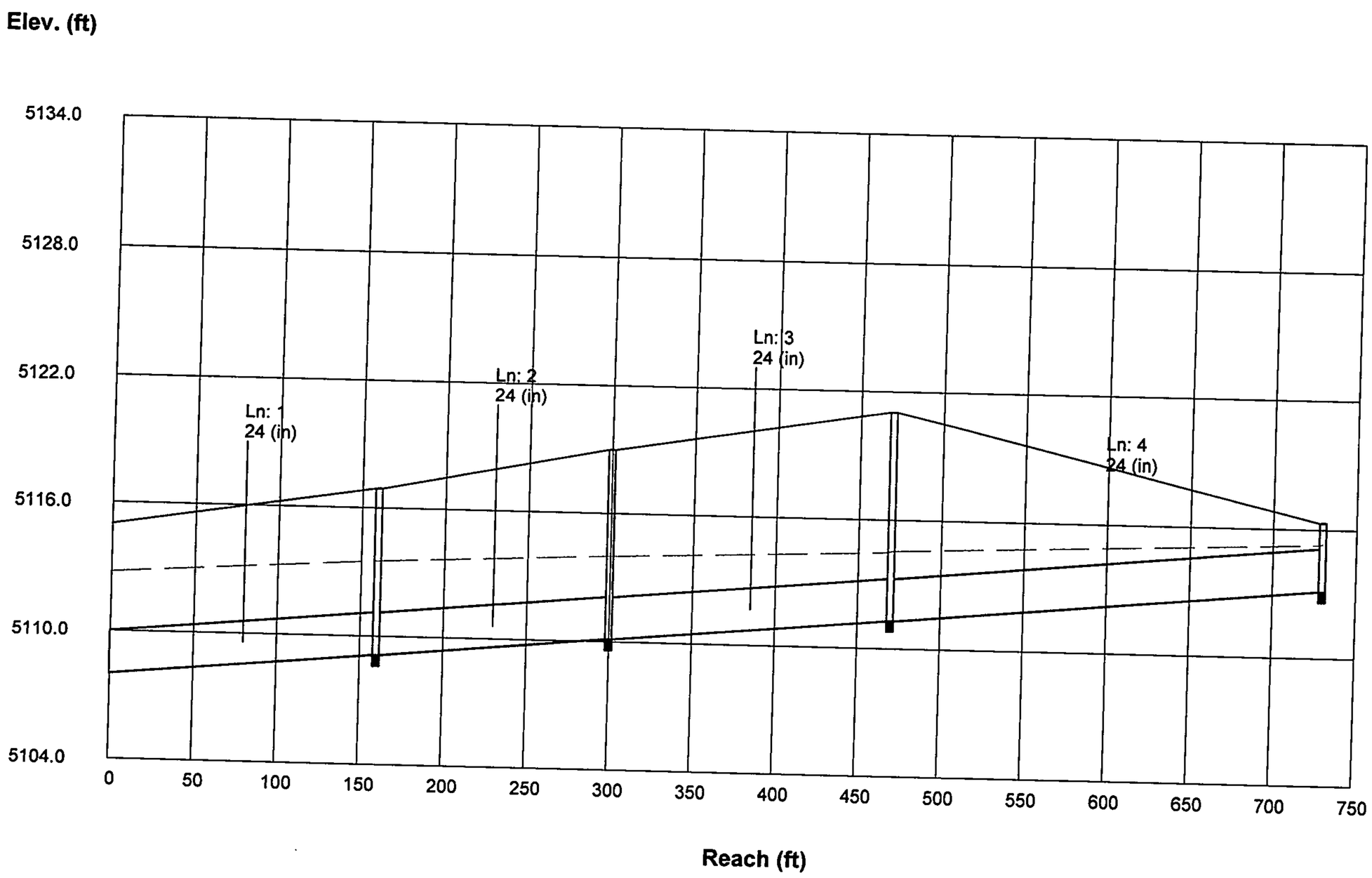
Line	Size (in)	Q (cfs)	Downstream Invert elev (ft)	Downstream HGL elev (ft)	Downstream Depth (ft)	Downstream Area (sqft)	Downstream Vel (ft/s)	Downstream Vel head (ft)	Downstream EGL elev (ft)	Downstream Sf (%)	Len (ft)	Upstream Invert elev (ft)	Upstream HGL elev (ft)	Upstream Depth (ft)	Upstream Area (sqft)	Upstream Vel (ft/s)	Upstream Vel head (ft)	Upstream EGL elev (ft)	Upstream Sf (%)	Check Ave Sf (%)	Check Enrgy loss (ft)	JL coeff (K)	Minor loss (ft)
1	24	15.50	5108.00	5112.76	2.00	3.14	4.93	0.38	5113.14	0.470	160	5109.12	5113.51	2.00	3.14	4.93	0.38	5113.89	0.470	0.470	0.752	0.00	0.00
2	24	13.00	5109.12	5113.51	2.00	3.14	4.14	0.27	5113.78	0.331	140	5110.10	5113.98	2.00	3.14	4.14	0.27	5114.24	0.330	0.330	0.463	0.05	0.01
3	24	12.00	5110.10	5113.99	2.00	3.14	3.82	0.23	5114.22	0.282	170	5111.29	5114.47	2.00	3.14	3.82	0.23	5114.69	0.282	0.282	0.479	0.25	0.06
4	24	12.00	5111.29	5114.52	2.00	3.14	3.82	0.23	5114.75	0.282	260	5113.11	5115.26	2.00	3.14	3.82	0.23	5115.48	0.282	0.282	0.732	0.25	0.06
5	12	1.00	5110.10	5113.99	1.00	0.79	1.27	0.03	5114.01	0.079	25.0	5112.75	5114.01	1.00	0.79	1.27	0.03	5114.03	0.079	0.079	0.020	0.00	0.00

Project File: SD012607-4.stm | IDF File: sampleFHA.IDF | Total number of lines: 5 | Run Date: 02-02-2007

NOTES: Initial tailwater elevation = 5112.76 (ft) , * Crown depth assumed., ** Critical depth assumed., i Under inlet control.

Storm Sewer Profile

Proj. file: SD012607-4.stm



APPENDIX D

Project Basin Maps
And Exhibits