

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

August 5, 2020

Sheldon Greer, P.E.
Respec
5971 Jefferson St. NE
Albuquerque, NM 8710

**RE: Sonta Trails Unit 4 Apartments
Conceptual Grading & Drainage Plan and Drainage Report
Engineer's Stamp Date: 07/20/20
Hydrology File: C10D001A**

Dear Mr. Greer:

PO Box 1293

Based upon the information provided in your submittal received 07/22/2020, the Conceptual Grading & Drainage Plan and Drainage Report **are not** approved for action by the DRB on Site Plan for Building Permit and Site Plan for Subdivision. The following comments need to be addressed for approval of the above referenced project:

Albuquerque

Drainage Report

NM 87103

1. Exhibit 2. Please just provide the Private Development in this Exhibit. All the public R.O.W. and Ponds (J, K, & A) will be in Exhibit 3.

www.cabq.gov

2. Exhibit 3. Comments are too numerous to be noted here. Please see attached plan with redlines. Re-evaluation of all the drainage areas and the proposed infrastructure needs to be done. Please call to discuss.

3. Pond A. This pond will not be a detention pond. It must be a Temporary Retention Pond with the volume for 100 year – 10 day since there is no downstream infrastructure built for the pond's watershed. There will be an Ultimate Pond area for the entire drainage area that will be discharged into it and Phase 1 pond which will be just what is going to be constructed at this time. You can then show the Phase 1 pond area for all of the areas are going to be built with the private development. This Phase 1 pond will be shown on Exhibit 2 whereas the Ultimate Pond area will be shown on Exhibit 3.

4. Pond K. AMAFCA stated that this pond will only be allowed 45 cfs to be discharged into the existing drainage system on Universe. AMAFCA approval for Pond K will need to be done prior to Hydrology's approval.

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5. As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.
6. Standard review fee of \$300 (for DRB Site) will be required at the time of resubmittal.

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,



Renée C. Brissette, P.E. CFM
Senior Engineer, Hydrology
Planning Department

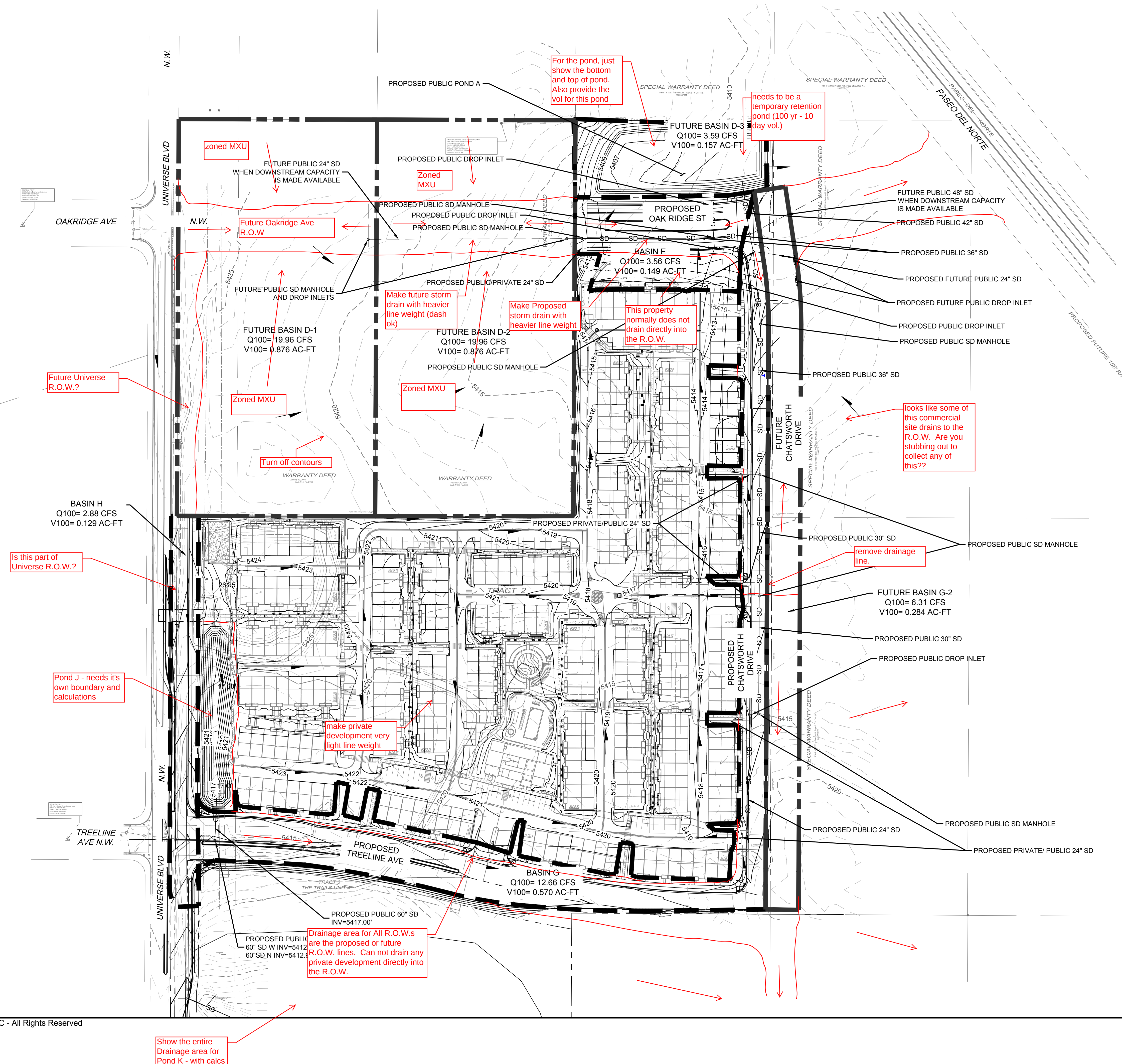
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NOTE:
RUNOFF FROM PRIVATE PROPERTY THAT DISCHARGES DIRECTLY INTO THE RIGHT-OF-WAY
WILL BE EITHER SIDEWALK CURBS OR STORM DRAIN



LEGEND

- | | |
|--|-------------------------------|
| | PROPERTY BOUNDARY |
| | BASIN BOUNDARY |
| | FUTURE BASIN BOUNDARY |
| | EXISTING STORM DRAIN |
| | FLOW ARROW |
| | EXISTING STORM DRAIN MANHOLE |
| | EXISTING STORM DRAIN INLET |
| | PROPOSED STORM DRAIN MANHOLE |
| | PROPOSED STORM DRAIN INLET |
| | PROPOSED STORM DRAIN |
| | CONCEPTUAL FUTURE STORM DRAIN |

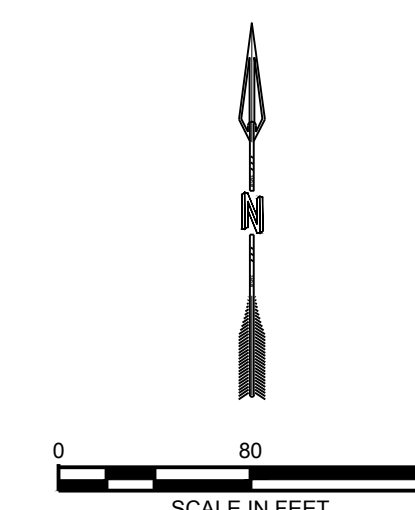


EXHIBIT 3 PROPOSED PUBLIC/FUTURE INFRASTRUCTURE



RESPEC

COMMUNITY DESIGN SOLUTIONS
5971 JEFFERSON STREET SUITE 101
ALBUQUERQUE, NEW MEXICO 87109
WWW.RESPEC.COM PHONE: (505)253-9718



CONCEPTUAL DRAINAGE REPORT FOR SONATA TRAILS UNIT 4 APARTMENTS



PREPARED FOR

City of Albuquerque, Planning Department
Development Review Services, Hydrology Section

PREPARED BY

RESPEC, Inc.
5971 Jefferson St. NE, Suite 101
Albuquerque, NM 87109
505.253.9718

JULY 2020





I, Sheldon Greer, do hereby certify that this report was duly 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.



Sheldon Greer, P.E.
NMPE No. 17154

7 / 20 / 2020

Date

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1.0 INTRODUCTION

1.1 PURPOSE

The purpose of this conceptual drainage report is to demonstrate that the proposed development of Sonata Trails Unit 4 Apartments safely conveys the peak 100-year storm runoff. The drainage intent for proposed conditions is to match current existing conditions for the site.

The proposed development of Sonata Trails Unit 4 Apartments site is within the "Upper Piedras Marcadas Watershed Drainage and Water Quality Management Plan" (UPM DMP) by Wilson & Company dated April 2017. The project site ultimately drains into an Albuquerque Metropolitan Arroyo and Flood Control Authority (AMAFCA) facility, the Piedras Marcadas Dam. The proposed development impacts the existing detention pond J from the Trails Units 1, 2, and 3, Drainage Master Plan (DMP). The Amendment to the Trails Units 1, 2, and 3 DMP was completed by Thompson Engineering Consultants (TEC) in April 2014 and approved by the City Hydrologist in May 2014. All the Trails surge/detention ponds were based on conservative assumptions when modeled initially by AHYMO but were later modeled using PCSWMM software to maximize the efficiency of the system while decreasing the footprint of Pond D. We have revised the Trails PCSWMM model due to the proposed confined footprint of Pond J and propose increasing the water surface elevation in Pond K, without changing the footprint of Pond K, and ultimately reducing the peak discharge in the Universe Boulevard storm drain system. All elevations mentioned in this report are based on the North American Vertical Datum of 1988 (NAVD 88). The PCSWMM model elevations differ from the elevations mentioned in this report because they were based on the National Geodetic Vertical Datum of 1929 (NGVD 29).

1.2 LOCATION AND DESCRIPTION

Sonata Trails Unit 4 Apartments is located southwest of Paseo Del Norte NW and Universe Boulevard NE intersection and contain approximately 17.4 acres. See Figure 1.2.1 below. The legal description of the property is Tracts 1 and 2, The Trails Unit 4, on the plat entitled "Bulk land plat of The Trails Unit 4 within the Town of Alameda Grant in projected Section 15, Township 11 North, Range 2 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico, October, 2007." The existing site includes detention pond J for the Trails Units 1, 2, and 3, but is otherwise undeveloped. The existing conditions are described in more detail in Section 3.1 and the proposed conditions are described in Section 3.2.



FIGURE 1.2.1 – PROJECT LOCATION

2.0 METHODOLOGY

The hydrologic analysis was performed for the site in accordance with the Albuquerque Development Process Manual (DPM) Section 22.2. AHYMO-S4 (April 2018) was used to develop peak flow rates for the 100-year, 24-hour design storm in order to ensure all flow paths are sufficient to carry flows. The required water quality volume was calculated by multiplying the onsite impervious area by the first flush runoff value of 0.34". All hydrologic and hydraulic calculations are included in this report.

3.0 HYDROLOGY

3.1 EXISTING CONDITIONS

The Sonata Trails Unit 4 Apartment receive offsite flows from the Trails Units 1, 2, and 3 and as well as the neighboring parcel to the northwest. The existing site is 100% pervious area and a portion of the property contains a detention pond, Pond J, which receives flows from the Trails Units 1, 2, and 3. The

total flow generated by the property under existing conditions is 47.71 cfs. The existing property has been split into three sub-basins. Exhibit 1 shows the existing sub-basin boundaries for the site.

Basin A is located in the western corner of the property and is primarily made up of existing detention pond, Pond J, and undeveloped pervious area. In general, the basin slopes from north to south and south to north at varying slopes between 1%-20%. Under existing conditions, runoff from the Universe storm drain system surges into Pond J and exits the detention pond back into the Universe storm drain system or at the overflow weir at the northwest corner of the pond and discharges into Basins B and Basin C. The existing Pond J has a maximum water surface elevation of 5418.46 ft, maximum volume of 3.70 ac-ft, maximum inflow of 136.80 cfs, and maximum outflow of 26.65 cfs. Historically, before the berm and pond were built, the basin flowed northeast into Basins B and Basin C. Basin A generates 6.88 cfs.

Basin B contains the southeast corner of the property and is undeveloped pervious area. In general, the basin slopes from south to north at varying slopes between 1-8%. After ponding a small amount, roughly 6", runoff exits this basin at the northern end of the basin and discharges into Basin C. Basin B generates 12.21 cfs.

Basin C contains of the north end of the property and offsite area west of the property boundary. The area contains undeveloped pervious area. In general, the basin slopes from southeast to northwest at varying slopes between 1-16%. Runoff exists this basin at the northern end of the basin. Basin C generates 28.63 cfs.

TABLE 3.1.1 – HYDROLOGIC DATA - EXISTING

HYDROLOGIC DATA - EXISTING							
SUB-BASIN	AREA (AC)	LAND USE PERCENTAGES				Q100 (CFS)	V100 (AC-FT)
		A	B	C	D		
A	5.14	100%	0%	0%	0%	6.88	0.188
B	9.14	100%	0%	0%	0%	12.21	0.335
C	21.44	100%	0%	0%	0%	28.63	0.785
TOTAL	35.73					47.71	1.308

3.2 PROPOSED CONDITIONS

The proposed site development for the Trails Unit 4 Apartments includes apartment buildings, parking lots, public and private streets, detention ponds, and landscaping. Under the proposed condition, approximately 80% of the site will consist of impervious area and 20% will be landscaped. The total flow generated by the proposed development is 83.07 cfs. Therefore, the discharge from the proposed site is greater than the existing condition so we will limit the discharge in a proposed public Pond A to existing conditions, 47.71 cfs. See Appendix A for the AHYMO input and output results verifying the proposed Pond A reduces the drainage discharge below historic levels. The property has been split into nine proposed basins. Exhibit 2 shows the proposed public and private basin boundaries for the site.

3.2.1 PRIVATE DRAINAGE BASINS

Basin A consists of the edges of the property from the southwest corner to the northeast corner and is made up of apartment buildings, asphalt roads and parking, and landscaping. In general, the basin slopes from southwest to northeast at varying slopes between 0.5%-1%. Runoff is collected in proposed drop inlets in the new road which discharges into a storm drain that will connect to the public storm drain system, and ultimately discharge into the proposed Pond A. The proposed flow is 23.58 cfs.

Basin B consists of the center portion of the property and is made up of apartment buildings, asphalt roads and parking, and landscaping. In general, the basin slopes from west to east at varying slopes between 0.5%-1%. Runoff is collected in the new road which discharges into Basin A. The proposed flow is 11.40 cfs.

Basin C consists of the center portion of the property and is made up of apartment buildings, asphalt roads and parking, and landscaping. In general, the basin slopes from west to east at varying slopes between 0.5%-1%. Runoff is collected in the new road which discharges into Basin A. The proposed flow is 15.56 cfs.

Basin D is an undeveloped off-site basin to the west and north of the property. The basin also includes a proposed public Pond A at the northeast corner of the basin. In general, the basin slopes from southeast to northwest at varying slopes between 3-5%. The southwestern portion of the basin discharges into the swale in Basin F. Runoff exits Basin D at the overflow weir spillway in the proposed Pond A and discharges to the northwest to match the historic discharge. We are proposing a wide spillway to best replicate the sheet flow that historically discharges to this point. The pond will retain the 10-year, 24-hour storm event and up to the first 2.24 ac-ft of water before releasing water over the wide spillway weir. The AHYMO output for the 10-year, 24-hour storm event is included in Appendix A. The proposed Pond A has a maximum water surface elevation of 5419.71 ft, maximum inflow of 83.07 cfs, and maximum outflow of 10.53 cfs. Pond A limits the discharge well below the historic rate of 47.71 cfs down to 10.53 cfs. Basin D generates 15.74 cfs.

Basin E consists of the northern end of the property and is made up of apartment buildings, landscaping, and the proposed public street, Oak Ridge Street. In general, the basin slopes from south to north at varying slopes between 0.5%-1%. Runoff is collected in storm drain in Oak Ridge and discharges into Pond A. The storm drain in Oak Ridge will be stubbed to the west for future connections as Oak Ridge expands to the west, see Exhibit 3. The proposed flow is 3.56 cfs.

Basin F consists of the northwestern boundary of the property and is made up of landscaping and a swale. In general, the basin slopes west and then north at varying slopes between 0.5%-1%. Runoff is conveyed in a proposed swale. The primary purpose of the swale is to convey offsite drainage from Basin D to prevent the offsite drainage from affecting the proposed property. The proposed swale ultimately discharges into the ROW at the northwest corner of the property, into Basin D and then Pond A. The proposed flow is 0.94 cfs.

Basin I consists of the reconfiguration of Pond J and landscaping. In general, the basin slopes from north to south at varying slopes between 0.5%-1%. Runoff is collected in Pond J which discharges into the existing storm drain network paralleling Universe Drive. The proposed flow in this basin is 2.00 cfs.

The hydrologic data table below depicts in further detail each private sub-basin and its characteristics.

TABLE 3.2.1 – HYDROLOGIC DATA – PROPOSED PRIVATE

HYDROLOGIC DATA - PROPOSED PRIVATE							
SUB-BASIN	AREA (AC)	LAND USE PERCENTAGES				Q100 (CFS)	V100 (AC-FT)
		A	B	C	D		
A	5.91	0%	10%	10%	80%	23.58	1.036
B	2.85	0%	10%	10%	80%	11.40	0.500
C	3.90	0%	10%	10%	80%	15.56	0.683
D	9.62	90%	0%	0%	10%	15.74	0.511
E	0.96	0%	17.5%	17.5%	65%	3.56	0.149
F	0.35	0%	45%	45%	10%	0.94	0.028
I	0.47	0%	5%	5%	90%	2.00	0.089
TOTAL	24.05					72.78	2.996

3.2.2 PUBLIC DRAINAGE BASINS

Basin G is an off-site basin and consists of the proposed public streets, Treeline Avenue and Chatsworth Drive. Treeline Ave is proposed as a full road width at the intersection of Treeline Ave and Universe Dr and transitions to half-road improvements at the Treeline Ave and Chatsworth Dr intersection. Chatsworth Drive is proposed as half-road improvements. In general, the basin slopes from west to east on Treeline Avenue and south to north on Chatsworth Drive at varying slopes between 0.5%-1%. Runoff is collected in drop inlets which discharges into the proposed Pond A in Basin D via storm drain. There is a storm drain in Chatsworth that collects roadway flows from Treeline and Chatsworth as well as runoff from the private property. The proposed storm drain within Chatsworth Drive has been sized per the full developed road width. Exhibit 3 shows the proposed public and conceptual future public infrastructure. The proposed flow is 12.66 cfs.

Basin H is an off-site basin and consists of the half-street expansion of the proposed public street, Universe Drive. In general, the basin slopes from north to south at 0.5%. Runoff in Universe Drive continues south until it is collected in drop inlets immediately south of Woodmont Avenue which discharges directly into Pond K. The proposed flow is 2.88 cfs. This flow has been accounted for in the existing PCSWMM model.

The hydrologic data table below depicts in further detail each public sub-basin and its characteristics.

TABLE 3.2.2 – HYDROLOGIC DATA – PROPOSED PUBLIC

HYDROLOGIC DATA - PROPOSED PUBLIC							
SUB-BASIN	AREA (AC)	LAND USE PERCENTAGES				Q100 (CFS)	V100 (AC-FT)
		A	B	C	D		
G	3.02	0%	5%	5%	90%	12.66	0.570
H	0.69	0%	5%	5%	90%	2.88	0.129
TOTAL	4.24					15.54	0.699

The pond data table in Appendix A depicts in further detail the characteristics of the proposed public Pond A and summarizes the reduction in discharge volume and flowrate compared to existing conditions. The existing flowrate is 47.71 cfs, developed is 83.07, and 10.53 cfs is released from Pond A. The existing volume is 1.308 ac-ft, developed is 3.477 ac-ft, and 1.240 ac-ft is released. As the surrounding properties are developed, Pond A will ultimately discharge into the Upper Piedras Marcadas future 36" storm drain system within the Oak Ridge Street extension crossing Paseo Del Norte Blvd NE. A copy of the Upper Piedras Marcadas Watershed Drainage map by Wilson & Company has been provided in Appendix A and shown conceptually on Exhibits 2 & 3. The proposed storm drain in Chatsworth and Oak Ridge discharges into Pond A in the interim condition. Once downstream infrastructure is built to accept runoff from this area, a 48" storm drain will be extended east from the Chatsworth and Oak Ridge intersection in the future, see Exhibit 3. We anticipate that the storm drain crossing Paseo Del Norte Blvd NE will be a 48" pipe rather than 36" as shown on Exhibits 2 & 3 to accommodate flows that will contribute to this system.

The total required water quality volume for the site was calculated based on the total proposed onsite impervious area multiplied by the is 13,064 cubic feet. The required stormwater quality volume has been provided in the proposed Pond A. The quality of the discharge matches the historic flow quality to the best of our ability by retaining the 10-yr, 24-hour storm event and allowing sediment to settle out in the pond. More details regarding water quality will be provided at Building Permit review.

3.2.3 FUTURE PUBLIC/PRIVATE DRAINAGE BASINS

Future Basin D-1 is an undeveloped off-site private basin to the west and north of the property. In general, the basin slopes from southeast to northwest at varying slopes between 3-5%. For planning purposes and conceptual future storm drain sizing, we have assumed this basin will be developed with 80% impervious area and discharge into a future storm drain in future Oak Ridge Street and then into public Pond A. Future Basin D-1 generates 19.96 cfs.

Future Basin D-2 is an undeveloped off-site private basin to the west and north of the property. In general, the basin slopes from southeast to northwest at varying slopes between 3-5%. For planning purposes and conceptual future storm drain sizing, we have assumed this basin will be developed with 80% impervious area and discharge into a future storm drain in future Oak Ridge Street and then into public Pond A. Future Basin D-2 generates 19.96 cfs.

Future Basin D-3 includes a proposed public Pond A and undeveloped area around the pond. In general, the basin slopes from west to east at varying slopes between 1-5%. Runoff exits Basin D at the overflow weir spillway in the proposed Pond A and discharges to the northwest to match the historic discharge. Future Basin D-3 generates 3.59 cfs.

Future Basin G-2 is an off-site public basin and consists of the proposed public street, Chatsworth Drive. Chatsworth Drive is proposed as future half-road improvements. In general, the basin slopes from south to north at varying slopes between 0.5%-1%. Runoff is collected in future drop inlets which discharges into the proposed Pond A in Basin D via storm drain within Chatsworth. Exhibit 3 shows the proposed public and conceptual future public infrastructure. The proposed flow is 6.31 cfs.

The hydrologic data table below depicts in further detail each public sub-basin and its characteristics.

TABLE 3.2.3 – HYDROLOGIC DATA – FUTURE PUBLIC/PRIVATE

HYDROLOGIC DATA – FUTURE PUBLIC/PRIVATE							
FUTURE SUB-BASIN	AREA (AC)	LAND USE PERCENTAGES				Q100 (CFS)	V100 (AC-FT)
		A	B	C	D		
D-1	5.00	0%	10%	10%	80%	19.96	0.876
D-2	5.00	0%	10%	10%	80%	19.96	0.876
D-3	0.89	0%	10%	10%	80%	3.59	0.157
G-2	1.50	0%	5%	5%	90%	6.31	0.284
TOTAL	12.39					49.82	2.193

3.2.4 PCSWMM MODEL REVISIONS

Per the (UPM DMP), Section 1.4. Boca Negra Diversion, the Universe Boulevard storm drain system is designed to convey 62 cfs from properties owned by the Trails Subdivision through existing ponds J & K. Due to Pond J losing volume, we propose sending more drainage into Pond K, raising the 100-yr water surface elevation 0.22 feet from 5407.86' to 5408.08'. Pond K will still have 2.22' of freeboard available with the increase in water surface elevation. The proposed Pond J has a maximum stored volume of 0.58 ac-ft, maximum inflow of 47.56 cfs, and maximum outflow of 32.03 cfs. In order to keep the hydraulic grade line below the existing manhole rim elevations, we propose installing a 24" storm drain out of the next storm drain manhole to the south into Pond K and installing a 3.4' diameter orifice plate in the Pond J manhole. The PCSWMM model included the offsite basin flows from Basin D discharging into Pond J, so we removed input hydrograph "12" from the model since the offsite flows do not discharge into Pond J they flow to proposed public Pond A. Also, input hydrograph "88" was revised from 12.31 cfs to 2.00 cfs to match the peak flow in Basin I. Also, after a field investigation it was discovered a 30" pipe discharges into Pond K at storm drain manhole "SDMH-5A". Although the maximum outflow increased from Ponds J & K, due to the reduction of input hydrograph "88", the removal of input hydrograph "12", and the differences in the time to maximum HGL, the Universe Storm drain discharge improved from 61.88 cfs to 58.86 cfs and remains below the 62 cfs design capacity. Even though the flow discharging out of Pond K is increasing, the overall system is discharging less flow south to the Boca Negra Dam and, therefore, the rest of the system outside of Ponds J and K are not negatively impacted. The existing and proposed results for Pond J and K and an overview map of the PCSWMM model revisions are included in Appendix A.

4.0 HYDRAULICS

4.1 STREETS

Runoff flow rates and volumes for the hydraulic design of the Sonata Trails Unit 4 development are those calculated by the AHYMO model. Private street capacities were checked at certain locations throughout the roadways where flow runoff rates are critical. These include the proposed roadways in Basins A, B, and C. The proposed public street capacities were calculated as well for their typical cross sections.

The maximum street capacity was determined for a given street section using ManningSolver Version 1.019 to ensure the design criteria mentioned in Section 2.0 of this report were met. Calculations for street capacities are shown in Appendix B.

4.2 STORM INLETS AND STORM DRAINS

Flow intercepted by drainage inlets were determined using the orifice and weir equations based on the City of Albuquerque Type "D" inlets. Flow quantities intercepted by curb inlets were determined using the Albuquerque DPM grating capacities rating curves for the appropriate inlets. All proposed storm drain capacities were determined using ManningSolver Version 1.019. The storm drain piping beneath the proposed public roads, Treeline and Chatsworth, were sized based on the full road width. For further information on drainage inlet and storm drain capacity calculations see Appendix B.

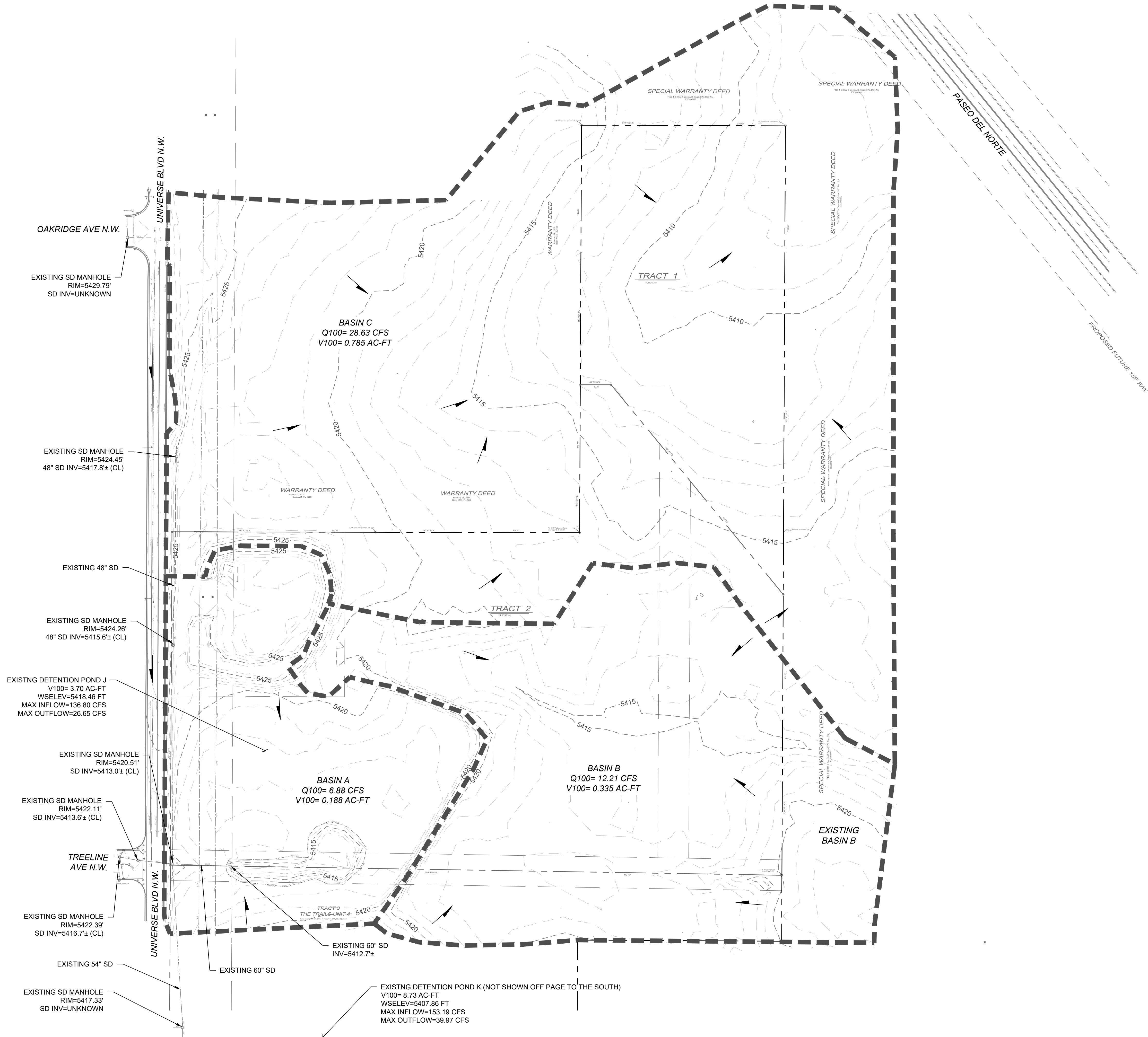
5.0 DRAINAGE COVENANTS

The existing drainage covenants for ponds J & K will need to be modified to account for the revisions made to pond J and Universe storm drain system. The modified covenant will be provided before the building permit is approved. A new drainage covenant for public Pond A will need to be written and submitted before building permit approval.

6.0 CONCLUSION

This drainage report is prepared in support of the new development for Sonata Trails Unit 4 Apartments. The existing site is undeveloped and the new development will include apartments, parking, landscaping, public roadways, public Pond A, and revising existing Pond J. The existing detention Pond J will be redesigned to allow for the development of the apartment complex sending more drainage to existing Pond K. The 100-year water surface elevation in Pond K increases from 5407.86' to 5408.08', a 0.22' increase. Pond K will have 2.22' of remaining freeboard after the proposed increase. The peak discharge in the Universe storm drain system is designed to convey 62 cfs. The peak discharge in the Universe Boulevard storm drain system has been reduced from 61.88 cfs to 58.86 cfs. The proposed conditions limit the discharge flowrate and volume out of the proposed Pond A significantly below existing conditions, 47.71 cfs to 10.53 cfs and 1.308 ac-ft to 1.240 ac-ft, respectively. The proposed spillway for Pond A is wide to best replicate the sheet flow that historically discharges out of Basin D. The quality of the discharge matches the historic flow quality to the best of our ability by retaining the 10-yr, 24-hour storm event and allowing sediment to settle out in the pond. As the surrounding properties are developed and capacity is made available, Pond A will ultimately discharge into the Upper Piedras Marcadas future 36" storm drain system within the future Oak Ridge Street extension crossing Paseo Del Norte Blvd NE. We anticipate that the storm drain crossing Paseo Del Norte Blvd NE will be a 48" pipe rather than 36" as shown on Exhibit 2 to accommodate flows that will contribute to this system. The hydrologic calculations are included in Appendix A. The hydraulic calculations are included in Appendix B.

NAME: L:\Active Projects\04022 Sonata Trails Unit 4 Apartments\3. DWG\Onsite Plan Set\Exhibits\04022 Drainage Existing Conditions.dwg PLOT DATE: May 29, 2020 1:59pm



LEGEND

- PROPERTY BOUNDARY
- BASIN BOUNDARY
- EXISTING STORM DRAIN
- FLOW ARROW
- EXISTING STORM DRAIN MANHOLE
- EXISTING STORM DRAIN INLET

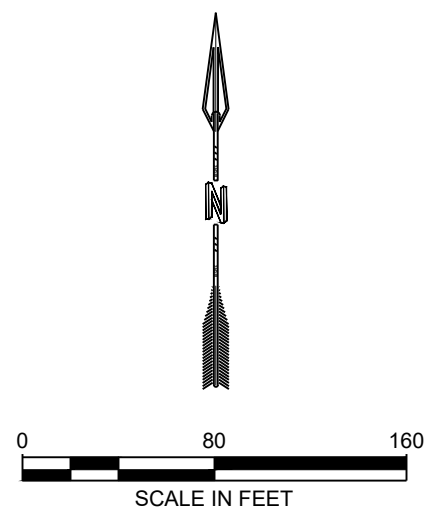


EXHIBIT 1 EXISTING BASINS



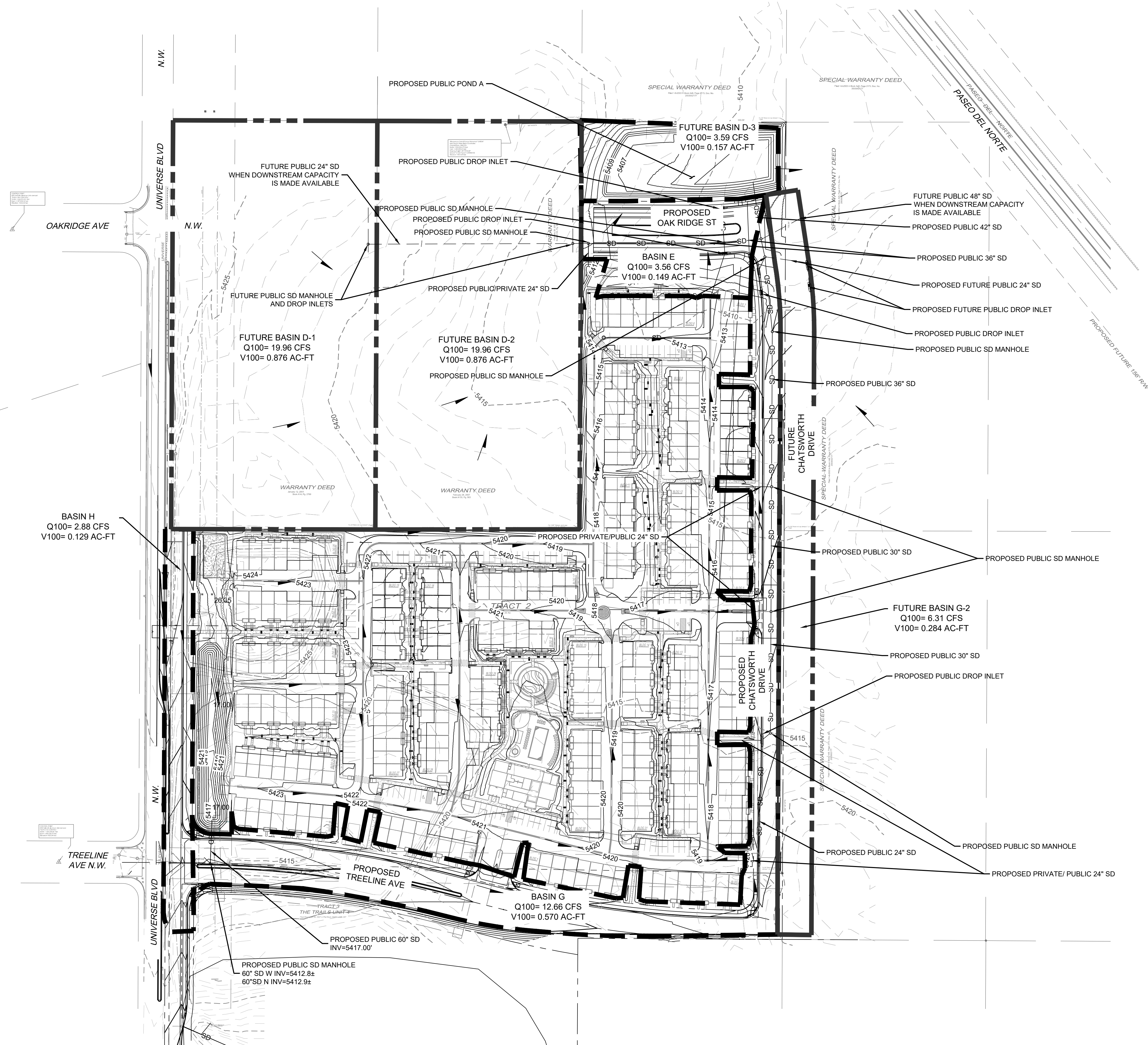
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ALBUQUERQUE, NEW MEXICO 87109
WWW.RESPEC.COM PHONE: (505)253-9718



NAME: L:\Active Projects\04022 Sonata Trails Unit 4 Apartments\3. DWG\Onsite Plan Set\Exhibits\04022 Drainage Proposed Public Conditions.dwg PLOT DATE: Jul 21, 2020 8:12am

NOTE:
RUNOFF FROM PRIVATE PROPERTY THAT DISCHARGES DIRECTLY INTO THE RIGHT-OF-WAY
WILL BE EITHER SIDEWALK CULVERTS OR STORM DRAIN.



LEGEND

- PROPERTY BOUNDARY
- BASIN BOUNDARY
- FUTURE BASIN BOUNDARY
- EXISTING STORM DRAIN
- FLOW ARROW
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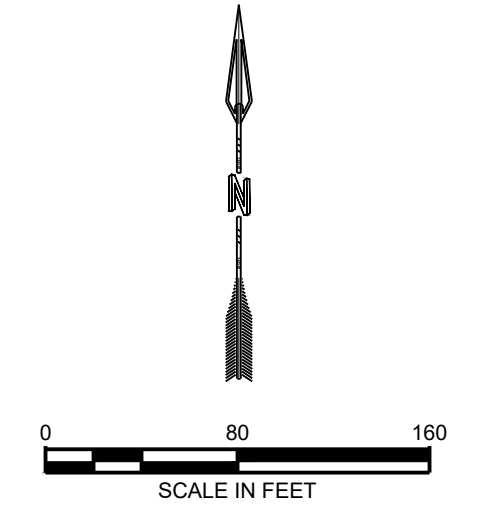


EXHIBIT 3 PROPOSED PUBLIC/FUTURE INFRASTRUCTURE



RESPEC

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WWW.RESPEC.COM PHONE: (505)253-9718



APPENDIX A

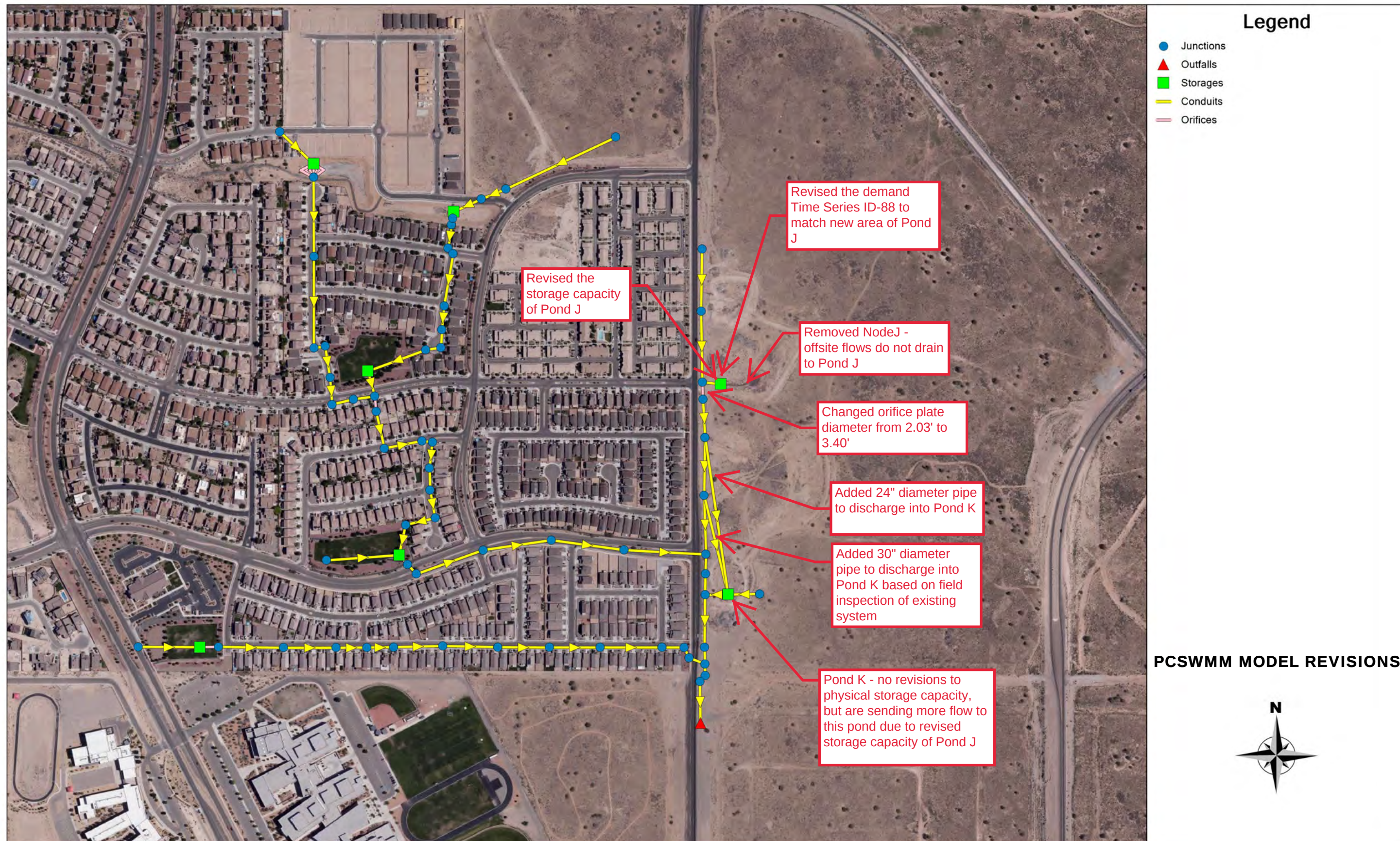
HYDROLOGIC CALCULATIONS



Water Quality:

Required Water Quality volume for first flush of 0.34"

Basin	Volume (cu. ft.)	Volume Provided (cu. ft.)
Total Onsite Impervious Area	13,064	122,383



PUBLIC POND A - PROPOSED												
NAME	Q100 EXISTING DISCHARGE	Q100 WEIR DISCHARGE	V100 EXISTING VOLUME	V100 WEIR DISCHARGE	MAX INFLOW	MAX INFLOW VOLUME	VOLUME RETAINED	MAX WATER SURFACE ELEVATION	DETENTION VOLUME PROVIDED	TOP OF POND ELEVATION	SPILLWAY ELEVATION	BOTTOM OF POND ELEVATION
	CFS	CFS	AC-FT	AC-FT	CFS	AC-FT	AC-FT	FT	AC-FT	FT	FT	FT
POND-A	47.71	10.53	1.31	1.24	83.07	3.48	2.24	5409.71	2.91	5410.40	5409.40	5404.00

EXISTING PCSWMM STORAGE SUMMARY											
NAME	POND BOTTOM	TOP OF POND	EMERGENCY SPILLWAY ELEVATION	DEPTH TO EMERGENCY SPILLWAY	MAX WATER SURFACE DEPTH	MAX HGL	TIME MAX HGL	MAX TOTAL INFLOW	FREEBOARD TO EMERGENCY SPILLWAY	MAX STORED VOLUME	MAX OUTFLOW
	FT	FT	FT	FT	FT	FT	H:M	CFS	FT	AC-FT	CFS
POND-J	5414.00	5418.00	5417.00	3.00	1.66	5415.66	2:03	136.06	1.34	3.70	26.64
POND-K	5404.85	5412.00	5410.30	5.45	3.01	5407.86	4:01	153.19	2.44	8.73	39.97

PROPOSED PCSWMM STORAGE SUMMARY											
NAME	POND BOTTOM	TOP OF POND	EMERGENCY SPILLWAY ELEVATION	DEPTH TO EMERGENCY SPILLWAY	MAX WATER SURFACE DEPTH	MAX HGL	TIME MAX HGL	MAX TOTAL INFLOW	FREEBOARD TO EMERGENCY SPILLWAY	MAX STORED VOLUME	MAX OUTFLOW
	FT	FT	FT	FT	FT	FT	H:M	CFS	FT	AC-FT	CFS
POND-J	5417.00	5424.00	5423.00	6.00	4.94	5421.94	1:36	47.56	1.06	0.58	32.03
POND-K	5404.85	5412.00	5410.30	5.45	3.23	5408.08	2:22	234.04	2.22	9.77	45.80

AHYMO.OUT

AHYMO PROGRAM (AHYMO-S4) - Version: S4.02a - Rel:
 02a
 RUN DATE (MON/DAY/YR) = 07/17/2020
 START TIME (HR:MIN:SEC) = 15:45:10 USER NO.=
 AHYMO-S4TempUser05901704
 INPUT FILE = y\ENG Tools\ahymo-s4-r2\ahymo-s4-r2\DISK1\program
 files\AHYMO-S4\04022 Input.HMI

* 100 YEAR RAINFALL TABLE

RAINFALL TYPE=13 RAIN QUARTER=0 IN

RAIN ONE=1.87 IN RAIN SIX=2.20 IN

RAIN DAY=2.66 IN DT=0.033 HR

COMPUTED 24-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS
 2 - PEAK AT 1.40 HR.

DT =	0.033000	HOURS	END TIME =	23.990999	HOURS
0.0000	0.0016	0.0033	0.0049	0.0066	0.0084
0.0120	0.0139	0.0158	0.0178	0.0198	0.0219
0.0262	0.0285	0.0308	0.0332	0.0357	0.0383
0.0437	0.0465	0.0495	0.0526	0.0558	0.0592
0.0664	0.0704	0.0745	0.0793	0.0847	0.0904
0.1220	0.1595	0.2144	0.2903	0.3910	0.5206
0.8823	1.1227	1.2303	1.3056	1.3716	1.4312
1.5365	1.5836	1.6278	1.6693	1.7085	1.7455
1.8136	1.8451	1.8749	1.9032	1.9301	1.9482
1.9597	1.9650	1.9700	1.9749	1.9795	1.9840
1.9925	1.9965	2.0004	2.0041	2.0078	2.0114
2.0182	2.0215	2.0247	2.0278	2.0309	2.0339
2.0396	2.0425	2.0452	2.0479	2.0506	2.0532
2.0582	2.0607	2.0631	2.0655	2.0678	2.0702
2.0747	2.0769	2.0791	2.0812	2.0833	2.0854
2.0895	2.0915	2.0935	2.0955	2.0974	2.0993
2.1031	2.1049	2.1067	2.1086	2.1103	2.1121
2.1156	2.1173	2.1190	2.1207	2.1223	2.1240
2.1272	2.1288	2.1304	2.1320	2.1335	2.1351
2.1381	2.1396	2.1411	2.1426	2.1440	2.1455
2.1484	2.1498	2.1512	2.1526	2.1540	2.1553
2.1581	2.1594	2.1607	2.1621	2.1634	2.1647
2.1673	2.1686	2.1698	2.1711	2.1723	2.1736
2.1761	2.1773	2.1785	2.1797	2.1809	2.1821
2.1844	2.1856	2.1868	2.1879	2.1891	2.1902
2.1925	2.1936	2.1947	2.1958	2.1969	2.1980
2.2002	2.2015	2.2028	2.2041	2.2054	2.2067
2.2092	2.2105	2.2118	2.2130	2.2143	2.2156
2.2181	2.2193	2.2206	2.2218	2.2231	2.2243
2.2268	2.2280	2.2292	2.2305	2.2317	2.2329
					2.2341

AHYMO.OUT

2.2354	2.2366	2.2378	2.2390	2.2402	2.2414	2.2426
2.2438	2.2450	2.2462	2.2474	2.2486	2.2497	2.2509
2.2521	2.2533	2.2545	2.2556	2.2568	2.2580	2.2591
2.2603	2.2615	2.2626	2.2638	2.2649	2.2661	2.2672
2.2684	2.2695	2.2706	2.2718	2.2729	2.2741	2.2752
2.2763	2.2774	2.2786	2.2797	2.2808	2.2819	2.2830
2.2842	2.2853	2.2864	2.2875	2.2886	2.2897	2.2908
2.2919	2.2930	2.2941	2.2952	2.2963	2.2974	2.2984
2.2995	2.3006	2.3017	2.3028	2.3038	2.3049	2.3060
2.3071	2.3081	2.3092	2.3103	2.3113	2.3124	2.3134
2.3145	2.3155	2.3166	2.3176	2.3187	2.3197	2.3208
2.3218	2.3229	2.3239	2.3249	2.3260	2.3270	2.3280
2.3291	2.3301	2.3311	2.3321	2.3331	2.3342	2.3352
2.3362	2.3372	2.3382	2.3392	2.3402	2.3413	2.3423
2.3433	2.3443	2.3453	2.3463	2.3473	2.3482	2.3492
2.3502	2.3512	2.3522	2.3532	2.3542	2.3552	2.3561
2.3571	2.3581	2.3591	2.3600	2.3610	2.3620	2.3630
2.3639	2.3649	2.3659	2.3668	2.3678	2.3687	2.3697
2.3706	2.3716	2.3726	2.3735	2.3745	2.3754	2.3763
2.3773	2.3782	2.3792	2.3801	2.3811	2.3820	2.3829
2.3839	2.3848	2.3857	2.3867	2.3876	2.3885	2.3894
2.3904	2.3913	2.3922	2.3931	2.3940	2.3950	2.3959
2.3968	2.3977	2.3986	2.3995	2.4004	2.4013	2.4022
2.4031	2.4040	2.4049	2.4058	2.4067	2.4076	2.4085
2.4094	2.4103	2.4112	2.4121	2.4130	2.4139	2.4148
2.4156	2.4165	2.4174	2.4183	2.4192	2.4200	2.4209
2.4218	2.4227	2.4235	2.4244	2.4253	2.4261	2.4270
2.4279	2.4287	2.4296	2.4305	2.4313	2.4322	2.4330
2.4339	2.4348	2.4356	2.4365	2.4373	2.4382	2.4390
2.4399	2.4407	2.4416	2.4424	2.4432	2.4441	2.4449
2.4458	2.4466	2.4474	2.4483	2.4491	2.4499	2.4508
2.4516	2.4524	2.4533	2.4541	2.4549	2.4557	2.4566
2.4574	2.4582	2.4590	2.4599	2.4607	2.4615	2.4623
2.4631	2.4639	2.4647	2.4656	2.4664	2.4672	2.4680
2.4688	2.4696	2.4704	2.4712	2.4720	2.4728	2.4736
2.4744	2.4752	2.4760	2.4768	2.4776	2.4784	2.4792
2.4800	2.4808	2.4816	2.4823	2.4831	2.4839	2.4847
2.4855	2.4863	2.4871	2.4878	2.4886	2.4894	2.4902
2.4910	2.4917	2.4925	2.4933	2.4941	2.4948	2.4956
2.4964	2.4971	2.4979	2.4987	2.4994	2.5002	2.5010
2.5017	2.5025	2.5033	2.5040	2.5048	2.5055	2.5063
2.5070	2.5078	2.5086	2.5093	2.5101	2.5108	2.5116
2.5123	2.5131	2.5138	2.5146	2.5153	2.5161	2.5168
2.5175	2.5183	2.5190	2.5198	2.5205	2.5212	2.5220
2.5227	2.5235	2.5242	2.5249	2.5257	2.5264	2.5271
2.5279	2.5286	2.5293	2.5300	2.5308	2.5315	2.5322
2.5329	2.5337	2.5344	2.5351	2.5358	2.5366	2.5373
2.5380	2.5387	2.5394	2.5401	2.5409	2.5416	2.5423
2.5430	2.5437	2.5444	2.5451	2.5458	2.5465	2.5472
2.5480	2.5487	2.5494	2.5501	2.5508	2.5515	2.5522
2.5529	2.5536	2.5543	2.5550	2.5557	2.5564	2.5571

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2.5578	2.5585	2.5591	2.5598	2.5605	2.5612	2.5619
2.5626	2.5633	2.5640	2.5647	2.5654	2.5660	2.5667
2.5674	2.5681	2.5688	2.5695	2.5701	2.5708	2.5715
2.5722	2.5729	2.5735	2.5742	2.5749	2.5756	2.5762
2.5769	2.5776	2.5782	2.5789	2.5796	2.5803	2.5809
2.5816	2.5823	2.5829	2.5836	2.5843	2.5849	2.5856
2.5863	2.5869	2.5876	2.5882	2.5889	2.5896	2.5902
2.5909	2.5915	2.5922	2.5928	2.5935	2.5942	2.5948
2.5955	2.5961	2.5968	2.5974	2.5981	2.5987	2.5994
2.6000	2.6007	2.6013	2.6020	2.6026	2.6032	2.6039
2.6045	2.6052	2.6058	2.6065	2.6071	2.6077	2.6084
2.6090	2.6097	2.6103	2.6109	2.6116	2.6122	2.6128
2.6135	2.6141	2.6147	2.6154	2.6160	2.6166	2.6173
2.6179	2.6185	2.6191	2.6198	2.6204	2.6210	2.6217
2.6223	2.6229	2.6235	2.6241	2.6248	2.6254	2.6260
2.6266	2.6273	2.6279	2.6285	2.6291	2.6297	2.6303
2.6310	2.6316	2.6322	2.6328	2.6334	2.6340	2.6346
2.6353	2.6359	2.6365	2.6371	2.6377	2.6383	2.6389
2.6395	2.6401	2.6407	2.6413	2.6420	2.6426	2.6432
2.6438	2.6444	2.6450	2.6456	2.6462	2.6468	2.6474
2.6480	2.6486	2.6492	2.6498	2.6504	2.6510	2.6516
2.6522	2.6527	2.6533	2.6539	2.6545	2.6551	2.6557
2.6563	2.6569	2.6575	2.6581	2.6587	2.6593	2.6598

*S EXISTING CONDITIONS

*S COMPUTE HYD EXISTING BASIN A

COMPUTE NM HYD ID=1 HYDNO=101 DA=0.00804SQ MI

PER A=100 PER B=0 PER C=0 PER D=0

TP=-0.13 RAIN=-1

K = 0.159632HR TP = 0.130000HR K/TP RATIO = 1.227936
 SHAPE CONSTANT, N = 2.899626
 UNIT PEAK = 16.917 CFS UNIT VOLUME = 0.9988 B =
 273.54 P60 = 1.8700
 AREA = 0.008040 SQ MI IA = 0.65000 INCHES INF =
 1.67000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=1 CODE=10

AHYMO.OUT

PARTIAL HYDROGRAPH 101.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	0.990	0.0	1.980	0.7
2.970	0.1	3.960	0.0		
0.330	0.0	1.320	0.0	2.310	0.3
3.300	0.0	4.290	0.0		
0.660	0.0	1.650	4.1	2.640	0.2
3.630	0.0				

RUNOFF VOLUME = 0.43934 INCHES = 0.1884 ACRE-Feet
 PEAK DISCHARGE RATE = 6.88 CFS AT 1.518 HOURS BASIN AREA =
 0.0080 SQ. MI.

*S COMPUTE HYD EXISTING BASIN B

COMPUTE NM HYD ID=2 HYDNO=102 DA=0.01428SQ MI

PER A=100 PER B=0 PER C=0 PER D=0

TP=-0.13 RAIN=-1

K = 0.159632HR TP = 0.130000HR K/TP RATIO = 1.227936
 SHAPE CONSTANT, N = 2.899626
 UNIT PEAK = 30.047 CFS UNIT VOLUME = 0.9991 B =
 273.54 P60 = 1.8700
 AREA = 0.014280 SQ MI IA = 0.65000 INCHES INF =
 1.67000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=2 CODE=10

PARTIAL HYDROGRAPH 102.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	0.990	0.0	1.980	1.2
2.970	0.1	3.960	0.0		
0.330	0.0	1.320	0.0	2.310	0.6

			AHYMO.OUT			
3.300	0.1	4.290	0.0			
0.660	0.0	1.650	7.3	2.640	0.3	
3.630	0.0	4.620	0.0			

RUNOFF VOLUME = 0.43934 INCHES = 0.3346 ACRE-FEET
 PEAK DISCHARGE RATE = 12.21 CFS AT 1.518 HOURS BASIN AREA =
 0.0143 SQ. MI.

*S COMPUTE HYD EXISTING BASIN C

COMPUTE NM HYD ID=3 HYDNO=103 DA=0.03350SQ MI

PER A=100 PER B=0 PER C=0 PER D=0

TP=-0.13 RAIN=-1

K = 0.159632HR TP = 0.130000HR K/TP RATIO = 1.227936
 SHAPE CONSTANT, N = 2.899626
 UNIT PEAK = 70.489 CFS UNIT VOLUME = 0.9994 B =
 273.54 P60 = 1.8700
 AREA = 0.033500 SQ MI IA = 0.65000 INCHES INF =
 1.67000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=3 CODE=10

PARTIAL HYDROGRAPH 103.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	1.320	0.0	2.640	0.7
3.960	0.0				
0.330	0.0	1.650	17.1	2.970	0.3
4.290	0.0				
0.660	0.0	1.980	2.7	3.300	0.2
4.620	0.0				
0.990	0.0	2.310	1.3	3.630	0.1
4.950	0.0				

RUNOFF VOLUME = 0.43934 INCHES = 0.7850 ACRE-FEET
 PEAK DISCHARGE RATE = 28.63 CFS AT 1.518 HOURS BASIN AREA =
 0.0335 SQ. MI.

AHYMO.OUT

ADD HYD ID=4 HYD=101T0102 ID I=1 II=2

PRINT HYD ID=4 CODE=10

HYDROGRAPH FROM AREA 101T0102

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	0.990	0.0	1.980	1.8
2.970	0.2	3.960	0.0		
0.330	0.0	1.320	0.0	2.310	0.9
3.300	0.1	4.290	0.0		
0.660	0.0	1.650	11.4	2.640	0.4
3.630	0.1	4.620	0.0		

RUNOFF VOLUME = 0.43933 INCHES = 0.5230 ACRE-FEET
 PEAK DISCHARGE RATE = 19.08 CFS AT 1.518 HOURS BASIN AREA =
 0.0223 SQ. MI.

ADD HYD ID=5 HYD=COMBINED101-102T0103 ID I=3 II=4

PRINT HYD ID=5 CODE=10

HYDROGRAPH FROM AREA

COMBINED101-102T0103

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	1.320	0.0	2.640	1.1
3.960	0.1				
0.330	0.0	1.650	28.5	2.970	0.6
4.290	0.0				
0.660	0.0	1.980	4.5	3.300	0.3
4.620	0.0				
0.990	0.0	2.310	2.2	3.630	0.1

AHYMO.OUT

4.950 0.0

RUNOFF VOLUME = 0.43934 INCHES = 1.3079 ACRE-FEET
PEAK DISCHARGE RATE = 47.71 CFS AT 1.518 HOURS BASIN AREA =
0.0558 SQ. MI.

*S PROPOSED CONDITIONS

*S COMPUTE HYD PROPOSED BASIN A

COMPUTE NM HYD ID=6 HYDNO=104 DA=0.00923SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
SHAPE CONSTANT, N = 7.106428
UNIT PEAK = 29.892 CFS UNIT VOLUME = 0.9994 B =
526.28 P60 = 1.8700
AREA = 0.007384 SQ MI IA = 0.10000 INCHES INF =
0.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = 0.033000

K = 0.115497HR TP = 0.130000HR K/TP RATIO = 0.888442
SHAPE CONSTANT, N = 3.992344
UNIT PEAK = 5.0362 CFS UNIT VOLUME = 0.9977 B =
354.66 P60 = 1.8700
AREA = 0.001846 SQ MI IA = 0.42500 INCHES INF =
1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = 0.033000

PRINT HYD ID=6 CODE=10

PARTIAL HYDROGRAPH 104.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		

		AHYMO.OUT			
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	5.280	0.1	10.560	0.1
15.840	0.1	21.120	0.1		
0.330	0.0	5.610	0.1	10.890	0.1
16.170	0.1	21.450	0.1		
0.660	0.0	5.940	0.1	11.220	0.1
16.500	0.1	21.780	0.1		
0.990	0.0	6.270	0.2	11.550	0.1
16.830	0.1	22.110	0.1		
1.320	5.7	6.600	0.2	11.880	0.1
17.160	0.1	22.440	0.1		
1.650	12.6	6.930	0.2	12.210	0.1
17.490	0.1	22.770	0.1		
1.980	5.6	7.260	0.2	12.540	0.1
17.820	0.1	23.100	0.1		
2.310	1.2	7.590	0.2	12.870	0.1
18.150	0.1	23.430	0.1		
2.640	0.5	7.920	0.2	13.200	0.1
18.480	0.1	23.760	0.1		
2.970	0.3	8.250	0.2	13.530	0.1
18.810	0.1	24.090	0.1		
3.300	0.2	8.580	0.2	13.860	0.1
19.140	0.1	24.420	0.0		
3.630	0.1	8.910	0.2	14.190	0.1
19.470	0.1	24.750	0.0		
3.960	0.1	9.240	0.2	14.520	0.1
19.800	0.1				
4.290	0.1	9.570	0.2	14.850	0.1
20.130	0.1				
4.620	0.1	9.900	0.1	15.180	0.1
20.460	0.1				
4.950	0.1	10.230	0.1	15.510	0.1
20.790	0.1				

RUNOFF VOLUME = 2.10390 INCHES = 1.0357 ACRE-Feet
 PEAK DISCHARGE RATE = 23.58 CFS AT 1.485 HOURS BASIN AREA =
 0.0092 SQ. MI.

*S COMPUTE HYD PROPOSED BASIN B

COMPUTE NM HYD ID=7 HYDNO=105 DA=0.00446SQ MI

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

TP=-0.13 RAIN=-1

AHYMO.OUT

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 14.444 CFS UNIT VOLUME = 0.9991 B =
 526.28 P60 = 1.8700
 AREA = 0.003568 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.115497HR TP = 0.130000HR K/TP RATIO = 0.888442
 SHAPE CONSTANT, N = 3.992344
 UNIT PEAK = 2.4335 CFS UNIT VOLUME = 0.9951 B =
 354.66 P60 = 1.8700
 AREA = 0.000892 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=7 CODE=10

PARTIAL HYDROGRAPH 105.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.1	9.900	0.1
14.850	0.1	19.800	0.0	10.230	0.1
0.330	0.0	5.280	0.1	10.560	0.1
15.180	0.1	20.130	0.0	10.890	0.1
0.660	0.0	5.610	0.1	11.220	0.1
15.510	0.1	20.460	0.0	11.550	0.1
0.990	0.0	5.940	0.1	11.880	0.1
15.840	0.1	20.790	0.0	12.210	0.1
1.320	2.8	6.270	0.1	12.540	0.1
16.170	0.1	21.120	0.0	12.870	0.1
1.650	6.1	6.600	0.1	13.200	0.1
16.500	0.1	21.450	0.0		
1.980	2.7	6.930	0.1		
16.830	0.1	21.780	0.0		
2.310	0.6	7.260	0.1		
17.160	0.1	22.110	0.0		
2.640	0.2	7.590	0.1		
17.490	0.1	22.440	0.0		
2.970	0.1	7.920	0.1		
17.820	0.1	22.770	0.0		
3.300	0.1	8.250	0.1		
18.150	0.0	23.100	0.0		

AHYMO.OUT					
3.630	0.1	8.580	0.1	13.530	0.1
18.480	0.0	23.430	0.0		
3.960	0.1	8.910	0.1	13.860	0.1
18.810	0.0	23.760	0.0		
4.290	0.1	9.240	0.1	14.190	0.1
19.140	0.0	24.090	0.0		
4.620	0.1	9.570	0.1	14.520	0.1
19.470	0.0	24.420	0.0		

RUNOFF VOLUME = 2.10390 INCHES = 0.5004 ACRE-FEET
 PEAK DISCHARGE RATE = 11.40 CFS AT 1.485 HOURS BASIN AREA =
 0.0045 SQ. MI.

*S COMPUTE HYD PROPOSED BASIN C

COMPUTE NM HYD ID=8 HYDNO=106 DA=0.00609SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 19.723 CFS UNIT VOLUME = 0.9993 B =
 526.28 P60 = 1.8700
 AREA = 0.004872 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.115497HR TP = 0.130000HR K/TP RATIO = 0.888442
 SHAPE CONSTANT, N = 3.992344
 UNIT PEAK = 3.3229 CFS UNIT VOLUME = 0.9964 B =
 354.66 P60 = 1.8700
 AREA = 0.001218 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=8 CODE=10

PARTIAL HYDROGRAPH 106.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
------	------	------	------	------	------

		AHYMO.OUT					
TIME		FLOW		TIME		FLOW	
HRS	CFS	HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.1	9.900	0.1		
14.850	0.1	19.800	0.1				
0.330	0.0	5.280	0.1	10.230	0.1		
15.180	0.1	20.130	0.1				
0.660	0.0	5.610	0.1	10.560	0.1		
15.510	0.1	20.460	0.1				
0.990	0.0	5.940	0.1	10.890	0.1		
15.840	0.1	20.790	0.1				
1.320	3.8	6.270	0.1	11.220	0.1		
16.170	0.1	21.120	0.1				
1.650	8.3	6.600	0.1	11.550	0.1		
16.500	0.1	21.450	0.1				
1.980	3.7	6.930	0.1	11.880	0.1		
16.830	0.1	21.780	0.1				
2.310	0.8	7.260	0.1	12.210	0.1		
17.160	0.1	22.110	0.1				
2.640	0.3	7.590	0.1	12.540	0.1		
17.490	0.1	22.440	0.1				
2.970	0.2	7.920	0.1	12.870	0.1		
17.820	0.1	22.770	0.1				
3.300	0.1	8.250	0.1	13.200	0.1		
18.150	0.1	23.100	0.1				
3.630	0.1	8.580	0.1	13.530	0.1		
18.480	0.1	23.430	0.1				
3.960	0.1	8.910	0.1	13.860	0.1		
18.810	0.1	23.760	0.1				
4.290	0.1	9.240	0.1	14.190	0.1		
19.140	0.1	24.090	0.0				
4.620	0.1	9.570	0.1	14.520	0.1		
19.470	0.1	24.420	0.0				

RUNOFF VOLUME = 2.10390 INCHES = 0.6833 ACRE-FEET
 PEAK DISCHARGE RATE = 15.56 CFS AT 1.485 HOURS BASIN AREA =
 0.0061 SQ. MI.

ADD HYD ID=10 HYD=BTOA ID I=6 II=7

PRINT HYD ID=10 CODE=10

HYDROGRAPH FROM AREA BTOA

TIME	FLOW	TIME	FLOW	TIME	FLOW
------	------	------	------	------	------

		AHYMO.OUT					
TIME	FLOW	TIME	FLOW				
HRS	CFS	HRS	CFS		HRS	CFS	
HRS	CFS	HRS	CFS				
0.000	0.0	5.280	0.2		10.560	0.2	
15.840	0.2	21.120	0.1				
0.330	0.0	5.610	0.2		10.890	0.2	
16.170	0.2	21.450	0.1				
0.660	0.0	5.940	0.2		11.220	0.2	
16.500	0.2	21.780	0.1				
0.990	0.0	6.270	0.3		11.550	0.2	
16.830	0.2	22.110	0.1				
1.320	8.5	6.600	0.3		11.880	0.2	
17.160	0.2	22.440	0.1				
1.650	18.7	6.930	0.3		12.210	0.2	
17.490	0.2	22.770	0.1				
1.980	8.3	7.260	0.3		12.540	0.2	
17.820	0.2	23.100	0.1				
2.310	1.8	7.590	0.3		12.870	0.2	
18.150	0.2	23.430	0.1				
2.640	0.7	7.920	0.2		13.200	0.2	
18.480	0.2	23.760	0.1				
2.970	0.4	8.250	0.2		13.530	0.2	
18.810	0.1	24.090	0.1				
3.300	0.2	8.580	0.2		13.860	0.2	
19.140	0.1	24.420	0.0				
3.630	0.2	8.910	0.2		14.190	0.2	
19.470	0.1	24.750	0.0				
3.960	0.2	9.240	0.2		14.520	0.2	
19.800	0.1						
4.290	0.2	9.570	0.2		14.850	0.2	
20.130	0.1						
4.620	0.2	9.900	0.2		15.180	0.2	
20.460	0.1						
4.950	0.2	10.230	0.2		15.510	0.2	
20.790	0.1						

RUNOFF VOLUME = 2.10386 INCHES = 1.5361 ACRE-FEET
 PEAK DISCHARGE RATE = 34.98 CFS AT 1.485 HOURS BASIN AREA =
 0.0137 SQ. MI.

ADD HYD ID=11 HYD=B-CTOA ID I=8 II=10

PRINT HYD ID=11 CODE=10

HYDROGRAPH FROM AREA B-CTOA

AHYMO.OUT

TIME TIME HRS HRS	FLOW FLOW CFS CFS	TIME TIME HRS HRS	FLOW FLOW CFS CFS	TIME HRS	FLOW CFS
0.000	0.0	5.280	0.3	10.560	0.3
15.840	0.2	21.120	0.2	10.890	0.3
0.330	0.0	5.610	0.3	11.220	0.3
16.170	0.2	21.450	0.2	11.550	0.3
0.660	0.0	5.940	0.3	11.880	0.3
16.500	0.2	21.780	0.2	12.210	0.3
0.990	0.0	6.270	0.4	12.540	0.3
16.830	0.2	22.110	0.2	12.870	0.3
1.320	12.3	6.600	0.4	13.200	0.3
17.160	0.2	22.440	0.2	13.530	0.3
1.650	27.0	6.930	0.4	13.860	0.3
17.490	0.2	22.770	0.2	14.190	0.3
1.980	11.9	7.260	0.4	14.520	0.3
17.820	0.2	23.100	0.2	14.850	0.3
2.310	2.6	7.590	0.4	15.180	0.2
18.150	0.2	23.430	0.2	15.510	0.2
2.640	1.1	7.920	0.4		
18.480	0.2	23.760	0.2		
2.970	0.5	8.250	0.4		
18.810	0.2	24.090	0.1		
3.300	0.4	8.580	0.3		
19.140	0.2	24.420	0.0		
3.630	0.3	8.910	0.3		
19.470	0.2	24.750	0.0		
3.960	0.3	9.240	0.3		
19.800	0.2	9.570	0.3		
4.290	0.3	9.900	0.3		
20.130	0.2	10.230	0.3		
4.620	0.3				
20.460	0.2				
4.950	0.3				
20.790	0.2				

RUNOFF VOLUME = 2.10386 INCHES = 2.2194 ACRE-FEET
 PEAK DISCHARGE RATE = 50.55 CFS AT 1.485 HOURS BASIN AREA =
 0.0198 SQ. MI.

*S COMPUTE HYD PROPOSED BASIN D

COMPUTE NM HYD ID=12 HYDNO=107 DA=0.01503SQ MI

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

AHYMO.OUT

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 6.0846 CFS UNIT VOLUME = 0.9979 B =
 526.28 P60 = 1.8700
 AREA = 0.001503 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.159632HR TP = 0.130000HR K/TP RATIO = 1.227936
 SHAPE CONSTANT, N = 2.899626
 UNIT PEAK = 28.463 CFS UNIT VOLUME = 0.9991 B =
 273.54 P60 = 1.8700
 AREA = 0.013527 SQ MI IA = 0.65000 INCHES INF =
 1.67000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD

ID=12 CODE=10

PARTIAL HYDROGRAPH 107.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0		
0.330	0.0	5.280	0.0	10.230	0.0
15.180	0.0	20.130	0.0		
0.660	0.0	5.610	0.0	10.560	0.0
15.510	0.0	20.460	0.0		
0.990	0.0	5.940	0.0	10.890	0.0
15.840	0.0	20.790	0.0		
1.320	1.2	6.270	0.0	11.220	0.0
16.170	0.0	21.120	0.0		
1.650	9.1	6.600	0.0	11.550	0.0
16.500	0.0	21.450	0.0		
1.980	2.2	6.930	0.0	11.880	0.0
16.830	0.0	21.780	0.0		
2.310	0.8	7.260	0.0	12.210	0.0
17.160	0.0	22.110	0.0		
2.640	0.4	7.590	0.0	12.540	0.0
17.490	0.0	22.440	0.0		
2.970	0.2	7.920	0.0	12.870	0.0

AHYMO.OUT					
17.820	0.0	22.770	0.0		
3.300	0.1	8.250	0.0	13.200	0.0
18.150	0.0	23.100	0.0		
3.630	0.1	8.580	0.0	13.530	0.0
18.480	0.0	23.430	0.0		
3.960	0.0	8.910	0.0	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0	14.520	0.0
19.470	0.0	24.420	0.0		

RUNOFF VOLUME = 0.63801 INCHES = 0.5114 ACRE-FEET
 PEAK DISCHARGE RATE = 15.74 CFS AT 1.518 HOURS BASIN AREA =
 0.0150 SQ. MI.

*S COMPUTE HYD PROPOSED BASIN E

COMPUTE NM HYD ID=13 HYDNO=108 DA=0.00150SQ MI

PER A=0 PER B=17.5 PER C=17.5 PER D=65

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 3.9471 CFS UNIT VOLUME = 0.9967 B =
 526.28 P60 = 1.8700
 AREA = 0.000975 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.115497HR TP = 0.130000HR K/TP RATIO = 0.888442
 SHAPE CONSTANT, N = 3.992344
 UNIT PEAK = 1.4323 CFS UNIT VOLUME = 0.9911 B =
 354.66 P60 = 1.8700
 AREA = 0.000525 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=13 CODE=10

AHYMO.OUT

PARTIAL HYDROGRAPH 108.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0		
0.330	0.0	5.280	0.0	10.230	0.0
15.180	0.0	20.130	0.0		
0.660	0.0	5.610	0.0	10.560	0.0
15.510	0.0	20.460	0.0		
0.990	0.0	5.940	0.0	10.890	0.0
15.840	0.0	20.790	0.0		
1.320	0.8	6.270	0.0	11.220	0.0
16.170	0.0	21.120	0.0		
1.650	1.9	6.600	0.0	11.550	0.0
16.500	0.0	21.450	0.0		
1.980	0.8	6.930	0.0	11.880	0.0
16.830	0.0	21.780	0.0		
2.310	0.2	7.260	0.0	12.210	0.0
17.160	0.0	22.110	0.0		
2.640	0.1	7.590	0.0	12.540	0.0
17.490	0.0	22.440	0.0		
2.970	0.0	7.920	0.0	12.870	0.0
17.820	0.0	22.770	0.0		
3.300	0.0	8.250	0.0	13.200	0.0
18.150	0.0	23.100	0.0		
3.630	0.0	8.580	0.0	13.530	0.0
18.480	0.0	23.430	0.0		
3.960	0.0	8.910	0.0	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0	14.520	0.0
19.470	0.0				

RUNOFF VOLUME = 1.86230 INCHES = 0.1490 ACRE-FEET
 PEAK DISCHARGE RATE = 3.56 CFS AT 1.485 HOURS BASIN AREA =
 0.0015 SQ. MI.

*S COMPUTE HYD PROPOSED BASIN F

COMPUTE NM HYD ID=14 HYDNO=109 DA=0.00054SQ MI

PER A=0 PER B=45 PER C=45 PER D=10

AHYMO.OUT
TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
SHAPE CONSTANT, N = 7.106428
UNIT PEAK = 0.21861 CFS UNIT VOLUME = 0.9495 B =
526.28 P60 = 1.8700
AREA = 0.000054 SQ MI IA = 0.10000 INCHES INF =
0.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = 0.033000

K = 0.115497HR TP = 0.130000HR K/TP RATIO = 0.888442
SHAPE CONSTANT, N = 3.992344
UNIT PEAK = 1.3259 CFS UNIT VOLUME = 0.9902 B =
354.66 P60 = 1.8700
AREA = 0.000486 SQ MI IA = 0.42500 INCHES INF =
1.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
DT = 0.033000

PRINT HYD ID=14 CODE=10

PARTIAL HYDROGRAPH 109.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	2.310	0.0	4.620	0.0
6.930	0.0	9.240	0.0		
0.330	0.0	2.640	0.0	4.950	0.0
7.260	0.0	9.570	0.0		
0.660	0.0	2.970	0.0	5.280	0.0
7.590	0.0	9.900	0.0		
0.990	0.0	3.300	0.0	5.610	0.0
7.920	0.0	10.230	0.0		
1.320	0.1	3.630	0.0	5.940	0.0
8.250	0.0	10.560	0.0		
1.650	0.5	3.960	0.0	6.270	0.0
8.580	0.0	10.890	0.0		
1.980	0.1	4.290	0.0	6.600	0.0
8.910	0.0	11.220	0.0		

RUNOFF VOLUME = 0.97645 INCHES = 0.0281 ACRE-FEET
PEAK DISCHARGE RATE = 0.94 CFS AT 1.518 HOURS BASIN AREA =
0.0005 SQ. MI.

AHYMO.OUT

ADD HYD

ID=15 HYD=DTOF ID I=12 II=14

PRINT HYD

ID=15 CODE=10

HYDROGRAPH FROM AREA DTOF

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0	10.230	0.0
0.330	0.0	5.280	0.0	10.560	0.0
15.180	0.0	20.130	0.0	10.890	0.0
0.660	0.0	5.610	0.0	11.220	0.0
15.510	0.0	20.460	0.0	11.550	0.0
0.990	0.0	5.940	0.0	11.880	0.0
15.840	0.0	20.790	0.0	12.210	0.0
1.320	1.2	6.270	0.0	12.540	0.0
16.170	0.0	21.120	0.0	12.870	0.0
1.650	9.7	6.600	0.0	13.200	0.0
16.500	0.0	21.450	0.0	13.530	0.0
1.980	2.3	6.930	0.0	13.860	0.0
16.830	0.0	21.780	0.0	14.190	0.0
2.310	0.8	7.260	0.0	14.520	0.0
17.160	0.0	22.110	0.0		
2.640	0.4	7.590	0.0		
17.490	0.0	22.440	0.0		
2.970	0.2	7.920	0.0		
17.820	0.0	22.770	0.0		
3.300	0.1	8.250	0.0		
18.150	0.0	23.100	0.0		
3.630	0.1	8.580	0.0		
18.480	0.0	23.430	0.0		
3.960	0.0	8.910	0.0		
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0		
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0		
19.470	0.0	24.420	0.0		

RUNOFF VOLUME = 0.64875 INCHES = 0.5387 ACRE-FEET
 PEAK DISCHARGE RATE = 16.68 CFS AT 1.518 HOURS BASIN AREA =
 0.0156 SQ. MI.

AHYMO.OUT

ADD HYD

ID=16 HYD=ETOF-D ID I=13 II=15

PRINT HYD

ID=16 CODE=10

HYDROGRAPH FROM AREA ETOF-D

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.0	9.900	0.1
14.850	0.0	19.800	0.0	10.230	0.1
0.330	0.0	5.280	0.0	10.560	0.0
15.180	0.0	20.130	0.0	10.890	0.0
0.660	0.0	5.610	0.0	11.220	0.0
15.510	0.0	20.460	0.0	11.550	0.0
0.990	0.0	5.940	0.1	11.880	0.0
15.840	0.0	20.790	0.0	12.210	0.0
1.320	2.0	6.270	0.1	12.540	0.0
16.170	0.0	21.120	0.0	12.870	0.0
1.650	11.6	6.600	0.1	13.200	0.0
16.500	0.0	21.450	0.0	13.530	0.0
1.980	3.1	6.930	0.1	13.860	0.0
16.830	0.0	21.780	0.0	14.190	0.0
2.310	1.0	7.260	0.1	14.520	0.0
17.160	0.0	22.110	0.0		
2.640	0.4	7.590	0.1		
17.490	0.0	22.440	0.0		
2.970	0.2	7.920	0.1		
17.820	0.0	22.770	0.0		
3.300	0.1	8.250	0.1		
18.150	0.0	23.100	0.0		
3.630	0.1	8.580	0.1		
18.480	0.0	23.430	0.0		
3.960	0.1	8.910	0.1		
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.1		
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.1		
19.470	0.0	24.420	0.0		

RUNOFF VOLUME = 0.75538 INCHES = 0.6877 ACRE-FEET
 PEAK DISCHARGE RATE = 20.24 CFS AT 1.518 HOURS BASIN AREA =
 0.0171 SQ. MI.

AHYMO.OUT

*S COMPUTE HYD PROPOSED BASIN G

COMPUTE NM HYD ID=17 HYDNO=110 DA=0.00472SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 17.197 CFS UNIT VOLUME = 0.9992 B =
 526.28 P60 = 1.8700
 AREA = 0.004248 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.115497HR TP = 0.130000HR K/TP RATIO = 0.888442
 SHAPE CONSTANT, N = 3.992344
 UNIT PEAK = 1.2877 CFS UNIT VOLUME = 0.9902 B =
 354.66 P60 = 1.8700
 AREA = 0.000472 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=17 CODE=10

PARTIAL HYDROGRAPH 110.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.1	9.900	0.1
14.850	0.1	19.800	0.1	10.230	0.1
0.330	0.0	5.280	0.1	10.560	0.1
15.180	0.1	20.130	0.1	10.890	0.1
0.660	0.0	5.610	0.1	11.220	0.1
15.510	0.1	20.460	0.1	11.550	0.1
0.990	0.0	5.940	0.1		
15.840	0.1	20.790	0.1		
1.320	3.3	6.270	0.1		
16.170	0.1	21.120	0.1		
1.650	6.7	6.600	0.1		

AHYMO.OUT					
16.500	0.1	21.450	0.1		
1.980	3.1	6.930	0.1	11.880	0.1
16.830	0.1	21.780	0.1		
2.310	0.7	7.260	0.1	12.210	0.1
17.160	0.1	22.110	0.1		
2.640	0.3	7.590	0.1	12.540	0.1
17.490	0.1	22.440	0.1		
2.970	0.1	7.920	0.1	12.870	0.1
17.820	0.1	22.770	0.1		
3.300	0.1	8.250	0.1	13.200	0.1
18.150	0.1	23.100	0.1		
3.630	0.1	8.580	0.1	13.530	0.1
18.480	0.1	23.430	0.0		
3.960	0.1	8.910	0.1	13.860	0.1
18.810	0.1	23.760	0.0		
4.290	0.1	9.240	0.1	14.190	0.1
19.140	0.1	24.090	0.0		
4.620	0.1	9.570	0.1	14.520	0.1
19.470	0.1	24.420	0.0		

RUNOFF VOLUME = 2.26496 INCHES = 0.5702 ACRE-FEET
 PEAK DISCHARGE RATE = 12.66 CFS AT 1.485 HOURS BASIN AREA =
 0.0047 SQ. MI.

*S COMPUTE HYD PROPOSED BASIN H

COMPUTE NM HYD ID=18 HYDNO=111 DA=0.00107SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 3.8985 CFS UNIT VOLUME = 0.9967 B =
 526.28 P60 = 1.8700
 AREA = 0.000963 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.115497HR TP = 0.130000HR K/TP RATIO = 0.888442
 SHAPE CONSTANT, N = 3.992344
 UNIT PEAK = 0.29192 CFS UNIT VOLUME = 0.9534 B =
 354.66 P60 = 1.8700

AHYMO.OUT

AREA = 0.000107 SQ MI IA = 0.42500 INCHES INF = 1.04000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033000

PRINT HYD

ID=18 CODE=10

PARTIAL HYDROGRAPH 111.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0	10.230	0.0
0.330	0.0	5.280	0.0	10.560	0.0
15.180	0.0	20.130	0.0	10.890	0.0
0.660	0.0	5.610	0.0	11.220	0.0
15.510	0.0	20.460	0.0	11.550	0.0
0.990	0.0	5.940	0.0	11.880	0.0
15.840	0.0	20.790	0.0	12.210	0.0
1.320	0.7	6.270	0.0	12.540	0.0
16.170	0.0	21.120	0.0	12.870	0.0
1.650	1.5	6.600	0.0	13.200	0.0
16.500	0.0	21.450	0.0	13.530	0.0
1.980	0.7	6.930	0.0	13.860	0.0
16.830	0.0	21.780	0.0	14.190	0.0
2.310	0.1	7.260	0.0	14.520	0.0
17.160	0.0	22.110	0.0		
2.640	0.1	7.590	0.0		
17.490	0.0	22.440	0.0		
2.970	0.0	7.920	0.0		
17.820	0.0	22.770	0.0		
3.300	0.0	8.250	0.0		
18.150	0.0	23.100	0.0		
3.630	0.0	8.580	0.0		
18.480	0.0	23.430	0.0		
3.960	0.0	8.910	0.0		
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0		
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0		
19.470	0.0				

RUNOFF VOLUME = 2.26496 INCHES = 0.1293 ACRE-FEET
 PEAK DISCHARGE RATE = 2.88 CFS AT 1.485 HOURS BASIN AREA = 0.0011 SQ. MI.

AHYMO.OUT

*S COMPUTE HYD PROPOSED BASIN I

COMPUTE NM HYD ID=19 HYDNO=112 DA=0.000745Q MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 2.6961 CFS UNIT VOLUME = 0.9956 B =
 526.28 P60 = 1.8700
 AREA = 0.000666 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.115497HR TP = 0.130000HR K/TP RATIO = 0.888442
 SHAPE CONSTANT, N = 3.992344
 UNIT PEAK = 0.20189 CFS UNIT VOLUME = 0.9316 B =
 354.66 P60 = 1.8700
 AREA = 0.000074 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=19 CODE=10

PARTIAL HYDROGRAPH 112.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0		
0.330	0.0	5.280	0.0	10.230	0.0
15.180	0.0	20.130	0.0		
0.660	0.0	5.610	0.0	10.560	0.0
15.510	0.0	20.460	0.0		
0.990	0.0	5.940	0.0	10.890	0.0
15.840	0.0	20.790	0.0		
1.320	0.5	6.270	0.0	11.220	0.0
16.170	0.0	21.120	0.0		
1.650	1.1	6.600	0.0	11.550	0.0
16.500	0.0	21.450	0.0		

AHYMO.OUT					
1.980	0.5	6.930	0.0	11.880	0.0
16.830	0.0	21.780	0.0		
2.310	0.1	7.260	0.0	12.210	0.0
17.160	0.0	22.110	0.0		
2.640	0.0	7.590	0.0	12.540	0.0
17.490	0.0	22.440	0.0		
2.970	0.0	7.920	0.0	12.870	0.0
17.820	0.0	22.770	0.0		
3.300	0.0	8.250	0.0	13.200	0.0
18.150	0.0	23.100	0.0		
3.630	0.0	8.580	0.0	13.530	0.0
18.480	0.0	23.430	0.0		
3.960	0.0	8.910	0.0	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0	14.520	0.0
19.470	0.0				

RUNOFF VOLUME = 2.26496 INCHES = 0.0894 ACRE-FEET
 PEAK DISCHARGE RATE = 2.00 CFS AT 1.485 HOURS BASIN AREA =
 0.0007 SQ. MI.

ADD HYD ID=20 HYD=HTOI ID I=18 II=19

PRINT HYD ID=20 CODE=10

HYDROGRAPH FROM AREA HTOI

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0		
0.330	0.0	5.280	0.0	10.230	0.0
15.180	0.0	20.130	0.0		
0.660	0.0	5.610	0.0	10.560	0.0
15.510	0.0	20.460	0.0		
0.990	0.0	5.940	0.0	10.890	0.0
15.840	0.0	20.790	0.0		
1.320	1.3	6.270	0.0	11.220	0.0
16.170	0.0	21.120	0.0		
1.650	2.6	6.600	0.0	11.550	0.0
16.500	0.0	21.450	0.0		

AHYMO.OUT					
1.980	1.2	6.930	0.0	11.880	0.0
16.830	0.0	21.780	0.0		
2.310	0.2	7.260	0.0	12.210	0.0
17.160	0.0	22.110	0.0		
2.640	0.1	7.590	0.0	12.540	0.0
17.490	0.0	22.440	0.0		
2.970	0.1	7.920	0.0	12.870	0.0
17.820	0.0	22.770	0.0		
3.300	0.0	8.250	0.0	13.200	0.0
18.150	0.0	23.100	0.0		
3.630	0.0	8.580	0.0	13.530	0.0
18.480	0.0	23.430	0.0		
3.960	0.0	8.910	0.0	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0	14.520	0.0
19.470	0.0				

RUNOFF VOLUME = 2.26462 INCHES = 0.2186 ACRE-FEET
 PEAK DISCHARGE RATE = 4.88 CFS AT 1.485 HOURS BASIN AREA =
 0.0018 SQ. MI.

ADD HYD ID=21 HYD=A-CTOG ID I=11 II=17

PRINT HYD ID=21 CODE=10

HYDROGRAPH FROM AREA A-CTOG

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	5.280	0.4	10.560	0.4
15.840	0.3	21.120	0.3	10.890	0.4
0.330	0.0	5.610	0.4		
16.170	0.3	21.450	0.3	11.220	0.4
0.660	0.0	5.940	0.4		
16.500	0.3	21.780	0.2	11.550	0.4
0.990	0.0	6.270	0.5		
16.830	0.3	22.110	0.2	11.880	0.4
1.320	15.6	6.600	0.5		
17.160	0.3	22.440	0.2		

		AHYMO.OUT			
1.650	33.8	6.930	0.5	12.210	0.4
17.490	0.3	22.770	0.2		
1.980	15.0	7.260	0.5	12.540	0.4
17.820	0.3	23.100	0.2		
2.310	3.3	7.590	0.5	12.870	0.3
18.150	0.3	23.430	0.2		
2.640	1.3	7.920	0.5	13.200	0.3
18.480	0.3	23.760	0.2		
2.970	0.7	8.250	0.4	13.530	0.3
18.810	0.3	24.090	0.2		
3.300	0.5	8.580	0.4	13.860	0.3
19.140	0.3	24.420	0.0		
3.630	0.4	8.910	0.4	14.190	0.3
19.470	0.3	24.750	0.0		
3.960	0.3	9.240	0.4	14.520	0.3
19.800	0.3				
4.290	0.3	9.570	0.4	14.850	0.3
20.130	0.3				
4.620	0.3	9.900	0.4	15.180	0.3
20.460	0.3				
4.950	0.3	10.230	0.4	15.510	0.3
20.790	0.3				

RUNOFF VOLUME = 2.13488 INCHES = 2.7896 ACRE-FEET
 PEAK DISCHARGE RATE = 63.21 CFS AT 1.485 HOURS BASIN AREA =
 0.0245 SQ. MI.

ADD HYD ID=22 HYD=D-FTOA-DTOG ID I=16 II=21

PRINT HYD ID=22 CODE=10

HYDROGRAPH FROM AREA D-FTOA-DTOG

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	5.280	0.4	10.560	0.4
15.840	0.3	21.120	0.3		
0.330	0.0	5.610	0.4	10.890	0.4
16.170	0.3	21.450	0.3		
0.660	0.0	5.940	0.5	11.220	0.4
16.500	0.3	21.780	0.3		
0.990	0.0	6.270	0.6	11.550	0.4
16.830	0.3	22.110	0.3		

AHYMO.OUT					
1.320	17.6	6.600	0.6	11.880	0.4
17.160	0.3	22.440	0.3		
1.650	45.4	6.930	0.5	12.210	0.4
17.490	0.3	22.770	0.3		
1.980	18.1	7.260	0.5	12.540	0.4
17.820	0.3	23.100	0.3		
2.310	4.3	7.590	0.5	12.870	0.4
18.150	0.3	23.430	0.3		
2.640	1.8	7.920	0.5	13.200	0.4
18.480	0.3	23.760	0.3		
2.970	0.9	8.250	0.5	13.530	0.4
18.810	0.3	24.090	0.2		
3.300	0.6	8.580	0.5	13.860	0.4
19.140	0.3	24.420	0.0		
3.630	0.5	8.910	0.5	14.190	0.4
19.470	0.3	24.750	0.0		
3.960	0.4	9.240	0.5	14.520	0.4
19.800	0.3				
4.290	0.4	9.570	0.5	14.850	0.4
20.130	0.3				
4.620	0.4	9.900	0.5	15.180	0.4
20.460	0.3				
4.950	0.4	10.230	0.5	15.510	0.3
20.790	0.3				

RUNOFF VOLUME = 1.56841 INCHES = 3.4773 ACRE-Feet
 PEAK DISCHARGE RATE = 83.07 CFS AT 1.518 HOURS BASIN AREA =
 0.0416 SQ. MI.

*S FUTURE CONDITIONS

*S COMPUTE HYD FUTURE BASIN D-1

COMPUTE NM HYD ID=23 HYDNO=113 DA=0.00781SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 25.294 CFS UNIT VOLUME = 0.9993 B =

AHYMO.OUT

526.28 P60 = 1.8700
 AREA = 0.006248 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.115497HR TP = 0.130000HR K/TP RATIO = 0.888442
 SHAPE CONSTANT, N = 3.992344
 UNIT PEAK = 4.2614 CFS UNIT VOLUME = 0.9971 B =
 354.66 P60 = 1.8700
 AREA = 0.001562 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=23 CODE=10

PARTIAL HYDROGRAPH 113.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	4.950	0.1	9.900	0.1
14.850	0.1	19.800	0.1		
0.330	0.0	5.280	0.1	10.230	0.1
15.180	0.1	20.130	0.1		
0.660	0.0	5.610	0.1	10.560	0.1
15.510	0.1	20.460	0.1		
0.990	0.0	5.940	0.1	10.890	0.1
15.840	0.1	20.790	0.1		
1.320	4.9	6.270	0.2	11.220	0.1
16.170	0.1	21.120	0.1		
1.650	10.7	6.600	0.2	11.550	0.1
16.500	0.1	21.450	0.1		
1.980	4.7	6.930	0.1	11.880	0.1
16.830	0.1	21.780	0.1		
2.310	1.0	7.260	0.1	12.210	0.1
17.160	0.1	22.110	0.1		
2.640	0.4	7.590	0.1	12.540	0.1
17.490	0.1	22.440	0.1		
2.970	0.2	7.920	0.1	12.870	0.1
17.820	0.1	22.770	0.1		
3.300	0.1	8.250	0.1	13.200	0.1
18.150	0.1	23.100	0.1		
3.630	0.1	8.580	0.1	13.530	0.1
18.480	0.1	23.430	0.1		
3.960	0.1	8.910	0.1	13.860	0.1
18.810	0.1	23.760	0.1		

AHYMO.OUT					
4.290	0.1	9.240	0.1	14.190	0.1
19.140	0.1	24.090	0.1		
4.620	0.1	9.570	0.1	14.520	0.1
19.470	0.1	24.420	0.0		

RUNOFF VOLUME = 2.10390 INCHES = 0.8763 ACRE-FEET
 PEAK DISCHARGE RATE = 19.96 CFS AT 1.485 HOURS BASIN AREA =
 0.0078 SQ. MI.

*S COMPUTE HYD FUTURE BASIN D-2

COMPUTE NM HYD ID=24 HYDNO=114 DA=0.00781SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 25.294 CFS UNIT VOLUME = 0.9993 B =
 526.28 P60 = 1.8700
 AREA = 0.006248 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.115497HR TP = 0.130000HR K/TP RATIO = 0.888442
 SHAPE CONSTANT, N = 3.992344
 UNIT PEAK = 4.2614 CFS UNIT VOLUME = 0.9971 B =
 354.66 P60 = 1.8700
 AREA = 0.001562 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=24 CODE=10

PARTIAL HYDROGRAPH 114.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	4.950	0.1	9.900	0.1

AHYMO.OUT					
14.850	0.1	19.800	0.1		
0.330	0.0	5.280	0.1	10.230	0.1
15.180	0.1	20.130	0.1		
0.660	0.0	5.610	0.1	10.560	0.1
15.510	0.1	20.460	0.1		
0.990	0.0	5.940	0.1	10.890	0.1
15.840	0.1	20.790	0.1		
1.320	4.9	6.270	0.2	11.220	0.1
16.170	0.1	21.120	0.1		
1.650	10.7	6.600	0.2	11.550	0.1
16.500	0.1	21.450	0.1		
1.980	4.7	6.930	0.1	11.880	0.1
16.830	0.1	21.780	0.1		
2.310	1.0	7.260	0.1	12.210	0.1
17.160	0.1	22.110	0.1		
2.640	0.4	7.590	0.1	12.540	0.1
17.490	0.1	22.440	0.1		
2.970	0.2	7.920	0.1	12.870	0.1
17.820	0.1	22.770	0.1		
3.300	0.1	8.250	0.1	13.200	0.1
18.150	0.1	23.100	0.1		
3.630	0.1	8.580	0.1	13.530	0.1
18.480	0.1	23.430	0.1		
3.960	0.1	8.910	0.1	13.860	0.1
18.810	0.1	23.760	0.1		
4.290	0.1	9.240	0.1	14.190	0.1
19.140	0.1	24.090	0.1		
4.620	0.1	9.570	0.1	14.520	0.1
19.470	0.1	24.420	0.0		

RUNOFF VOLUME = 2.10390 INCHES = 0.8763 ACRE-FEET
 PEAK DISCHARGE RATE = 19.96 CFS AT 1.485 HOURS BASIN AREA =
 0.0078 SQ. MI.

*S COMPUTE HYD FUTURE BASIN D-3

COMPUTE NM HYD ID=25 HYDNO=115 DA=0.00140SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 4.5341 CFS UNIT VOLUME = 0.9972 B =
 526.28 P60 = 1.8700

AHYMO.OUT

AREA = 0.001120 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033000

K = 0.115497HR TP = 0.130000HR K/TP RATIO = 0.888442
SHAPE CONSTANT, N = 3.992344

UNIT PEAK = 0.76389 CFS UNIT VOLUME = 0.9823 B = 354.66 P60 = 1.8700

AREA = 0.000280 SQ MI IA = 0.42500 INCHES INF = 1.04000 INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.033000

PRINT HYD

ID=25 CODE=10

PARTIAL HYDROGRAPH 115.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0		
0.330	0.0	5.280	0.0	10.230	0.0
15.180	0.0	20.130	0.0		
0.660	0.0	5.610	0.0	10.560	0.0
15.510	0.0	20.460	0.0		
0.990	0.0	5.940	0.0	10.890	0.0
15.840	0.0	20.790	0.0		
1.320	0.9	6.270	0.0	11.220	0.0
16.170	0.0	21.120	0.0		
1.650	1.9	6.600	0.0	11.550	0.0
16.500	0.0	21.450	0.0		
1.980	0.8	6.930	0.0	11.880	0.0
16.830	0.0	21.780	0.0		
2.310	0.2	7.260	0.0	12.210	0.0
17.160	0.0	22.110	0.0		
2.640	0.1	7.590	0.0	12.540	0.0
17.490	0.0	22.440	0.0		
2.970	0.0	7.920	0.0	12.870	0.0
17.820	0.0	22.770	0.0		
3.300	0.0	8.250	0.0	13.200	0.0
18.150	0.0	23.100	0.0		
3.630	0.0	8.580	0.0	13.530	0.0
18.480	0.0	23.430	0.0		
3.960	0.0	8.910	0.0	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0	14.190	0.0

			AHYMO.OUT			
19.140	0.0	24.090	0.0			
4.620	0.0	9.570	0.0	14.520	0.0	
19.470	0.0					

RUNOFF VOLUME = 2.10390 INCHES = 0.1571 ACRE-FEET
 PEAK DISCHARGE RATE = 3.59 CFS AT 1.485 HOURS BASIN AREA =
 0.0014 SQ. MI.

*S COMPUTE HYD FUTURE BASIN G-2

COMPUTE NM HYD ID=26 HYDNO=116 DA=0.00235SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 8.5621 CFS UNIT VOLUME = 0.9984 B =
 526.28 P60 = 1.8700
 AREA = 0.002115 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.115497HR TP = 0.130000HR K/TP RATIO = 0.888442
 SHAPE CONSTANT, N = 3.992344
 UNIT PEAK = 0.64112 CFS UNIT VOLUME = 0.9805 B =
 354.66 P60 = 1.8700
 AREA = 0.000235 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=26 CODE=10

PARTIAL HYDROGRAPH 116.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0		

AHYMO.OUT					
0.330	0.0	5.280	0.0	10.230	0.0
15.180	0.0	20.130	0.0		
0.660	0.0	5.610	0.0	10.560	0.0
15.510	0.0	20.460	0.0		
0.990	0.0	5.940	0.0	10.890	0.0
15.840	0.0	20.790	0.0		
1.320	1.6	6.270	0.1	11.220	0.0
16.170	0.0	21.120	0.0		
1.650	3.4	6.600	0.1	11.550	0.0
16.500	0.0	21.450	0.0		
1.980	1.5	6.930	0.1	11.880	0.0
16.830	0.0	21.780	0.0		
2.310	0.3	7.260	0.0	12.210	0.0
17.160	0.0	22.110	0.0		
2.640	0.1	7.590	0.0	12.540	0.0
17.490	0.0	22.440	0.0		
2.970	0.1	7.920	0.0	12.870	0.0
17.820	0.0	22.770	0.0		
3.300	0.0	8.250	0.0	13.200	0.0
18.150	0.0	23.100	0.0		
3.630	0.0	8.580	0.0	13.530	0.0
18.480	0.0	23.430	0.0		
3.960	0.0	8.910	0.0	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0	14.520	0.0
19.470	0.0	24.420	0.0		

RUNOFF VOLUME = 2.26496 INCHES = 0.2839 ACRE-FEET
 PEAK DISCHARGE RATE = 6.31 CFS AT 1.485 HOURS BASIN AREA =
 0.0024 SQ. MI.

ADD HYD ID=27 HYD=FULLROADWIDTH ID I=17 II=26

PRINT HYD ID=27 CODE=10

HYDROGRAPH FROM AREA						
FULLROADWIDTH						
TIME	FLOW		TIME	FLOW	TIME	FLOW
TIME	FLOW		TIME	FLOW		
HRS	CFS		HRS	CFS	HRS	CFS
HRS	CFS		HRS	CFS		
0.000	0.0		4.950	0.1	9.900	0.1
14.850	0.1		19.800	0.1		

AHYMO.OUT					
0.330	0.0	5.280	0.1	10.230	0.1
15.180	0.1	20.130	0.1		
0.660	0.0	5.610	0.1	10.560	0.1
15.510	0.1	20.460	0.1		
0.990	0.0	5.940	0.1	10.890	0.1
15.840	0.1	20.790	0.1		
1.320	4.9	6.270	0.2	11.220	0.1
16.170	0.1	21.120	0.1		
1.650	10.1	6.600	0.2	11.550	0.1
16.500	0.1	21.450	0.1		
1.980	4.7	6.930	0.2	11.880	0.1
16.830	0.1	21.780	0.1		
2.310	1.0	7.260	0.1	12.210	0.1
17.160	0.1	22.110	0.1		
2.640	0.4	7.590	0.1	12.540	0.1
17.490	0.1	22.440	0.1		
2.970	0.2	7.920	0.1	12.870	0.1
17.820	0.1	22.770	0.1		
3.300	0.1	8.250	0.1	13.200	0.1
18.150	0.1	23.100	0.1		
3.630	0.1	8.580	0.1	13.530	0.1
18.480	0.1	23.430	0.1		
3.960	0.1	8.910	0.1	13.860	0.1
18.810	0.1	23.760	0.1		
4.290	0.1	9.240	0.1	14.190	0.1
19.140	0.1	24.090	0.1		
4.620	0.1	9.570	0.1	14.520	0.1
19.470	0.1	24.420	0.0		

RUNOFF VOLUME = 2.26488 INCHES = 0.8540 ACRE-FEET
 PEAK DISCHARGE RATE = 18.97 CFS AT 1.485 HOURS BASIN AREA =
 0.0071 SQ. MI.

ROUTE RESERVOIR ID=50 HYD=POND.A INFLOW ID=22 CODE=5

OUTFLOW	STORAGE	DEPTH
0.0	0	5404.00
0.01	0.17	5405.00
0.01	0.44	5406.00
0.01	0.85	5407.00

AHYMO.OUT

0.01	1.38	5408.00
0.01	2.24	5409.40
16.80	2.57	5409.90
47.71	2.91	5410.40

* * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
0.00	0.00	5404.00	0.000	0.00
0.16	0.00	5404.00	0.000	0.00
0.33	0.00	5404.00	0.000	0.00
0.50	0.00	5404.00	0.000	0.00
0.66	0.00	5404.00	0.000	0.00
0.82	0.00	5404.00	0.000	0.00
0.99	0.00	5404.00	0.000	0.00
1.15	0.04	5404.00	0.000	0.00
1.32	17.59	5404.48	0.081	0.00
1.49	82.78	5409.40	2.240	0.01
1.65	45.36	5409.40	2.240	0.01
1.81	26.30	5409.40	2.240	0.01
1.98	18.09	5409.61	2.380	7.13
2.14	9.32	5409.71	2.447	10.52
2.31	4.27	5409.64	2.401	8.20
2.47	2.67	5409.57	2.353	5.75
2.64	1.78	5409.52	2.317	3.94
2.81	1.23	5409.48	2.293	2.70
2.97	0.90	5409.46	2.276	1.86
3.13	0.69	5409.44	2.266	1.32
3.30	0.58	5409.43	2.259	0.97
3.46	0.50	5409.42	2.255	0.75
3.63	0.46	5409.42	2.252	0.61
3.80	0.42	5409.42	2.250	0.52
3.96	0.40	5409.41	2.249	0.46
4.12	0.38	5409.41	2.248	0.43
4.29	0.37	5409.41	2.248	0.40
4.45	0.37	5409.41	2.247	0.38
4.62	0.37	5409.41	2.247	0.38
4.78	0.37	5409.41	2.247	0.37
4.95	0.38	5409.41	2.247	0.37
5.11	0.39	5409.41	2.247	0.38
5.28	0.40	5409.41	2.247	0.39
5.45	0.41	5409.41	2.248	0.40
5.61	0.42	5409.41	2.248	0.41
5.78	0.44	5409.41	2.248	0.42
5.94	0.46	5409.41	2.248	0.44

AHYMO.OUT

6.11	0.50	5409.41	2.249	0.46
6.27	0.55	5409.41	2.250	0.50
6.43	0.55	5409.42	2.250	0.53
6.60	0.55	5409.42	2.250	0.54
6.76	0.55	5409.42	2.251	0.54
6.93	0.54	5409.42	2.251	0.54
7.09	0.54	5409.42	2.250	0.54
7.26	0.53	5409.42	2.250	0.54
7.43	0.52	5409.42	2.250	0.53
7.59	0.52	5409.42	2.250	0.53
7.76	0.52	5409.42	2.250	0.52
7.92	0.51	5409.42	2.250	0.52
8.09	0.51	5409.42	2.250	0.51
8.25	0.50	5409.41	2.250	0.51
8.41	0.50	5409.41	2.250	0.50
8.58	0.49	5409.41	2.250	0.50
8.74	0.49	5409.41	2.249	0.49
8.91	0.48	5409.41	2.249	0.49
9.07	0.48	5409.41	2.249	0.48
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.24	0.47	5409.41	2.249	0.48
9.40	0.47	5409.41	2.249	0.47
9.57	0.46	5409.41	2.249	0.47
9.73	0.46	5409.41	2.249	0.46
9.90	0.45	5409.41	2.249	0.46
10.06	0.45	5409.41	2.249	0.45
10.23	0.45	5409.41	2.249	0.45
10.39	0.44	5409.41	2.249	0.45
10.56	0.44	5409.41	2.248	0.44
10.73	0.43	5409.41	2.248	0.44
10.89	0.43	5409.41	2.248	0.44
11.06	0.43	5409.41	2.248	0.43
11.22	0.43	5409.41	2.248	0.43
11.39	0.42	5409.41	2.248	0.42
11.55	0.42	5409.41	2.248	0.42
11.72	0.41	5409.41	2.248	0.42
11.88	0.41	5409.41	2.248	0.41
12.05	0.41	5409.41	2.248	0.41
12.21	0.40	5409.41	2.248	0.41
12.38	0.40	5409.41	2.248	0.40
12.54	0.40	5409.41	2.248	0.40
12.70	0.40	5409.41	2.248	0.40
12.87	0.39	5409.41	2.248	0.39
13.03	0.39	5409.41	2.247	0.39
13.20	0.38	5409.41	2.247	0.39
13.36	0.38	5409.41	2.247	0.39
13.53	0.38	5409.41	2.247	0.38
13.69	0.38	5409.41	2.247	0.38

AHYMO.OUT				
13.86	0.37	5409.41	2.247	0.38
14.02	0.37	5409.41	2.247	0.37
14.19	0.37	5409.41	2.247	0.37
14.35	0.37	5409.41	2.247	0.37
14.52	0.37	5409.41	2.247	0.37
14.68	0.36	5409.41	2.247	0.36
14.85	0.36	5409.41	2.247	0.36
15.02	0.35	5409.41	2.247	0.36
15.18	0.35	5409.41	2.247	0.36
15.35	0.35	5409.41	2.247	0.35
15.51	0.35	5409.41	2.247	0.35
15.68	0.34	5409.41	2.247	0.35
15.84	0.34	5409.41	2.247	0.35
16.00	0.34	5409.41	2.247	0.34
16.17	0.34	5409.41	2.247	0.34
16.33	0.34	5409.41	2.246	0.34
16.50	0.33	5409.41	2.246	0.34
16.66	0.33	5409.41	2.246	0.34
16.83	0.33	5409.41	2.246	0.33
17.00	0.33	5409.41	2.246	0.33
17.16	0.33	5409.41	2.246	0.33
17.33	0.32	5409.41	2.246	0.33
17.49	0.32	5409.41	2.246	0.32
17.66	0.32	5409.41	2.246	0.32
17.82	0.32	5409.41	2.246	0.32
17.99	0.32	5409.41	2.246	0.32
18.15	0.31	5409.41	2.246	0.32
18.32	0.32	5409.41	2.246	0.31

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.48	0.31	5409.41	2.246	0.31
18.65	0.31	5409.41	2.246	0.31
18.81	0.31	5409.41	2.246	0.31
18.98	0.31	5409.41	2.246	0.31
19.14	0.30	5409.41	2.246	0.31
19.31	0.30	5409.41	2.246	0.30
19.47	0.30	5409.41	2.246	0.30
19.64	0.30	5409.41	2.246	0.30
19.80	0.29	5409.41	2.246	0.30
19.97	0.30	5409.41	2.246	0.30
20.13	0.29	5409.41	2.246	0.30
20.30	0.29	5409.41	2.246	0.29
20.46	0.29	5409.41	2.246	0.29
20.62	0.29	5409.41	2.246	0.29
20.79	0.29	5409.41	2.245	0.29
20.95	0.29	5409.41	2.245	0.29
21.12	0.28	5409.41	2.245	0.29
21.28	0.28	5409.41	2.245	0.28
21.45	0.28	5409.41	2.245	0.28

AHYMO.OUT

21.61	0.28	5409.41	2.245	0.28
21.78	0.28	5409.41	2.245	0.28
21.94	0.28	5409.41	2.245	0.28
22.11	0.27	5409.41	2.245	0.28
22.27	0.28	5409.41	2.245	0.28
22.44	0.27	5409.41	2.245	0.27
22.60	0.27	5409.41	2.245	0.27
22.77	0.27	5409.41	2.245	0.27
22.93	0.27	5409.41	2.245	0.27
23.10	0.27	5409.41	2.245	0.27
23.26	0.27	5409.41	2.245	0.27
23.43	0.26	5409.41	2.245	0.27
23.59	0.26	5409.41	2.245	0.27
23.76	0.26	5409.41	2.245	0.26
23.92	0.26	5409.41	2.245	0.26
24.09	0.19	5409.41	2.245	0.25
24.25	0.04	5409.40	2.243	0.17
24.42	0.02	5409.40	2.242	0.10
24.58	0.01	5409.40	2.241	0.05
24.75	0.00	5409.40	2.240	0.03
24.91	0.00	5409.40	2.240	0.01
25.08	0.00	5409.40	2.240	0.01
25.24	0.00	5409.40	2.240	0.01
25.41	0.00	5409.40	2.240	0.01
25.58	0.00	5409.40	2.240	0.01
25.74	0.00	5409.40	2.240	0.01
25.91	0.00	5409.40	2.240	0.01
26.07	0.00	5409.40	2.240	0.01
26.24	0.00	5409.40	2.240	0.01
26.40	0.00	5409.40	2.240	0.01
26.57	0.00	5409.40	2.240	0.01
26.73	0.00	5409.40	2.240	0.01
26.90	0.00	5409.40	2.240	0.01
27.06	0.00	5409.40	2.240	0.01
27.23	0.00	5409.40	2.240	0.01
27.39	0.00	5409.40	2.240	0.01
27.56	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
27.72	0.00	5409.40	2.240	0.01
27.89	0.00	5409.40	2.240	0.01
28.05	0.00	5409.40	2.240	0.01
28.22	0.00	5409.40	2.240	0.01
28.38	0.00	5409.40	2.240	0.01
28.55	0.00	5409.40	2.240	0.01
28.71	0.00	5409.40	2.240	0.01
28.88	0.00	5409.40	2.240	0.01
29.04	0.00	5409.40	2.240	0.01
29.20	0.00	5409.40	2.240	0.01

AHYMO.OUT				
29.37	0.00	5409.40	2.240	0.01
29.53	0.00	5409.40	2.240	0.01
29.70	0.00	5409.40	2.240	0.01
29.86	0.00	5409.40	2.240	0.01
30.03	0.00	5409.40	2.240	0.01
30.19	0.00	5409.40	2.240	0.01
30.36	0.00	5409.40	2.240	0.01
30.52	0.00	5409.40	2.240	0.01
30.69	0.00	5409.40	2.240	0.01
30.85	0.00	5409.40	2.240	0.01
31.02	0.00	5409.40	2.240	0.01
31.18	0.00	5409.40	2.240	0.01
31.35	0.00	5409.40	2.240	0.01
31.51	0.00	5409.40	2.240	0.01
31.68	0.00	5409.40	2.240	0.01
31.84	0.00	5409.40	2.240	0.01
32.01	0.00	5409.40	2.240	0.01
32.17	0.00	5409.40	2.240	0.01
32.34	0.00	5409.40	2.240	0.01
32.51	0.00	5409.40	2.240	0.01
32.67	0.00	5409.40	2.240	0.01
32.83	0.00	5409.40	2.240	0.01
33.00	0.00	5409.40	2.240	0.01
33.17	0.00	5409.40	2.240	0.01
33.33	0.00	5409.40	2.240	0.01
33.49	0.00	5409.40	2.240	0.01
33.66	0.00	5409.40	2.240	0.01
33.83	0.00	5409.40	2.240	0.01
33.99	0.00	5409.40	2.240	0.01
34.15	0.00	5409.40	2.240	0.01
34.32	0.00	5409.40	2.240	0.01
34.49	0.00	5409.40	2.240	0.01
34.65	0.00	5409.40	2.240	0.01
34.81	0.00	5409.40	2.240	0.01
34.98	0.00	5409.40	2.240	0.01
35.15	0.00	5409.40	2.240	0.01
35.31	0.00	5409.40	2.240	0.01
35.47	0.00	5409.40	2.240	0.01
35.64	0.00	5409.40	2.240	0.01
35.81	0.00	5409.40	2.240	0.01
35.97	0.00	5409.40	2.240	0.01
36.13	0.00	5409.40	2.240	0.01
36.30	0.00	5409.40	2.240	0.01
36.47	0.00	5409.40	2.240	0.01
36.63	0.00	5409.40	2.240	0.01
36.79	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
36.96	0.00	5409.40	2.240	0.01

AHYMO.OUT

37.12	0.00	5409.40	2.240	0.01
37.29	0.00	5409.40	2.240	0.01
37.45	0.00	5409.40	2.240	0.01
37.62	0.00	5409.40	2.240	0.01
37.78	0.00	5409.40	2.240	0.01
37.95	0.00	5409.40	2.240	0.01
38.12	0.00	5409.40	2.240	0.01
38.28	0.00	5409.40	2.240	0.01
38.44	0.00	5409.40	2.240	0.01
38.61	0.00	5409.40	2.240	0.01
38.78	0.00	5409.40	2.240	0.01
38.94	0.00	5409.40	2.240	0.01
39.10	0.00	5409.40	2.240	0.01
39.27	0.00	5409.40	2.240	0.01
39.44	0.00	5409.40	2.240	0.01
39.60	0.00	5409.40	2.240	0.01
39.76	0.00	5409.40	2.240	0.01
39.93	0.00	5409.40	2.240	0.01
40.10	0.00	5409.40	2.240	0.01
40.26	0.00	5409.40	2.240	0.01
40.42	0.00	5409.40	2.240	0.01
40.59	0.00	5409.40	2.240	0.01
40.76	0.00	5409.40	2.240	0.01
40.92	0.00	5409.40	2.240	0.01
41.08	0.00	5409.40	2.240	0.01
41.25	0.00	5409.40	2.240	0.01
41.42	0.00	5409.40	2.240	0.01
41.58	0.00	5409.40	2.240	0.01
41.74	0.00	5409.40	2.240	0.01
41.91	0.00	5409.40	2.240	0.01
42.08	0.00	5409.40	2.240	0.01
42.24	0.00	5409.40	2.240	0.01
42.40	0.00	5409.40	2.240	0.01
42.57	0.00	5409.40	2.240	0.01
42.74	0.00	5409.40	2.240	0.01
42.90	0.00	5409.40	2.240	0.01
43.06	0.00	5409.40	2.240	0.01
43.23	0.00	5409.40	2.240	0.01
43.40	0.00	5409.40	2.240	0.01
43.56	0.00	5409.40	2.240	0.01
43.72	0.00	5409.40	2.240	0.01
43.89	0.00	5409.40	2.240	0.01
44.06	0.00	5409.40	2.240	0.01
44.22	0.00	5409.40	2.240	0.01
44.38	0.00	5409.40	2.240	0.01
44.55	0.00	5409.40	2.240	0.01
44.72	0.00	5409.40	2.240	0.01
44.88	0.00	5409.40	2.240	0.01
45.04	0.00	5409.40	2.240	0.01
45.21	0.00	5409.40	2.240	0.01
45.38	0.00	5409.40	2.240	0.01

			AHYMO.OUT	
45.54	0.00	5409.40	2.240	0.01
45.70	0.00	5409.40	2.240	0.01
45.87	0.00	5409.40	2.240	0.01
46.03	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
46.20	0.00	5409.40	2.240	0.01
46.36	0.00	5409.40	2.240	0.01
46.53	0.00	5409.40	2.240	0.01
46.69	0.00	5409.40	2.240	0.01
46.86	0.00	5409.40	2.240	0.01
47.03	0.00	5409.40	2.240	0.01
47.19	0.00	5409.40	2.240	0.01
47.35	0.00	5409.40	2.240	0.01
47.52	0.00	5409.40	2.240	0.01
47.69	0.00	5409.40	2.240	0.01
47.85	0.00	5409.40	2.240	0.01
48.01	0.00	5409.40	2.240	0.01
48.18	0.00	5409.40	2.240	0.01
48.35	0.00	5409.40	2.240	0.01
48.51	0.00	5409.40	2.240	0.01
48.67	0.00	5409.40	2.240	0.01
48.84	0.00	5409.40	2.240	0.01
49.01	0.00	5409.40	2.240	0.01
49.17	0.00	5409.40	2.240	0.01
49.33	0.00	5409.40	2.240	0.01
49.50	0.00	5409.40	2.240	0.01
49.67	0.00	5409.40	2.240	0.01
49.83	0.00	5409.40	2.240	0.01
49.99	0.00	5409.40	2.240	0.01
50.16	0.00	5409.40	2.240	0.01
50.33	0.00	5409.40	2.240	0.01
50.49	0.00	5409.40	2.240	0.01
50.65	0.00	5409.40	2.240	0.01
50.82	0.00	5409.40	2.240	0.01
50.99	0.00	5409.40	2.240	0.01
51.15	0.00	5409.40	2.240	0.01
51.31	0.00	5409.40	2.240	0.01
51.48	0.00	5409.40	2.240	0.01
51.65	0.00	5409.40	2.240	0.01
51.81	0.00	5409.40	2.240	0.01
51.97	0.00	5409.40	2.240	0.01
52.14	0.00	5409.40	2.240	0.01
52.31	0.00	5409.40	2.240	0.01
52.47	0.00	5409.40	2.240	0.01
52.63	0.00	5409.40	2.240	0.01
52.80	0.00	5409.40	2.240	0.01
52.97	0.00	5409.40	2.240	0.01
53.13	0.00	5409.40	2.240	0.01

AHYMO.OUT				
53.29	0.00	5409.40	2.240	0.01
53.46	0.00	5409.40	2.240	0.01
53.62	0.00	5409.40	2.240	0.01
53.79	0.00	5409.40	2.240	0.01
53.95	0.00	5409.40	2.240	0.01
54.12	0.00	5409.40	2.240	0.01
54.28	0.00	5409.40	2.240	0.01
54.45	0.00	5409.40	2.240	0.01
54.61	0.00	5409.40	2.240	0.01
54.78	0.00	5409.40	2.240	0.01
54.94	0.00	5409.40	2.240	0.01
55.11	0.00	5409.40	2.240	0.01
55.28	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
55.44	0.00	5409.40	2.240	0.01
55.60	0.00	5409.40	2.240	0.01
55.77	0.00	5409.40	2.240	0.01
55.94	0.00	5409.40	2.240	0.01
56.10	0.00	5409.40	2.240	0.01
56.26	0.00	5409.40	2.240	0.01
56.43	0.00	5409.40	2.240	0.01
56.60	0.00	5409.40	2.240	0.01
56.76	0.00	5409.40	2.240	0.01
56.92	0.00	5409.40	2.240	0.01
57.09	0.00	5409.40	2.240	0.01
57.26	0.00	5409.40	2.240	0.01
57.42	0.00	5409.40	2.240	0.01
57.58	0.00	5409.40	2.240	0.01
57.75	0.00	5409.40	2.240	0.01
57.92	0.00	5409.40	2.240	0.01
58.08	0.00	5409.40	2.240	0.01
58.24	0.00	5409.40	2.240	0.01
58.41	0.00	5409.40	2.240	0.01
58.58	0.00	5409.40	2.240	0.01
58.74	0.00	5409.40	2.240	0.01
58.90	0.00	5409.40	2.240	0.01
59.07	0.00	5409.40	2.240	0.01
59.24	0.00	5409.40	2.240	0.01
59.40	0.00	5409.40	2.240	0.01
59.56	0.00	5409.40	2.240	0.01
59.73	0.00	5409.40	2.240	0.01
59.90	0.00	5409.40	2.240	0.01
60.06	0.00	5409.40	2.240	0.01
60.22	0.00	5409.40	2.240	0.01
60.39	0.00	5409.40	2.240	0.01
60.56	0.00	5409.40	2.240	0.01
60.72	0.00	5409.40	2.240	0.01
60.88	0.00	5409.40	2.240	0.01

AHYMO.OUT				
61.05	0.00	5409.40	2.240	0.01
61.22	0.00	5409.40	2.240	0.01
61.38	0.00	5409.40	2.240	0.01
61.54	0.00	5409.40	2.240	0.01
61.71	0.00	5409.40	2.240	0.01
61.88	0.00	5409.40	2.240	0.01
62.04	0.00	5409.40	2.240	0.01
62.20	0.00	5409.40	2.240	0.01
62.37	0.00	5409.40	2.240	0.01
62.53	0.00	5409.40	2.240	0.01
62.70	0.00	5409.40	2.240	0.01
62.86	0.00	5409.40	2.240	0.01
63.03	0.00	5409.40	2.240	0.01
63.19	0.00	5409.40	2.240	0.01
63.36	0.00	5409.40	2.240	0.01
63.53	0.00	5409.40	2.240	0.01
63.69	0.00	5409.40	2.240	0.01
63.85	0.00	5409.40	2.240	0.01
64.02	0.00	5409.40	2.240	0.01
64.18	0.00	5409.40	2.240	0.01
64.35	0.00	5409.40	2.240	0.01
64.51	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
64.68	0.00	5409.40	2.240	0.01
64.85	0.00	5409.40	2.240	0.01
65.01	0.00	5409.40	2.240	0.01
65.18	0.00	5409.40	2.240	0.01
65.34	0.00	5409.40	2.240	0.01
65.50	0.00	5409.40	2.240	0.01
65.67	0.00	5409.40	2.240	0.01
65.83	0.00	5409.40	2.240	0.01
66.00	0.00	5409.40	2.240	0.01
66.17	0.00	5409.40	2.240	0.01
66.33	0.00	5409.40	2.240	0.01
66.50	0.00	5409.40	2.240	0.01
66.66	0.00	5409.40	2.240	0.01
66.82	0.00	5409.40	2.240	0.01
66.99	0.00	5409.40	2.240	0.01
67.15	0.00	5409.40	2.240	0.01
67.32	0.00	5409.40	2.240	0.01
67.49	0.00	5409.40	2.240	0.01
67.65	0.00	5409.40	2.240	0.01
67.82	0.00	5409.40	2.240	0.01
67.98	0.00	5409.40	2.240	0.01
68.14	0.00	5409.40	2.240	0.01
68.31	0.00	5409.40	2.240	0.01
68.47	0.00	5409.40	2.240	0.01
68.64	0.00	5409.40	2.240	0.01

AHYMO.OUT

68.81	0.00	5409.40	2.240	0.01
68.97	0.00	5409.40	2.240	0.01
69.14	0.00	5409.40	2.240	0.01
69.30	0.00	5409.40	2.240	0.01
69.46	0.00	5409.40	2.240	0.01
69.63	0.00	5409.40	2.240	0.01
69.79	0.00	5409.40	2.240	0.01
69.96	0.00	5409.40	2.240	0.01
70.12	0.00	5409.40	2.240	0.01
70.29	0.00	5409.40	2.240	0.01
70.46	0.00	5409.40	2.240	0.01
70.62	0.00	5409.40	2.240	0.01
70.78	0.00	5409.40	2.240	0.01
70.95	0.00	5409.40	2.240	0.01
71.11	0.00	5409.40	2.240	0.01
71.28	0.00	5409.40	2.240	0.01
71.44	0.00	5409.40	2.240	0.01
71.61	0.00	5409.40	2.240	0.01
71.78	0.00	5409.40	2.240	0.01
71.94	0.00	5409.40	2.240	0.01
72.11	0.00	5409.40	2.240	0.01
72.27	0.00	5409.40	2.240	0.01
72.43	0.00	5409.40	2.240	0.01
72.60	0.00	5409.40	2.240	0.01
72.76	0.00	5409.40	2.240	0.01
72.93	0.00	5409.40	2.240	0.01
73.10	0.00	5409.40	2.240	0.01
73.26	0.00	5409.40	2.240	0.01
73.43	0.00	5409.40	2.240	0.01
73.59	0.00	5409.40	2.240	0.01
73.75	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
73.92	0.00	5409.40	2.240	0.01
74.08	0.00	5409.40	2.240	0.01
74.25	0.00	5409.40	2.240	0.01
74.42	0.00	5409.40	2.240	0.01
74.58	0.00	5409.40	2.240	0.01
74.75	0.00	5409.40	2.240	0.01
74.91	0.00	5409.40	2.240	0.01
75.07	0.00	5409.40	2.240	0.01
75.24	0.00	5409.40	2.240	0.01
75.40	0.00	5409.40	2.240	0.01
75.57	0.00	5409.40	2.240	0.01
75.74	0.00	5409.40	2.240	0.01
75.90	0.00	5409.40	2.240	0.01
76.07	0.00	5409.40	2.240	0.01
76.23	0.00	5409.40	2.240	0.01
76.39	0.00	5409.40	2.240	0.01

AHYMO.OUT				
76.56	0.00	5409.40	2.240	0.01
76.72	0.00	5409.40	2.240	0.01
76.89	0.00	5409.40	2.240	0.01
77.06	0.00	5409.40	2.240	0.01
77.22	0.00	5409.40	2.240	0.01
77.39	0.00	5409.40	2.240	0.01
77.55	0.00	5409.40	2.240	0.01
77.71	0.00	5409.40	2.240	0.01
77.88	0.00	5409.40	2.240	0.01
78.04	0.00	5409.40	2.240	0.01
78.21	0.00	5409.40	2.240	0.01
78.38	0.00	5409.40	2.240	0.01
78.54	0.00	5409.40	2.240	0.01
78.71	0.00	5409.40	2.240	0.01
78.87	0.00	5409.40	2.240	0.01
79.03	0.00	5409.40	2.240	0.01
79.20	0.00	5409.40	2.240	0.01
79.36	0.00	5409.40	2.240	0.01
79.53	0.00	5409.40	2.240	0.01
79.69	0.00	5409.40	2.240	0.01
79.86	0.00	5409.40	2.240	0.01
80.03	0.00	5409.40	2.240	0.01
80.19	0.00	5409.40	2.240	0.01
80.36	0.00	5409.40	2.240	0.01
80.52	0.00	5409.40	2.240	0.01
80.68	0.00	5409.40	2.240	0.01
80.85	0.00	5409.40	2.240	0.01
81.01	0.00	5409.40	2.240	0.01
81.18	0.00	5409.40	2.240	0.01
81.35	0.00	5409.40	2.240	0.01
81.51	0.00	5409.40	2.240	0.01
81.68	0.00	5409.40	2.240	0.01
81.84	0.00	5409.40	2.240	0.01
82.00	0.00	5409.40	2.240	0.01
82.17	0.00	5409.40	2.240	0.01
82.33	0.00	5409.40	2.240	0.01
82.50	0.00	5409.40	2.240	0.01
82.67	0.00	5409.40	2.240	0.01
82.83	0.00	5409.40	2.240	0.01
83.00	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
83.16	0.00	5409.40	2.240	0.01
83.32	0.00	5409.40	2.240	0.01
83.49	0.00	5409.40	2.240	0.01
83.65	0.00	5409.40	2.240	0.01
83.82	0.00	5409.40	2.240	0.01
83.99	0.00	5409.40	2.240	0.01
84.15	0.00	5409.40	2.240	0.01

AHYMO.OUT				
84.32	0.00	5409.40	2.240	0.01
84.48	0.00	5409.40	2.240	0.01
84.64	0.00	5409.40	2.240	0.01
84.81	0.00	5409.40	2.240	0.01
84.97	0.00	5409.40	2.240	0.01
85.14	0.00	5409.40	2.240	0.01
85.31	0.00	5409.40	2.240	0.01
85.47	0.00	5409.40	2.240	0.01
85.64	0.00	5409.40	2.240	0.01
85.80	0.00	5409.40	2.240	0.01
85.96	0.00	5409.40	2.240	0.01
86.13	0.00	5409.40	2.240	0.01
86.29	0.00	5409.40	2.240	0.01
86.46	0.00	5409.40	2.240	0.01
86.62	0.00	5409.40	2.240	0.01
86.79	0.00	5409.40	2.240	0.01
86.96	0.00	5409.40	2.240	0.01
87.12	0.00	5409.40	2.240	0.01
87.28	0.00	5409.40	2.240	0.01
87.45	0.00	5409.40	2.240	0.01
87.61	0.00	5409.40	2.240	0.01
87.78	0.00	5409.40	2.240	0.01
87.94	0.00	5409.40	2.240	0.01
88.11	0.00	5409.40	2.240	0.01
88.28	0.00	5409.40	2.240	0.01
88.44	0.00	5409.40	2.240	0.01
88.60	0.00	5409.40	2.240	0.01
88.77	0.00	5409.40	2.240	0.01
88.93	0.00	5409.40	2.240	0.01
89.10	0.00	5409.40	2.240	0.01
89.26	0.00	5409.40	2.240	0.01
89.43	0.00	5409.40	2.240	0.01
89.60	0.00	5409.40	2.240	0.01
89.76	0.00	5409.40	2.240	0.01
89.93	0.00	5409.40	2.240	0.01
90.09	0.00	5409.40	2.240	0.01
90.25	0.00	5409.40	2.240	0.01
90.42	0.00	5409.40	2.240	0.01
90.58	0.00	5409.40	2.240	0.01
90.75	0.00	5409.40	2.240	0.01
90.92	0.00	5409.40	2.240	0.01
91.08	0.00	5409.40	2.240	0.01
91.25	0.00	5409.40	2.240	0.01
91.41	0.00	5409.40	2.240	0.01
91.57	0.00	5409.40	2.240	0.01
91.74	0.00	5409.40	2.240	0.01
91.90	0.00	5409.40	2.240	0.01
92.07	0.00	5409.40	2.240	0.01
92.24	0.00	5409.40	2.240	0.01

TIME	INFLOW	ELEV	VOLUME	OUTFLOW
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		AHYMO.OUT		
(HRS)	(CFS)	(FEET)	(AC-FT)	(CFS)
92.40	0.00	5409.40	2.240	0.01
92.57	0.00	5409.40	2.240	0.01
92.73	0.00	5409.40	2.240	0.01
92.89	0.00	5409.40	2.240	0.01
93.06	0.00	5409.40	2.240	0.01
93.22	0.00	5409.40	2.240	0.01
93.39	0.00	5409.40	2.240	0.01
93.56	0.00	5409.40	2.240	0.01
93.72	0.00	5409.40	2.240	0.01
93.89	0.00	5409.40	2.240	0.01
94.05	0.00	5409.40	2.240	0.01
94.21	0.00	5409.40	2.240	0.01
94.38	0.00	5409.40	2.240	0.01
94.54	0.00	5409.40	2.240	0.01
94.71	0.00	5409.40	2.240	0.01
94.88	0.00	5409.40	2.240	0.01
95.04	0.00	5409.40	2.240	0.01
95.21	0.00	5409.40	2.240	0.01
95.37	0.00	5409.40	2.240	0.01
95.53	0.00	5409.40	2.240	0.01
95.70	0.00	5409.40	2.240	0.01
95.86	0.00	5409.40	2.240	0.01
96.03	0.00	5409.40	2.240	0.01
96.19	0.00	5409.40	2.240	0.01
96.36	0.00	5409.40	2.240	0.01
96.53	0.00	5409.40	2.240	0.01
96.69	0.00	5409.40	2.240	0.01
96.85	0.00	5409.40	2.240	0.01
97.02	0.00	5409.40	2.240	0.01
97.18	0.00	5409.40	2.240	0.01
97.35	0.00	5409.40	2.240	0.01
97.51	0.00	5409.40	2.240	0.01
97.68	0.00	5409.40	2.240	0.01
97.85	0.00	5409.40	2.240	0.01
98.01	0.00	5409.40	2.240	0.01
98.18	0.00	5409.40	2.240	0.01
98.34	0.00	5409.40	2.240	0.01
98.50	0.00	5409.40	2.240	0.01
98.67	0.00	5409.40	2.240	0.01
98.83	0.00	5409.40	2.240	0.01
99.00	0.00	5409.40	2.240	0.01
99.17	0.00	5409.40	2.240	0.01
99.33	0.00	5409.40	2.240	0.01
99.50	0.00	5409.40	2.240	0.01
99.66	0.00	5409.40	2.240	0.01
99.82	0.00	5409.40	2.240	0.01
99.99	0.00	5409.40	2.240	0.01
100.15	0.00	5409.40	2.240	0.01
100.32	0.00	5409.40	2.240	0.01

AHYMO.OUT				
100.49	0.00	5409.40	2.240	0.01
100.65	0.00	5409.40	2.240	0.01
100.82	0.00	5409.40	2.240	0.01
100.98	0.00	5409.40	2.240	0.01
101.14	0.00	5409.40	2.240	0.01
101.31	0.00	5409.40	2.240	0.01
101.47	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
101.64	0.00	5409.40	2.240	0.01
101.81	0.00	5409.40	2.240	0.01
101.97	0.00	5409.40	2.240	0.01
102.14	0.00	5409.40	2.240	0.01
102.30	0.00	5409.40	2.240	0.01
102.46	0.00	5409.40	2.240	0.01
102.63	0.00	5409.40	2.240	0.01
102.79	0.00	5409.40	2.240	0.01
102.96	0.00	5409.40	2.240	0.01
103.12	0.00	5409.40	2.240	0.01
103.29	0.00	5409.40	2.240	0.01
103.46	0.00	5409.40	2.240	0.01
103.62	0.00	5409.40	2.240	0.01
103.78	0.00	5409.40	2.240	0.01
103.95	0.00	5409.40	2.240	0.01
104.11	0.00	5409.40	2.240	0.01
104.28	0.00	5409.40	2.240	0.01
104.44	0.00	5409.40	2.240	0.01
104.61	0.00	5409.40	2.240	0.01
104.78	0.00	5409.40	2.240	0.01
104.94	0.00	5409.40	2.240	0.01
105.10	0.00	5409.40	2.240	0.01
105.27	0.00	5409.40	2.240	0.01
105.43	0.00	5409.40	2.240	0.01
105.60	0.00	5409.40	2.240	0.01
105.76	0.00	5409.40	2.240	0.01
105.93	0.00	5409.40	2.240	0.01
106.10	0.00	5409.40	2.240	0.01
106.26	0.00	5409.40	2.240	0.01
106.43	0.00	5409.40	2.240	0.01
106.59	0.00	5409.40	2.240	0.01
106.75	0.00	5409.40	2.240	0.01
106.92	0.00	5409.40	2.240	0.01
107.08	0.00	5409.40	2.240	0.01
107.25	0.00	5409.40	2.240	0.01
107.42	0.00	5409.40	2.240	0.01
107.58	0.00	5409.40	2.240	0.01
107.75	0.00	5409.40	2.240	0.01
107.91	0.00	5409.40	2.240	0.01
108.07	0.00	5409.40	2.240	0.01

AHYMO.OUT

108.24	0.00	5409.40	2.240	0.01
108.40	0.00	5409.40	2.240	0.01
108.57	0.00	5409.40	2.240	0.01
108.74	0.00	5409.40	2.240	0.01
108.90	0.00	5409.40	2.240	0.01
109.07	0.00	5409.40	2.240	0.01
109.23	0.00	5409.40	2.240	0.01
109.39	0.00	5409.40	2.240	0.01
109.56	0.00	5409.40	2.240	0.01
109.72	0.00	5409.40	2.240	0.01
109.89	0.00	5409.40	2.240	0.01
110.06	0.00	5409.40	2.240	0.01
110.22	0.00	5409.40	2.240	0.01
110.39	0.00	5409.40	2.240	0.01
110.55	0.00	5409.40	2.240	0.01
110.71	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
110.88	0.00	5409.40	2.240	0.01
111.04	0.00	5409.40	2.240	0.01
111.21	0.00	5409.40	2.240	0.01
111.38	0.00	5409.40	2.240	0.01
111.54	0.00	5409.40	2.240	0.01
111.71	0.00	5409.40	2.240	0.01
111.87	0.00	5409.40	2.240	0.01
112.03	0.00	5409.40	2.240	0.01
112.20	0.00	5409.40	2.240	0.01
112.36	0.00	5409.40	2.240	0.01
112.53	0.00	5409.40	2.240	0.01
112.69	0.00	5409.40	2.240	0.01
112.86	0.00	5409.40	2.240	0.01
113.03	0.00	5409.40	2.240	0.01
113.19	0.00	5409.40	2.240	0.01
113.35	0.00	5409.40	2.240	0.01
113.52	0.00	5409.40	2.240	0.01
113.68	0.00	5409.40	2.240	0.01
113.85	0.00	5409.40	2.240	0.01
114.01	0.00	5409.40	2.240	0.01
114.18	0.00	5409.40	2.240	0.01
114.35	0.00	5409.40	2.240	0.01
114.51	0.00	5409.40	2.240	0.01
114.68	0.00	5409.40	2.240	0.01
114.84	0.00	5409.40	2.240	0.01
115.00	0.00	5409.40	2.240	0.01
115.17	0.00	5409.40	2.240	0.01
115.33	0.00	5409.40	2.240	0.01
115.50	0.00	5409.40	2.240	0.01
115.67	0.00	5409.40	2.240	0.01
115.83	0.00	5409.40	2.240	0.01

			AHYMO.OUT	
116.00	0.00	5409.40	2.240	0.01
116.16	0.00	5409.40	2.240	0.01
116.32	0.00	5409.40	2.240	0.01
116.49	0.00	5409.40	2.240	0.01
116.65	0.00	5409.40	2.240	0.01
116.82	0.00	5409.40	2.240	0.01
116.99	0.00	5409.40	2.240	0.01
117.15	0.00	5409.40	2.240	0.01
117.32	0.00	5409.40	2.240	0.01
117.48	0.00	5409.40	2.240	0.01
117.64	0.00	5409.40	2.240	0.01
117.81	0.00	5409.40	2.240	0.01
117.97	0.00	5409.40	2.240	0.01
118.14	0.00	5409.40	2.240	0.01
118.31	0.00	5409.40	2.240	0.01
118.47	0.00	5409.40	2.240	0.01
118.64	0.00	5409.40	2.240	0.01
118.80	0.00	5409.40	2.240	0.01
118.96	0.00	5409.40	2.240	0.01
119.13	0.00	5409.40	2.240	0.01
119.29	0.00	5409.40	2.240	0.01
119.46	0.00	5409.40	2.240	0.01
119.62	0.00	5409.40	2.240	0.01
119.79	0.00	5409.40	2.240	0.01
119.96	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
120.12	0.00	5409.40	2.240	0.01
120.28	0.00	5409.40	2.240	0.01
120.45	0.00	5409.40	2.240	0.01
120.61	0.00	5409.40	2.240	0.01
120.78	0.00	5409.40	2.240	0.01
120.94	0.00	5409.40	2.240	0.01
121.11	0.00	5409.40	2.240	0.01
121.28	0.00	5409.40	2.240	0.01
121.44	0.00	5409.40	2.240	0.01
121.60	0.00	5409.40	2.240	0.01
121.77	0.00	5409.40	2.240	0.01
121.93	0.00	5409.40	2.240	0.01
122.10	0.00	5409.40	2.240	0.01
122.26	0.00	5409.40	2.240	0.01
122.43	0.00	5409.40	2.240	0.01
122.60	0.00	5409.40	2.240	0.01
122.76	0.00	5409.40	2.240	0.01
122.93	0.00	5409.40	2.240	0.01
123.09	0.00	5409.40	2.240	0.01
123.25	0.00	5409.40	2.240	0.01
123.42	0.00	5409.40	2.240	0.01
123.58	0.00	5409.40	2.240	0.01

AHYMO.OUT				
123.75	0.00	5409.40	2.240	0.01
123.92	0.00	5409.40	2.240	0.01
124.08	0.00	5409.40	2.240	0.01
124.25	0.00	5409.40	2.240	0.01
124.41	0.00	5409.40	2.240	0.01
124.57	0.00	5409.40	2.240	0.01
124.74	0.00	5409.40	2.240	0.01
124.90	0.00	5409.40	2.240	0.01
125.07	0.00	5409.40	2.240	0.01
125.24	0.00	5409.40	2.240	0.01
125.40	0.00	5409.40	2.240	0.01
125.57	0.00	5409.40	2.240	0.01
125.73	0.00	5409.40	2.240	0.01
125.89	0.00	5409.40	2.240	0.01
126.06	0.00	5409.40	2.240	0.01
126.22	0.00	5409.40	2.240	0.01
126.39	0.00	5409.40	2.240	0.01
126.56	0.00	5409.40	2.240	0.01
126.72	0.00	5409.40	2.240	0.01
126.89	0.00	5409.40	2.240	0.01
127.05	0.00	5409.40	2.240	0.01
127.21	0.00	5409.40	2.240	0.01
127.38	0.00	5409.40	2.240	0.01
127.54	0.00	5409.40	2.240	0.01
127.71	0.00	5409.40	2.240	0.01
127.88	0.00	5409.40	2.240	0.01
128.04	0.00	5409.40	2.240	0.01
128.21	0.00	5409.40	2.240	0.01
128.37	0.00	5409.40	2.240	0.01
128.54	0.00	5409.40	2.240	0.01
128.70	0.00	5409.40	2.240	0.01
128.87	0.00	5409.40	2.240	0.01
129.03	0.00	5409.40	2.240	0.01
129.19	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
129.36	0.00	5409.40	2.240	0.01
129.52	0.00	5409.40	2.240	0.01
129.69	0.00	5409.40	2.240	0.01
129.85	0.00	5409.40	2.240	0.01
130.02	0.00	5409.40	2.240	0.01
130.18	0.00	5409.40	2.240	0.01
130.35	0.00	5409.40	2.240	0.01
130.51	0.00	5409.40	2.240	0.01
130.68	0.00	5409.40	2.240	0.01
130.85	0.00	5409.40	2.240	0.01
131.01	0.00	5409.40	2.240	0.01
131.18	0.00	5409.40	2.240	0.01
131.34	0.00	5409.40	2.240	0.01

AHYMO.OUT

131.51	0.00	5409.40	2.240	0.01
131.67	0.00	5409.40	2.240	0.01
131.84	0.00	5409.40	2.240	0.01

PEAK DISCHARGE = 10.527 CFS - PEAK OCCURS AT HOUR 2.11
 MAXIMUM WATER SURFACE ELEVATION = 5409.713
 MAXIMUM STORAGE = 2.4467 AC-FT INCREMENTAL TIME=
 0.033000HRS

*

PRINT HYD ID=50 CODE=10

HYDROGRAPH FROM AREA POND.A

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	26.400	0.0	52.800	0.0
79.200	0.0	105.600	0.0		
0.330	0.0	26.730	0.0	53.130	0.0
79.530	0.0	105.930	0.0		
0.660	0.0	27.060	0.0	53.460	0.0
79.860	0.0	106.260	0.0		
0.990	0.0	27.390	0.0	53.790	0.0
80.190	0.0	106.590	0.0		
1.320	0.0	27.720	0.0	54.120	0.0
80.520	0.0	106.920	0.0		
1.650	0.0	28.050	0.0	54.450	0.0
80.850	0.0	107.250	0.0		
1.980	7.1	28.380	0.0	54.780	0.0
81.180	0.0	107.580	0.0		
2.310	8.2	28.710	0.0	55.110	0.0
81.510	0.0	107.910	0.0		
2.640	3.9	29.040	0.0	55.440	0.0
81.840	0.0	108.240	0.0		
2.970	1.9	29.370	0.0	55.770	0.0
82.170	0.0	108.570	0.0		
3.300	1.0	29.700	0.0	56.100	0.0
82.500	0.0	108.900	0.0		
3.630	0.6	30.030	0.0	56.430	0.0
82.830	0.0	109.230	0.0		
3.960	0.5	30.360	0.0	56.760	0.0
83.160	0.0	109.560	0.0		
4.290	0.4	30.690	0.0	57.090	0.0
83.490	0.0	109.890	0.0		
4.620	0.4	31.020	0.0	57.420	0.0
83.820	0.0	110.220	0.0		
4.950	0.4	31.350	0.0	57.750	0.0

AHYMO.OUT					
84.150	0.0	110.550	0.0		
5.280	0.4	31.680	0.0	58.080	0.0
84.480	0.0	110.880	0.0		
5.610	0.4	32.010	0.0	58.410	0.0
84.810	0.0	111.210	0.0		
5.940	0.4	32.340	0.0	58.740	0.0
85.140	0.0	111.540	0.0		
6.270	0.5	32.670	0.0	59.070	0.0
85.470	0.0	111.870	0.0		
6.600	0.5	33.000	0.0	59.400	0.0
85.800	0.0	112.200	0.0		
6.930	0.5	33.330	0.0	59.730	0.0
86.130	0.0	112.530	0.0		
7.260	0.5	33.660	0.0	60.060	0.0
86.460	0.0	112.860	0.0		
7.590	0.5	33.990	0.0	60.390	0.0
86.790	0.0	113.190	0.0		
7.920	0.5	34.320	0.0	60.720	0.0
87.120	0.0	113.520	0.0		
8.250	0.5	34.650	0.0	61.050	0.0
87.450	0.0	113.850	0.0		
8.580	0.5	34.980	0.0	61.380	0.0
87.780	0.0	114.180	0.0		
8.910	0.5	35.310	0.0	61.710	0.0
88.110	0.0	114.510	0.0		
9.240	0.5	35.640	0.0	62.040	0.0
88.440	0.0	114.840	0.0		
9.570	0.5	35.970	0.0	62.370	0.0
88.770	0.0	115.170	0.0		
9.900	0.5	36.300	0.0	62.700	0.0
89.100	0.0	115.500	0.0		
10.230	0.5	36.630	0.0	63.030	0.0
89.430	0.0	115.830	0.0		
10.560	0.4	36.960	0.0	63.360	0.0
89.760	0.0	116.160	0.0		
10.890	0.4	37.290	0.0	63.690	0.0
90.090	0.0	116.490	0.0		
11.220	0.4	37.620	0.0	64.020	0.0
90.420	0.0	116.820	0.0		
11.550	0.4	37.950	0.0	64.350	0.0
90.750	0.0	117.150	0.0		
11.880	0.4	38.280	0.0	64.680	0.0
91.080	0.0	117.480	0.0		
12.210	0.4	38.610	0.0	65.010	0.0
91.410	0.0	117.810	0.0		
12.540	0.4	38.940	0.0	65.340	0.0
91.740	0.0	118.140	0.0		
12.870	0.4	39.270	0.0	65.670	0.0
92.070	0.0	118.470	0.0		
13.200	0.4	39.600	0.0	66.000	0.0
92.400	0.0	118.800	0.0		

AHYMO.OUT					
13.530	0.4	39.930	0.0	66.330	0.0
92.730	0.0	119.130	0.0		
13.860	0.4	40.260	0.0	66.660	0.0
93.060	0.0	119.460	0.0		
14.190	0.4	40.590	0.0	66.990	0.0
93.390	0.0	119.790	0.0		
14.520	0.4	40.920	0.0	67.320	0.0
93.720	0.0	120.120	0.0		
14.850	0.4	41.250	0.0	67.650	0.0
94.050	0.0	120.450	0.0		
15.180	0.4	41.580	0.0	67.980	0.0
94.380	0.0	120.780	0.0		
15.510	0.4	41.910	0.0	68.310	0.0
94.710	0.0	121.110	0.0		
15.840	0.3	42.240	0.0	68.640	0.0
95.040	0.0	121.440	0.0		
16.170	0.3	42.570	0.0	68.970	0.0
95.370	0.0	121.770	0.0		
16.500	0.3	42.900	0.0	69.300	0.0
95.700	0.0	122.100	0.0		
16.830	0.3	43.230	0.0	69.630	0.0
96.030	0.0	122.430	0.0		
17.160	0.3	43.560	0.0	69.960	0.0
96.360	0.0	122.760	0.0		
17.490	0.3	43.890	0.0	70.290	0.0
96.690	0.0	123.090	0.0		
17.820	0.3	44.220	0.0	70.620	0.0
97.020	0.0	123.421	0.0		
18.150	0.3	44.550	0.0	70.950	0.0
97.350	0.0	123.751	0.0		
18.480	0.3	44.880	0.0	71.280	0.0
97.680	0.0	124.081	0.0		
18.810	0.3	45.210	0.0	71.610	0.0
98.010	0.0	124.411	0.0		
19.140	0.3	45.540	0.0	71.940	0.0
98.340	0.0	124.741	0.0		
19.470	0.3	45.870	0.0	72.270	0.0
98.670	0.0	125.071	0.0		
19.800	0.3	46.200	0.0	72.600	0.0
99.000	0.0	125.401	0.0		
20.130	0.3	46.530	0.0	72.930	0.0
99.330	0.0	125.731	0.0		
20.460	0.3	46.860	0.0	73.260	0.0
99.660	0.0	126.061	0.0		
20.790	0.3	47.190	0.0	73.590	0.0
99.990	0.0	126.391	0.0		
21.120	0.3	47.520	0.0	73.920	0.0
100.320	0.0	126.721	0.0		
21.450	0.3	47.850	0.0	74.250	0.0
100.650	0.0	127.051	0.0		
21.780	0.3	48.180	0.0	74.580	0.0

AHYMO.OUT					
100.980	0.0	127.381	0.0		
22.110	0.3	48.510	0.0	74.910	0.0
101.310	0.0	127.711	0.0		
22.440	0.3	48.840	0.0	75.240	0.0
101.640	0.0	128.041	0.0		
22.770	0.3	49.170	0.0	75.570	0.0
101.970	0.0	128.371	0.0		
23.100	0.3	49.500	0.0	75.900	0.0
102.300	0.0	128.701	0.0		
23.430	0.3	49.830	0.0	76.230	0.0
102.630	0.0	129.031	0.0		
23.760	0.3	50.160	0.0	76.560	0.0
102.960	0.0	129.361	0.0		
24.090	0.3	50.490	0.0	76.890	0.0
103.290	0.0	129.691	0.0		
24.420	0.1	50.820	0.0	77.220	0.0
103.620	0.0	130.021	0.0		
24.750	0.0	51.150	0.0	77.550	0.0
103.950	0.0	130.351	0.0		
25.080	0.0	51.480	0.0	77.880	0.0
104.280	0.0	130.681	0.0		
25.410	0.0	51.810	0.0	78.210	0.0
104.610	0.0	131.011	0.0		
25.740	0.0	52.140	0.0	78.540	0.0
104.940	0.0	131.341	0.0		
26.070	0.0	52.470	0.0	78.870	0.0
105.270	0.0	131.671	0.0		

RUNOFF VOLUME = 0.59794 INCHES = 1.3257 ACRE-FEET
 PEAK DISCHARGE RATE = 10.53 CFS AT 2.112 HOURS BASIN AREA =
 0.0416 SQ. MI.

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 15:45:11

		FROM	TO			PEAK	RUNOFF			CFS	PAGE = 1	
COMMAND	HYDROGRAPH IDENTIFICATION	ID NO.	ID NO.	AREA (SQ MI)	DISCHARGE (CFS)	VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	PER ACRE	NOTATION		
RAINFALL TYPE=13										RAIN24= 2.660		
*S EXISTING CONDITIONS												
*S COMPUTE HYD EXISTING BASIN A												
COMPUTE NM HYD	101.00	-	1	0.00804	6.88	0.188	0.43934	1.518	1.336	PER	IMP=	0.00
*S COMPUTE HYD EXISTING BASIN B												
COMPUTE NM HYD	102.00	-	2	0.01428	12.21	0.335	0.43934	1.518	1.336	PER	IMP=	0.00
*S COMPUTE HYD EXISTING BASIN C												
COMPUTE NM HYD	103.00	-	3	0.03350	28.63	0.785	0.43934	1.518	1.335	PER	IMP=	0.00
ADD HYD	101T0102	1& 2	4	0.02232	19.08	0.523	0.43933	1.518	1.336			
ADD HYD	COMBINED101-	3& 4	5	0.05582	47.71	1.308	0.43934	1.518	1.336			
*S PROPOSED CONDITIONS												
*S COMPUTE HYD PROPOSED BASIN A												
COMPUTE NM HYD	104.00	-	6	0.00923	23.58	1.036	2.10390	1.485	3.992	PER	IMP=	80.00
*S COMPUTE HYD PROPOSED BASIN B												
COMPUTE NM HYD	105.00	-	7	0.00446	11.40	0.500	2.10390	1.485	3.995	PER	IMP=	80.00
*S COMPUTE HYD PROPOSED BASIN C												
COMPUTE NM HYD	106.00	-	8	0.00609	15.56	0.683	2.10390	1.485	3.993	PER	IMP=	80.00
ADD HYD	BTOA	6& 7	10	0.01369	34.98	1.536	2.10386	1.485	3.993			
ADD HYD	B-CTOA	8&10	11	0.01978	50.55	2.219	2.10386	1.485	3.993			
*S COMPUTE HYD PROPOSED BASIN D												
COMPUTE NM HYD	107.00	-	12	0.01503	15.74	0.511	0.63801	1.518	1.637	PER	IMP=	10.00
*S COMPUTE HYD PROPOSED BASIN E												
COMPUTE NM HYD	108.00	-	13	0.00150	3.56	0.149	1.86230	1.485	3.712	PER	IMP=	65.00
*S COMPUTE HYD PROPOSED BASIN F												
COMPUTE NM HYD	109.00	-	14	0.00054	0.94	0.028	0.97645	1.518	2.721	PER	IMP=	10.00
ADD HYD	DTOF	12&14	15	0.01557	16.68	0.539	0.64875	1.518	1.674			
ADD HYD	ETOF-D	13&15	16	0.01707	20.24	0.688	0.75538	1.518	1.853			
*S COMPUTE HYD PROPOSED BASIN G												
COMPUTE NM HYD	110.00	-	17	0.00472	12.66	0.570	2.26496	1.485	4.191	PER	IMP=	90.00
*S COMPUTE HYD PROPOSED BASIN H												
COMPUTE NM HYD	111.00	-	18	0.00107	2.88	0.129	2.26496	1.485	4.210	PER	IMP=	90.00
*S COMPUTE HYD PROPOSED BASIN I												
COMPUTE NM HYD	112.00	-	19	0.00074	2.00	0.089	2.26496	1.485	4.220	PER	IMP=	90.00
ADD HYD	HTOI	18&19	20	0.00181	4.88	0.219	2.26462	1.485	4.214			
ADD HYD	A-CTOG	11&17	21	0.02450	63.21	2.790	2.13488	1.485	4.031			
ADD HYD	D-FTOA-DTOG	16&21	22	0.04157	83.07	3.477	1.56841	1.518	3.122			
*S FUTURE CONDITIONS												
*S COMPUTE HYD FUTURE BASIN D-1												
COMPUTE NM HYD	113.00	-	23	0.00781	19.96	0.876	2.10390	1.485	3.993	PER	IMP=	80.00
*S COMPUTE HYD FUTURE BASIN D-2												
COMPUTE NM HYD	114.00	-	24	0.00781	19.96	0.876	2.10390	1.485	3.993	PER	IMP=	80.00
*S COMPUTE HYD FUTURE BASIN D-3												
COMPUTE NM HYD	115.00	-	25	0.00140	3.59	0.157	2.10390	1.485	4.007	PER	IMP=	80.00
*S COMPUTE HYD FUTURE BASIN G-2												

AHYMO.SUM										
COMPUTE NM HYD	116.00	-	26	0.00235	6.31	0.284	2.26496	1.485	4.196	PER IMP= 90.00
ADD HYD	FULLROADWIDT	17&26	27	0.00707	18.97	0.854	2.26488	1.485	4.192	
ROUTE RESERVOIR	POND.A	22	50	0.04157	10.53	1.326	0.59794	2.112	0.396	AC-FT= 2.447
FINISH										

AHYMO.OUT

AHYMO PROGRAM (AHYMO-S4) - Version: S4.02a - Rel:
02a

RUN DATE (MON/DAY/YR) = 07/20/2020
START TIME (HR:MIN:SEC) = 10:12:15 USER NO.=
AHYMO-S4TempUser05901704
INPUT FILE = Tools\ahymo-s4-r2\ahymo-s4-r2\DISK1\program
files\AHYMO-S4\04022 Input 10yr.HMI

* 10 YEAR RAINFALL TABLE

RAINFALL TYPE=13 RAIN QUARTER=0 IN

RAIN ONE=1.06 IN RAIN SIX=1.40 IN

RAIN DAY=1.68 IN DT=0.033 HR

COMPUTED 24-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS
2 - PEAK AT 1.40 HR.

DT =	0.033000 HOURS	END TIME =	23.990999 HOURS
0.0000	0.0029	0.0059	0.0089
0.0089	0.0120	0.0152	0.0184
0.0217	0.0250	0.0285	0.0320
0.0320	0.0356	0.0393	0.0431
0.0470	0.0510	0.0551	0.0593
0.0593	0.0636	0.0681	0.0728
0.0776	0.0825	0.0877	0.0930
0.0930	0.0985	0.1043	0.1104
0.1167	0.1233	0.1303	0.1345
0.1345	0.1376	0.1408	0.1453
0.1588	0.1800	0.2111	0.2541
0.2541	0.3112	0.3847	0.4767
0.5897	0.7260	0.7870	0.8297
0.8297	0.8671	0.9009	0.9318
0.9605	0.9872	1.0123	1.0358
1.0358	1.0580	1.0790	1.0988
1.1176	1.1354	1.1524	1.1684
1.1684	1.1837	1.1941	1.1978
1.2014	1.2048	1.2082	1.2114
1.2114	1.2146	1.2176	1.2206
1.2235	1.2263	1.2290	1.2317
1.2317	1.2344	1.2369	1.2395
1.2419	1.2444	1.2468	1.2491
1.2491	1.2514	1.2537	1.2559
1.2581	1.2603	1.2624	1.2645
1.2645	1.2666	1.2687	1.2707
1.2727	1.2747	1.2766	1.2785
1.2785	1.2804	1.2823	1.2842
1.2860	1.2878	1.2896	1.2914
1.2914	1.2932	1.2949	1.2967
1.2984	1.3001	1.3017	1.3034
1.3034	1.3051	1.3067	1.3083
1.3099	1.3115	1.3131	1.3147
1.3147	1.3162	1.3178	1.3193
1.3208	1.3223	1.3238	1.3253
1.3253	1.3268	1.3283	1.3297
1.3311	1.3326	1.3340	1.3354
1.3354	1.3368	1.3382	1.3396
1.3410	1.3424	1.3437	1.3451
1.3451	1.3464	1.3478	1.3491
1.3504	1.3517	1.3530	1.3543
1.3543	1.3556	1.3569	1.3582
1.3595	1.3607	1.3620	1.3632
1.3632	1.3645	1.3657	1.3669
1.3682	1.3694	1.3706	1.3718
1.3718	1.3730	1.3742	1.3754
1.3766	1.3777	1.3789	1.3801
1.3801	1.3812	1.3824	1.3835
1.3847	1.3858	1.3870	1.3881
1.3881	1.3892	1.3903	1.3914
1.3926	1.3937	1.3948	1.3959
1.3959	1.3969	1.3980	1.3991
1.4001	1.4009	1.4017	1.4025
1.4025	1.4033	1.4041	1.4049
1.4056	1.4064	1.4072	1.4080
1.4080	1.4087	1.4095	1.4103
1.4110	1.4118	1.4126	1.4133
1.4133	1.4141	1.4148	1.4156
1.4163	1.4171	1.4178	1.4186
1.4186	1.4193	1.4201	1.4208

AHYMO.OUT

1.4216	1.4223	1.4230	1.4238	1.4245	1.4253	1.4260
1.4267	1.4274	1.4282	1.4289	1.4296	1.4303	1.4311
1.4318	1.4325	1.4332	1.4339	1.4346	1.4354	1.4361
1.4368	1.4375	1.4382	1.4389	1.4396	1.4403	1.4410
1.4417	1.4424	1.4431	1.4438	1.4445	1.4452	1.4459
1.4466	1.4472	1.4479	1.4486	1.4493	1.4500	1.4507
1.4513	1.4520	1.4527	1.4534	1.4540	1.4547	1.4554
1.4561	1.4567	1.4574	1.4581	1.4587	1.4594	1.4600
1.4607	1.4614	1.4620	1.4627	1.4633	1.4640	1.4646
1.4653	1.4659	1.4666	1.4672	1.4679	1.4685	1.4692
1.4698	1.4705	1.4711	1.4717	1.4724	1.4730	1.4737
1.4743	1.4749	1.4756	1.4762	1.4768	1.4774	1.4781
1.4787	1.4793	1.4799	1.4806	1.4812	1.4818	1.4824
1.4831	1.4837	1.4843	1.4849	1.4855	1.4861	1.4867
1.4874	1.4880	1.4886	1.4892	1.4898	1.4904	1.4910
1.4916	1.4922	1.4928	1.4934	1.4940	1.4946	1.4952
1.4958	1.4964	1.4970	1.4976	1.4982	1.4988	1.4994
1.4999	1.5005	1.5011	1.5017	1.5023	1.5029	1.5035
1.5040	1.5046	1.5052	1.5058	1.5064	1.5069	1.5075
1.5081	1.5087	1.5092	1.5098	1.5104	1.5109	1.5115
1.5121	1.5127	1.5132	1.5138	1.5144	1.5149	1.5155
1.5160	1.5166	1.5172	1.5177	1.5183	1.5188	1.5194
1.5200	1.5205	1.5211	1.5216	1.5222	1.5227	1.5233
1.5238	1.5244	1.5249	1.5255	1.5260	1.5266	1.5271
1.5276	1.5282	1.5287	1.5293	1.5298	1.5304	1.5309
1.5314	1.5320	1.5325	1.5330	1.5336	1.5341	1.5346
1.5352	1.5357	1.5362	1.5368	1.5373	1.5378	1.5384
1.5389	1.5394	1.5399	1.5405	1.5410	1.5415	1.5420
1.5425	1.5431	1.5436	1.5441	1.5446	1.5451	1.5457
1.5462	1.5467	1.5472	1.5477	1.5482	1.5487	1.5493
1.5498	1.5503	1.5508	1.5513	1.5518	1.5523	1.5528
1.5533	1.5538	1.5543	1.5548	1.5553	1.5558	1.5563
1.5568	1.5573	1.5578	1.5583	1.5588	1.5593	1.5598
1.5603	1.5608	1.5613	1.5618	1.5623	1.5628	1.5633
1.5638	1.5643	1.5648	1.5653	1.5657	1.5662	1.5667
1.5672	1.5677	1.5682	1.5687	1.5691	1.5696	1.5701
1.5706	1.5711	1.5715	1.5720	1.5725	1.5730	1.5735
1.5739	1.5744	1.5749	1.5754	1.5758	1.5763	1.5768
1.5773	1.5777	1.5782	1.5787	1.5791	1.5796	1.5801
1.5806	1.5810	1.5815	1.5820	1.5824	1.5829	1.5834
1.5838	1.5843	1.5847	1.5852	1.5857	1.5861	1.5866
1.5871	1.5875	1.5880	1.5884	1.5889	1.5893	1.5898
1.5903	1.5907	1.5912	1.5916	1.5921	1.5925	1.5930
1.5934	1.5939	1.5943	1.5948	1.5952	1.5957	1.5961
1.5966	1.5970	1.5975	1.5979	1.5984	1.5988	1.5993
1.5997	1.6001	1.6006	1.6010	1.6015	1.6019	1.6024
1.6028	1.6032	1.6037	1.6041	1.6046	1.6050	1.6054
1.6059	1.6063	1.6067	1.6072	1.6076	1.6080	1.6085
1.6089	1.6093	1.6098	1.6102	1.6106	1.6111	1.6115
1.6119	1.6124	1.6128	1.6132	1.6136	1.6141	1.6145
1.6149	1.6153	1.6158	1.6162	1.6166	1.6170	1.6175

AHYMO.OUT						
1.6179	1.6183	1.6187	1.6192	1.6196	1.6200	1.6204
1.6208	1.6212	1.6217	1.6221	1.6225	1.6229	1.6233
1.6238	1.6242	1.6246	1.6250	1.6254	1.6258	1.6262
1.6266	1.6271	1.6275	1.6279	1.6283	1.6287	1.6291
1.6295	1.6299	1.6303	1.6307	1.6312	1.6316	1.6320
1.6324	1.6328	1.6332	1.6336	1.6340	1.6344	1.6348
1.6352	1.6356	1.6360	1.6364	1.6368	1.6372	1.6376
1.6380	1.6384	1.6388	1.6392	1.6396	1.6400	1.6404
1.6408	1.6412	1.6416	1.6420	1.6424	1.6428	1.6432
1.6436	1.6440	1.6444	1.6447	1.6451	1.6455	1.6459
1.6463	1.6467	1.6471	1.6475	1.6479	1.6483	1.6486
1.6490	1.6494	1.6498	1.6502	1.6506	1.6510	1.6514
1.6517	1.6521	1.6525	1.6529	1.6533	1.6537	1.6540
1.6544	1.6548	1.6552	1.6556	1.6560	1.6563	1.6567
1.6571	1.6575	1.6578	1.6582	1.6586	1.6590	1.6594
1.6597	1.6601	1.6605	1.6609	1.6612	1.6616	1.6620
1.6624	1.6627	1.6631	1.6635	1.6639	1.6642	1.6646
1.6650	1.6653	1.6657	1.6661	1.6665	1.6668	1.6672
1.6676	1.6679	1.6683	1.6687	1.6690	1.6694	1.6698
1.6701	1.6705	1.6709	1.6712	1.6716	1.6720	1.6723
1.6727	1.6731	1.6734	1.6738	1.6741	1.6745	1.6749
1.6752	1.6756	1.6760	1.6763	1.6767	1.6770	1.6774
1.6778	1.6781	1.6785	1.6788	1.6792	1.6795	1.6799

*S EXISTING CONDITIONS

*S COMPUTE HYD EXISTING BASIN A

COMPUTE NM HYD ID=1 HYDNO=101 DA=0.00804SQ MI

PER A=100 PER B=0 PER C=0 PER D=0

TP=-0.13 RAIN=-1

K = 0.175500HR TP = 0.130000HR K/TP RATIO = 1.350000
 SHAPE CONSTANT, N = 2.667535
 UNIT PEAK = 15.678 CFS UNIT VOLUME = 0.9981 B =
 253.50 P60 = 1.0600
 AREA = 0.008040 SQ MI IA = 0.65000 INCHES INF =
 1.67000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=1 CODE=10

AHYMO.OUT

PARTIAL HYDROGRAPH 101.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	0.990	0.0	1.980	0.1
2.970	0.0	3.960	0.0		
0.330	0.0	1.320	0.0	2.310	0.0
3.300	0.0				
0.660	0.0	1.650	0.5	2.640	0.0
3.630	0.0				

RUNOFF VOLUME = 0.05116 INCHES = 0.0219 ACRE-Feet
 PEAK DISCHARGE RATE = 0.80 CFS AT 1.518 HOURS BASIN AREA =
 0.0080 SQ. MI.

*S COMPUTE HYD EXISTING BASIN B

COMPUTE NM HYD ID=2 HYDNO=102 DA=0.01428SQ MI

PER A=100 PER B=0 PER C=0 PER D=0

TP=-0.13 RAIN=-1

K = 0.175500HR TP = 0.130000HR K/TP RATIO = 1.350000
 SHAPE CONSTANT, N = 2.667535
 UNIT PEAK = 27.846 CFS UNIT VOLUME = 0.9986 B =
 253.50 P60 = 1.0600
 AREA = 0.014280 SQ MI IA = 0.65000 INCHES INF =
 1.67000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=2 CODE=10

PARTIAL HYDROGRAPH 102.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	0.990	0.0	1.980	0.1
2.970	0.0	3.960	0.0		
0.330	0.0	1.320	0.0	2.310	0.1

AHYMO.OUT

3.300	0.0	4.290	0.0		
0.660	0.0	1.650	0.9	2.640	0.0
3.630	0.0				

RUNOFF VOLUME = 0.05116 INCHES = 0.0390 ACRE-FEET
 PEAK DISCHARGE RATE = 1.42 CFS AT 1.518 HOURS BASIN AREA =
 0.0143 SQ. MI.

*S COMPUTE HYD EXISTING BASIN C

COMPUTE NM HYD ID=3 HYDNO=103 DA=0.03350SQ MI

PER A=100 PER B=0 PER C=0 PER D=0

TP=-0.13 RAIN=-1

K = 0.175500HR TP = 0.130000HR K/TP RATIO = 1.350000
 SHAPE CONSTANT, N = 2.667535
 UNIT PEAK = 65.325 CFS UNIT VOLUME = 0.9989 B =
 253.50 P60 = 1.0600
 AREA = 0.033500 SQ MI IA = 0.65000 INCHES INF =
 1.67000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=3 CODE=10

PARTIAL HYDROGRAPH 103.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	1.320	0.0	2.640	0.1
3.960	0.0				
0.330	0.0	1.650	2.0	2.970	0.0
4.290	0.0				
0.660	0.0	1.980	0.3	3.300	0.0
4.620	0.0				
0.990	0.0	2.310	0.2	3.630	0.0
4.950	0.0				

RUNOFF VOLUME = 0.05116 INCHES = 0.0914 ACRE-FEET
 PEAK DISCHARGE RATE = 3.32 CFS AT 1.518 HOURS BASIN AREA =
 0.0335 SQ. MI.

AHYMO.OUT

ADD HYD

ID=4 HYD=101T0102 ID I=1 II=2

PRINT HYD

ID=4 CODE=10

HYDROGRAPH FROM AREA 101T0102

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	0.990	0.0	1.980	0.2
2.970	0.0	3.960	0.0		
0.330	0.0	1.320	0.0	2.310	0.1
3.300	0.0	4.290	0.0		
0.660	0.0	1.650	1.4	2.640	0.1
3.630	0.0				

RUNOFF VOLUME = 0.05112 INCHES = 0.0609 ACRE-FEET
 PEAK DISCHARGE RATE = 2.22 CFS AT 1.518 HOURS BASIN AREA =
 0.0223 SQ. MI.

ADD HYD

ID=5 HYD=COMBINED101-102T0103 ID I=3 II=4

PRINT HYD

ID=5 CODE=10

HYDROGRAPH FROM AREA

COMBINED101-102T0103

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	1.320	0.0	2.640	0.2
3.960	0.0				
0.330	0.0	1.650	3.4	2.970	0.1
4.290	0.0				
0.660	0.0	1.980	0.5	3.300	0.0
4.620	0.0				
0.990	0.0	2.310	0.3	3.630	0.0

AHYMO.OUT

4.950 0.0

RUNOFF VOLUME = 0.05114 INCHES = 0.1522 ACRE-FEET
 PEAK DISCHARGE RATE = 5.54 CFS AT 1.518 HOURS BASIN AREA =
 0.0558 SQ. MI.

*S PROPOSED CONDITIONS

*S COMPUTE HYD PROPOSED BASIN A

COMPUTE NM HYD ID=6 HYDNO=104 DA=0.00923SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 29.892 CFS UNIT VOLUME = 0.9994 B =
 526.28 P60 = 1.0600
 AREA = 0.007384 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.124420HR TP = 0.130000HR K/TP RATIO = 0.957076
 SHAPE CONSTANT, N = 3.691990
 UNIT PEAK = 4.7441 CFS UNIT VOLUME = 0.9973 B =
 334.09 P60 = 1.0600
 AREA = 0.001846 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=6 CODE=10

PARTIAL HYDROGRAPH 104.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		

AHYMO.OUT					
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.1	9.900	0.1
14.850	0.1	19.800	0.1		
0.330	0.0	5.280	0.1	10.230	0.1
15.180	0.1	20.130	0.1		
0.660	0.0	5.610	0.1	10.560	0.1
15.510	0.1	20.460	0.1		
0.990	0.4	5.940	0.1	10.890	0.1
15.840	0.1	20.790	0.1		
1.320	3.3	6.270	0.1	11.220	0.1
16.170	0.1	21.120	0.1		
1.650	6.6	6.600	0.1	11.550	0.1
16.500	0.1	21.450	0.1		
1.980	3.0	6.930	0.1	11.880	0.1
16.830	0.1	21.780	0.1		
2.310	0.6	7.260	0.1	12.210	0.1
17.160	0.1	22.110	0.1		
2.640	0.3	7.590	0.1	12.540	0.1
17.490	0.1	22.440	0.1		
2.970	0.1	7.920	0.1	12.870	0.1
17.820	0.1	22.770	0.1		
3.300	0.1	8.250	0.1	13.200	0.1
18.150	0.1	23.100	0.1		
3.630	0.1	8.580	0.1	13.530	0.1
18.480	0.1	23.430	0.1		
3.960	0.1	8.910	0.1	13.860	0.1
18.810	0.1	23.760	0.1		
4.290	0.1	9.240	0.1	14.190	0.1
19.140	0.1	24.090	0.0		
4.620	0.1	9.570	0.1	14.520	0.1
19.470	0.1	24.420	0.0		

RUNOFF VOLUME = 1.19784 INCHES = 0.5897 ACRE-Feet
 PEAK DISCHARGE RATE = 12.75 CFS AT 1.485 HOURS BASIN AREA =
 0.0092 SQ. MI.

*S COMPUTE HYD PROPOSED BASIN B

COMPUTE NM HYD ID=7 HYDNO=105 DA=0.00446SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000

AHYMO.OUT

SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 14.444 CFS UNIT VOLUME = 0.9991 B =
 526.28 P60 = 1.0600
 AREA = 0.003568 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.124420HR TP = 0.130000HR K/TP RATIO = 0.957076
 SHAPE CONSTANT, N = 3.691990
 UNIT PEAK = 2.2924 CFS UNIT VOLUME = 0.9943 B =
 334.09 P60 = 1.0600
 AREA = 0.000892 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=7 CODE=10

PARTIAL HYDROGRAPH 105.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.1	9.900	0.0
14.850	0.0	19.800	0.0	10.230	0.0
0.330	0.0	5.280	0.1	10.560	0.0
15.180	0.0	20.130	0.0	10.890	0.0
0.660	0.0	5.610	0.1	11.220	0.0
15.510	0.0	20.460	0.0	11.550	0.0
0.990	0.2	5.940	0.1	11.880	0.0
15.840	0.0	20.790	0.0	12.210	0.0
1.320	1.6	6.270	0.1	12.540	0.0
16.170	0.0	21.120	0.0	12.870	0.0
1.650	3.2	6.600	0.1	13.200	0.0
16.500	0.0	21.450	0.0	13.530	0.0
1.980	1.4	6.930	0.1		
16.830	0.0	21.780	0.0		
2.310	0.3	7.260	0.1		
17.160	0.0	22.110	0.0		
2.640	0.1	7.590	0.0		
17.490	0.0	22.440	0.0		
2.970	0.1	7.920	0.0		
17.820	0.0	22.770	0.0		
3.300	0.0	8.250	0.0		
18.150	0.0	23.100	0.0		
3.630	0.0	8.580	0.0		
18.480	0.0	23.430	0.0		

AHYMO.OUT					
3.960	0.0	8.910	0.0	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0	14.520	0.0
19.470	0.0	24.420	0.0		

RUNOFF VOLUME = 1.19784 INCHES = 0.2849 ACRE-FEET
 PEAK DISCHARGE RATE = 6.16 CFS AT 1.485 HOURS BASIN AREA =
 0.0045 SQ. MI.

*S COMPUTE HYD PROPOSED BASIN C

COMPUTE NM HYD ID=8 HYDNO=106 DA=0.00609SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 19.723 CFS UNIT VOLUME = 0.9993 B =
 526.28 P60 = 1.0600
 AREA = 0.004872 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.124420HR TP = 0.130000HR K/TP RATIO = 0.957076
 SHAPE CONSTANT, N = 3.691990
 UNIT PEAK = 3.1302 CFS UNIT VOLUME = 0.9961 B =
 334.09 P60 = 1.0600
 AREA = 0.001218 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=8 CODE=10

PARTIAL HYDROGRAPH 106.00

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

AHYMO.OUT					
HRS	CFS	HRS	CFS		
0.000	0.0	4.950	0.1	9.900	0.1
14.850	0.0	19.800	0.0		
0.330	0.0	5.280	0.1	10.230	0.1
15.180	0.0	20.130	0.0		
0.660	0.0	5.610	0.1	10.560	0.1
15.510	0.0	20.460	0.0		
0.990	0.3	5.940	0.1	10.890	0.1
15.840	0.0	20.790	0.0		
1.320	2.2	6.270	0.1	11.220	0.1
16.170	0.0	21.120	0.0		
1.650	4.4	6.600	0.1	11.550	0.1
16.500	0.0	21.450	0.0		
1.980	2.0	6.930	0.1	11.880	0.1
16.830	0.0	21.780	0.0		
2.310	0.4	7.260	0.1	12.210	0.1
17.160	0.0	22.110	0.0		
2.640	0.2	7.590	0.1	12.540	0.1
17.490	0.0	22.440	0.0		
2.970	0.1	7.920	0.1	12.870	0.1
17.820	0.0	22.770	0.0		
3.300	0.1	8.250	0.1	13.200	0.1
18.150	0.0	23.100	0.0		
3.630	0.1	8.580	0.1	13.530	0.1
18.480	0.0	23.430	0.0		
3.960	0.1	8.910	0.1	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.1	9.240	0.1	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.1	9.570	0.1	14.520	0.0
19.470	0.0	24.420	0.0		

RUNOFF VOLUME = 1.19784 INCHES = 0.3891 ACRE-FEET
 PEAK DISCHARGE RATE = 8.41 CFS AT 1.485 HOURS BASIN AREA =
 0.0061 SQ. MI.

ADD HYD ID=10 HYD=BTOA ID I=6 II=7

PRINT HYD ID=10 CODE=10

HYDROGRAPH FROM AREA BTOA

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

AHYMO.OUT					
HRS	CFS	HRS	CFS		
0.000	0.0	4.950	0.2	9.900	0.1
14.850	0.1	19.800	0.1		
0.330	0.0	5.280	0.2	10.230	0.1
15.180	0.1	20.130	0.1		
0.660	0.0	5.610	0.2	10.560	0.1
15.510	0.1	20.460	0.1		
0.990	0.6	5.940	0.2	10.890	0.1
15.840	0.1	20.790	0.1		
1.320	4.9	6.270	0.2	11.220	0.1
16.170	0.1	21.120	0.1		
1.650	9.8	6.600	0.2	11.550	0.1
16.500	0.1	21.450	0.1		
1.980	4.4	6.930	0.2	11.880	0.1
16.830	0.1	21.780	0.1		
2.310	1.0	7.260	0.2	12.210	0.1
17.160	0.1	22.110	0.1		
2.640	0.4	7.590	0.2	12.540	0.1
17.490	0.1	22.440	0.1		
2.970	0.2	7.920	0.2	12.870	0.1
17.820	0.1	22.770	0.1		
3.300	0.1	8.250	0.1	13.200	0.1
18.150	0.1	23.100	0.1		
3.630	0.1	8.580	0.1	13.530	0.1
18.480	0.1	23.430	0.1		
3.960	0.1	8.910	0.1	13.860	0.1
18.810	0.1	23.760	0.1		
4.290	0.1	9.240	0.1	14.190	0.1
19.140	0.1	24.090	0.1		
4.620	0.1	9.570	0.1	14.520	0.1
19.470	0.1	24.420	0.0		

RUNOFF VOLUME = 1.19780 INCHES = 0.8745 ACRE-FEET
 PEAK DISCHARGE RATE = 18.91 CFS AT 1.485 HOURS BASIN AREA =
 0.0137 SQ. MI.

ADD HYD ID=11 HYD=B-CTOA ID I=8 II=10

PRINT HYD ID=11 CODE=10

HYDROGRAPH FROM AREA B-CTOA

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

AHYMO.OUT					
HRS	CFS	HRS	CFS		
0.000	0.0	4.950	0.2	9.900	0.2
14.850	0.2	19.800	0.1		
0.330	0.0	5.280	0.3	10.230	0.2
15.180	0.2	20.130	0.1		
0.660	0.0	5.610	0.3	10.560	0.2
15.510	0.1	20.460	0.1		
0.990	0.9	5.940	0.3	10.890	0.2
15.840	0.1	20.790	0.1		
1.320	7.0	6.270	0.3	11.220	0.2
16.170	0.1	21.120	0.1		
1.650	14.2	6.600	0.2	11.550	0.2
16.500	0.1	21.450	0.1		
1.980	6.4	6.930	0.2	11.880	0.2
16.830	0.1	21.780	0.1		
2.310	1.4	7.260	0.2	12.210	0.2
17.160	0.1	22.110	0.1		
2.640	0.6	7.590	0.2	12.540	0.2
17.490	0.1	22.440	0.1		
2.970	0.3	7.920	0.2	12.870	0.2
17.820	0.1	22.770	0.1		
3.300	0.2	8.250	0.2	13.200	0.2
18.150	0.1	23.100	0.1		
3.630	0.2	8.580	0.2	13.530	0.2
18.480	0.1	23.430	0.1		
3.960	0.2	8.910	0.2	13.860	0.2
18.810	0.1	23.760	0.1		
4.290	0.2	9.240	0.2	14.190	0.2
19.140	0.1	24.090	0.1		
4.620	0.2	9.570	0.2	14.520	0.2
19.470	0.1	24.420	0.0		

RUNOFF VOLUME = 1.19779 INCHES = 1.2636 ACRE-Feet
 PEAK DISCHARGE RATE = 27.32 CFS AT 1.485 HOURS BASIN AREA =
 0.0198 SQ. MI.

*S COMPUTE HYD PROPOSED BASIN D

COMPUTE NM HYD ID=12 HYDNO=107 DA=0.01503SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428

AHYMO.OUT

UNIT PEAK = 6.0846 CFS UNIT VOLUME = 0.9979 B =
 526.28 P60 = 1.0600
 AREA = 0.001503 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.175500HR TP = 0.130000HR K/TP RATIO = 1.350000
 SHAPE CONSTANT, N = 2.667535
 UNIT PEAK = 26.378 CFS UNIT VOLUME = 0.9986 B =
 253.50 P60 = 1.0600
 AREA = 0.013527 SQ MI IA = 0.65000 INCHES INF =
 1.67000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=12 CODE=10

PARTIAL HYDROGRAPH 107.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0	10.230	0.0
0.330	0.0	5.280	0.0	10.560	0.0
15.180	0.0	20.130	0.0	10.890	0.0
0.660	0.0	5.610	0.0	11.220	0.0
15.510	0.0	20.460	0.0	11.550	0.0
0.990	0.1	5.940	0.0	11.880	0.0
15.840	0.0	20.790	0.0	12.210	0.0
1.320	0.7	6.270	0.0	12.540	0.0
16.170	0.0	21.120	0.0	12.870	0.0
1.650	2.1	6.600	0.0	13.200	0.0
16.500	0.0	21.450	0.0	13.530	0.0
1.980	0.7	6.930	0.0	13.860	0.0
16.830	0.0	21.780	0.0		
2.310	0.2	7.260	0.0		
17.160	0.0	22.110	0.0		
2.640	0.1	7.590	0.0		
17.490	0.0	22.440	0.0		
2.970	0.0	7.920	0.0		
17.820	0.0	22.770	0.0		
3.300	0.0	8.250	0.0		
18.150	0.0	23.100	0.0		
3.630	0.0	8.580	0.0		
18.480	0.0	23.430	0.0		
3.960	0.0	8.910	0.0		

AHYMO.OUT					
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0	14.520	0.0
19.470	0.0				

RUNOFF VOLUME = 0.18949 INCHES = 0.1519 ACRE-FEET
 PEAK DISCHARGE RATE = 3.70 CFS AT 1.518 HOURS BASIN AREA =
 0.0150 SQ. MI.

*S COMPUTE HYD PROPOSED BASIN E

COMPUTE NM HYD ID=13 HYDNO=108 DA=0.00150SQ MI

PER A=0 PER B=17.5 PER C=17.5 PER D=65

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 3.9471 CFS UNIT VOLUME = 0.9967 B =
 526.28 P60 = 1.0600
 AREA = 0.000975 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.124420HR TP = 0.130000HR K/TP RATIO = 0.957076
 SHAPE CONSTANT, N = 3.691990
 UNIT PEAK = 1.3492 CFS UNIT VOLUME = 0.9901 B =
 334.09 P60 = 1.0600
 AREA = 0.000525 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=13 CODE=10

PARTIAL HYDROGRAPH 108.00

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

AHYMO.OUT					
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0		
0.330	0.0	5.280	0.0	10.230	0.0
15.180	0.0	20.130	0.0		
0.660	0.0	5.610	0.0	10.560	0.0
15.510	0.0	20.460	0.0		
0.990	0.1	5.940	0.0	10.890	0.0
15.840	0.0	20.790	0.0		
1.320	0.4	6.270	0.0	11.220	0.0
16.170	0.0	21.120	0.0		
1.650	1.0	6.600	0.0	11.550	0.0
16.500	0.0	21.450	0.0		
1.980	0.4	6.930	0.0	11.880	0.0
16.830	0.0	21.780	0.0		
2.310	0.1	7.260	0.0	12.210	0.0
17.160	0.0	22.110	0.0		
2.640	0.0	7.590	0.0	12.540	0.0
17.490	0.0	22.440	0.0		
2.970	0.0	7.920	0.0	12.870	0.0
17.820	0.0	22.770	0.0		
3.300	0.0	8.250	0.0	13.200	0.0
18.150	0.0	23.100	0.0		
3.630	0.0	8.580	0.0	13.530	0.0
18.480	0.0	23.430	0.0		
3.960	0.0	8.910	0.0	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0	14.520	0.0
19.470	0.0				

RUNOFF VOLUME = 1.02035 INCHES = 0.0816 ACRE-FEET
 PEAK DISCHARGE RATE = 1.85 CFS AT 1.485 HOURS BASIN AREA =
 0.0015 SQ. MI.

*S COMPUTE HYD PROPOSED BASIN F

COMPUTE NM HYD ID=14 HYDNO=109 DA=0.00054SQ MI

PER A=0 PER B=45 PER C=45 PER D=10

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 0.21861 CFS UNIT VOLUME = 0.9495 B =

AHYMO.OUT

526.28 P60 = 1.0600
 AREA = 0.000054 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.124420HR TP = 0.130000HR K/TP RATIO = 0.957076
 SHAPE CONSTANT, N = 3.691990
 UNIT PEAK = 1.2490 CFS UNIT VOLUME = 0.9891 B =
 334.09 P60 = 1.0600
 AREA = 0.000486 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=14 CODE=10

PARTIAL HYDROGRAPH 109.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	1.320	0.0	2.640	0.0
3.960	0.0	5.280	0.0		
0.330	0.0	1.650	0.2	2.970	0.0
4.290	0.0	5.610	0.0		
0.660	0.0	1.980	0.0	3.300	0.0
4.620	0.0	5.940	0.0		
0.990	0.0	2.310	0.0	3.630	0.0
4.950	0.0				

RUNOFF VOLUME = 0.36954 INCHES = 0.0106 ACRE-FEET
 PEAK DISCHARGE RATE = 0.38 CFS AT 1.518 HOURS BASIN AREA =
 0.0005 SQ. MI.

ADD HYD ID=15 HYD=DTOF ID I=12 II=14

PRINT HYD ID=15 CODE=10

HYDROGRAPH FROM AREA DTOF

TIME	FLOW	TIME	FLOW	TIME	FLOW
------	------	------	------	------	------

		AHYMO.OUT			
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0		
0.330	0.0	5.280	0.0	10.230	0.0
15.180	0.0	20.130	0.0		
0.660	0.0	5.610	0.0	10.560	0.0
15.510	0.0	20.460	0.0		
0.990	0.1	5.940	0.0	10.890	0.0
15.840	0.0	20.790	0.0		
1.320	0.7	6.270	0.0	11.220	0.0
16.170	0.0	21.120	0.0		
1.650	2.2	6.600	0.0	11.550	0.0
16.500	0.0	21.450	0.0		
1.980	0.8	6.930	0.0	11.880	0.0
16.830	0.0	21.780	0.0		
2.310	0.2	7.260	0.0	12.210	0.0
17.160	0.0	22.110	0.0		
2.640	0.1	7.590	0.0	12.540	0.0
17.490	0.0	22.440	0.0		
2.970	0.0	7.920	0.0	12.870	0.0
17.820	0.0	22.770	0.0		
3.300	0.0	8.250	0.0	13.200	0.0
18.150	0.0	23.100	0.0		
3.630	0.0	8.580	0.0	13.530	0.0
18.480	0.0	23.430	0.0		
3.960	0.0	8.910	0.0	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0	14.520	0.0
19.470	0.0				

RUNOFF VOLUME = 0.19474 INCHES = 0.1617 ACRE-FEET
 PEAK DISCHARGE RATE = 4.08 CFS AT 1.518 HOURS BASIN AREA =
 0.0156 SQ. MI.

ADD HYD ID=16 HYD=ETOF-D ID I=13 II=15

PRINT HYD ID=16 CODE=10

HYDROGRAPH FROM AREA ETOF-D

TIME	FLOW	TIME	FLOW	TIME	FLOW
------	------	------	------	------	------

		AHYMO.OUT					
TIME	FLOW	TIME	FLOW				
HRS	CFS	HRS	CFS	HRS	CFS		
HRS	CFS	HRS	CFS				
0.000	0.0	4.950	0.0	9.900	0.0		
14.850	0.0	19.800	0.0				
0.330	0.0	5.280	0.0	10.230	0.0		
15.180	0.0	20.130	0.0				
0.660	0.0	5.610	0.0	10.560	0.0		
15.510	0.0	20.460	0.0				
0.990	0.1	5.940	0.1	10.890	0.0		
15.840	0.0	20.790	0.0				
1.320	1.1	6.270	0.0	11.220	0.0		
16.170	0.0	21.120	0.0				
1.650	3.2	6.600	0.0	11.550	0.0		
16.500	0.0	21.450	0.0				
1.980	1.2	6.930	0.0	11.880	0.0		
16.830	0.0	21.780	0.0				
2.310	0.3	7.260	0.0	12.210	0.0		
17.160	0.0	22.110	0.0				
2.640	0.1	7.590	0.0	12.540	0.0		
17.490	0.0	22.440	0.0				
2.970	0.1	7.920	0.0	12.870	0.0		
17.820	0.0	22.770	0.0				
3.300	0.0	8.250	0.0	13.200	0.0		
18.150	0.0	23.100	0.0				
3.630	0.0	8.580	0.0	13.530	0.0		
18.480	0.0	23.430	0.0				
3.960	0.0	8.910	0.0	13.860	0.0		
18.810	0.0	23.760	0.0				
4.290	0.0	9.240	0.0	14.190	0.0		
19.140	0.0	24.090	0.0				
4.620	0.0	9.570	0.0	14.520	0.0		
19.470	0.0						

RUNOFF VOLUME = 0.26728 INCHES = 0.2433 ACRE-Feet
 PEAK DISCHARGE RATE = 5.93 CFS AT 1.518 HOURS BASIN AREA =
 0.0171 SQ. MI.

*S COMPUTE HYD PROPOSED BASIN G

COMPUTE NM HYD ID=17 HYDNO=110 DA=0.00472SQ MI

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

TP=-0.13 RAIN=-1

AHYMO.OUT

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 17.197 CFS UNIT VOLUME = 0.9992 B =
 526.28 P60 = 1.0600
 AREA = 0.004248 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.124420HR TP = 0.130000HR K/TP RATIO = 0.957076
 SHAPE CONSTANT, N = 3.691990
 UNIT PEAK = 1.2130 CFS UNIT VOLUME = 0.9891 B =
 334.09 P60 = 1.0600
 AREA = 0.000472 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=17 CODE=10

PARTIAL HYDROGRAPH 110.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	4.950	0.1	9.900	0.1
14.850	0.0	19.800	0.0		
0.330	0.0	5.280	0.1	10.230	0.1
15.180	0.0	20.130	0.0		
0.660	0.0	5.610	0.1	10.560	0.0
15.510	0.0	20.460	0.0		
0.990	0.2	5.940	0.1	10.890	0.0
15.840	0.0	20.790	0.0		
1.320	1.9	6.270	0.1	11.220	0.0
16.170	0.0	21.120	0.0		
1.650	3.7	6.600	0.1	11.550	0.0
16.500	0.0	21.450	0.0		
1.980	1.7	6.930	0.1	11.880	0.0
16.830	0.0	21.780	0.0		
2.310	0.4	7.260	0.1	12.210	0.0
17.160	0.0	22.110	0.0		
2.640	0.2	7.590	0.1	12.540	0.0
17.490	0.0	22.440	0.0		
2.970	0.1	7.920	0.1	12.870	0.0
17.820	0.0	22.770	0.0		
3.300	0.1	8.250	0.1	13.200	0.0
18.150	0.0	23.100	0.0		
3.630	0.1	8.580	0.1	13.530	0.0

AHYMO.OUT					
18.480	0.0	23.430	0.0		
3.960	0.1	8.910	0.1	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.1	9.240	0.1	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.1	9.570	0.1	14.520	0.0
19.470	0.0	24.420	0.0		

RUNOFF VOLUME = 1.31617 INCHES = 0.3313 ACRE-FEET
 PEAK DISCHARGE RATE = 7.00 CFS AT 1.485 HOURS BASIN AREA =
 0.0047 SQ. MI.

*S COMPUTE HYD PROPOSED BASIN H

COMPUTE NM HYD ID=18 HYDNO=111 DA=0.00107SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 3.8985 CFS UNIT VOLUME = 0.9967 B =
 526.28 P60 = 1.0600
 AREA = 0.000963 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.124420HR TP = 0.130000HR K/TP RATIO = 0.957076
 SHAPE CONSTANT, N = 3.691990
 UNIT PEAK = 0.27498 CFS UNIT VOLUME = 0.9500 B =
 334.09 P60 = 1.0600
 AREA = 0.000107 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=18 CODE=10

PARTIAL HYDROGRAPH 111.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		

AHYMO.OUT					
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0		
0.330	0.0	5.280	0.0	10.230	0.0
15.180	0.0	20.130	0.0		
0.660	0.0	5.610	0.0	10.560	0.0
15.510	0.0	20.460	0.0		
0.990	0.1	5.940	0.0	10.890	0.0
15.840	0.0	20.790	0.0		
1.320	0.4	6.270	0.0	11.220	0.0
16.170	0.0	21.120	0.0		
1.650	0.8	6.600	0.0	11.550	0.0
16.500	0.0	21.450	0.0		
1.980	0.4	6.930	0.0	11.880	0.0
16.830	0.0	21.780	0.0		
2.310	0.1	7.260	0.0	12.210	0.0
17.160	0.0	22.110	0.0		
2.640	0.0	7.590	0.0	12.540	0.0
17.490	0.0	22.440	0.0		
2.970	0.0	7.920	0.0	12.870	0.0
17.820	0.0	22.770	0.0		
3.300	0.0	8.250	0.0	13.200	0.0
18.150	0.0	23.100	0.0		
3.630	0.0	8.580	0.0	13.530	0.0
18.480	0.0	23.430	0.0		
3.960	0.0	8.910	0.0	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0	14.520	0.0
19.470	0.0				

RUNOFF VOLUME = 1.31617 INCHES = 0.0751 ACRE-FEET
 PEAK DISCHARGE RATE = 1.59 CFS AT 1.485 HOURS BASIN AREA =
 0.0011 SQ. MI.

*S COMPUTE HYD PROPOSED BASIN I

COMPUTE NM HYD ID=19 HYDNO=112 DA=0.00074SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000

AHYMO.OUT

SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 2.6961 CFS UNIT VOLUME = 0.9956 B =
 526.28 P60 = 1.0600
 AREA = 0.000666 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.124420HR TP = 0.130000HR K/TP RATIO = 0.957076
 SHAPE CONSTANT, N = 3.691990
 UNIT PEAK = 0.19017 CFS UNIT VOLUME = 0.9287 B =
 334.09 P60 = 1.0600
 AREA = 0.000074 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=19 CODE=10

PARTIAL HYDROGRAPH 112.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0	10.230	0.0
0.330	0.0	5.280	0.0	10.560	0.0
15.180	0.0	20.130	0.0	10.890	0.0
0.660	0.0	5.610	0.0	11.220	0.0
15.510	0.0	20.460	0.0	11.550	0.0
0.990	0.0	5.940	0.0	11.880	0.0
15.840	0.0	20.790	0.0	12.210	0.0
1.320	0.3	6.270	0.0	12.540	0.0
16.170	0.0	21.120	0.0	12.870	0.0
1.650	0.6	6.600	0.0	13.200	0.0
16.500	0.0	21.450	0.0	13.530	0.0
1.980	0.3	6.930	0.0		
16.830	0.0	21.780	0.0		
2.310	0.1	7.260	0.0		
17.160	0.0	22.110	0.0		
2.640	0.0	7.590	0.0		
17.490	0.0	22.440	0.0		
2.970	0.0	7.920	0.0		
17.820	0.0	22.770	0.0		
3.300	0.0	8.250	0.0		
18.150	0.0	23.100	0.0		
3.630	0.0	8.580	0.0		
18.480	0.0	23.430	0.0		

		AHYMO.OUT			
3.960	0.0	8.910	0.0	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0	14.520	0.0
19.470	0.0				

RUNOFF VOLUME = 1.31617 INCHES = 0.0519 ACRE-FEET
 PEAK DISCHARGE RATE = 1.10 CFS AT 1.485 HOURS BASIN AREA =
 0.0007 SQ. MI.

ADD HYD ID=20 HYD=HTOI ID I=18 II=19

PRINT HYD ID=20 CODE=10

HYDROGRAPH FROM AREA HTOI

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0		
0.330	0.0	5.280	0.0	10.230	0.0
15.180	0.0	20.130	0.0		
0.660	0.0	5.610	0.0	10.560	0.0
15.510	0.0	20.460	0.0		
0.990	0.1	5.940	0.0	10.890	0.0
15.840	0.0	20.790	0.0		
1.320	0.7	6.270	0.0	11.220	0.0
16.170	0.0	21.120	0.0		
1.650	1.4	6.600	0.0	11.550	0.0
16.500	0.0	21.450	0.0		
1.980	0.7	6.930	0.0	11.880	0.0
16.830	0.0	21.780	0.0		
2.310	0.1	7.260	0.0	12.210	0.0
17.160	0.0	22.110	0.0		
2.640	0.1	7.590	0.0	12.540	0.0
17.490	0.0	22.440	0.0		
2.970	0.0	7.920	0.0	12.870	0.0
17.820	0.0	22.770	0.0		
3.300	0.0	8.250	0.0	13.200	0.0
18.150	0.0	23.100	0.0		
3.630	0.0	8.580	0.0	13.530	0.0
18.480	0.0	23.430	0.0		

		AHYMO.OUT			
3.960	0.0	8.910	0.0	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0	14.520	0.0
19.470	0.0				

RUNOFF VOLUME = 1.31587 INCHES = 0.1270 ACRE-FEET
 PEAK DISCHARGE RATE = 2.70 CFS AT 1.485 HOURS BASIN AREA =
 0.0018 SQ. MI.

ADD HYD ID=21 HYD=A-CTOG ID I=11 II=17

PRINT HYD ID=21 CODE=10

HYDROGRAPH FROM AREA A-CTOG

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.3	9.900	0.2
14.850	0.2	19.800	0.2	10.230	0.2
0.330	0.0	5.280	0.3	10.560	0.2
15.180	0.2	20.130	0.2	10.890	0.2
0.660	0.0	5.610	0.4	11.220	0.2
15.510	0.2	20.460	0.2	11.550	0.2
0.990	1.1	5.940	0.4	11.880	0.2
15.840	0.2	20.790	0.2	12.210	0.2
1.320	8.9	6.270	0.3	12.540	0.2
16.170	0.2	21.120	0.2	12.870	0.2
1.650	17.9	6.600	0.3	13.200	0.2
16.500	0.2	21.450	0.2		
1.980	8.1	6.930	0.3		
16.830	0.2	21.780	0.1		
2.310	1.8	7.260	0.3		
17.160	0.2	22.110	0.1		
2.640	0.7	7.590	0.3		
17.490	0.2	22.440	0.1		
2.970	0.4	7.920	0.3		
17.820	0.2	22.770	0.1		
3.300	0.3	8.250	0.3		
18.150	0.2	23.100	0.1		

		AHYMO.OUT			
3.630	0.2	8.580	0.3	13.530	0.2
18.480	0.2	23.430	0.1		
3.960	0.2	8.910	0.3	13.860	0.2
18.810	0.2	23.760	0.1		
4.290	0.3	9.240	0.3	14.190	0.2
19.140	0.2	24.090	0.1		
4.620	0.3	9.570	0.3	14.520	0.2
19.470	0.2	24.420	0.0		

RUNOFF VOLUME = 1.22059 INCHES = 1.5949 ACRE-FEET
 PEAK DISCHARGE RATE = 34.33 CFS AT 1.485 HOURS BASIN AREA =
 0.0245 SQ. MI.

ADD HYD ID=22 HYD=D-FTOA-DTOG ID I=16 II=21

PRINT HYD ID=22 CODE=10

HYDROGRAPH FROM AREA D-FTOA-DTOG

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.3	9.900	0.3
14.850	0.2	19.800	0.2	10.230	0.3
0.330	0.0	5.280	0.4	10.560	0.3
15.180	0.2	20.130	0.2	10.890	0.3
0.660	0.0	5.610	0.4	11.220	0.3
15.510	0.2	20.460	0.2	11.550	0.3
0.990	1.2	5.940	0.5	11.880	0.2
15.840	0.2	20.790	0.2	12.210	0.2
1.320	10.0	6.270	0.4	12.540	0.2
16.170	0.2	21.120	0.2	12.870	0.2
1.650	21.1	6.600	0.3	13.200	0.2
16.500	0.2	21.450	0.2		
1.980	9.3	6.930	0.3		
16.830	0.2	21.780	0.2		
2.310	2.0	7.260	0.3		
17.160	0.2	22.110	0.2		
2.640	0.9	7.590	0.3		
17.490	0.2	22.440	0.2		
2.970	0.4	7.920	0.3		
17.820	0.2	22.770	0.2		
3.300	0.3	8.250	0.3		
18.150	0.2	23.100	0.2		

AHYMO.OUT					
3.630	0.3	8.580	0.3	13.530	0.2
18.480	0.2	23.430	0.2		
3.960	0.3	8.910	0.3	13.860	0.2
18.810	0.2	23.760	0.2		
4.290	0.3	9.240	0.3	14.190	0.2
19.140	0.2	24.090	0.1		
4.620	0.3	9.570	0.3	14.520	0.2
19.470	0.2	24.420	0.0		

RUNOFF VOLUME = 0.82913 INCHES = 1.8382 ACRE-FEET
 PEAK DISCHARGE RATE = 40.17 CFS AT 1.485 HOURS BASIN AREA =
 0.0416 SQ. MI.

*S FUTURE CONDITIONS

*S COMPUTE HYD FUTURE BASIN D-1

COMPUTE NM HYD ID=23 HYDNO=113 DA=0.00781SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 25.294 CFS UNIT VOLUME = 0.9993 B =
 526.28 P60 = 1.0600
 AREA = 0.006248 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.124420HR TP = 0.130000HR K/TP RATIO = 0.957076
 SHAPE CONSTANT, N = 3.691990
 UNIT PEAK = 4.0142 CFS UNIT VOLUME = 0.9970 B =
 334.09 P60 = 1.0600
 AREA = 0.001562 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=23 CODE=10 AHYMO.OUT

PARTIAL HYDROGRAPH 113.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	4.950	0.1	9.900	0.1
14.850	0.1	19.800	0.0		
0.330	0.0	5.280	0.1	10.230	0.1
15.180	0.1	20.130	0.0		
0.660	0.0	5.610	0.1	10.560	0.1
15.510	0.1	20.460	0.0		
0.990	0.3	5.940	0.1	10.890	0.1
15.840	0.1	20.790	0.0		
1.320	2.8	6.270	0.1	11.220	0.1
16.170	0.1	21.120	0.0		
1.650	5.6	6.600	0.1	11.550	0.1
16.500	0.1	21.450	0.0		
1.980	2.5	6.930	0.1	11.880	0.1
16.830	0.1	21.780	0.0		
2.310	0.5	7.260	0.1	12.210	0.1
17.160	0.1	22.110	0.0		
2.640	0.2	7.590	0.1	12.540	0.1
17.490	0.1	22.440	0.0		
2.970	0.1	7.920	0.1	12.870	0.1
17.820	0.1	22.770	0.0		
3.300	0.1	8.250	0.1	13.200	0.1
18.150	0.1	23.100	0.0		
3.630	0.1	8.580	0.1	13.530	0.1
18.480	0.1	23.430	0.0		
3.960	0.1	8.910	0.1	13.860	0.1
18.810	0.1	23.760	0.0		
4.290	0.1	9.240	0.1	14.190	0.1
19.140	0.1	24.090	0.0		
4.620	0.1	9.570	0.1	14.520	0.1
19.470	0.0	24.420	0.0		

RUNOFF VOLUME = 1.19784 INCHES = 0.4989 ACRE- FEET
 PEAK DISCHARGE RATE = 10.79 CFS AT 1.485 HOURS BASIN AREA =
 0.0078 SQ. MI.

*S COMPUTE HYD FUTURE BASIN D-2

COMPUTE NM HYD ID=24 HYDNO=114 DA=0.00781SQ MI

AHYMO.OUT

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 25.294 CFS UNIT VOLUME = 0.9993 B =
 526.28 P60 = 1.0600
 AREA = 0.006248 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.124420HR TP = 0.130000HR K/TP RATIO = 0.957076
 SHAPE CONSTANT, N = 3.691990
 UNIT PEAK = 4.0142 CFS UNIT VOLUME = 0.9970 B =
 334.09 P60 = 1.0600
 AREA = 0.001562 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD

ID=24 CODE=10

PARTIAL HYDROGRAPH 114.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.1	9.900	0.1
14.850	0.1	19.800	0.0		
0.330	0.0	5.280	0.1	10.230	0.1
15.180	0.1	20.130	0.0		
0.660	0.0	5.610	0.1	10.560	0.1
15.510	0.1	20.460	0.0		
0.990	0.3	5.940	0.1	10.890	0.1
15.840	0.1	20.790	0.0		
1.320	2.8	6.270	0.1	11.220	0.1
16.170	0.1	21.120	0.0		
1.650	5.6	6.600	0.1	11.550	0.1
16.500	0.1	21.450	0.0		
1.980	2.5	6.930	0.1	11.880	0.1
16.830	0.1	21.780	0.0		
2.310	0.5	7.260	0.1	12.210	0.1
17.160	0.1	22.110	0.0		
2.640	0.2	7.590	0.1	12.540	0.1

AHYMO.OUT					
17.490	0.1	22.440	0.0		
2.970	0.1	7.920	0.1	12.870	0.1
17.820	0.1	22.770	0.0		
3.300	0.1	8.250	0.1	13.200	0.1
18.150	0.1	23.100	0.0		
3.630	0.1	8.580	0.1	13.530	0.1
18.480	0.1	23.430	0.0		
3.960	0.1	8.910	0.1	13.860	0.1
18.810	0.1	23.760	0.0		
4.290	0.1	9.240	0.1	14.190	0.1
19.140	0.1	24.090	0.0		
4.620	0.1	9.570	0.1	14.520	0.1
19.470	0.0	24.420	0.0		

RUNOFF VOLUME = 1.19784 INCHES = 0.4989 ACRE-FEET
 PEAK DISCHARGE RATE = 10.79 CFS AT 1.485 HOURS BASIN AREA =
 0.0078 SQ. MI.

*S COMPUTE HYD FUTURE BASIN D-3

COMPUTE NM HYD ID=25 HYDNO=115 DA=0.00140SQ MI

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

TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 4.5341 CFS UNIT VOLUME = 0.9972 B =
 526.28 P60 = 1.0600
 AREA = 0.001120 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.124420HR TP = 0.130000HR K/TP RATIO = 0.957076
 SHAPE CONSTANT, N = 3.691990
 UNIT PEAK = 0.71958 CFS UNIT VOLUME = 0.9813 B =
 334.09 P60 = 1.0600
 AREA = 0.000280 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=25 CODE=10

AHYMO.OUT

PARTIAL HYDROGRAPH 115.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0		
0.330	0.0	5.280	0.0	10.230	0.0
15.180	0.0	20.130	0.0		
0.660	0.0	5.610	0.0	10.560	0.0
15.510	0.0	20.460	0.0		
0.990	0.1	5.940	0.0	10.890	0.0
15.840	0.0	20.790	0.0		
1.320	0.5	6.270	0.0	11.220	0.0
16.170	0.0	21.120	0.0		
1.650	1.0	6.600	0.0	11.550	0.0
16.500	0.0	21.450	0.0		
1.980	0.5	6.930	0.0	11.880	0.0
16.830	0.0	21.780	0.0		
2.310	0.1	7.260	0.0	12.210	0.0
17.160	0.0	22.110	0.0		
2.640	0.0	7.590	0.0	12.540	0.0
17.490	0.0	22.440	0.0		
2.970	0.0	7.920	0.0	12.870	0.0
17.820	0.0	22.770	0.0		
3.300	0.0	8.250	0.0	13.200	0.0
18.150	0.0	23.100	0.0		
3.630	0.0	8.580	0.0	13.530	0.0
18.480	0.0	23.430	0.0		
3.960	0.0	8.910	0.0	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0	14.520	0.0
19.470	0.0				

RUNOFF VOLUME = 1.19784 INCHES = 0.0894 ACRE-Feet
 PEAK DISCHARGE RATE = 1.94 CFS AT 1.485 HOURS BASIN AREA =
 0.0014 SQ. MI.

*S COMPUTE HYD FUTURE BASIN G-2

COMPUTE NM HYD ID=26 HYDNO=116 DA=0.00235SQ MI

AHYMO.OUT
 PER A=0 PER B=5 PER C=5 PER D=90
 TP=-0.13 RAIN=-1

K = 0.070850HR TP = 0.130000HR K/TP RATIO = 0.545000
 SHAPE CONSTANT, N = 7.106428
 UNIT PEAK = 8.5621 CFS UNIT VOLUME = 0.9984 B =
 526.28 P60 = 1.0600
 AREA = 0.002115 SQ MI IA = 0.10000 INCHES INF =
 0.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

K = 0.124420HR TP = 0.130000HR K/TP RATIO = 0.957076
 SHAPE CONSTANT, N = 3.691990
 UNIT PEAK = 0.60393 CFS UNIT VOLUME = 0.9776 B =
 334.09 P60 = 1.0600
 AREA = 0.000235 SQ MI IA = 0.42500 INCHES INF =
 1.04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD -
 DT = 0.033000

PRINT HYD ID=26 CODE=10

PARTIAL HYDROGRAPH 116.00

TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW	TIME	FLOW
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS	HRS	CFS
0.000	0.0	4.950	0.0	9.900	0.0
14.850	0.0	19.800	0.0		
0.330	0.0	5.280	0.0	10.230	0.0
15.180	0.0	20.130	0.0		
0.660	0.0	5.610	0.0	10.560	0.0
15.510	0.0	20.460	0.0		
0.990	0.1	5.940	0.0	10.890	0.0
15.840	0.0	20.790	0.0		
1.320	0.9	6.270	0.0	11.220	0.0
16.170	0.0	21.120	0.0		
1.650	1.8	6.600	0.0	11.550	0.0
16.500	0.0	21.450	0.0		
1.980	0.8	6.930	0.0	11.880	0.0
16.830	0.0	21.780	0.0		
2.310	0.2	7.260	0.0	12.210	0.0
17.160	0.0	22.110	0.0		
2.640	0.1	7.590	0.0	12.540	0.0
17.490	0.0	22.440	0.0		

		AHYMO.OUT			
2.970	0.0	7.920	0.0	12.870	0.0
17.820	0.0	22.770	0.0		
3.300	0.0	8.250	0.0	13.200	0.0
18.150	0.0	23.100	0.0		
3.630	0.0	8.580	0.0	13.530	0.0
18.480	0.0	23.430	0.0		
3.960	0.0	8.910	0.0	13.860	0.0
18.810	0.0	23.760	0.0		
4.290	0.0	9.240	0.0	14.190	0.0
19.140	0.0	24.090	0.0		
4.620	0.0	9.570	0.0	14.520	0.0
19.470	0.0				

RUNOFF VOLUME = 1.31617 INCHES = 0.1650 ACRE-Feet
 PEAK DISCHARGE RATE = 3.49 CFS AT 1.485 HOURS BASIN AREA =
 0.0024 SQ. MI.

ADD HYD ID=27 HYD=FULLROADWIDTH ID I=17 II=26

PRINT HYD ID=27 CODE=10

FULLROADWIDTH		HYDROGRAPH FROM AREA			
TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	4.950	0.1	9.900	0.1
14.850	0.1	19.800	0.1		
0.330	0.0	5.280	0.1	10.230	0.1
15.180	0.1	20.130	0.0		
0.660	0.0	5.610	0.1	10.560	0.1
15.510	0.1	20.460	0.0		
0.990	0.3	5.940	0.1	10.890	0.1
15.840	0.1	20.790	0.0		
1.320	2.8	6.270	0.1	11.220	0.1
16.170	0.1	21.120	0.0		
1.650	5.5	6.600	0.1	11.550	0.1
16.500	0.1	21.450	0.0		
1.980	2.5	6.930	0.1	11.880	0.1
16.830	0.1	21.780	0.0		
2.310	0.5	7.260	0.1	12.210	0.1
17.160	0.1	22.110	0.0		
2.640	0.2	7.590	0.1	12.540	0.1
17.490	0.1	22.440	0.0		

		AHYMO.OUT			
2.970	0.1	7.920	0.1	12.870	0.1
17.820	0.1	22.770	0.0		
3.300	0.1	8.250	0.1	13.200	0.1
18.150	0.1	23.100	0.0		
3.630	0.1	8.580	0.1	13.530	0.1
18.480	0.1	23.430	0.0		
3.960	0.1	8.910	0.1	13.860	0.1
18.810	0.1	23.760	0.0		
4.290	0.1	9.240	0.1	14.190	0.1
19.140	0.1	24.090	0.0		
4.620	0.1	9.570	0.1	14.520	0.1
19.470	0.1	24.420	0.0		

RUNOFF VOLUME = 1.31608 INCHES = 0.4962 ACRE-FeET
 PEAK DISCHARGE RATE = 10.50 CFS AT 1.485 HOURS BASIN AREA =
 0.0071 SQ. MI.

ROUTE RESERVOIR ID=50 HYD=POND.A INFLOW ID=22 CODE=5

OUTFLOW	STORAGE	DEPTH
0.0	0	5404.00
0.01	0.17	5405.00
0.01	0.44	5406.00
0.01	0.85	5407.00
0.01	1.38	5408.00
0.01	2.24	5409.40
16.80	2.57	5409.90
47.71	2.91	5410.40

* * * * *

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
0.00	0.00	5404.00	0.000	0.00
0.16	0.00	5404.00	0.000	0.00

AHYMO.OUT

0.33	0.00	5404.00	0.000	0.00
0.50	0.00	5404.00	0.000	0.00
0.66	0.00	5404.00	0.000	0.00
0.82	0.00	5404.00	0.000	0.00
0.99	1.23	5404.03	0.005	0.00
1.15	1.27	5404.15	0.026	0.00
1.32	10.04	5404.48	0.082	0.00
1.49	40.17	5409.40	2.240	0.01
1.65	21.08	5409.40	2.240	0.01
1.81	12.89	5409.40	2.240	0.01
1.98	9.26	5409.40	2.240	0.01
2.14	4.66	5409.40	2.240	0.01
2.31	2.05	5409.40	2.240	0.01
2.47	1.27	5409.40	2.240	0.01
2.64	0.85	5409.40	2.240	0.01
2.81	0.60	5409.40	2.240	0.01
2.97	0.45	5409.40	2.240	0.01
3.13	0.36	5409.40	2.240	0.01
3.30	0.31	5409.40	2.240	0.01
3.46	0.29	5409.40	2.240	0.01
3.63	0.28	5409.40	2.240	0.01
3.80	0.27	5409.40	2.240	0.01
3.96	0.27	5409.40	2.240	0.01
4.12	0.28	5409.40	2.240	0.01
4.29	0.29	5409.40	2.240	0.01
4.45	0.30	5409.40	2.240	0.01
4.62	0.31	5409.40	2.240	0.01
4.78	0.32	5409.40	2.240	0.01
4.95	0.34	5409.40	2.240	0.01
5.11	0.35	5409.40	2.240	0.01
5.28	0.37	5409.40	2.240	0.01
5.45	0.39	5409.40	2.240	0.01
5.61	0.41	5409.40	2.240	0.01
5.78	0.43	5409.40	2.240	0.01
5.94	0.45	5409.40	2.240	0.01
6.11	0.43	5409.40	2.240	0.01
6.27	0.36	5409.40	2.240	0.01
6.43	0.35	5409.40	2.240	0.01
6.60	0.34	5409.40	2.240	0.01
6.76	0.33	5409.40	2.240	0.01
6.93	0.33	5409.40	2.240	0.01
7.09	0.33	5409.40	2.240	0.01
7.26	0.32	5409.40	2.240	0.01
7.43	0.32	5409.40	2.240	0.01
7.59	0.31	5409.40	2.240	0.01
7.76	0.31	5409.40	2.240	0.01
7.92	0.31	5409.40	2.240	0.01
8.09	0.31	5409.40	2.240	0.01
8.25	0.30	5409.40	2.240	0.01
8.41	0.30	5409.40	2.240	0.01
8.58	0.30	5409.40	2.240	0.01

AHYMO.OUT				
8.74	0.29	5409.40	2.240	0.01
8.91	0.29	5409.40	2.240	0.01
9.07	0.29	5409.40	2.240	0.01
TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
9.24	0.29	5409.40	2.240	0.01
9.40	0.28	5409.40	2.240	0.01
9.57	0.28	5409.40	2.240	0.01
9.73	0.28	5409.40	2.240	0.01
9.90	0.28	5409.40	2.240	0.01
10.06	0.27	5409.40	2.240	0.01
10.23	0.27	5409.40	2.240	0.01
10.39	0.27	5409.40	2.240	0.01
10.56	0.27	5409.40	2.240	0.01
10.73	0.26	5409.40	2.240	0.01
10.89	0.26	5409.40	2.240	0.01
11.06	0.26	5409.40	2.240	0.01
11.22	0.26	5409.40	2.240	0.01
11.39	0.26	5409.40	2.240	0.01
11.55	0.25	5409.40	2.240	0.01
11.72	0.25	5409.40	2.240	0.01
11.88	0.25	5409.40	2.240	0.01
12.05	0.25	5409.40	2.240	0.01
12.21	0.24	5409.40	2.240	0.01
12.38	0.24	5409.40	2.240	0.01
12.54	0.24	5409.40	2.240	0.01
12.70	0.24	5409.40	2.240	0.01
12.87	0.24	5409.40	2.240	0.01
13.03	0.24	5409.40	2.240	0.01
13.20	0.24	5409.40	2.240	0.01
13.36	0.23	5409.40	2.240	0.01
13.53	0.23	5409.40	2.240	0.01
13.69	0.23	5409.40	2.240	0.01
13.86	0.23	5409.40	2.240	0.01
14.02	0.22	5409.40	2.240	0.01
14.19	0.22	5409.40	2.240	0.01
14.35	0.22	5409.40	2.240	0.01
14.52	0.22	5409.40	2.240	0.01
14.68	0.22	5409.40	2.240	0.01
14.85	0.22	5409.40	2.240	0.01
15.02	0.21	5409.40	2.240	0.01
15.18	0.22	5409.40	2.240	0.01
15.35	0.21	5409.40	2.240	0.01
15.51	0.21	5409.40	2.240	0.01
15.68	0.21	5409.40	2.240	0.01
15.84	0.21	5409.40	2.240	0.01
16.00	0.21	5409.40	2.240	0.01
16.17	0.21	5409.40	2.240	0.01
16.33	0.20	5409.40	2.240	0.01

AHYMO.OUT				
16.50	0.20	5409.40	2.240	0.01
16.66	0.20	5409.40	2.240	0.01
16.83	0.20	5409.40	2.240	0.01
17.00	0.20	5409.40	2.240	0.01
17.16	0.20	5409.40	2.240	0.01
17.33	0.20	5409.40	2.240	0.01
17.49	0.19	5409.40	2.240	0.01
17.66	0.19	5409.40	2.240	0.01
17.82	0.19	5409.40	2.240	0.01
17.99	0.19	5409.40	2.240	0.01
18.15	0.19	5409.40	2.240	0.01
18.32	0.19	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
18.48	0.19	5409.40	2.240	0.01
18.65	0.19	5409.40	2.240	0.01
18.81	0.19	5409.40	2.240	0.01
18.98	0.18	5409.40	2.240	0.01
19.14	0.19	5409.40	2.240	0.01
19.31	0.19	5409.40	2.240	0.01
19.47	0.18	5409.40	2.240	0.01
19.64	0.18	5409.40	2.240	0.01
19.80	0.18	5409.40	2.240	0.01
19.97	0.18	5409.40	2.240	0.01
20.13	0.18	5409.40	2.240	0.01
20.30	0.18	5409.40	2.240	0.01
20.46	0.18	5409.40	2.240	0.01
20.62	0.18	5409.40	2.240	0.01
20.79	0.18	5409.40	2.240	0.01
20.95	0.17	5409.40	2.240	0.01
21.12	0.17	5409.40	2.240	0.01
21.28	0.17	5409.40	2.240	0.01
21.45	0.17	5409.40	2.240	0.01
21.61	0.17	5409.40	2.240	0.01
21.78	0.17	5409.40	2.240	0.01
21.94	0.17	5409.40	2.240	0.01
22.11	0.16	5409.40	2.240	0.01
22.27	0.16	5409.40	2.240	0.01
22.44	0.17	5409.40	2.240	0.01
22.60	0.17	5409.40	2.240	0.01
22.77	0.16	5409.40	2.240	0.01
22.93	0.16	5409.40	2.240	0.01
23.10	0.16	5409.40	2.240	0.01
23.26	0.16	5409.40	2.240	0.01
23.43	0.16	5409.40	2.240	0.01
23.59	0.16	5409.40	2.240	0.01
23.76	0.16	5409.40	2.240	0.01
23.92	0.16	5409.40	2.240	0.01
24.09	0.12	5409.40	2.240	0.01

			AHYMO.OUT	
24.25	0.02	5409.40	2.240	0.01
24.42	0.01	5409.40	2.240	0.01
24.58	0.00	5409.40	2.240	0.01
24.75	0.00	5409.40	2.240	0.01
24.91	0.00	5409.40	2.240	0.01
25.08	0.00	5409.40	2.240	0.01
25.24	0.00	5409.40	2.240	0.01
25.41	0.00	5409.40	2.240	0.01
25.58	0.00	5409.40	2.240	0.01
25.74	0.00	5409.40	2.240	0.01
25.91	0.00	5409.40	2.240	0.01
26.07	0.00	5409.40	2.240	0.01
26.24	0.00	5409.40	2.240	0.01
26.40	0.00	5409.40	2.240	0.01
26.57	0.00	5409.40	2.240	0.01
26.73	0.00	5409.40	2.240	0.01
26.90	0.00	5409.40	2.240	0.01
27.06	0.00	5409.40	2.240	0.01
27.23	0.00	5409.40	2.240	0.01
27.39	0.00	5409.40	2.240	0.01
27.56	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
27.72	0.00	5409.40	2.240	0.01
27.89	0.00	5409.40	2.240	0.01
28.05	0.00	5409.40	2.240	0.01
28.22	0.00	5409.40	2.240	0.01
28.38	0.00	5409.40	2.240	0.01
28.55	0.00	5409.40	2.240	0.01
28.71	0.00	5409.40	2.240	0.01
28.88	0.00	5409.40	2.240	0.01
29.04	0.00	5409.40	2.240	0.01
29.20	0.00	5409.40	2.240	0.01
29.37	0.00	5409.40	2.240	0.01
29.53	0.00	5409.40	2.240	0.01
29.70	0.00	5409.40	2.240	0.01
29.86	0.00	5409.40	2.240	0.01
30.03	0.00	5409.40	2.240	0.01
30.19	0.00	5409.40	2.240	0.01
30.36	0.00	5409.40	2.240	0.01
30.52	0.00	5409.40	2.240	0.01
30.69	0.00	5409.40	2.240	0.01
30.85	0.00	5409.40	2.240	0.01
31.02	0.00	5409.40	2.240	0.01
31.18	0.00	5409.40	2.240	0.01
31.35	0.00	5409.40	2.240	0.01
31.51	0.00	5409.40	2.240	0.01
31.68	0.00	5409.40	2.240	0.01
31.84	0.00	5409.40	2.240	0.01

AHYMO.OUT

32.01	0.00	5409.40	2.240	0.01
32.17	0.00	5409.40	2.240	0.01
32.34	0.00	5409.40	2.240	0.01
32.51	0.00	5409.40	2.240	0.01
32.67	0.00	5409.40	2.240	0.01
32.83	0.00	5409.40	2.240	0.01
33.00	0.00	5409.40	2.240	0.01
33.17	0.00	5409.40	2.240	0.01
33.33	0.00	5409.40	2.240	0.01
33.49	0.00	5409.40	2.240	0.01
33.66	0.00	5409.40	2.240	0.01
33.83	0.00	5409.40	2.240	0.01
33.99	0.00	5409.40	2.240	0.01
34.15	0.00	5409.40	2.240	0.01
34.32	0.00	5409.40	2.240	0.01
34.49	0.00	5409.40	2.240	0.01
34.65	0.00	5409.40	2.240	0.01
34.81	0.00	5409.40	2.240	0.01
34.98	0.00	5409.40	2.240	0.01
35.15	0.00	5409.40	2.240	0.01
35.31	0.00	5409.40	2.240	0.01
35.47	0.00	5409.40	2.240	0.01
35.64	0.00	5409.40	2.240	0.01
35.81	0.00	5409.40	2.240	0.01
35.97	0.00	5409.40	2.240	0.01
36.13	0.00	5409.40	2.240	0.01
36.30	0.00	5409.40	2.240	0.01
36.47	0.00	5409.40	2.240	0.01
36.63	0.00	5409.40	2.240	0.01
36.79	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
36.96	0.00	5409.40	2.240	0.01
37.12	0.00	5409.40	2.240	0.01
37.29	0.00	5409.40	2.240	0.01
37.45	0.00	5409.40	2.240	0.01
37.62	0.00	5409.40	2.240	0.01
37.78	0.00	5409.40	2.240	0.01
37.95	0.00	5409.40	2.240	0.01
38.12	0.00	5409.40	2.240	0.01
38.28	0.00	5409.40	2.240	0.01
38.44	0.00	5409.40	2.240	0.01
38.61	0.00	5409.40	2.240	0.01
38.78	0.00	5409.40	2.240	0.01
38.94	0.00	5409.40	2.240	0.01
39.10	0.00	5409.40	2.240	0.01
39.27	0.00	5409.40	2.240	0.01
39.44	0.00	5409.40	2.240	0.01
39.60	0.00	5409.40	2.240	0.01

AHYMO.OUT

39.76	0.00	5409.40	2.240	0.01
39.93	0.00	5409.40	2.240	0.01
40.10	0.00	5409.40	2.240	0.01
40.26	0.00	5409.40	2.240	0.01
40.42	0.00	5409.40	2.240	0.01
40.59	0.00	5409.40	2.240	0.01
40.76	0.00	5409.40	2.240	0.01
40.92	0.00	5409.40	2.240	0.01
41.08	0.00	5409.40	2.240	0.01
41.25	0.00	5409.40	2.240	0.01
41.42	0.00	5409.40	2.240	0.01
41.58	0.00	5409.40	2.240	0.01
41.74	0.00	5409.40	2.240	0.01
41.91	0.00	5409.40	2.240	0.01
42.08	0.00	5409.40	2.240	0.01
42.24	0.00	5409.40	2.240	0.01
42.40	0.00	5409.40	2.240	0.01
42.57	0.00	5409.40	2.240	0.01
42.74	0.00	5409.40	2.240	0.01
42.90	0.00	5409.40	2.240	0.01
43.06	0.00	5409.40	2.240	0.01
43.23	0.00	5409.40	2.240	0.01
43.40	0.00	5409.40	2.240	0.01
43.56	0.00	5409.40	2.240	0.01
43.72	0.00	5409.40	2.240	0.01
43.89	0.00	5409.40	2.240	0.01
44.06	0.00	5409.40	2.240	0.01
44.22	0.00	5409.40	2.240	0.01
44.38	0.00	5409.40	2.240	0.01
44.55	0.00	5409.40	2.240	0.01
44.72	0.00	5409.40	2.240	0.01
44.88	0.00	5409.40	2.240	0.01
45.04	0.00	5409.40	2.240	0.01
45.21	0.00	5409.40	2.240	0.01
45.38	0.00	5409.40	2.240	0.01
45.54	0.00	5409.40	2.240	0.01
45.70	0.00	5409.40	2.240	0.01
45.87	0.00	5409.40	2.240	0.01
46.03	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
46.20	0.00	5409.40	2.240	0.01
46.36	0.00	5409.40	2.240	0.01
46.53	0.00	5409.40	2.240	0.01
46.69	0.00	5409.40	2.240	0.01
46.86	0.00	5409.40	2.240	0.01
47.03	0.00	5409.40	2.240	0.01
47.19	0.00	5409.40	2.240	0.01
47.35	0.00	5409.40	2.240	0.01

AHYMO.OUT

47.52	0.00	5409.40	2.240	0.01
47.69	0.00	5409.40	2.240	0.01
47.85	0.00	5409.40	2.240	0.01
48.01	0.00	5409.40	2.240	0.01
48.18	0.00	5409.40	2.240	0.01
48.35	0.00	5409.40	2.240	0.01
48.51	0.00	5409.40	2.240	0.01
48.67	0.00	5409.40	2.240	0.01
48.84	0.00	5409.40	2.240	0.01
49.01	0.00	5409.40	2.240	0.01
49.17	0.00	5409.40	2.240	0.01
49.33	0.00	5409.40	2.240	0.01
49.50	0.00	5409.40	2.240	0.01
49.67	0.00	5409.40	2.240	0.01
49.83	0.00	5409.40	2.240	0.01
49.99	0.00	5409.40	2.240	0.01
50.16	0.00	5409.40	2.240	0.01
50.33	0.00	5409.40	2.240	0.01
50.49	0.00	5409.40	2.240	0.01
50.65	0.00	5409.40	2.240	0.01
50.82	0.00	5409.40	2.240	0.01
50.99	0.00	5409.40	2.240	0.01
51.15	0.00	5409.40	2.240	0.01
51.31	0.00	5409.40	2.240	0.01
51.48	0.00	5409.40	2.240	0.01
51.65	0.00	5409.40	2.240	0.01
51.81	0.00	5409.40	2.240	0.01
51.97	0.00	5409.40	2.240	0.01
52.14	0.00	5409.40	2.240	0.01
52.31	0.00	5409.40	2.240	0.01
52.47	0.00	5409.40	2.240	0.01
52.63	0.00	5409.40	2.240	0.01
52.80	0.00	5409.40	2.240	0.01
52.97	0.00	5409.40	2.240	0.01
53.13	0.00	5409.40	2.240	0.01
53.29	0.00	5409.40	2.240	0.01
53.46	0.00	5409.40	2.240	0.01
53.62	0.00	5409.40	2.240	0.01
53.79	0.00	5409.40	2.240	0.01
53.95	0.00	5409.40	2.240	0.01
54.12	0.00	5409.40	2.240	0.01
54.28	0.00	5409.40	2.240	0.01
54.45	0.00	5409.40	2.240	0.01
54.61	0.00	5409.40	2.240	0.01
54.78	0.00	5409.40	2.240	0.01
54.94	0.00	5409.40	2.240	0.01
55.11	0.00	5409.40	2.240	0.01
55.28	0.00	5409.40	2.240	0.01

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

55.44	0.00	5409.40	2.240	0.01
55.60	0.00	5409.40	2.240	0.01
55.77	0.00	5409.40	2.240	0.01
55.94	0.00	5409.40	2.240	0.01
56.10	0.00	5409.40	2.240	0.01
56.26	0.00	5409.40	2.240	0.01
56.43	0.00	5409.40	2.240	0.01
56.60	0.00	5409.40	2.240	0.01
56.76	0.00	5409.40	2.240	0.01
56.92	0.00	5409.40	2.240	0.01
57.09	0.00	5409.40	2.240	0.01
57.26	0.00	5409.40	2.240	0.01
57.42	0.00	5409.40	2.240	0.01
57.58	0.00	5409.40	2.240	0.01
57.75	0.00	5409.40	2.240	0.01
57.92	0.00	5409.40	2.240	0.01
58.08	0.00	5409.40	2.240	0.01
58.24	0.00	5409.40	2.240	0.01
58.41	0.00	5409.40	2.240	0.01
58.58	0.00	5409.40	2.240	0.01
58.74	0.00	5409.40	2.240	0.01
58.90	0.00	5409.40	2.240	0.01
59.07	0.00	5409.40	2.240	0.01
59.24	0.00	5409.40	2.240	0.01
59.40	0.00	5409.40	2.240	0.01
59.56	0.00	5409.40	2.240	0.01
59.73	0.00	5409.40	2.240	0.01
59.90	0.00	5409.40	2.240	0.01
60.06	0.00	5409.40	2.240	0.01
60.22	0.00	5409.40	2.240	0.01
60.39	0.00	5409.40	2.240	0.01
60.56	0.00	5409.40	2.240	0.01
60.72	0.00	5409.40	2.240	0.01
60.88	0.00	5409.40	2.240	0.01
61.05	0.00	5409.40	2.240	0.01
61.22	0.00	5409.40	2.240	0.01
61.38	0.00	5409.40	2.240	0.01
61.54	0.00	5409.40	2.240	0.01
61.71	0.00	5409.40	2.240	0.01
61.88	0.00	5409.40	2.240	0.01
62.04	0.00	5409.40	2.240	0.01
62.20	0.00	5409.40	2.240	0.01
62.37	0.00	5409.40	2.240	0.01
62.53	0.00	5409.40	2.240	0.01
62.70	0.00	5409.40	2.240	0.01
62.86	0.00	5409.40	2.240	0.01
63.03	0.00	5409.40	2.240	0.01
63.19	0.00	5409.40	2.240	0.01
63.36	0.00	5409.40	2.240	0.01
63.53	0.00	5409.40	2.240	0.01

			AHYMO.OUT	
63.69	0.00	5409.40	2.240	0.01
63.85	0.00	5409.40	2.240	0.01
64.02	0.00	5409.40	2.240	0.01
64.18	0.00	5409.40	2.240	0.01
64.35	0.00	5409.40	2.240	0.01
64.51	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
64.68	0.00	5409.40	2.240	0.01
64.85	0.00	5409.40	2.240	0.01
65.01	0.00	5409.40	2.240	0.01
65.18	0.00	5409.40	2.240	0.01
65.34	0.00	5409.40	2.240	0.01
65.50	0.00	5409.40	2.240	0.01
65.67	0.00	5409.40	2.240	0.01
65.83	0.00	5409.40	2.240	0.01
66.00	0.00	5409.40	2.240	0.01
66.17	0.00	5409.40	2.240	0.01
66.33	0.00	5409.40	2.240	0.01
66.50	0.00	5409.40	2.240	0.01
66.66	0.00	5409.40	2.240	0.01
66.82	0.00	5409.40	2.240	0.01
66.99	0.00	5409.40	2.240	0.01
67.15	0.00	5409.40	2.240	0.01
67.32	0.00	5409.40	2.240	0.01
67.49	0.00	5409.40	2.240	0.01
67.65	0.00	5409.40	2.240	0.01
67.82	0.00	5409.40	2.240	0.01
67.98	0.00	5409.40	2.240	0.01
68.14	0.00	5409.40	2.240	0.01
68.31	0.00	5409.40	2.240	0.01
68.47	0.00	5409.40	2.240	0.01
68.64	0.00	5409.40	2.240	0.01
68.81	0.00	5409.40	2.240	0.01
68.97	0.00	5409.40	2.240	0.01
69.14	0.00	5409.40	2.240	0.01
69.30	0.00	5409.40	2.240	0.01
69.46	0.00	5409.40	2.240	0.01
69.63	0.00	5409.40	2.240	0.01
69.79	0.00	5409.40	2.240	0.01
69.96	0.00	5409.40	2.240	0.01
70.12	0.00	5409.40	2.240	0.01
70.29	0.00	5409.40	2.240	0.01
70.46	0.00	5409.40	2.240	0.01
70.62	0.00	5409.40	2.240	0.01
70.78	0.00	5409.40	2.240	0.01
70.95	0.00	5409.40	2.240	0.01
71.11	0.00	5409.40	2.240	0.01
71.28	0.00	5409.40	2.240	0.01

AHYMO.OUT

71.44	0.00	5409.40	2.240	0.01
71.61	0.00	5409.40	2.240	0.01
71.78	0.00	5409.40	2.240	0.01
71.94	0.00	5409.40	2.240	0.01
72.11	0.00	5409.40	2.240	0.01
72.27	0.00	5409.40	2.240	0.01
72.43	0.00	5409.40	2.240	0.01
72.60	0.00	5409.40	2.240	0.01
72.76	0.00	5409.40	2.240	0.01
72.93	0.00	5409.40	2.240	0.01
73.10	0.00	5409.40	2.240	0.01
73.26	0.00	5409.40	2.240	0.01
73.43	0.00	5409.40	2.240	0.01
73.59	0.00	5409.40	2.240	0.01
73.75	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
73.92	0.00	5409.40	2.240	0.01
74.08	0.00	5409.40	2.240	0.01
74.25	0.00	5409.40	2.240	0.01
74.42	0.00	5409.40	2.240	0.01
74.58	0.00	5409.40	2.240	0.01
74.75	0.00	5409.40	2.240	0.01
74.91	0.00	5409.40	2.240	0.01
75.07	0.00	5409.40	2.240	0.01
75.24	0.00	5409.40	2.240	0.01
75.40	0.00	5409.40	2.240	0.01
75.57	0.00	5409.40	2.240	0.01
75.74	0.00	5409.40	2.240	0.01
75.90	0.00	5409.40	2.240	0.01
76.07	0.00	5409.40	2.240	0.01
76.23	0.00	5409.40	2.240	0.01
76.39	0.00	5409.40	2.240	0.01
76.56	0.00	5409.40	2.240	0.01
76.72	0.00	5409.40	2.240	0.01
76.89	0.00	5409.40	2.240	0.01
77.06	0.00	5409.40	2.240	0.01
77.22	0.00	5409.40	2.240	0.01
77.39	0.00	5409.40	2.240	0.01
77.55	0.00	5409.40	2.240	0.01
77.71	0.00	5409.40	2.240	0.01
77.88	0.00	5409.40	2.240	0.01
78.04	0.00	5409.40	2.240	0.01
78.21	0.00	5409.40	2.240	0.01
78.38	0.00	5409.40	2.240	0.01
78.54	0.00	5409.40	2.240	0.01
78.71	0.00	5409.40	2.240	0.01
78.87	0.00	5409.40	2.240	0.01
79.03	0.00	5409.40	2.240	0.01

AHYMO.OUT

79.20	0.00	5409.40	2.240	0.01
79.36	0.00	5409.40	2.240	0.01
79.53	0.00	5409.40	2.240	0.01
79.69	0.00	5409.40	2.240	0.01
79.86	0.00	5409.40	2.240	0.01
80.03	0.00	5409.40	2.240	0.01
80.19	0.00	5409.40	2.240	0.01
80.36	0.00	5409.40	2.240	0.01
80.52	0.00	5409.40	2.240	0.01
80.68	0.00	5409.40	2.240	0.01
80.85	0.00	5409.40	2.240	0.01
81.01	0.00	5409.40	2.240	0.01
81.18	0.00	5409.40	2.240	0.01
81.35	0.00	5409.40	2.240	0.01
81.51	0.00	5409.40	2.240	0.01
81.68	0.00	5409.40	2.240	0.01
81.84	0.00	5409.40	2.240	0.01
82.00	0.00	5409.40	2.240	0.01
82.17	0.00	5409.40	2.240	0.01
82.33	0.00	5409.40	2.240	0.01
82.50	0.00	5409.40	2.240	0.01
82.67	0.00	5409.40	2.240	0.01
82.83	0.00	5409.40	2.240	0.01
83.00	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
83.16	0.00	5409.40	2.240	0.01
83.32	0.00	5409.40	2.240	0.01
83.49	0.00	5409.40	2.240	0.01
83.65	0.00	5409.40	2.240	0.01
83.82	0.00	5409.40	2.240	0.01
83.99	0.00	5409.40	2.240	0.01
84.15	0.00	5409.40	2.240	0.01
84.32	0.00	5409.40	2.240	0.01
84.48	0.00	5409.40	2.240	0.01
84.64	0.00	5409.40	2.240	0.01
84.81	0.00	5409.40	2.240	0.01
84.97	0.00	5409.40	2.240	0.01
85.14	0.00	5409.40	2.240	0.01
85.31	0.00	5409.40	2.240	0.01
85.47	0.00	5409.40	2.240	0.01
85.64	0.00	5409.40	2.240	0.01
85.80	0.00	5409.40	2.240	0.01
85.96	0.00	5409.40	2.240	0.01
86.13	0.00	5409.40	2.240	0.01
86.29	0.00	5409.40	2.240	0.01
86.46	0.00	5409.40	2.240	0.01
86.62	0.00	5409.40	2.240	0.01
86.79	0.00	5409.40	2.240	0.01

AHYMO.OUT

86.96	0.00	5409.40	2.240	0.01
87.12	0.00	5409.40	2.240	0.01
87.28	0.00	5409.40	2.240	0.01
87.45	0.00	5409.40	2.240	0.01
87.61	0.00	5409.40	2.240	0.01
87.78	0.00	5409.40	2.240	0.01
87.94	0.00	5409.40	2.240	0.01
88.11	0.00	5409.40	2.240	0.01
88.28	0.00	5409.40	2.240	0.01
88.44	0.00	5409.40	2.240	0.01
88.60	0.00	5409.40	2.240	0.01
88.77	0.00	5409.40	2.240	0.01
88.93	0.00	5409.40	2.240	0.01
89.10	0.00	5409.40	2.240	0.01
89.26	0.00	5409.40	2.240	0.01
89.43	0.00	5409.40	2.240	0.01
89.60	0.00	5409.40	2.240	0.01
89.76	0.00	5409.40	2.240	0.01
89.93	0.00	5409.40	2.240	0.01
90.09	0.00	5409.40	2.240	0.01
90.25	0.00	5409.40	2.240	0.01
90.42	0.00	5409.40	2.240	0.01
90.58	0.00	5409.40	2.240	0.01
90.75	0.00	5409.40	2.240	0.01
90.92	0.00	5409.40	2.240	0.01
91.08	0.00	5409.40	2.240	0.01
91.25	0.00	5409.40	2.240	0.01
91.41	0.00	5409.40	2.240	0.01
91.57	0.00	5409.40	2.240	0.01
91.74	0.00	5409.40	2.240	0.01
91.90	0.00	5409.40	2.240	0.01
92.07	0.00	5409.40	2.240	0.01
92.24	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
92.40	0.00	5409.40	2.240	0.01
92.57	0.00	5409.40	2.240	0.01
92.73	0.00	5409.40	2.240	0.01
92.89	0.00	5409.40	2.240	0.01
93.06	0.00	5409.40	2.240	0.01
93.22	0.00	5409.40	2.240	0.01
93.39	0.00	5409.40	2.240	0.01
93.56	0.00	5409.40	2.240	0.01
93.72	0.00	5409.40	2.240	0.01
93.89	0.00	5409.40	2.240	0.01
94.05	0.00	5409.40	2.240	0.01
94.21	0.00	5409.40	2.240	0.01
94.38	0.00	5409.40	2.240	0.01
94.54	0.00	5409.40	2.240	0.01

AHYMO.OUT

94.71	0.00	5409.40	2.240	0.01
94.88	0.00	5409.40	2.240	0.01
95.04	0.00	5409.40	2.240	0.01
95.21	0.00	5409.40	2.240	0.01
95.37	0.00	5409.40	2.240	0.01
95.53	0.00	5409.40	2.240	0.01
95.70	0.00	5409.40	2.240	0.01
95.86	0.00	5409.40	2.240	0.01
96.03	0.00	5409.40	2.240	0.01
96.19	0.00	5409.40	2.240	0.01
96.36	0.00	5409.40	2.240	0.01
96.53	0.00	5409.40	2.240	0.01
96.69	0.00	5409.40	2.240	0.01
96.85	0.00	5409.40	2.240	0.01
97.02	0.00	5409.40	2.240	0.01
97.18	0.00	5409.40	2.240	0.01
97.35	0.00	5409.40	2.240	0.01
97.51	0.00	5409.40	2.240	0.01
97.68	0.00	5409.40	2.240	0.01
97.85	0.00	5409.40	2.240	0.01
98.01	0.00	5409.40	2.240	0.01
98.18	0.00	5409.40	2.240	0.01
98.34	0.00	5409.40	2.240	0.01
98.50	0.00	5409.40	2.240	0.01
98.67	0.00	5409.40	2.240	0.01
98.83	0.00	5409.40	2.240	0.01
99.00	0.00	5409.40	2.240	0.01
99.17	0.00	5409.40	2.240	0.01
99.33	0.00	5409.40	2.240	0.01
99.50	0.00	5409.40	2.240	0.01
99.66	0.00	5409.40	2.240	0.01
99.82	0.00	5409.40	2.240	0.01
99.99	0.00	5409.40	2.240	0.01
100.15	0.00	5409.40	2.240	0.01
100.32	0.00	5409.40	2.240	0.01
100.49	0.00	5409.40	2.240	0.01
100.65	0.00	5409.40	2.240	0.01
100.82	0.00	5409.40	2.240	0.01
100.98	0.00	5409.40	2.240	0.01
101.14	0.00	5409.40	2.240	0.01
101.31	0.00	5409.40	2.240	0.01
101.47	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
101.64	0.00	5409.40	2.240	0.01
101.81	0.00	5409.40	2.240	0.01
101.97	0.00	5409.40	2.240	0.01
102.14	0.00	5409.40	2.240	0.01
102.30	0.00	5409.40	2.240	0.01

AHYMO.OUT

102.46	0.00	5409.40	2.240	0.01
102.63	0.00	5409.40	2.240	0.01
102.79	0.00	5409.40	2.240	0.01
102.96	0.00	5409.40	2.240	0.01
103.12	0.00	5409.40	2.240	0.01
103.29	0.00	5409.40	2.240	0.01
103.46	0.00	5409.40	2.240	0.01
103.62	0.00	5409.40	2.240	0.01
103.78	0.00	5409.40	2.240	0.01
103.95	0.00	5409.40	2.240	0.01
104.11	0.00	5409.40	2.240	0.01
104.28	0.00	5409.40	2.240	0.01
104.44	0.00	5409.40	2.240	0.01
104.61	0.00	5409.40	2.240	0.01
104.78	0.00	5409.40	2.240	0.01
104.94	0.00	5409.40	2.240	0.01
105.10	0.00	5409.40	2.240	0.01
105.27	0.00	5409.40	2.240	0.01
105.43	0.00	5409.40	2.240	0.01
105.60	0.00	5409.40	2.240	0.01
105.76	0.00	5409.40	2.240	0.01
105.93	0.00	5409.40	2.240	0.01
106.10	0.00	5409.40	2.240	0.01
106.26	0.00	5409.40	2.240	0.01
106.43	0.00	5409.40	2.240	0.01
106.59	0.00	5409.40	2.240	0.01
106.75	0.00	5409.40	2.240	0.01
106.92	0.00	5409.40	2.240	0.01
107.08	0.00	5409.40	2.240	0.01
107.25	0.00	5409.40	2.240	0.01
107.42	0.00	5409.40	2.240	0.01
107.58	0.00	5409.40	2.240	0.01
107.75	0.00	5409.40	2.240	0.01
107.91	0.00	5409.40	2.240	0.01
108.07	0.00	5409.40	2.240	0.01
108.24	0.00	5409.40	2.240	0.01
108.40	0.00	5409.40	2.240	0.01
108.57	0.00	5409.40	2.240	0.01
108.74	0.00	5409.40	2.240	0.01
108.90	0.00	5409.40	2.240	0.01
109.07	0.00	5409.40	2.240	0.01
109.23	0.00	5409.40	2.240	0.01
109.39	0.00	5409.40	2.240	0.01
109.56	0.00	5409.40	2.240	0.01
109.72	0.00	5409.40	2.240	0.01
109.89	0.00	5409.40	2.240	0.01
110.06	0.00	5409.40	2.240	0.01
110.22	0.00	5409.40	2.240	0.01
110.39	0.00	5409.40	2.240	0.01
110.55	0.00	5409.40	2.240	0.01
110.71	0.00	5409.40	2.240	0.01

AHYMO.OUT

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
110.88	0.00	5409.40	2.240	0.01
111.04	0.00	5409.40	2.240	0.01
111.21	0.00	5409.40	2.240	0.01
111.38	0.00	5409.40	2.240	0.01
111.54	0.00	5409.40	2.240	0.01
111.71	0.00	5409.40	2.240	0.01
111.87	0.00	5409.40	2.240	0.01
112.03	0.00	5409.40	2.240	0.01
112.20	0.00	5409.40	2.240	0.01
112.36	0.00	5409.40	2.240	0.01
112.53	0.00	5409.40	2.240	0.01
112.69	0.00	5409.40	2.240	0.01
112.86	0.00	5409.40	2.240	0.01
113.03	0.00	5409.40	2.240	0.01
113.19	0.00	5409.40	2.240	0.01
113.35	0.00	5409.40	2.240	0.01
113.52	0.00	5409.40	2.240	0.01
113.68	0.00	5409.40	2.240	0.01
113.85	0.00	5409.40	2.240	0.01
114.01	0.00	5409.40	2.240	0.01
114.18	0.00	5409.40	2.240	0.01
114.35	0.00	5409.40	2.240	0.01
114.51	0.00	5409.40	2.240	0.01
114.68	0.00	5409.40	2.240	0.01
114.84	0.00	5409.40	2.240	0.01
115.00	0.00	5409.40	2.240	0.01
115.17	0.00	5409.40	2.240	0.01
115.33	0.00	5409.40	2.240	0.01
115.50	0.00	5409.40	2.240	0.01
115.67	0.00	5409.40	2.240	0.01
115.83	0.00	5409.40	2.240	0.01
116.00	0.00	5409.40	2.240	0.01
116.16	0.00	5409.40	2.240	0.01
116.32	0.00	5409.40	2.240	0.01
116.49	0.00	5409.40	2.240	0.01
116.65	0.00	5409.40	2.240	0.01
116.82	0.00	5409.40	2.240	0.01
116.99	0.00	5409.40	2.240	0.01
117.15	0.00	5409.40	2.240	0.01
117.32	0.00	5409.40	2.240	0.01
117.48	0.00	5409.40	2.240	0.01
117.64	0.00	5409.40	2.240	0.01
117.81	0.00	5409.40	2.240	0.01
117.97	0.00	5409.40	2.240	0.01
118.14	0.00	5409.40	2.240	0.01
118.31	0.00	5409.40	2.240	0.01
118.47	0.00	5409.40	2.240	0.01

			AHYMO.OUT	
118.64	0.00	5409.40	2.240	0.01
118.80	0.00	5409.40	2.240	0.01
118.96	0.00	5409.40	2.240	0.01
119.13	0.00	5409.40	2.240	0.01
119.29	0.00	5409.40	2.240	0.01
119.46	0.00	5409.40	2.240	0.01
119.62	0.00	5409.40	2.240	0.01
119.79	0.00	5409.40	2.240	0.01
119.96	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
120.12	0.00	5409.40	2.240	0.01
120.28	0.00	5409.40	2.240	0.01
120.45	0.00	5409.40	2.240	0.01
120.61	0.00	5409.40	2.240	0.01
120.78	0.00	5409.40	2.240	0.01
120.94	0.00	5409.40	2.240	0.01
121.11	0.00	5409.40	2.240	0.01
121.28	0.00	5409.40	2.240	0.01
121.44	0.00	5409.40	2.240	0.01
121.60	0.00	5409.40	2.240	0.01
121.77	0.00	5409.40	2.240	0.01
121.93	0.00	5409.40	2.240	0.01
122.10	0.00	5409.40	2.240	0.01
122.26	0.00	5409.40	2.240	0.01
122.43	0.00	5409.40	2.240	0.01
122.60	0.00	5409.40	2.240	0.01
122.76	0.00	5409.40	2.240	0.01
122.93	0.00	5409.40	2.240	0.01
123.09	0.00	5409.40	2.240	0.01
123.25	0.00	5409.40	2.240	0.01
123.42	0.00	5409.40	2.240	0.01
123.58	0.00	5409.40	2.240	0.01
123.75	0.00	5409.40	2.240	0.01
123.92	0.00	5409.40	2.240	0.01
124.08	0.00	5409.40	2.240	0.01
124.25	0.00	5409.40	2.240	0.01
124.41	0.00	5409.40	2.240	0.01
124.57	0.00	5409.40	2.240	0.01
124.74	0.00	5409.40	2.240	0.01
124.90	0.00	5409.40	2.240	0.01
125.07	0.00	5409.40	2.240	0.01
125.24	0.00	5409.40	2.240	0.01
125.40	0.00	5409.40	2.240	0.01
125.57	0.00	5409.40	2.240	0.01
125.73	0.00	5409.40	2.240	0.01
125.89	0.00	5409.40	2.240	0.01
126.06	0.00	5409.40	2.240	0.01
126.22	0.00	5409.40	2.240	0.01

			AHYMO.OUT	
126.39	0.00	5409.40	2.240	0.01
126.56	0.00	5409.40	2.240	0.01
126.72	0.00	5409.40	2.240	0.01
126.89	0.00	5409.40	2.240	0.01
127.05	0.00	5409.40	2.240	0.01
127.21	0.00	5409.40	2.240	0.01
127.38	0.00	5409.40	2.240	0.01
127.54	0.00	5409.40	2.240	0.01
127.71	0.00	5409.40	2.240	0.01
127.88	0.00	5409.40	2.240	0.01
128.04	0.00	5409.40	2.240	0.01
128.21	0.00	5409.40	2.240	0.01
128.37	0.00	5409.40	2.240	0.01
128.54	0.00	5409.40	2.240	0.01
128.70	0.00	5409.40	2.240	0.01
128.87	0.00	5409.40	2.240	0.01
129.03	0.00	5409.40	2.240	0.01
129.19	0.00	5409.40	2.240	0.01

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
129.36	0.00	5409.40	2.240	0.01
129.52	0.00	5409.40	2.240	0.01
129.69	0.00	5409.40	2.240	0.01
129.85	0.00	5409.40	2.240	0.01
130.02	0.00	5409.40	2.240	0.01
130.18	0.00	5409.40	2.240	0.01
130.35	0.00	5409.40	2.240	0.01
130.51	0.00	5409.40	2.240	0.01
130.68	0.00	5409.40	2.240	0.01
130.85	0.00	5409.40	2.240	0.01
131.01	0.00	5409.40	2.240	0.01
131.18	0.00	5409.40	2.240	0.01
131.34	0.00	5409.40	2.240	0.01
131.51	0.00	5409.40	2.240	0.01
131.67	0.00	5409.40	2.240	0.01
131.84	0.00	5409.40	2.240	0.01

PEAK DISCHARGE = 0.010 CFS - PEAK OCCURS AT HOUR 1.42
 MAXIMUM WATER SURFACE ELEVATION = 5409.400
 MAXIMUM STORAGE = 2.2400 AC-FT INCREMENTAL TIME=
 0.033000HRS

*

PRINT HYD

ID=50 CODE=10

HYDROGRAPH FROM AREA POND.A

		AHYMO.OUT			
TIME	FLOW	TIME	FLOW	TIME	FLOW
TIME	FLOW	TIME	FLOW		
HRS	CFS	HRS	CFS	HRS	CFS
HRS	CFS	HRS	CFS		
0.000	0.0	26.400	0.0	52.800	0.0
79.200	0.0	105.600	0.0		
0.330	0.0	26.730	0.0	53.130	0.0
79.530	0.0	105.930	0.0		
0.660	0.0	27.060	0.0	53.460	0.0
79.860	0.0	106.260	0.0		
0.990	0.0	27.390	0.0	53.790	0.0
80.190	0.0	106.590	0.0		
1.320	0.0	27.720	0.0	54.120	0.0
80.520	0.0	106.920	0.0		
1.650	0.0	28.050	0.0	54.450	0.0
80.850	0.0	107.250	0.0		
1.980	0.0	28.380	0.0	54.780	0.0
81.180	0.0	107.580	0.0		
2.310	0.0	28.710	0.0	55.110	0.0
81.510	0.0	107.910	0.0		
2.640	0.0	29.040	0.0	55.440	0.0
81.840	0.0	108.240	0.0		
2.970	0.0	29.370	0.0	55.770	0.0
82.170	0.0	108.570	0.0		
3.300	0.0	29.700	0.0	56.100	0.0
82.500	0.0	108.900	0.0		
3.630	0.0	30.030	0.0	56.430	0.0
82.830	0.0	109.230	0.0		
3.960	0.0	30.360	0.0	56.760	0.0
83.160	0.0	109.560	0.0		
4.290	0.0	30.690	0.0	57.090	0.0
83.490	0.0	109.890	0.0		
4.620	0.0	31.020	0.0	57.420	0.0
83.820	0.0	110.220	0.0		
4.950	0.0	31.350	0.0	57.750	0.0
84.150	0.0	110.550	0.0		
5.280	0.0	31.680	0.0	58.080	0.0
84.480	0.0	110.880	0.0		
5.610	0.0	32.010	0.0	58.410	0.0
84.810	0.0	111.210	0.0		
5.940	0.0	32.340	0.0	58.740	0.0
85.140	0.0	111.540	0.0		
6.270	0.0	32.670	0.0	59.070	0.0
85.470	0.0	111.870	0.0		
6.600	0.0	33.000	0.0	59.400	0.0
85.800	0.0	112.200	0.0		
6.930	0.0	33.330	0.0	59.730	0.0
86.130	0.0	112.530	0.0		
7.260	0.0	33.660	0.0	60.060	0.0
86.460	0.0	112.860	0.0		
7.590	0.0	33.990	0.0	60.390	0.0

AHYMO.OUT					
86.790	0.0	113.190	0.0		
7.920	0.0	34.320	0.0	60.720	0.0
87.120	0.0	113.520	0.0		
8.250	0.0	34.650	0.0	61.050	0.0
87.450	0.0	113.850	0.0		
8.580	0.0	34.980	0.0	61.380	0.0
87.780	0.0	114.180	0.0		
8.910	0.0	35.310	0.0	61.710	0.0
88.110	0.0	114.510	0.0		
9.240	0.0	35.640	0.0	62.040	0.0
88.440	0.0	114.840	0.0		
9.570	0.0	35.970	0.0	62.370	0.0
88.770	0.0	115.170	0.0		
9.900	0.0	36.300	0.0	62.700	0.0
89.100	0.0	115.500	0.0		
10.230	0.0	36.630	0.0	63.030	0.0
89.430	0.0	115.830	0.0		
10.560	0.0	36.960	0.0	63.360	0.0
89.760	0.0	116.160	0.0		
10.890	0.0	37.290	0.0	63.690	0.0
90.090	0.0	116.490	0.0		
11.220	0.0	37.620	0.0	64.020	0.0
90.420	0.0	116.820	0.0		
11.550	0.0	37.950	0.0	64.350	0.0
90.750	0.0	117.150	0.0		
11.880	0.0	38.280	0.0	64.680	0.0
91.080	0.0	117.480	0.0		
12.210	0.0	38.610	0.0	65.010	0.0
91.410	0.0	117.810	0.0		
12.540	0.0	38.940	0.0	65.340	0.0
91.740	0.0	118.140	0.0		
12.870	0.0	39.270	0.0	65.670	0.0
92.070	0.0	118.470	0.0		
13.200	0.0	39.600	0.0	66.000	0.0
92.400	0.0	118.800	0.0		
13.530	0.0	39.930	0.0	66.330	0.0
92.730	0.0	119.130	0.0		
13.860	0.0	40.260	0.0	66.660	0.0
93.060	0.0	119.460	0.0		
14.190	0.0	40.590	0.0	66.990	0.0
93.390	0.0	119.790	0.0		
14.520	0.0	40.920	0.0	67.320	0.0
93.720	0.0	120.120	0.0		
14.850	0.0	41.250	0.0	67.650	0.0
94.050	0.0	120.450	0.0		
15.180	0.0	41.580	0.0	67.980	0.0
94.380	0.0	120.780	0.0		
15.510	0.0	41.910	0.0	68.310	0.0
94.710	0.0	121.110	0.0		
15.840	0.0	42.240	0.0	68.640	0.0
95.040	0.0	121.440	0.0		

AHYMO.OUT					
16.170	0.0	42.570	0.0	68.970	0.0
95.370	0.0	121.770	0.0		
16.500	0.0	42.900	0.0	69.300	0.0
95.700	0.0	122.100	0.0		
16.830	0.0	43.230	0.0	69.630	0.0
96.030	0.0	122.430	0.0		
17.160	0.0	43.560	0.0	69.960	0.0
96.360	0.0	122.760	0.0		
17.490	0.0	43.890	0.0	70.290	0.0
96.690	0.0	123.090	0.0		
17.820	0.0	44.220	0.0	70.620	0.0
97.020	0.0	123.421	0.0		
18.150	0.0	44.550	0.0	70.950	0.0
97.350	0.0	123.751	0.0		
18.480	0.0	44.880	0.0	71.280	0.0
97.680	0.0	124.081	0.0		
18.810	0.0	45.210	0.0	71.610	0.0
98.010	0.0	124.411	0.0		
19.140	0.0	45.540	0.0	71.940	0.0
98.340	0.0	124.741	0.0		
19.470	0.0	45.870	0.0	72.270	0.0
98.670	0.0	125.071	0.0		
19.800	0.0	46.200	0.0	72.600	0.0
99.000	0.0	125.401	0.0		
20.130	0.0	46.530	0.0	72.930	0.0
99.330	0.0	125.731	0.0		
20.460	0.0	46.860	0.0	73.260	0.0
99.660	0.0	126.061	0.0		
20.790	0.0	47.190	0.0	73.590	0.0
99.990	0.0	126.391	0.0		
21.120	0.0	47.520	0.0	73.920	0.0
100.320	0.0	126.721	0.0		
21.450	0.0	47.850	0.0	74.250	0.0
100.650	0.0	127.051	0.0		
21.780	0.0	48.180	0.0	74.580	0.0
100.980	0.0	127.381	0.0		
22.110	0.0	48.510	0.0	74.910	0.0
101.310	0.0	127.711	0.0		
22.440	0.0	48.840	0.0	75.240	0.0
101.640	0.0	128.041	0.0		
22.770	0.0	49.170	0.0	75.570	0.0
101.970	0.0	128.371	0.0		
23.100	0.0	49.500	0.0	75.900	0.0
102.300	0.0	128.701	0.0		
23.430	0.0	49.830	0.0	76.230	0.0
102.630	0.0	129.031	0.0		
23.760	0.0	50.160	0.0	76.560	0.0
102.960	0.0	129.361	0.0		
24.090	0.0	50.490	0.0	76.890	0.0
103.290	0.0	129.691	0.0		
24.420	0.0	50.820	0.0	77.220	0.0

AHYMO.OUT					
103.620	0.0	130.021	0.0		
24.750	0.0	51.150	0.0	77.550	0.0
103.950	0.0	130.351	0.0		
25.080	0.0	51.480	0.0	77.880	0.0
104.280	0.0	130.681	0.0		
25.410	0.0	51.810	0.0	78.210	0.0
104.610	0.0	131.011	0.0		
25.740	0.0	52.140	0.0	78.540	0.0
104.940	0.0	131.341	0.0		
26.070	0.0	52.470	0.0	78.870	0.0
105.270	0.0	131.671	0.0		

RUNOFF VOLUME = 0.04872 INCHES = 0.1080 ACRE-FeET
 PEAK DISCHARGE RATE = 0.01 CFS AT 1.419 HOURS BASIN AREA =
 0.0416 SQ. MI.

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 10:12:21

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=13									RAIN24= 1.680
*S EXISTING CONDITIONS										
*S COMPUTE HYD EXISTING BASIN A										
COMPUTE NM HYD	101.00	-	1	0.00804	0.80	0.022	0.05116	1.518	0.155	PER IMP= 0.00
*S COMPUTE HYD EXISTING BASIN B										
COMPUTE NM HYD	102.00	-	2	0.01428	1.42	0.039	0.05116	1.518	0.155	PER IMP= 0.00
*S COMPUTE HYD EXISTING BASIN C										
COMPUTE NM HYD	103.00	-	3	0.03350	3.32	0.091	0.05116	1.518	0.155	PER IMP= 0.00
ADD HYD	101TO102	1& 2	4	0.02232	2.22	0.061	0.05112	1.518	0.155	
ADD HYD	COMBINED101-	3& 4	5	0.05582	5.54	0.152	0.05114	1.518	0.155	
*S PROPOSED CONDITIONS										
*S COMPUTE HYD PROPOSED BASIN A										
COMPUTE NM HYD	104.00	-	6	0.00923	12.75	0.590	1.19784	1.485	2.158	PER IMP= 80.00
*S COMPUTE HYD PROPOSED BASIN B										
COMPUTE NM HYD	105.00	-	7	0.00446	6.16	0.285	1.19784	1.485	2.159	PER IMP= 80.00
*S COMPUTE HYD PROPOSED BASIN C										
COMPUTE NM HYD	106.00	-	8	0.00609	8.41	0.389	1.19784	1.485	2.159	PER IMP= 80.00
ADD HYD	BTOA	6& 7	10	0.01369	18.91	0.875	1.19780	1.485	2.158	
ADD HYD	B-CTOA	8&10	11	0.01978	27.32	1.264	1.19779	1.485	2.158	
*S COMPUTE HYD PROPOSED BASIN D										
COMPUTE NM HYD	107.00	-	12	0.01503	3.70	0.152	0.18949	1.518	0.385	PER IMP= 10.00
*S COMPUTE HYD PROPOSED BASIN E										
COMPUTE NM HYD	108.00	-	13	0.00150	1.85	0.082	1.02035	1.485	1.926	PER IMP= 65.00
*S COMPUTE HYD PROPOSED BASIN F										
COMPUTE NM HYD	109.00	-	14	0.00054	0.38	0.011	0.36954	1.518	1.094	PER IMP= 10.00
ADD HYD	DTOF	12&14	15	0.01557	4.08	0.162	0.19474	1.518	0.410	
ADD HYD	ETOF-D	13&15	16	0.01707	5.93	0.243	0.26728	1.518	0.542	
*S COMPUTE HYD PROPOSED BASIN G										
COMPUTE NM HYD	110.00	-	17	0.00472	7.00	0.331	1.31617	1.485	2.319	PER IMP= 90.00
*S COMPUTE HYD PROPOSED BASIN H										
COMPUTE NM HYD	111.00	-	18	0.00107	1.59	0.075	1.31617	1.485	2.328	PER IMP= 90.00
*S COMPUTE HYD PROPOSED BASIN I										
COMPUTE NM HYD	112.00	-	19	0.00074	1.10	0.052	1.31617	1.485	2.332	PER IMP= 90.00
ADD HYD	HTOI	18&19	20	0.00181	2.70	0.127	1.31587	1.485	2.330	
ADD HYD	A-CTOG	11&17	21	0.02450	34.33	1.595	1.22059	1.485	2.189	
ADD HYD	D-FTOA-DTOG	16&21	22	0.04157	40.17	1.838	0.82913	1.485	1.510	
*S FUTURE CONDITIONS										
*S COMPUTE HYD FUTURE BASIN D-1										
COMPUTE NM HYD	113.00	-	23	0.00781	10.79	0.499	1.19784	1.485	2.158	PER IMP= 80.00
*S COMPUTE HYD FUTURE BASIN D-2										
COMPUTE NM HYD	114.00	-	24	0.00781	10.79	0.499	1.19784	1.485	2.158	PER IMP= 80.00
*S COMPUTE HYD FUTURE BASIN D-3										
COMPUTE NM HYD	115.00	-	25	0.00140	1.94	0.089	1.19784	1.485	2.165	PER IMP= 80.00
*S COMPUTE HYD FUTURE BASIN G-2										

AHYMO.SUM										
COMPUTE NM HYD	116.00	-	26	0.00235	3.49	0.165	1.31617	1.485	2.321	PER IMP= 90.00
ADD HYD	FULLROADWIDT	17&26	27	0.00707	10.50	0.496	1.31608	1.485	2.320	
ROUTE RESERVOIR	POND.A	22	50	0.04157	0.01	0.108	0.04872	1.419	0.000	AC-FT= 2.240
FINISH										



APPENDIX B

HYDRAULIC CALCULATIONS



Manning Formula: Proposed 24" SD Max Flow

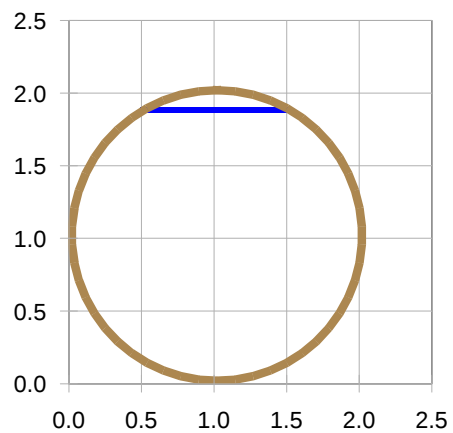
Circular Channel

Input

Flow	17.20 cfs
Slope	0.005 ft/ft
Manning's n	0.013
Diameter	24 in

Output

Depth	1.862 ft
Flow Area	3.05 sf
Velocity	5.65 fps
Velocity Head	0.495 ft
Top Width	1.01 ft
Froude Number	0.574
Critical Depth	1.495 ft
Critical Slope	0.00701 ft/ft



Manning Formula: Proposed 30" SD Max Flow

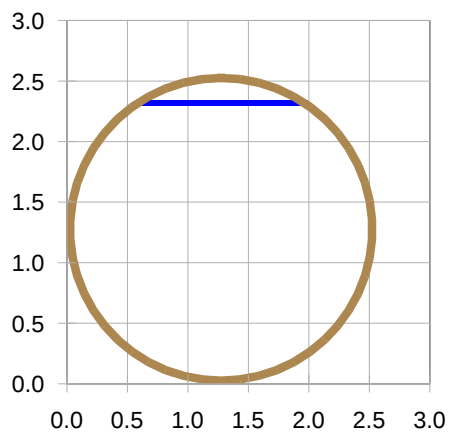
Circular Channel

Input

Flow	31.1 cfs
Slope	0.005 ft/ft
Manning's n	0.013
Diameter	30 in

Output

Depth	2.292 ft
Flow Area	4.71 sf
Velocity	6.60 fps
Velocity Head	0.677 ft
Top Width	1.38 ft
Froude Number	0.630
Critical Depth	1.900 ft
Critical Slope	0.00670 ft/ft



Manning Formula: Proposed 36" SD Max Flow

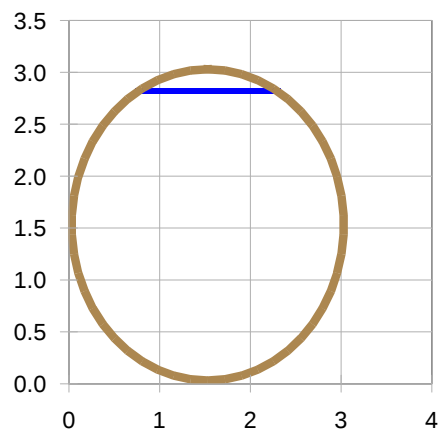
Circular Channel

Input

Flow	50.7 cfs
Slope	0.005 ft/ft
Manning's n	0.013
Diameter	36 in

Output

Depth	2.787 ft
Flow Area	6.85 sf
Velocity	7.41 fps
Velocity Head	0.852 ft
Top Width	1.54 ft
Froude Number	0.619
Critical Depth	2.317 ft
Critical Slope	0.00651 ft/ft



Manning Formula: Proposed 42" SD Max Flow

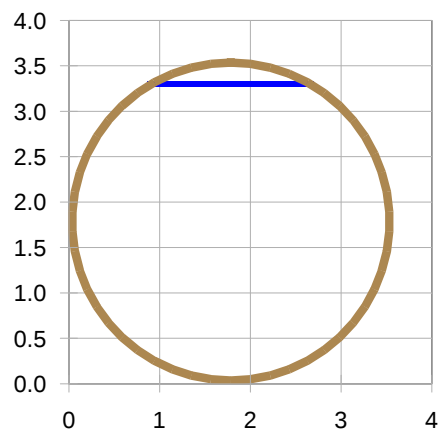
Circular Channel

Input

Flow	76.5 cfs
Slope	0.005 ft/ft
Manning's n	0.013
Diameter	42 in

Output

Depth	3.261 ft
Flow Area	9.34 sf
Velocity	8.19 fps
Velocity Head	1.04 ft
Top Width	1.77 ft
Froude Number	0.628
Critical Depth	2.737 ft
Critical Slope	0.00634 ft/ft



Manning Formula: Proposed 54" SD Max Flow

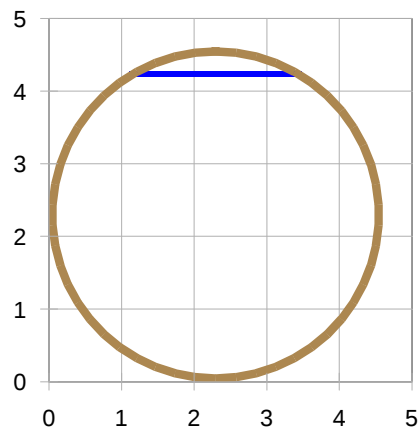
Circular Channel

Input

Flow	149.5 cfs
Slope	0.005 ft/ft
Manning's n	0.013
Diameter	54 in

Output

Depth	4.185 ft
Flow Area	15.4 sf
Velocity	9.70 fps
Velocity Head	1.46 ft
Top Width	2.30 ft
Froude Number	0.660
Critical Depth	3.588 ft
Critical Slope	0.00609 ft/ft



Manning Formula: Proposed 60" SD Max Flow

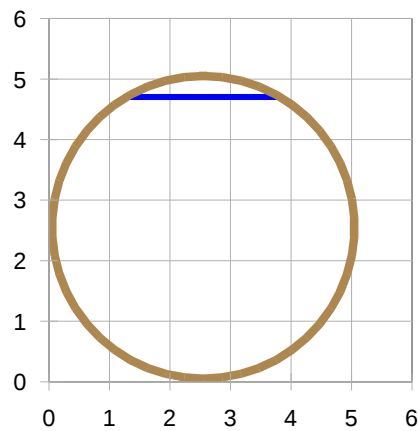
Circular Channel

Input

Flow	198.0 cfs
Slope	0.005 ft/ft
Manning's n	0.013
Diameter	60 in

Output

Depth	4.651 ft
Flow Area	19.0 sf
Velocity	10.4 fps
Velocity Head	1.68 ft
Top Width	2.55 ft
Froude Number	0.671
Critical Depth	4.019 ft
Critical Slope	0.00599 ft/ft



Basin A Type D Inlet Calculation

Orifice (Unknown Q)

Head Water Depth (h):	0.5	ft	User Enter Desired Value
Discharge Coeff. (C _d):	0.6		
Open Area (A):	4.6900	ft ²	
Gravity (g):	32.2	ft/s ²	
Flow (Q) = C · A · (2 · g · h) ^ (0.5)			
Flow (Q) =	16.0	cfs	

Weir (Unknown Q):

Discharge Coeff. (C _w):	3.367	
Length (L):	10.67	ft
Flow (Q) = C _w · L · h ^ (1.5)		
Flow (Q) =	12.7	cfs

GRATING CAPACITIES FOR TYPE "A", "C" AND "D"

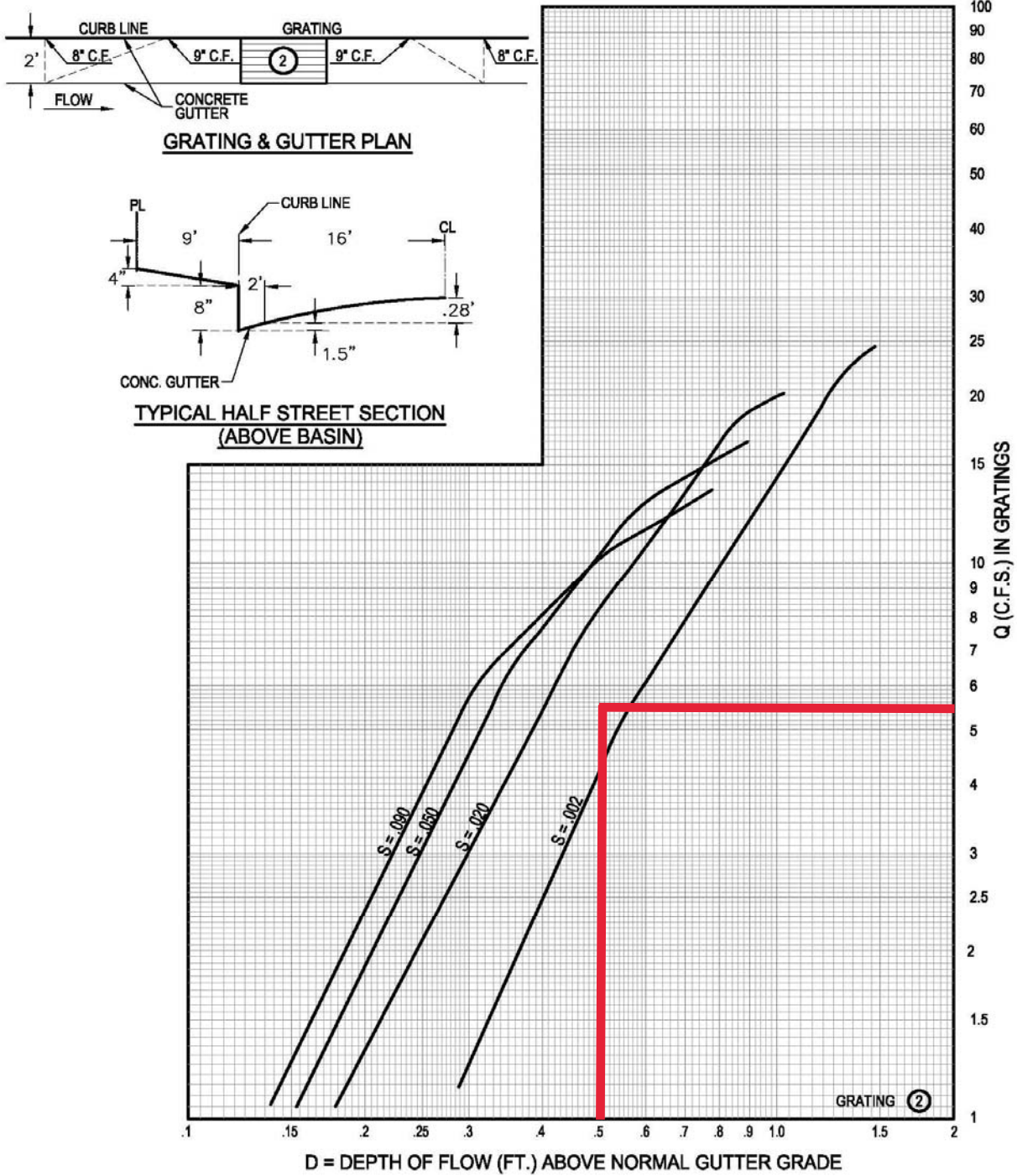


PLATE 22.3 D-5

GRATING CAPACITIES FOR TYPE "A", "C" AND "D"

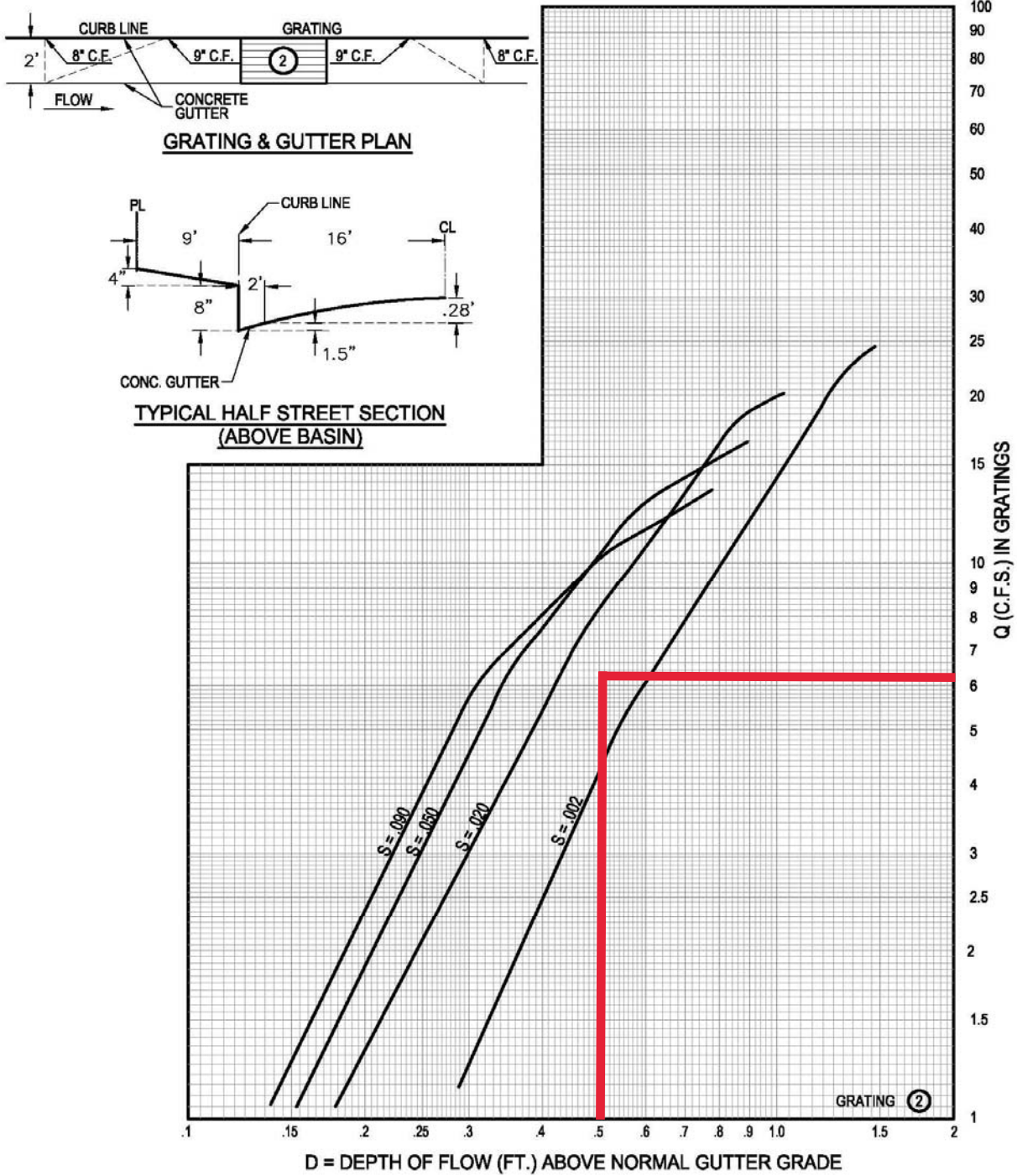
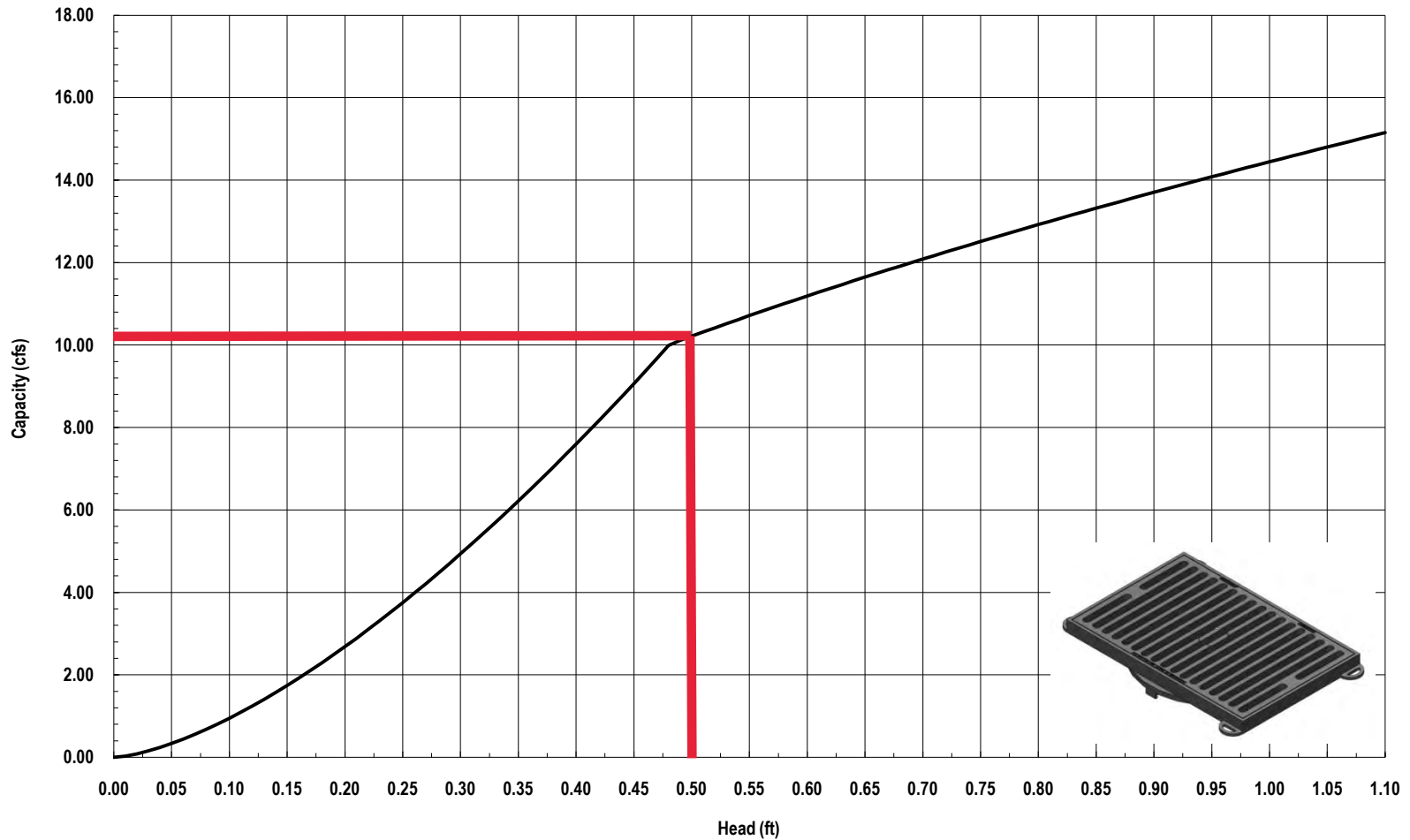


PLATE 22.3 D-5

Nyloplast 2' x 3' Road & Highway Grate Inlet Capacity Chart



Nyloplast[®]

3130 Verona Avenue • Buford, GA 30518
(866) 888-8479 / (770) 932-2443 • Fax: (770) 932-2490
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Manning Formula: Typical Public Half-Road Section

Irregular Section

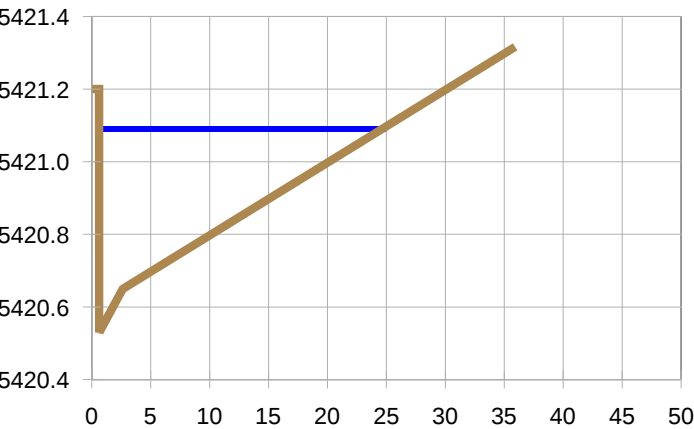
Input

Flow 14.88 cfs
Slope 0.005 ft/ft

Sta	Elev	n	Sta	Elev	n	Sta	Elev	n	Sta	Elev	n
0	5421.20	0.017	0.62	5421.20	0.017	0.63	5420.53	0.017	2.63	5420.65	0.017
35.63	5421.31	0.017	68.63	5420.65	0.017	70.63	5420.53	0.017	70.64	5421.20	0.017

Output

WSElev 5,421.091 ft
Flow Area 5.87 sf
Velocity 2.53 fps
Velocity Head 0.0999 ft
Top Width 24.1 ft
Froude Number 0.905
Critical WSElev 5,421.072 ft
Critical Slope ft/ft



Manning Formula: Typical Public Road Section

Irregular Section

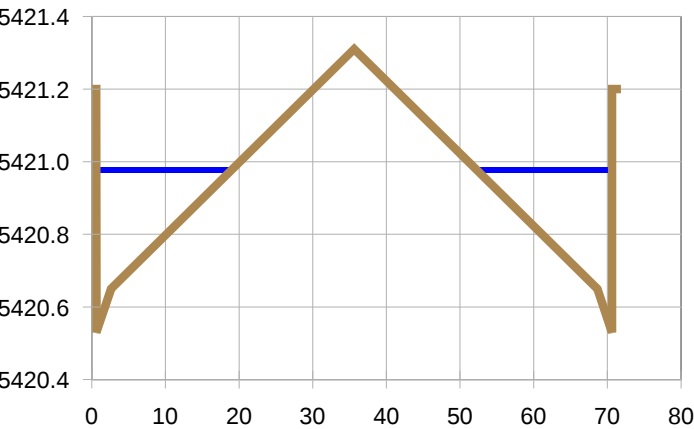
Input

Flow 14.88 cfs
Slope 0.005 ft/ft

Sta	Elev	n	Sta	Elev	n	Sta	Elev	n	Sta	Elev	n
0	5421.20	0.017	0.62	5421.20	0.017	0.63	5420.53	0.017	2.63	5420.65	0.017
35.63	5421.31	0.017	68.63	5420.65	0.017	70.63	5420.53	0.017	70.64	5421.20	0.017
71.26	5421.20	0.017									

Output

WSElev 5,420.976 ft
Flow Area 6.87 sf
Velocity 2.17 fps
Velocity Head 0.0729 ft
Top Width 36.6 ft
Froude Number 0.882
Critical WSElev 5,420.958 ft
Critical Slope ft/ft



Manning Formula: Proposed Internal Roadway Max Flow

Irregular Section

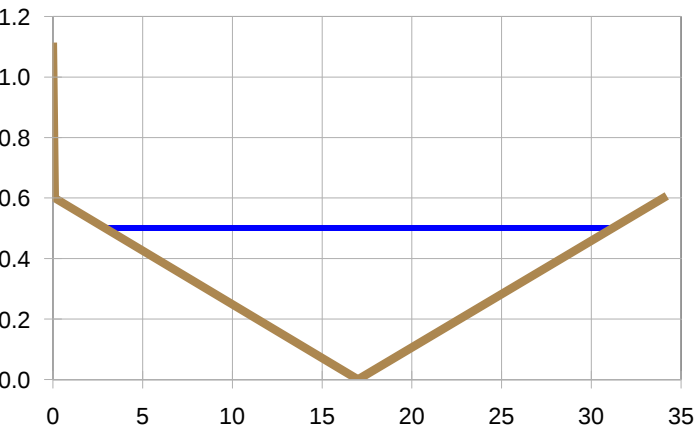
Input

Flow 17.3 cfs
Slope 0.005 ft/ft

Sta	Elev	n	Sta	Elev	n	Sta	Elev	n	Sta	Elev	n
0	1.1	0.017	0.1	0.6	0.017	17	0	0.017	34	0.6	0.017

Output

WSElev 0.500 ft
Flow Area 7.06 sf
Velocity 2.45 fps
Velocity Head 0.0934 ft
Top Width 28.2 ft
Froude Number 0.864
Critical WSElev 0.472 ft
Critical Slope ft/ft



Public Pond A Weir Calculation

Head Water Depth (h): 1 ft

User Enter Desired Value

Weir (Unknown Q):

Discharge Coeff. (C_w): 3.33

Length (L): 14.25 ft

$Flow (Q) = C_w \cdot L \cdot h^{1.5}$

Flow (Q) = 47.5 cfs

Head Water Depth (h): 0.5 ft

Weir (Unknown Q):

Discharge Coeff. (C_w): 3.33

Length (L): 14.25 ft

$Flow (Q) = C_w \cdot L \cdot h^{1.5}$

Flow (Q) = 16.8 cfs