PLANNING SURVEYING CONSTRUCTION SERVICES

CLOMR FOR
AREA DOWNSTREAM OF
UPPER BLUE DIAMOND DETENTION BASIN
BASED ON POST DETENTION BASIN FLOWS

ENGINEERING

PBS&J

2270 CORPORATE CIRCLE
SUITE 100
HENDERSON, NEVADA 89074-6382
TELEPHONE: 702/263-7275 FAX: 702/263-7200

CLOMR FOR
AREA DOWNSTREAM OF
UPPER BLUE DIAMOND DETENTION BASIN
BASED ON POST DETENTION BASIN FLOWS

Prepared for:
Clark County Regional Flood Control District
600 S. Grand Central Parkway
Las Vegas, NV 89121

Prepared by:
PBS&J
901 North Green Valley Parkway Suite #100
Henderson, Nevada 89014

Reference Number 511186

February 23, 2000

PBS&J

C L A R K C O U N T Y
REGIONAL FLOOD CONTROL DISTRICT

Gale Wm. Fraser, II, P.E.
General Manager/Chief Engineer

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February 23, 2000

Mr. Max Yuan, P.E.
Federal Emergency Management Agency
Mitigation Hazard Identification Branch
500 C Street, SW
Washington, DC 20472

RE: CASE NO. 00-09-170R
ANALYSIS AND MAPPING OF FLOOD HAZARDS DOWNSTREAM OF BDDB; PBS&J REFERENCE NO. 511186

Dear Mr. Yuan:

The Clark County Regional Flood Control District (CCRFCD) has contracted with PBS&J to prepare this analysis and mapping of flood hazards downstream of the Blue Diamond Detention Basin (BDDB). This data is submitted in response to one condition of the Conditional Letter of Map Revision dated January 31, 2000. Address of the remaining conditions will be forwarded to you upon completion of the BDDB. This data is also intended to resolve associated issues and allow for issuance of a Letter of Map Revision re-designating the current fan zone to a Zone A99 in accordance with 44CFR Section 61.12. Documentation of 50% completion of this federally sponsored project is forthcoming.

Sincerely,

Kevin Eubanks, P.E.
Assistant General Manager

KLE:mak

Enclosure

Cc: Pernille Buch-Peterson, Michael Baker Jr., Inc.
Mike Grimm, FEMA
Steve Parrish, Clark County Public Works

File: donebox:\letters\2000feb\0223CCRFCDltr-kle

600 S. Grand Central Parkway, Suite 300 • Las Vegas, Nevada 89106-4511
(702) 455-3139 • FAX: (702) 455-3870
Website: *http://www.ccrfcd.org*

February 23, 2000

Mr. Max Yuan
Federal Emergency Management Agency
Mitigation Hazard Identification Branch
500 C Street, SW
Washington, DC 20472

RE: CLOMR APPLICATION FOR AREA DOWNSTREAM OF UPPER BLUE DIAMOND DETENTION BASIN BASED ON POST DETENTION BASIN FLOWS PBS&J REFERENCE NO. 511186

Dear Mr. Yuan:

This application is to request a Conditional Letter of Map Revision for the Blue Diamond Alluvial Fan based on post-detention basin flows. As discussed in our December 1999 meeting with FEMA, Baker, and Clark County Regional Flood Control District staff, we request that this CLOMR application be reviewed in conjunction with the Upper Blue Diamond Detention Basin CLOMR application submitted by the United States Army Corps of Engineers (COE). FEMA comments for the COE CLOMR have been issued (Case No. 00-09-170R, the comment letter is included in the appendix). We also request that both CLOMR's be considered in the effort to establish an A-99 flood zone downstream of the detention basin. This CLOMR addresses the FEMA comments related to required analysis downstream of the Upper Blue Diamond Detention Basin (UBDDB).

In support of our request for a Conditional Letter of Map Revision based on Post-Detention Basin flows, we are forwarding the following:

Appendix I: FEMA Application Forms, which includes the following:

- A FEMA 'Revision Requestor and Community Official Form 1';
- A FEMA 'Hydrologic Analysis Form 3';
- A FEMA 'Riverine/Coastal Mapping Form 5'
- A FEMA 'Bridge/Culvert Form 7'

Appendix II: Figures, which includes the following:

- Figure 1 Area/Vicinity Map.
- Figure 2 CCRFCD Master Plan Facilities Map.
- Figure 3 FEMA Flood Zone Map (Effective FIRM)
- Figure 4 Basin and Cross Section Map

- Figure 5 Upper Blue Diamond Detention Basin CLOMR DFIRM
- Figure 6 Upper Blue Diamond Detention Basin CLOMR Annotated DFIRM
- Figure 7 FLO-2D Grid Map
- Figure 8 Flow Split Photo Documentation
- Figure 9 HEC-RAS Cross Section Locations

Appendix III: Hydrologic Parameters, which includes the following:

- Development of Hydrologic Parameters
- Soils Map
- HEC-1 Analysis
- Flo-2D Analysis

Appendix IV: Hydraulic Calculations, which includes the following:

- HEC-RAS Analysis
- Normal Depth Calculations
- Culvert Calculations
- Normal Depth Calculations at Cross Sections

Appendix V: Referenced Material, which includes the following:

- *The Southwest Las Vegas Valley Development Guidelines – Area II* Figure E2 Sheet 8 of 8
- *The Southwest Las Vegas Valley Development Guidelines – Area I* Sheets 5 and 6
- *The Southwest Las Vegas Valley Development Guidelines – Area II* HEC-1 analysis
- *Design Memorandum Blue Diamond Detention Basin US Army Corps of Engineers, April 1998*
- *Tropicana Wash and Tributaries FIS Restudy/*Sheet 1

Appendix VI: Input and Output Files on Computer Diskettes, which includes the following:

- HEC-1 Input and Output Files
(BD.dat/BD.out)
- Flo-2D Input and Output Files
(cont.dat, toler.dat, fpinout.dat, fplain.dat, rain.dat, base.out, depth.out, summary.out, veloc.out, outnq.out)
- HEC-RAS Input and Output Files
(Bdw.f01, Bdw.g01, Bdw.LOG, Bdw.O01, Bdw.p01, Bdw.prj, Bdw.r01, Bdw.rep)

UPPER BLUE DIAMOND DETENTION BASIN CLOMR

Introduction

This application CLOMR uses approximate methods to redefine the Zone A and Zone AO of the Blue Diamond Alluvial Fan downstream of the Upper Blue Diamond Detention Basin for post detention basin conditions. Based on the analysis this CLOMR application proposes to eliminate the current Zone AO designation downstream of the basin to the Union Pacific Railroad (UPRR)

tracks. The majority of the AO zone would be revised to Zone X. New Zone A flood zones are, however, proposed to follow significant washes in some areas. Also an existing Zone A immediately downstream of the basin is not proposed to be revised.

The *Las Vegas Valley Flood Insurance Study Hydrology Report* by James M. Montgomery Consulting Engineers, Inc. (JMM) dated September 1991 indicates pre-detention basin flows of 13,800-cfs for a 100-year storm event impacting the Blue Diamond alluvial fan. With the construction of the Upper Blue Diamond Detention Basin (UBDDB) by the Army Corp of Engineer, the discharge is reduced to 213-cfs for a 100-year storm event (1% annual chance of occurring); subsequently, flow depths throughout the fan are significantly reduced. This study shows that post-detention flow depths downstream of the detention basin are less than 1-foot for most of the existing 100-year flood plain (**Figure 1**). Furthermore, in a pre-submittal meeting with FEMA and Michael Baker Jr., Inc, and subsequent correspondence, it was agreed that the approximate methodology used in this study appeared to be an acceptable approach to delineating a revised 100-year flood plain. It is understood that the CLOMR associated with the construction of the UBDDB has been submitted by the COE and preliminary comments have been issued by FEMA.

The study does not address Las Vegas Beltway Channel improvements nor the Tropicana Detention Basin, both of which are in place at this time but were not in place when the original Zone AO was established. The effects of these facilities will be addressed in future FIS restudies or LOMR's by CCRFCD. Additionally, the area downstream of the railroad tracks will be addressed by the CCRFCD in a future FIS.

This CLOMR application also includes Zone AE delineation with BFE's determined by the CH2M Hill Tropicana Wash and Tributaries FIS Restudy for a small section of defined wash (that was not included on FIRM community panel number 32003C2553 D). This Zone AE delineation with BFE's was not included on the FIRM because the Zone AO overlapped this area. Since PBS&J proposes to eliminate the Zone AO in this area, the CH2M Hill delineation and BFE's for this small section of wash have been included in the annotated FIRM.

Hydrologic Methodology

A FLO-2D model was used to determine approximate flow paths, flow depths, and concentration points downstream of the proposed detention basin. A field reconnaissance generally confirmed the results of the FLO-2D model (see photos in **Appendix II**). The FLO-2D model indicated only minimal areas where flow depths exceeded one foot. Based on the FLO-2D results, PBS&J limited normal depth cross sections to only well defined washes and/or areas where FLO-2D indicated significant depths. The FLO-2D output was not used directly to delineate and new flood zones but only as a guide to help determine areas of concern.

At node 1 (**Figure 7**) of the FLO-2D model, outflow from the UBDDB combines with flow from Basin 40 for a peak flow of 1120-cfs. Besides the UBDDB outfall, and additional 4' x 6' RCBC under the UBDDB contributes 431-cfs to the combined 1120-cfs from an offsite basin to the

southwest (see Interior Drainage Area Plate 8 included with the referenced material). The FLO-2D model was then run for a 24-hour interval with a 6-hour storm with 2.77 inches of rainfall. The Flo-2D model uses a 250' x 250' element size. The grid is presented in **Figure 7** and the Flo-2D analysis is included in **Appendix III**. The model showed a distinct region along the southern boundary of the 100-year flood plain where flow depth exceeded 1-foot. However, a field reconnaissance suggests a flow split approximately 2400-feet southeast of the intersection of Durango Drive and Windmill Avenue (future proposed street alignments). Field survey data was collected and a HEC-RAS model was run to quantify the flow split at this location. A more detailed description of the flow split including peak flow rates at important concentration points and the results of the HEC-1 model are given below.

Hydrologic Analysis

The subject area was divided into smaller watersheds and the number of concentration points was increased. A detailed model (HEC 1) was formulated to determine flow rates for each of the sub-basins and concentration points. Normal depth calculations were performed using FlowMaster based on 5-foot contours to identify flow depths in major washes. From this analysis, a revised 100-year flood plain was defined. The revised flood plain is based entirely on HEC-1 analysis and normal depth calculations and not the FLO-2D model. This HEC-1 model includes the entire study area. However, it does not encompass the watershed that drains northeast into the study from the southwest along the UPRR railroad tracks. The flow from this watershed was taken from *The Southwest Las Vegas Valley Development Guidelines – Area II.* The development guidelines indicate that for the 10-year and 100-year flows are 22-cfs and 736-cfs, respectively. The flows impact the study area from the south along the western boundary of UPRR (see **Figure 4**).

In order to quantify the flow split (approximately 2400 feet southeast of the intersection of Durango Drive and Windmill Avenue), field survey data was gathered and the flows split was modeled using HEC-RAS. The area surveyed is shown in **Figure 9**. The survey data was imported into HEC-RAS to determine the amount of flow diverted from the main channel (Wash 1) to the eastbound channel (Wash 2). By balancing the energy grade lines at the flow split, it was determined that the flow split is approximately 55% to the northeast and 45% to the east. Based on the HEC-RAS results, 630-cfs is conveyed northeast in Wash 1 and 523-cfs is conveyed east in Wash 2. The HEC-RAS model and analysis is included in **Appendix IV**.

The rainfall and runoff data developed in this study was prepared for use with the HEC-1 Flood Hydrograph computer program in accordance with the Clark County Regional Flood Control District (CCRFCD) Hydrologic Criteria and Drainage Design Manual (CCRFCD, 1999). The methodology and calculations used to determine the hydrologic and geomorphologic parameters and HEC-1 runoff models are included in **Appendix III**. The Army Corps of Engineers (COE) previously performed the Blue Diamond Detention Basin analysis, and the COE model was incorporated into this HEC-1 model to ensure an accurate discharge from the detention basin. Referenced material from the *Design Memorandum Blue Diamond Detention Basin US Army Corps of Engineers, April 1998* is included in **Appendix V**. This information is based on a

duplicate electronic copy of the COE's HEC-1 input data. Recall that this study has been submitted to FEMA with the COE UBDDB CLOMR.

Hydrologic Results

The detention basin outfall and the offsite basin draining through the 4' x 6' RCBC underneath the detention basin combine with the flow in Basin 40 (593-cfs) for a total of 1153-cfs at combination point C-0 (**Figure 4**). Based on the HERC-RAS results, a 45%/55% flow split was used with 523-cfs discharging into east into sub-basins 34 and 12 (Wash 2) and 630-cfs discharging northeast into sub-basin 38, 17, 13, 33 (Wash 1) (see **Figure 4**). The HEC-1 output shows 721-cfs continuing northeast through Basin-38, Basin-26, Basin-17, Basin-13, and Basin-33 for a combined flow of 1110-cfs. The 523-cfs at the flow split enters Basin-34 and is conveyed to the east to Basin-12 for a combined flow of 623-cfs (see **Figure 4**). Note that flow along the UPRR tracks comes from contributory watersheds not within the Blue Diamond Alluvial Fan 100-year flood plain. The watershed producing this flow is comprised of basins as delineated in *The Southwest Las Vegas Valley Development Guidelines – Area II* and *The Southwest Las Vegas Valley Development Guidelines – Area I.* These basins are shown on Figure E2 Sheet 8 of 8 from Area II and Sheets 5 and 6 from Area I and are included in **Appendix V**. The HEC-1 analysis is included in **Appendix III**. For the purpose of this study it is assumed that this offsite flow combines arithmetically with the flows from Basin-12. However, the combined flow will exit the study area under the 3-span bridge (capacity = 1,705-cfs) located at the east end of Basin-12. See **Appendix IV** for bridge capacity calculations and nomograph. An additional 3-span bridge with a flow capacity of 2,050-cfs is located at the east end of Basin-11 as indicated in **Figure 4**. An explanation and an analysis of flow depths at key points follows.

Flow Depth Analysis

Analyses of cross-sections (cross-sections 1 through 45, see Figure 4) are given in **Appendix IV.** Normal depth calculations were performed using FlowMaster to determine depths of flow for flood zone analysis. Cross-sections 4, 33, 32, 5, 14, 31, 38, 39, 42, 43, 16, 34, and 44 in Wash 1 indicate flow depths greater than 1-foot. Cross-sections 1, 2, 41, 24, and 25 in Wash 2 also indicate flow depths greater than 1-foot. Cross-section 9 indicates a flow depth of 1.24 feet in Basin-12. The remaining cross-section flow depths were less than 1 foot. The revised flood zones are based on flow depths greater than 1 foot.

Revised Flood Zone Discussion

Based on these calculations, the FIRM was revised and an annotated FIRM (**Figure 6**) was produced. Because of possible channel migration the Zone A extending from the outfall of the UBBDB to Durango Road has not been altered. It is currently the intent of Clark County Regional Flood Control District to manage the area between the detention basin and Durango as a natural flow path without an improved conveyance facility. This results in a floodplain somewhat wider than the normal depth calculations would indicate to account for the channel migration. Downstream of Durango Drive significant channel migration is not assumed in flow split and

normal depth calculations as flows tend to spread out, pick up sediment load and become less erosive.

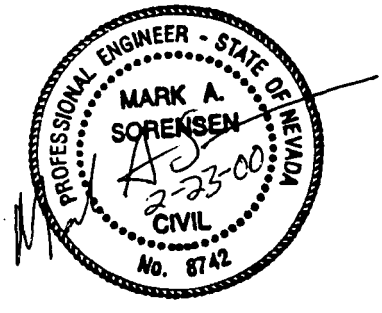
The annotated FIRM indicates a revised 100-year flood zone through Basin 40 following Wash 1, which is comprised of Basin-38, Basin-26, Basin-17, Basin-13, and Basin-33. No analysis east of UPRR is presented at this time and therefore the flood zones are not revised. An additional revised 100-year flood zone (Zone A) exists in Basin-34 and a portion of the west end of Basin-12 (see **Figure 6**). Only a portion of Basin-12 was included in the revised flood zone (Zone A) because cross-sections 27, 40, 45, and 26 indicated flow depths less than 1-foot. And again, note that a BFE information from the CH2M Hill Tropicana Wash FIS Restudy was included as shown on **Figure 6**.

Because of the offsite flow of 736 cfs along the UPRR, cross section 9 shows flow depths greater than 1-foot. Therefore, a small portion of Basin 12 at the southeast corner of the study remains in the 100-year flood plain (Zone A), but the capacity of the UPPR 3-span bridge (1704-cfs) is sufficient to convey the entire offsite flow (1359-cfs). Hence, the area north of the three span bridge adjacent to the UPRR ROW is also removed from the 100-year flood plain.

PBS&J believes the above analysis adequately addresses FEMA's comments related to downstream analysis for the UBDDB CLOMR submitted by the COE and supports an A-99 revision after documentation of 50% completion of the basin. After documentation of 100% completion of the basin (and addressing any outstanding FEMA comments) it is assumed that the A-99 designation can be removed and a LOMR issued establishing the revised flood zones shown in the annotated FIRM included herein.

Sincerely,

PBS&J



Scott Strosnider, E.I.T.
Hydrologist

James P. Lopez,
Associate Manager, Drainage Services

Mark A. Sorensen, P.E.
Manager, Drainage Services

Appendix I: FEMA Application Forms

FEDERAL EMERGENCY MANAGEMENT AGENCY **REVISION REQUESTER AND COMMUNITY OFFICIAL**	O.M.B No. 3067-0148 Expires April 30, 2001

Public reporting burden for this form is estimated to average 2.13 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, S.W., Washington DC 20472; and to the Office of Management and Budget, Paperwork Reduction Project (3067-0148), Washington, DC 20503.

You are not required to respond to this collection of information unless a valid OMB Control Number is displayed in the upper right corner of this form.

1. REQUESTED RESPONSE FROM FEMA

This request is for a:

☒ CLOMR A letter from FEMA commenting on whether a proposed project, if built as proposed, would justify a map revision, or proposed hydrology changes (See 44 CFR Ch. 1, Parts 60,65 & 72).

☐ LOMR A letter from FEMA officially revising the current NFIP map to show the changes to floodplains, floodway or flood elevations. LOMRs typically decrease flood hazards. (See 44 CFR Ch. 1 Parts 60 & 65.)

☐ Other Describe: _____

2. OVERVIEW

1. The basis for this revision request is (are): (check all that apply)

☒ Physical Change ☐ Improved Methodology/Data ☐ Floodway Revision

☐ Other Describe: _____

Note: A photograph is not required, but is very helpful during review.

2. Flooding Source: Blue Diamond alluvial fan

3. Project Name/Identifier: Area downstream of Upper Blue Diamond Detention Basin

4. FEMA zone designations affected: A,AO
(example: A, AH, AO, A1-A30, A99, AE, V, V1-V30, VE, B, C, D, X)

5. The NFIP map panel(s) affected for all impacted communities is (are):

Community No.	Community Name	State	Map No.	Panel No.	Effective Date
Ex: 480301 480287	Katy, City Harris County	TX TX	480301 48201C	0005D 0220G	02/08/83 09/28/90
32003	Clark County	NV	32003C	2561D 2545D 2550&52D 2553&54D	8/16/95
32003	Clark County	NV	32003C	2562D	8/16/95

6. The area of revision encompasses the following types of flooding and structures. Check all that apply.

Types of Flooding	Structures
☐ Riverine	☐ Channelization
☐ Coastal	☐ Levee/Floodwall
☒ Alluvial fan	☐ Bridge/Culvert
☒ Shallow Flooding (e.g. Zones AO and AH)	☐ Dam
☐ Lakes	☐ Fill
☐ Other (describe)	☐ Other (describe)

PLEASE REFER TO THE INSTRUCTIONS FOR THE APPROPRIATE MAILING ADDRESS

4. ENCROACHMENT INFORMATION

1. Does the State have jurisdiction over the floodway or its adoption by communities participating in the NFIP?
☐ Yes ☒ No

If Yes, attach a copy of a letter notifying the appropriate State agency of the floodway revision and documentation of the approval of the revised floodway by the appropriate State agency.

2. Does the development in the floodway cause the 1% annual chance (base) elevation to increase at any location by more than 0.000 feet? ☐ Yes ☐ No ☒ N/A

3. Does the cumulative effect of all development that has occurred since the effective SFHA was originally identified cause the base flood elevation to increase at any location by more than one foot (or other increase limit if community or state has adopted more stringent criteria - even if a floodway has not been delineated by FEMA)? ☐ Yes ☒ No

If the answer to either items is Yes, please attach documentation that all requirements of Section 65.12 of the NFIP regulations have been met, regarding evaluation of alternatives, notice to individual legal property owners, concurrence of CEO, and certification that no insurable structures are impacted.

5. MAINTENANCE RESPONSIBILITY

The community is willing to assume responsibility for ☐ performing ☐ overseeing compliance with the maintenance and operation plans of the _____
(Name)
flood control structure. If not performed promptly by an owner other than the community, the community will provide the necessary services without cost to the Federal government.

Operation and maintenance plans are attached. ☐ **Yes** ☐ **No** ☒ **N/A**

6. REVIEW FEE

The review fee for the appropriate request category has been included. ☒ Yes Fee amount: $_____

OR

This request is based on a federally sponsored flood-control project where 50 percent or more of the project's cost is federally sponsored, or the request is based on detailed hydrologic and hydraulic studies conducted by Federal, State, or local agencies to replace approximate studies conducted by FEMA and shown on the effective FIRM; thus the project is fee exempt. ☐ Yes

Please see Instructions for Fee Amounts

7. SIGNATURE

Note: **I understand that my signature indicates that all information submitted in support of this request is correct**

_____
Signature of Revision Requester

_____
Printed Name and Title of Revision Requester

_____
Company Name

Telephone No.: _____ Date: _____

Note: **Signature indicates that the community understands, from the revision requester, the impacts of the revision on flooding conditions in the community.**

Steve Parrish
Signature of Community Official

STEVE PARRISH, SENIOR ENGINEER
Printed Name and Title of Community Official

CLARK COUNTY
Community Name

Telephone No.: 702-455-4806 Date: 02/22/00

CERTIFICATION BY REGISTERED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR

This certification is in accordance with 44 CFR Ch. 1, Sect 65.2

Mark A Sorensen
Signature

MARK A. SORENSEN DRAINAGE MANAGER, PBS&J
Printed Name and Title of Revision Requester

Registr No. 8742 Expires (Date) 6-30-00 State NV

Type of License/Expertise: Professional Civil Engineer

Check which forms have been included with this request

Form Name and (Number)	Required if .....
☒ Hydrologic (3)	new or revised discharges
☐ Hydraulic (4)	new or revised water-surface elevations
☒ Mapping (5)	floodplain/floodway changes
☐ Channelization (6)	channel is modified
☒ Bridge/Culvert (7)	addition/revision of bridge/culvert
☐ Levee/Floodwall (8)	addition/revision of levee/floodwall
☐ Coastal (9)	new or revised coastal elevations
☐ Coastal Structures (10)	addition/revision of coastal structure
☐ Dam (11)	addition/revision of dam
☐ Alluvial Fan (12)	structures proposed on alluvial fan

FEDERAL EMERGENCY MANAGEMENT AGENCY **HYDROLOGIC ANALYSIS**	O.M.B No. 3067-0148 Expires April 30, 2001

PUBLIC BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average **3.67** hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, S.W., Washington DC 20472; and to the Office of Management and Budget, Paperwork Reduction Project (3067-0148), Washington, DC 20503.

You are not required to respond to this collection of information unless a valid OMB Control Number is displayed in the upper right corner of this form.

Note: Fill out one form for each flooding source studied

Community Name: Clark County

Flooding Source: Blue Diamond alluvial fan

Project Name/Identifier: Area downstream of Upper Blue Diamond Detention Basin

1. REASON FOR NEW HYDROLOGIC ANALYSIS

☐ No existing analysis ☐ Improved data ☐ Changed physical condition of watershed

☐ Alternative methodology ☒ Proposed Conditions (CLOMR) ☐ Other

For the reason stated above, please attach a detailed explanation. If a computer program/model was used in revising the hydrologic analysis, **please provide a diskette with the input files** for the same flood recurrence intervals contained in the FIS for that stream; and at least for the 1% annual chance (base) flood where no detailed study exists.

Explanation provided: ☐ Yes ☐ No **Diskettes provided:** ☒ Yes ☐ No

2. METHODOLOGY FOR NEW ANALYSIS

Indicate Method	Required Data	Data Included
☐ Statistical Analysis of Gage Records	Form 3 - Attachment A	☐ Yes ☐ No
☐ Regional Regression Equations	Form 3 - Attachment C	☐ Yes ☐ No
☒ Precipitation/Runoff Model	Form 3 - Attachment D	☒ Yes ☐ No
☐ Other	Back-up computations and supporting data	☐ Yes ☐ No

3. APPROVAL OF ANALYSIS

The hydrologic analysis has already been approved by a local, state, or Federal Agency. ☒ Yes ☐ No ☐ Not Required

If Yes, attach evidence of approval. ☒ **Approval attached.** If No, attach explanation. ☐ **Explanation attached.**

4. COMPARISON OF BASE FLOOD DISCHARGES

Location:	Drainage Area (SqMi)	FIS(cfs)	Revised (cfs)

Note: When revised discharges are not significantly different than the FIS discharges, FEMA may require a confidence limits analysis (see attachment B) at a later date to complete the review.

If only a portion of a detailed study area was revised please attach an explanation describing the transition from the proposed discharges to the effective discharges. ☐ **Explanation Included** ☐ **Explanation Not Required**

5. HISTORICAL FLOODING INFORMATION

If historical data are available for the flooding source please provide: Location, peak discharges/water-surface elevations and dates, and source of information. ☐ **Data Attached** ☒ **Data Not Available**

PLEASE REFER TO THE INSTRUCTIONS FOR THE APPROPRIATE MAILING ADDRESS

ATTACHMENT A: STATISTICAL ANALYSIS OF GAGE RECORDS

Gaging Station: _____

Gage Location (latitude and longitude): _____

		FIS:		Revised:	
1.	Number of years of data	_____		_____	
	Systematic	_____		_____	
	Historical	_____		_____	
2.	Homogeneous data	☐ Yes	☐ No	☐ Yes	☐ No
3.	Data adjustments	☐ Yes	☐ No	☐ Yes	☐ No
4.	Number of high outliers	_____		_____	
	Low outliers	_____		_____	
	Zero events	_____		_____	
5.	Generalized skew	_____		_____	
6.	Station skew	_____		_____	
7.	Adopted skew	_____		_____	
8.	Probability distribution used (justify if log-Pearson III was not used)	_____		_____	
9.	Transfer equations to ungaged sites			☐ Yes	☐ No
	If Yes, specify method				

_____

10.	Expected probability*	☐ Yes	☐ No
11.	Comparison of results with other analyses	☐ Yes	☐ No
	If Yes, describe comparison		

_____

12. **Attach analysis including plot of flood-frequency curve. Analysis Attached?** ☐ Yes ☐ No

*FEMA does not accept expected probability analyses for the purpose of reflecting flood hazard information in a FIS.

If any data are not available, indicate by N/A.

ATTACHMENT B: CONFIDENCE LIMITS EVALUATION

Stream: _____

Select one location for Confidence Limits Evaluation (*describe location*): _____

1. Discharges for selected location:

Exceedence Probability		FIS:	Revised:
10%	(10-year)	_____ cfs	_____ cfs
2%	(50-year)	_____ cfs	_____ cfs
1%	(100-year)	_____ cfs	_____ cfs
0.2%	(500-year)	_____ cfs	_____ cfs

2. 1% Annual Chance (Base) Flood Confidence Intervals

90% Confidence Interval:	5% limit	_____ cfs
	95% limit	_____ cfs
50% Confidence Interval:	25% limit	_____ cfs
	75% limit	_____ cfs

3. If the discharge of the base flood in the FIS is beyond the 50% confidence interval but within the 90% confidence interval, does the base flood elevation change by 1.0 foot or more? ☐ Yes ☐ No

An example of confidence limits analysis can be found in Appendix 9 of Bulletin 17B.

4. **Confidence Limits Analysis Attached?** ☐ Yes ☐ No

ATTACHMENT C: REGIONAL REGRESSION EQUATIONS

1. Bibliographical Reference:

   _____

   _____

   _____

   (Attach a copy of title page, table of contents, and pertinent pages including equations.)

2. Gaged or ungaged stream: _____

3. Hydrologic region(s): _____
   Attach backup map.

4. Provide parameters, values, and source of data used to define parameters.

   _____

   _____

   _____

		FIS:		Revised:	
5.	Urbanized conditions calculations	☐ Yes	☐ No	☐ Yes	☐ No
6.	Percent of watershed urbanization	_____		_____	
7.	Is the watershed controlled?	☐ Yes	☐ No	☐ Yes	☐ No
8.	Comparison with other analyses	☐ Yes	☐ No	☐ Yes	☐ No

If the answer to 5, 7, or 8 is Yes, explain methdology below. If data are not available, indicate with N/A.

Comments

_____

9. **Attach computation and supporting maps, delineating the watershed boundary and drainage area divides.**

   Computation and Supporting Maps provided? ☐ Yes ☐ No

ATTACHMENT D: PRECIPITATION/RUNOFF MODEL

		FIS:		Revised:	
1.	Method or model used:			HEC-1	
	Version:			4.0	
	Date:			1990	
2.	Source of rainfall depth:			NOAA ATLAS II Maps	
3.	Source of rainfall distribution:			CCRFCD Manual	
4.	Rainfall duration:			6 hours	
5.	Areal adjustment to precipitation (%):			DARF 100, 98	
6.	Maximum overland flow length			500 ft	
7.	Hydrograph development method:			SCS Unit Hydrograph Method	
8.	Loss rate method:				
	Source of soils information:			SCS 1985	
	Source of land use information:			CCRFCD Manual / MPU 1996	
9.	Channel routing method:			Kinematic Wave	
10.	Reservoir routing:	☐ Yes	☒ No	☐ Yes	☒ No
11.	Baseflow considerations:	☐ Yes	☒ No	☐ Yes	☒ No
	If Yes, explain below how baseflow was determined:				
12.	Snowmelt considerations:	☐ Yes	☒ No	☐ Yes	☒ No
13.	Model calibration:	☐ Yes	☒ No	☐ Yes	☒ No
	If Yes, explain below how calibration was performed				
14.	Future land use condition:	☐ Yes	☒ No	☐ Yes	☒ No
	If Yes, explain why below				

15. **Attach precipitation/runoff model, hydrologic model schematic, curve number calculations, time of concentration calculations, and supporting maps, delineating the watershed boundary and drainage area divides.**

Information and Maps provided? ☒ Yes ☐ No

NOTE: FEMA policy is to base flooding on existing conditions.

FEDERAL EMERGENCY MANAGEMENT AGENCY **RIVERINE / COASTAL MAPPING**	O.M.B No. 3067-0148 Expires April 30, 2001

PUBLIC BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 1.5 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, S.W., Washington DC 20472; and to the Office of Management and Budget, Paperwork Reduction Project (3067-0148), Washington, DC 20503.

You are not required to respond to this collection of information unless a valid OMB Control Number is displayed in the upper right corner of this form.

Note: Fill out one form for each flooding source studied

Community Name: Clark County

Flooding Source: Blue Diamond alluvial fan

Project Name/Identifier: Area downstream of Blue Diamond Detention Basin

This is a ☐ Manual ☒ Digital submission. *Digital map submissions may be used to update digital FIRMs (DFIRMs). For updating DFIRMs, these submissions must be coordinated with FEMA Headquarters as far in advance as possible.*

1. MAPPING CHANGES

1. A topographic workmap must be submitted showing the following information (check N/A when not applicable):

a. Revised approximate 100-year floodplain boundaries (Zone A)	☒ Yes	☐ No	☐ N/A
b. Revised detailed 100- and 500-year floodplain boundaries.	☐ Yes	☐ No	☒ N/A
c. Revised floodway boundaries	☐ Yes	☐ No	☒ N/A
d. Location and alignment of all cross sections with stationing control indicated.	☐ Yes	☐ No	☒ N/A
e. Stream alignments, road alignments and dam alignments.	☒ Yes	☐ No	☐ N/A
f. Current community boundaries.	☒ Yes	☐ No	☐ N/A
g. Effective 100- year floodplain and floodway boundaries from FIRM/FBFM reduced or enlarged to the scale of the topographic workmap	☒ Yes	☐ No	☐ N/A
h. Tie-ins between the effective and revised 100-, 500-year and floodway boundaries	☒ Yes	☐ No	☐ N/A
i. The requester's property boundaries and community easements	☒ Yes	☐ No	☐ N/A
j. The signed certification of a registered professional engineer	☒ Yes	☐ No	☐ N/A
k. Location and description of reference marks	☒ Yes	☐ No	☐ N/A
l. Vertical datum (example: NGVD, NAVD)	☒ Yes	☐ No	☐ N/A
m. Coastal zone designations tie into adjacent areas not being revised	☐ Yes	☐ No	☒ N/A
n. Location and alignment of all coastal transects used to revise the coastal analyze	☐ Yes	☐ No	☒ N/A
o. V-zone has been delineated to extend landward to the heel of the primary frontal dune	☐ Yes	☐ No	☒ N/A

If any items are marked No or N/A please attach an explanation.

2. What is the source and date of the updated topographic information (example: orthophoto maps, July 1985; filed survey, May 1979, beach profile, June 1987 etc.)? Clark County Orthophotos, 1996

3. What is the scale and contour interval of the following workmaps?

Effective FIS Scale 1" = 400' Contour Interval 4-foot

Revision Request Scale 1" = 1000' Contour Interval 5-foot

NOTE: Revised topographic information must be of equal or greater detail than effective.

4. Attach an annotated FIRM/FBFM at the scale of the effective FIRM/FBFM showing the revised 100- and 500-year floodplain and the floodway boundaries and how they tie into those shown on the effective FIRM/FBFM downstream and upstream of the revisions or adjacent to the area of revision for coastal studies. **FIRM/FBFM attached?** ☒ **Yes** ☐ **No**

PLEASE REFER TO THE INSTRUCTIONS FOR THE APPROPRIATE MAILING ADDRESS

2. EARTH FILL PLACEMENT

1. The fill is: ☐ Existing ☐ Proposed

2. Has fill been/will be placed in the regulatory floodway? ☐ Yes ☐ No
   If Yes, please attach completed Riverine Hydraulic Analysis Form (Form 4).

3. Has fill been/will be placed in floodway fringe (*area between the floodway and 100-year floodplain boundaries*)? ☐ Yes ☐ No

   If Yes, then complete A, B, C, and D below.

   a. Are fill slopes for granular materials steeper than one vertical on one-and-one-half horizontal? ☐ Yes ☐ No

      If Yes, justify steeper slopes _____

   b. Is adequate erosion protection provided for fill slopes exposed to moving flood waters? (*Slopes exposed to flows with velocities of up to 5 feet per second (fps) during the 100-year flood must, at a minimum, be protected by a cover of grass, vines, weeds, or similar vegetation; slopes exposed to flows with velocities greater than 5 fps during the 100-year flood must, at a minimum, be protected by stone or rock riprap.)*

      ☐ Yes ☐ No

      If No, describe erosion protection provided _____

   c. Has all fill placed in revised 100-year floodplain been compacted to 95 percent of the maximum density obtainable with the Standard Proctor Test Method or acceptable equivalent method? ☐ Yes ☐ No

   d. Can structures conceivably be constructed on the fill at any time in the future? ☐ Yes ☐ No

   If Yes, attach certification of fill compaction (item 3c. above) by the community's NFIP permit official, a registered professional engineer, or an accredited soils engineer in accordance with Subparagraph 65.5(a)(6) of the NFIP regulations.

   Fill certification attached ☐ **Yes** ☐ **No**

4. Has fill been/will be placed in a V zone? ☐ Yes ☐ No

   If Yes, is the fill protected from erosion by a flood control structure such as a revetment or seawall?

   ☐ Yes ☐ No

   If Yes, attach the Coastal Structures Form (Form 10).

FEDERAL EMERGENCY MANAGEMENT AGENCY **BRIDGE/CULVERT**	O.M.B. Burden No. 3067-0148 Expires April 30, 2001

PUBLIC BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 2 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, Federal Emergency Management Agency, 500 C Street, S.W., Washington, DC 20472; and to the Office of Management and Budget, Paperwork Reduction Project (3067-0148), Washington, DC 20503.

You are not required to respond to this collection of information unless a valid OMB Control Number is displayed in the upper right corner of this form.

Community Name: Clark County

Flooding Source: Blue Diamond alluvial fan

Project Name/Identifier: Area downstream of Upper Blue Diamond Detention Basin

1. IDENTIFIER

1. Name of structure (roadway, railroad, etc.): UPRR Culvert

2. Location of bridge/culvert along flooding source (in terms of stream distance or cross-section identifier):

   ———

3. This revision reflects (check one of the following):

   ☐ New bridge/culvert not modeled in the FIS

   ☐ Modified bridge/culvert previously modeled in the FIS

   ☒ New analysis of bridge/culvert previously modeled in the FIS

4. Hydraulic model used to analyze the structure *(e.g., HEC-2 with special bridge routine, WSPRO, HY8)*

   FHWA-IP-85-15 "Hydraulic Design of Highway Culverts",September, 1985 Method

   If different than hydraulic analysis for the flooding source, justify why the hydraulic analysis used for the flooding source could not analyze the structure(s). *(Attach justification)*

   Justification attached ☐ **Yes** ☐ **No** ☒ **N/A**

PLEASE REFER TO THE INSTRUCTIONS FOR THE APPROPRIATE MAILING ADDRESS

2. DRAWING CHECKLIST

Attach plans of the structure(s) certified by a registered professional engineer. The plan detail and information should include the following (check the boxes if the information has been provided):

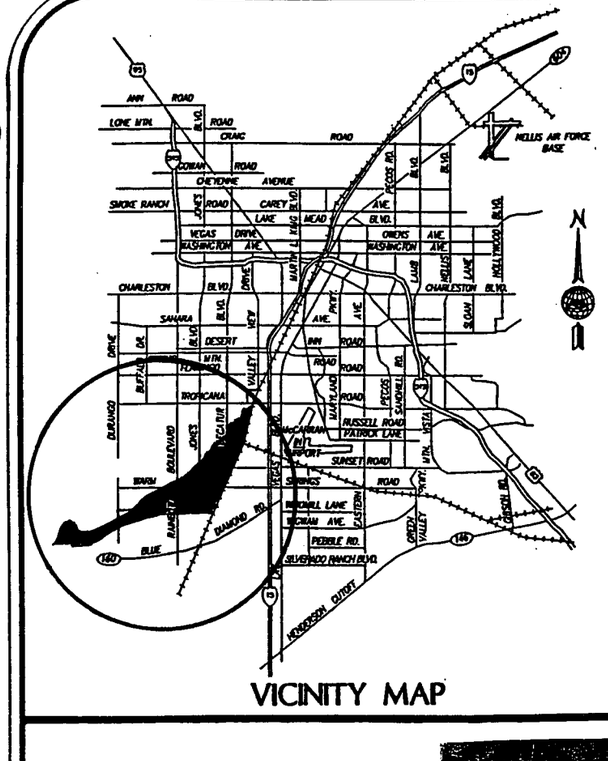
- ☐ Dimensions (height, width, span, radius, length)
- ☐ Shape (culverts only)
- ☐ Material
- ☐ Beveling or Rounding
- ☐ Wing Wall Angle
- ☐ Low Chord Elevations - Upstream and Downstream
- ☐ Top of Road Elevations - Upstream and Downstream
- ☐ Structure Invert Elevations - Upstream and Downstream
- ☐ Stream Invert Elevations - Upstream and Downstream
- ☐ Skew Angle
- ☐ Cross-Section Locations
- ☐ Distances Between Cross Sections
- ☐ Erosion Protection

3. SEDIMENT TRANSPORT CONSIDERATIONS

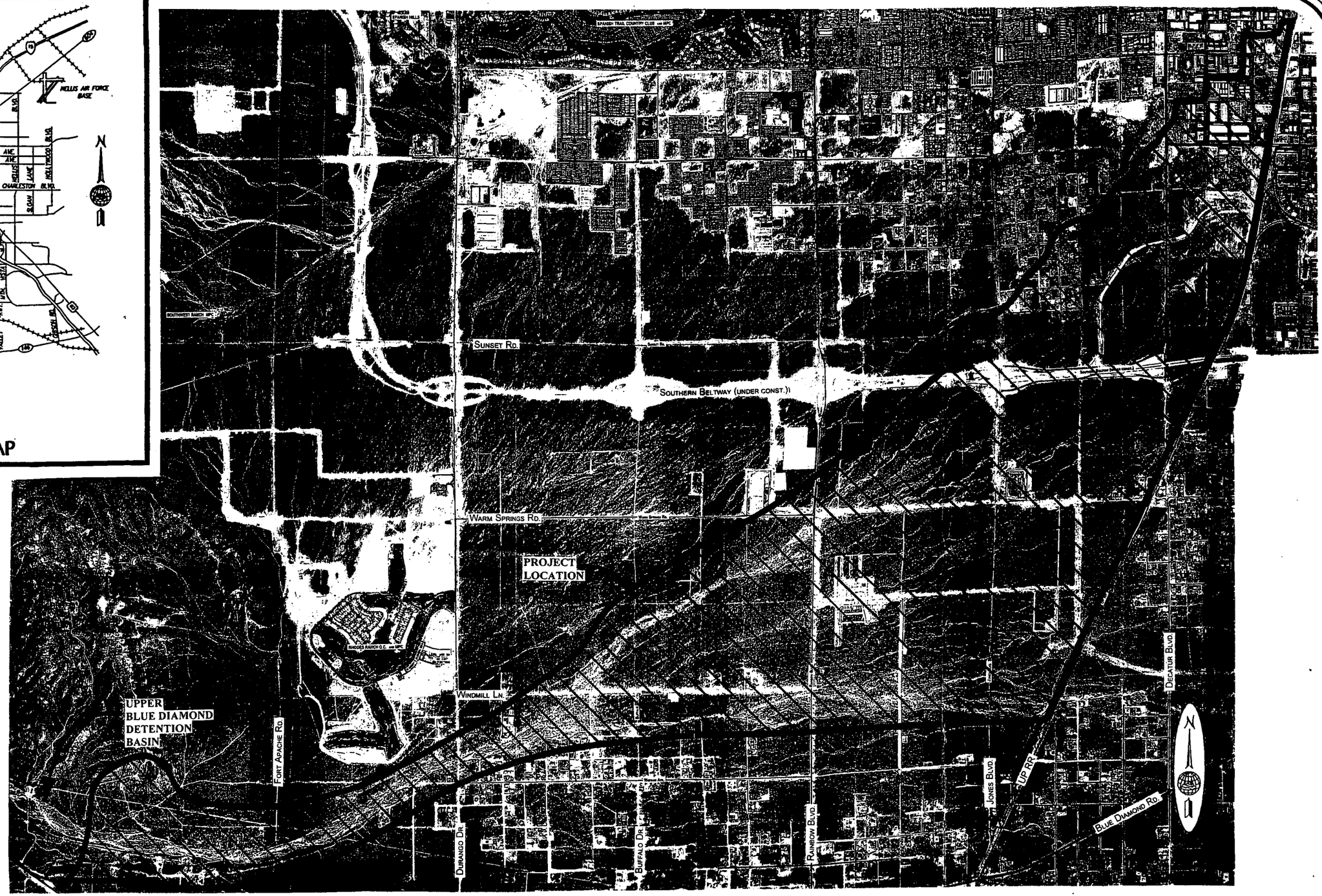
If there is any indication from historical records that sediment transport (including scour and deposition) can affect the 100-year (base flood) water-surface elevations; and/or based on the stream geomorphology, vegetative cover, development of the watershed and bank conditions, there is a potential for debris and sediment transport (including sewer and deposition) to affect the base flood elevations, then provide the following information **(Check the box if provided):**

- ☐ Estimated sediment load
- ☐ Method used to estimate sediment transport
- ☐ Method used to estimate scour and/or deposition
- ☐ Method used to revise hydraulic or hydrologic analysis (model) to account for sediment transport

Appendix II: Figures



VICINITY MAP



AREA/VICINITY MAP

3000 1500 0 3000 6000 9000

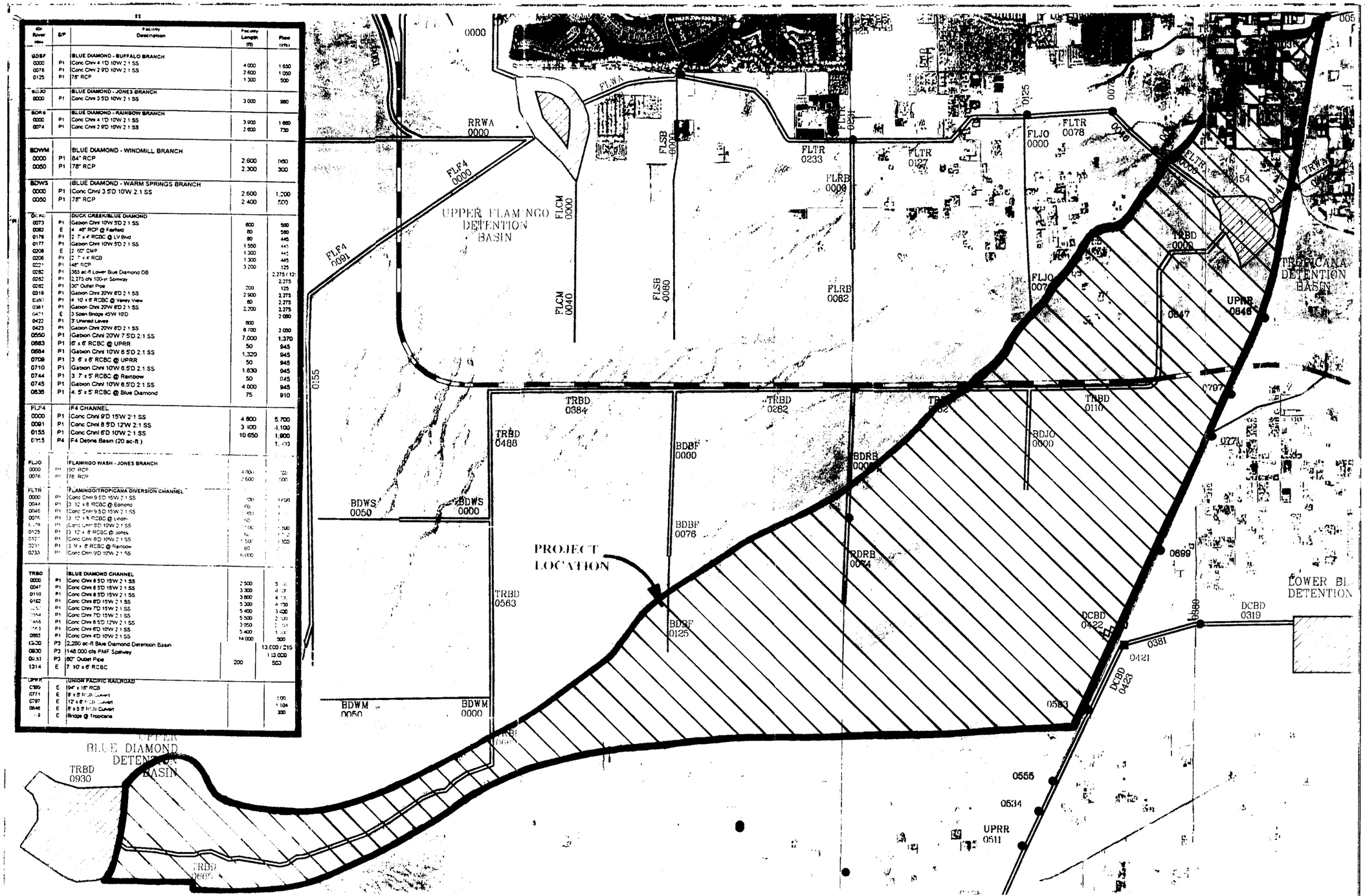
APPROX. SCALE: 1" = 3000'

FIGURE 1

PBS&J
901 North Green Valley Pkwy
Suite 100
Henderson, Nevada 89014
Telephone: 702/263-7275
Fax: 702/263-7200

ENGINEERING • PLANNING • SURVEYING • CONSTRUCTION SERVICES

ID/ Reach/ Node	S/P	Facility Description	Facility Length (ft)	Flow (cfs)
BDBF		**BLUE DIAMOND - BUFFALO BRANCH**		
0000	P1	Conc Chnl 4'D 10'W 2:1 SS	4,000	1,650
0076	P1	Conc Chnl 2.9'D 10'W 2:1 SS	2,600	1,080
0125	P1	78" RCP	1,300	500
BDJO		**BLUE DIAMOND - JONES BRANCH**		
0000	P1	Conc Chnl 3.5'D 10'W 2:1 SS	3,000	980
BDRB		**BLUE DIAMOND - RAINBOW BRANCH**		
0000	P1	Conc Chnl 4'D 10'W 2:1 SS	3,900	1,680
0074	P1	Conc Chnl 2.9'D 10'W 2:1 SS	2,600	730
BDWM		**BLUE DIAMOND - WINDMILL BRANCH**		
0000	P1	84" RCP	2,600	1160
0050	P1	78" RCP	2,300	300
BDWS		**BLUE DIAMOND - WARM SPRINGS BRANCH**		
0000	P1	Conc Chnl 3.5'D 10'W 2:1 SS	2,600	1,200
0050	P1	78" RCP	2,400	500
DCBD		**DUCK CREEK/BLUE DIAMOND**		
0073	P1	Gabion Chnl 10'W 5'D 2:1 SS	600	580
0082	E	4 - 48" RCP @ Fairfield	80	580
0176	P1	2 - 7' x 4' RCBC @ LV Blvd	80	445
0177	P1	Gabion Chnl 10'W 5'D 2:1 SS	1,550	445
0208	E	2 - 60" CMP	1,300	445
0206	P1	2 - 7' x 4' RCB	1,300	445
0221	P1	48" RCP	3,200	125
0282	P1	365 ac-ft Lower Blue Diamond DB		2,275 / 12,0
0282	P1	2,275 cfs 100-yr Spillway		2,275
0282	P1	30" Outlet Pipe	700	125
0319	P1	Gabion Chnl 20'W 8'D 2:1 SS	2,900	2,275
0361	P1	4 - 10' x 6' RCBC @ Vaney View	80	2,275
0381	P1	Gabion Chnl 20'W 8'D 2:1 SS	2,200	2,275
0421	E	3 Span Bridge 45'W 10'D		2,080
0422	P1	3' Unlined Levee	800	
0423	P1	Gabion Chnl 20'W 8'D 2:1 SS	6,700	2,080
0550	P1	Gabion Chnl 20'W 7.5'D 2:1 SS	7,000	1,370
0683	P1	6' x 6' RCBC @ UPRR	50	945
0684	P1	Gabion Chnl 10'W 6.5'D 2:1 SS	1,320	945
0709	P1	3 - 6' x 6' RCBC @ UPRR	50	945
0710	P1	Gabion Chnl 10'W 6.5'D 2:1 SS	1,830	945
0744	P1	3 - 7' x 5' RCBC @ Rainbow	50	945
0745	P1	Gabion Chnl 10'W 6.5'D 2:1 SS	4,000	945
0836	P1	4 - 5' x 5' RCBC @ Blue Diamond	75	910
FLF4		**F4 CHANNEL**		
0000	P1	Conc Chnl 9'D 15'W 2:1 SS	4,800	5,700
0091	P1	Conc Chnl 8.5'D 12'W 2:1 SS	3,100	4,100
0155	P1	Conc Chnl 6'D 10'W 2:1 SS	10,650	1,800
0155	P4	F4 Debris Basin (20 ac-ft)		1,700
FLJO		**FLAMINGO WASH - JONES BRANCH**		
0000	P1	90" RCP	4,900	550
0078	P1	78" RCP	2,600	500
FLTR		**FLAMINGO/TROPICANA DIVERSION CHANNEL**		
0000	P1	Conc Chnl 9.5'D 15'W 2:1 SS	700	1750
0044	P1	3 - 12' x 8' RCBC @ Eastern	60	
0046	P1	Conc Chnl 9.5'D 15'W 2:1 SS	400	
0075	P1	3 - 12' x 8' RCBC @ Linden	60	
0078	P1	Conc Chnl 8'D 10'W 2:1 SS	1,700	1,350
0125	P1	3 - 12' x 8' RCBC @ Jones	60	
0127	P1	Conc Chnl 6'D 10'W 2:1 SS	1,500	150
0233	P1	3 - 9' x 8' RCBC @ Rainbow	60	
0233	P1	Conc Chnl 9'D 10'W 2:1 SS	6,000	
TRBD		**BLUE DIAMOND CHANNEL**		
0000	P1	Conc Chnl 8.5'D 15'W 2:1 SS	2,500	5,[illegible]
0047	P1	Conc Chnl 8.5'D 15'W 2:1 SS	3,300	4,[illegible]
0110	P1	Conc Chnl 8.5'D 15'W 2:1 SS	3,800	4,[illegible]
0162	P1	Conc Chnl 8'D 15'W 2:1 SS	5,300	4,[illegible]
[illegible]	P1	Conc Chnl 7'D 15'W 2:1 SS	5,400	3,[illegible]
[illegible]	P1	Conc Chnl 7'D 15'W 2:1 SS	5,500	3,[illegible]
[illegible]	P1	Conc Chnl 6.5'D 12'W 2:1 SS	3,950	1,[illegible]
0563	P1	Conc Chnl 6'D 10'W 2:1 SS	5,400	1,[illegible]
0885	P1	Conc Chnl 4'D 10'W 2:1 SS	14,000	900
0530	P3	2,230 ac-ft Blue Diamond Detention Basin		13,000 / 215
0830	P3	148,000 cfs PMF Spillway		13,000
0833	P3	60" Outlet Pipe	200	550
1314	E	7 - 10' x 6' RCBC		
UPRR		**UNION PACIFIC RAILROAD**		
0399	E	84" x 16' RCB		190
0771	E	6' x 5' RCB Culvert		
0797	E	12' x 8' RCB Culvert		1,104
0846	E	8' x 5.5' RCB Culvert		300
[illegible]	E	Bridge @ Tropicana		



CCRFCD MASTER PLAN FACILITIES MAP

PHOTOS BY LANDISCOR
DATED: AUGUST 1995

CLARK COUNTY
REGIONAL FLOOD CONTROL DISTRICT

FLOOD CONTROL MASTER PLAN UPDATE LAS VEGAS VALLEY 1996

LEGEND

- EXISTING MASTER PLAN FACILITIES
- PROPOSED MASTER PLAN FACILITIES
- LOCAL OR UNSTUDIED FACILITIES
- DETENTION/DEBRIS BASIN
- CULVERT
- BRIDGE
- PIPELINE
- LINED CHANNEL
- UNLINED CHANNEL
- DIKE
- NATURAL WASH
- ULTIMATE DEVELOPMENT BOUNDARY
- SECONDARY FACILITIES

GRAPHIC SCALE

3000 2500 2000 1500 1000 500 0 1000 2000 3000

(IN FEET)

SCALE: 1 INCH = 3000 FEET

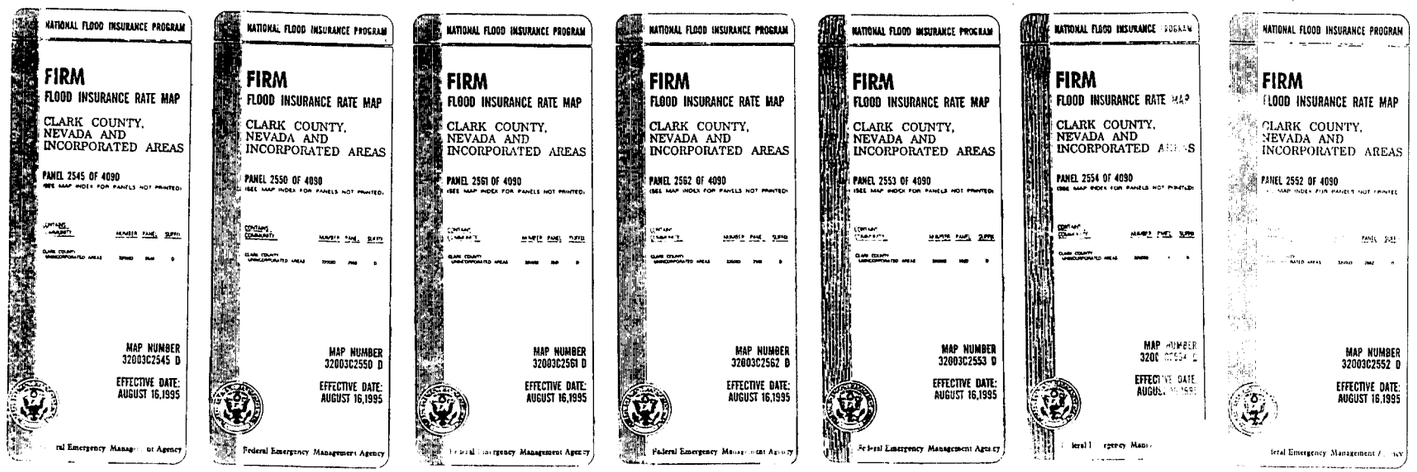
FLOOD CONTROL FACILITIES

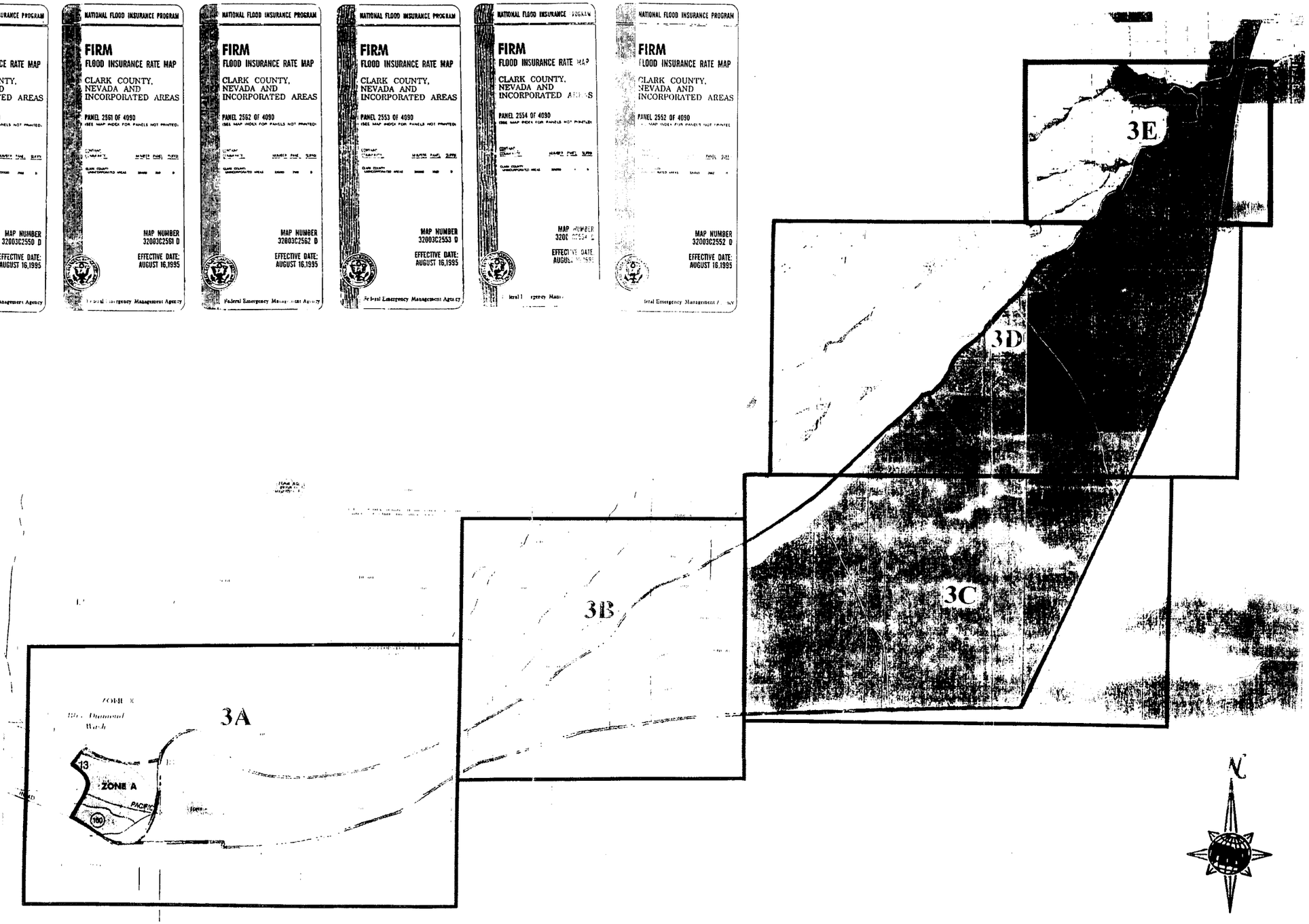
FIGURE F-17, FIGURE F-18
FIGURE F-21, FIGURE F-22

PBS&J POST, BUCKLEY, SCHUH & JERNIGAN, INC.

nevada

FIGURE 2





MASTER
FEMA FLOOD ZONE MAP

FIGURE 3

PBS&J
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Henderson, Nevada 89014
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Fax: 702/263-7200
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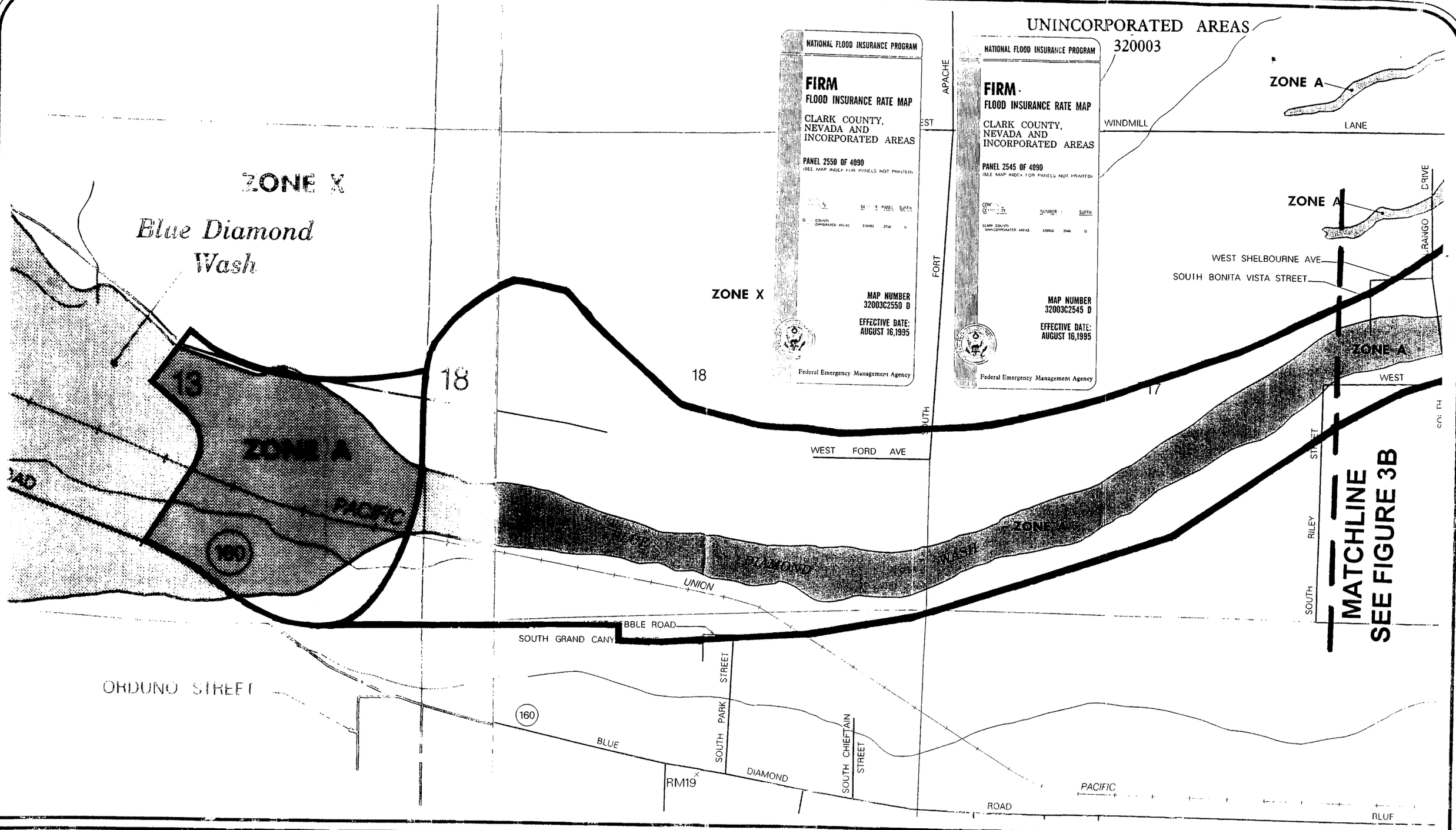

FEMA FLOOD ZONE MAP

1000 500 0 1000 2000 3000

APPROX. SCALE: 1" = 1000'

FIGURE 3A

PBSJ
301 North Green Valley Pkwy
Suite 100
Henderson, Nevada 89014
Telephone: 702/263-7275
Fax: 702/263-7200
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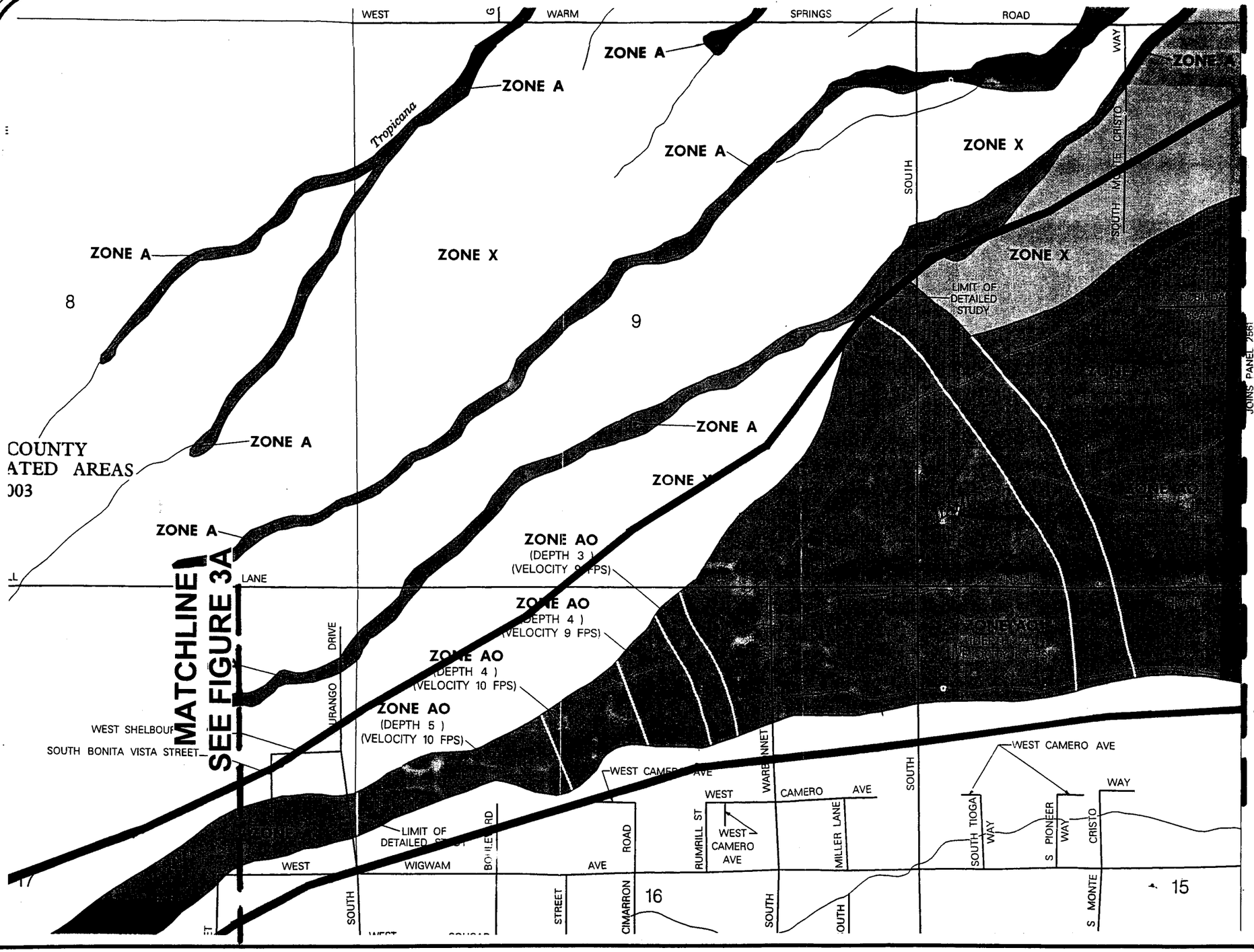

COUNTY
ATED AREAS
)03

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CLARK COUNTY,
NEVADA AND
INCORPORATED AREAS

PANEL 2545 OF 4090
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
CLARK COUNTY, UNINCORPORATED AREAS	320003	2545	D

MAP NUMBER
32003C2545 D

EFFECTIVE DATE:
AUGUST 16,1995

Federal Emergency Management Agency

FEMA FLOOD ZONE MAP

1000 500 0 1000 2000 3000
APPROX. SCALE: 1" = 1000'

FIGURE 3B

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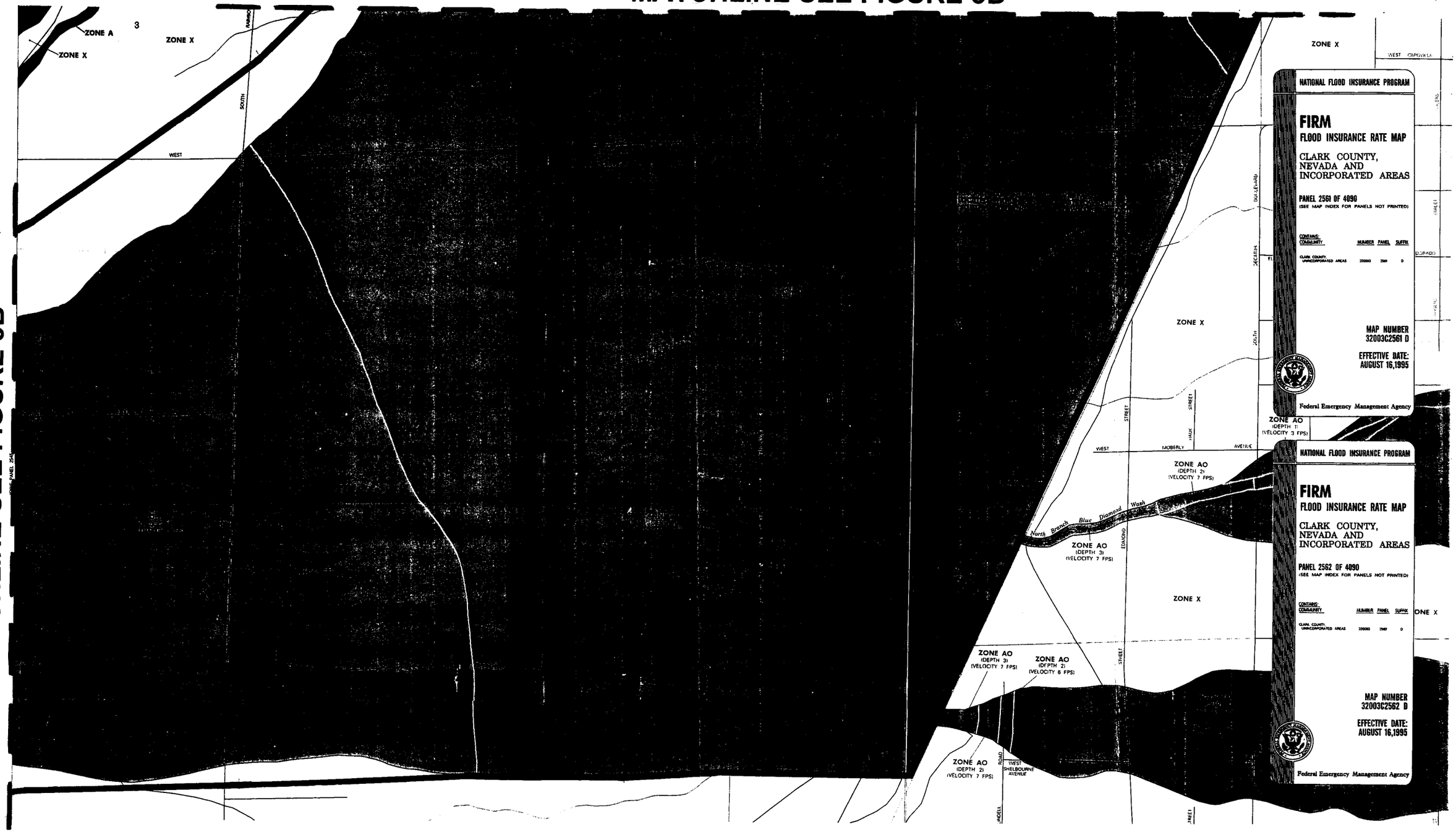
MATCHLINE SEE FIGURE 3D

MATCHLINE SEE FIGURE 3B



FEMA FLOOD ZONE MAP

1000 500 0 1000 2000 3000

APPROX. SCALE: 1" = 1000'

FIGURE 3C

PBS&J
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MATCHLINE SEE FIGURE 3E

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CLARK COUNTY, NEVADA AND INCORPORATED AREAS

PANEL 2553 OF 4090
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
CLARK COUNTY, UNINCORPORATED AREAS	320003	2553	D

MAP NUMBER
32003C2553 D

EFFECTIVE DATE:
AUGUST 16,1995

Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CLARK COUNTY, NEVADA AND INCORPORATED AREAS

PANEL 2554 OF 4090
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
CLARK COUNTY, UNINCORPORATED AREAS	320003	2554	D

MAP NUMBER
32003C2554 D

EFFECTIVE DATE:
AUGUST 16,1995

Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CLARK COUNTY, NEVADA AND INCORPORATED AREAS

PANEL 2561 OF 4090
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
CLARK COUNTY, UNINCORPORATED AREAS	320003	2561	D

MAP NUMBER
32003C2561 D

EFFECTIVE DATE:
AUGUST 16,1995

Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CLARK COUNTY, NEVADA AND INCORPORATED AREAS

PANEL 2562 OF 4090
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
CLARK COUNTY, UNINCORPORATED AREAS	320003	2562	D

MAP NUMBER
32003C2562 D

EFFECTIVE DATE:
AUGUST 16,1995

Federal Emergency Management Agency

ZONE A
ZONE X
ZONE AE
RM229
RM226
WEST
WESTWIND ROAD
PONDEROSA WAY
BOULEVARD
JONES
PATRICK LANE
SOBB AVE
LIMIT OF DETAILED STUDY
WEST SUNSET ROAD
SOUTH RAINBOW BOULEVARD
Branch
South
PACIFIC
ARVILLE STREET
MAULE
ARBY AVENUE
SLEEPINGBEAR CIRCLE
STREET
AVENUE
CIRCLE
3
2
6
36

MATCHLINE SEE FIGURE 3C

FEMA FLOOD ZONE MAP

1000 500 0 1000 2000 3000
APPROX. SCALE: 1" = 1000'

FIGURE 3D

PBS&J
901 North Green Valley Pkwy
Suite 100
Henderson, Nevada 89014
Telephone: 702/263-7275
Fax: 702/263-7200
ENGINEERING • PLANNING • SURVEYING • CONSTRUCTION SERVICES

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CLARK COUNTY, NEVADA AND INCORPORATED AREAS

PANEL 2552 OF 4090
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
CLARK COUNTY UNINCORPORATED AREAS	320003	2552	D

MAP NUMBER
32003C2552 D

EFFECTIVE DATE:
AUGUST 16,1995

Federal Emergency Management Agency

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CLARK COUNTY, NEVADA AND INCORPORATED AREAS

PANEL 2554 OF 4090
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS: COMMUNITY	NUMBER	PANEL	SUFFIX
CLARK COUNTY UNINCORPORATED AREAS	320003	2554	D

MAP NUMBER
32003C2554 D

EFFECTIVE DATE:
AUGUST 16,1995

Federal Emergency Management Agency

MATCHLINE SEE FIGURE 3D

FEMA FLOOD ZONE MAP

1000 500 0 1000 2000 3000
APPROX. SCALE: 1" = 1000'

FIGURE 3E

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Fax: 702/263-7200
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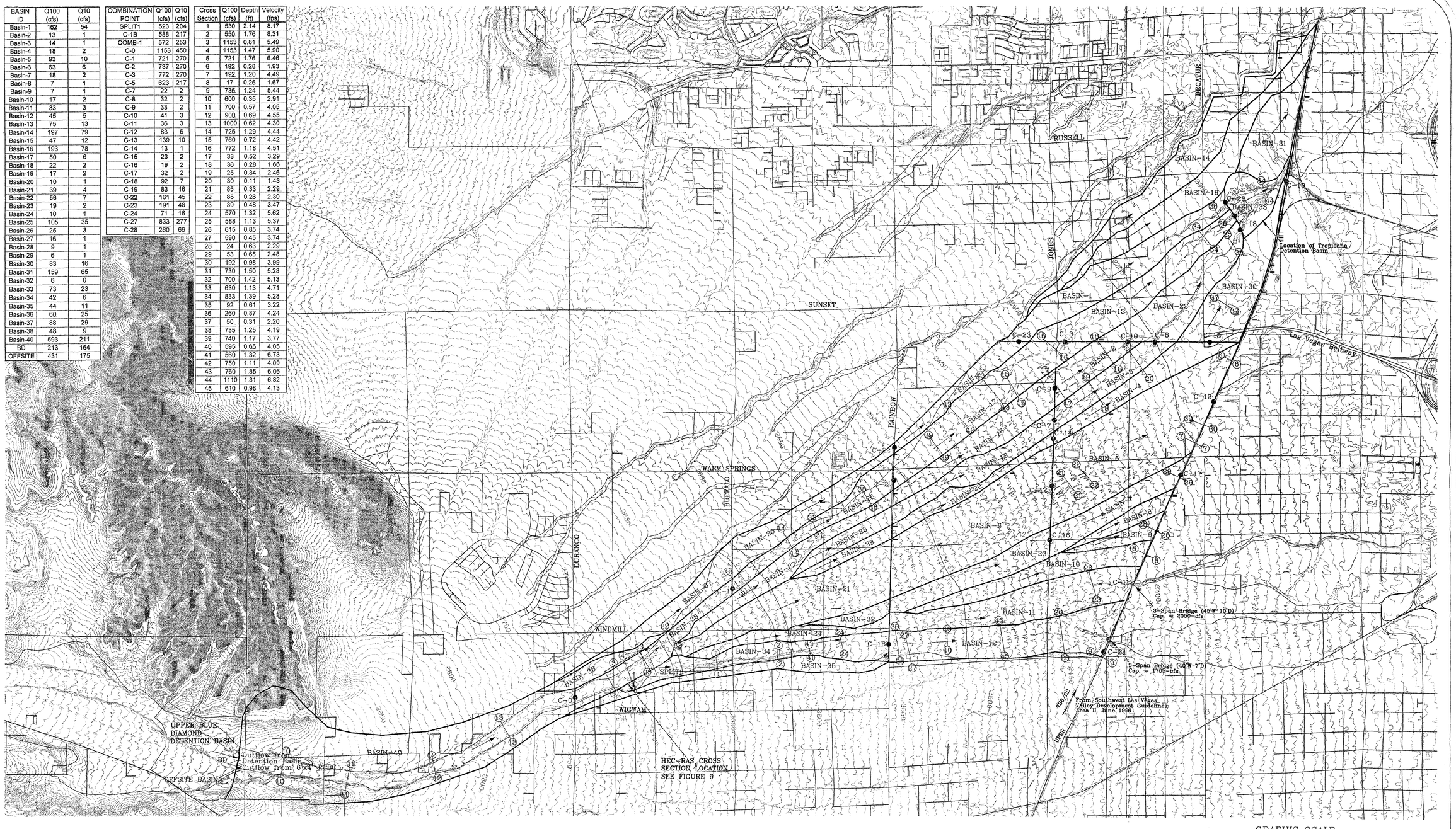
BASIN ID	Q100 (cfs)	Q10 (cfs)
Basin-1	162	54
Basin-2	13	1
Basin-3	14	1
Basin-4	18	2
Basin-5	93	10
Basin-6	63	6
Basin-7	18	2
Basin-8	7	1
Basin-9	7	1
Basin-10	17	2
Basin-11	33	3
Basin-12	45	5
Basin-13	75	13
Basin-14	197	79
Basin-15	47	12
Basin-16	193	78
Basin-17	50	6
Basin-18	22	2
Basin-19	17	2
Basin-20	10	1
Basin-21	39	4
Basin-22	56	7
Basin-23	19	2
Basin-24	10	1
Basin-25	105	35
Basin-26	25	3
Basin-27	16	1
Basin-28	9	1
Basin-29	6	1
Basin-30	83	16
Basin-31	159	65
Basin-32	6	0
Basin-33	73	23
Basin-34	42	6
Basin-35	44	11
Basin-36	60	25
Basin-37	88	29
Basin-38	48	9
Basin-40	593	211
BD	213	164
OFFSITE	431	175

COMBINATION POINT	Q100 (cfs)	Q10 (cfs)
SPLIT1	523	204
C-1B	588	217
COMB-1	572	253
C-0	1153	450
C-1	721	270
C-2	737	270
C-3	772	270
C-5	623	217
C-7	22	2
C-8	32	2
C-9	33	2
C-10	41	3
C-11	36	3
C-12	83	6
C-13	139	10
C-14	13	1
C-15	23	2
C-16	19	2
C-17	32	2
C-18	92	7
C-19	83	16
C-22	161	45
C-23	191	48
C-24	71	16
C-27	833	277
C-28	260	66

Cross Section	Q100 (cfs)	Depth (ft)	Velocity (fps)
1	530	2.14	8.17
2	550	1.76	8.31
3	1153	0.81	5.49
4	1153	1.47	5.90
5	721	1.76	6.46
6	192	0.28	1.93
7	192	1.20	4.49
8	17	0.26	1.67
9	736	1.24	5.44
10	600	0.35	2.91
11	700	0.57	4.05
12	900	0.69	4.55
13	1000	0.62	4.30
14	725	1.29	4.44
15	760	0.72	4.42
16	772	1.18	4.51
17	33	0.52	3.29
18	36	0.28	1.66
19	25	0.34	2.46
20	30	0.11	1.43
21	85	0.33	2.29
22	85	0.26	2.30
23	39	0.48	3.47
24	570	1.32	5.62
25	588	1.13	5.37
26	615	0.85	3.74
27	590	0.45	3.74
28	24	0.63	2.29
29	53	0.65	2.48
30	192	0.98	3.99
31	730	1.50	5.28
32	700	1.42	5.13
33	630	1.13	4.71
34	833	1.39	5.28
35	92	0.61	3.22
36	260	0.87	4.24
37	50	0.31	2.20
38	735	1.25	4.19
39	740	1.17	3.77
40	595	0.65	4.05
41	560	1.32	6.73
42	750	1.11	4.09
43	760	1.85	6.06
44	1110	1.31	6.82
45	610	0.98	4.13



(1)——(1) CROSS SECTION LOCATION

GRAPHIC SCALE

1500 0 750 1500 3000 6000

(IN FEET)
1 inch = 1500 ft.

FIGURE 4 BASIN AND CROSS SECTION MAP

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Fax: 702/263-7200

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Figure 4

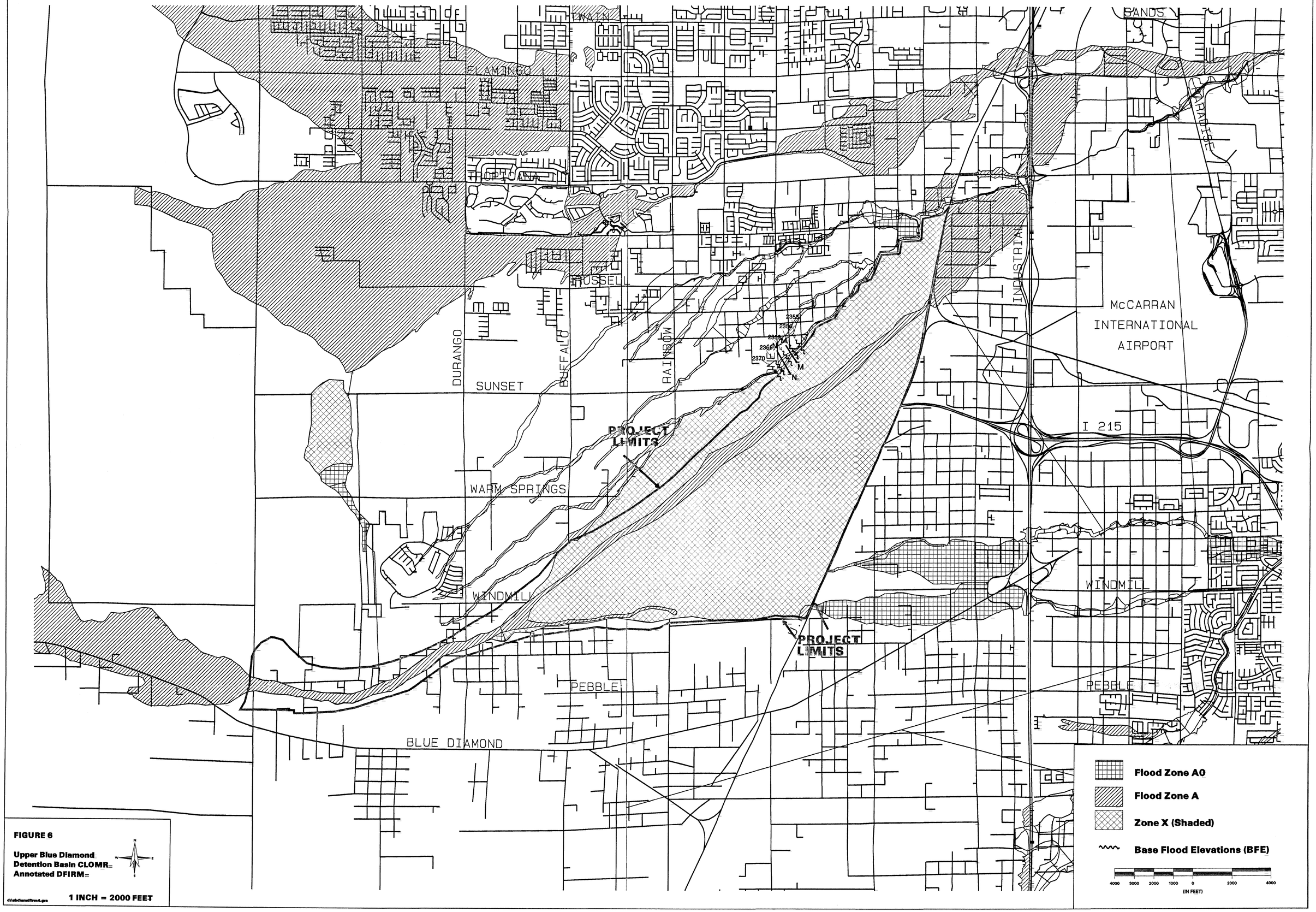

FIGURE 6

Upper Blue Diamond Detention Basin CLOMR= Annotated DFIRM=

1 INCH = 2000 FEET

d:\ebd\umdfirm4.gra

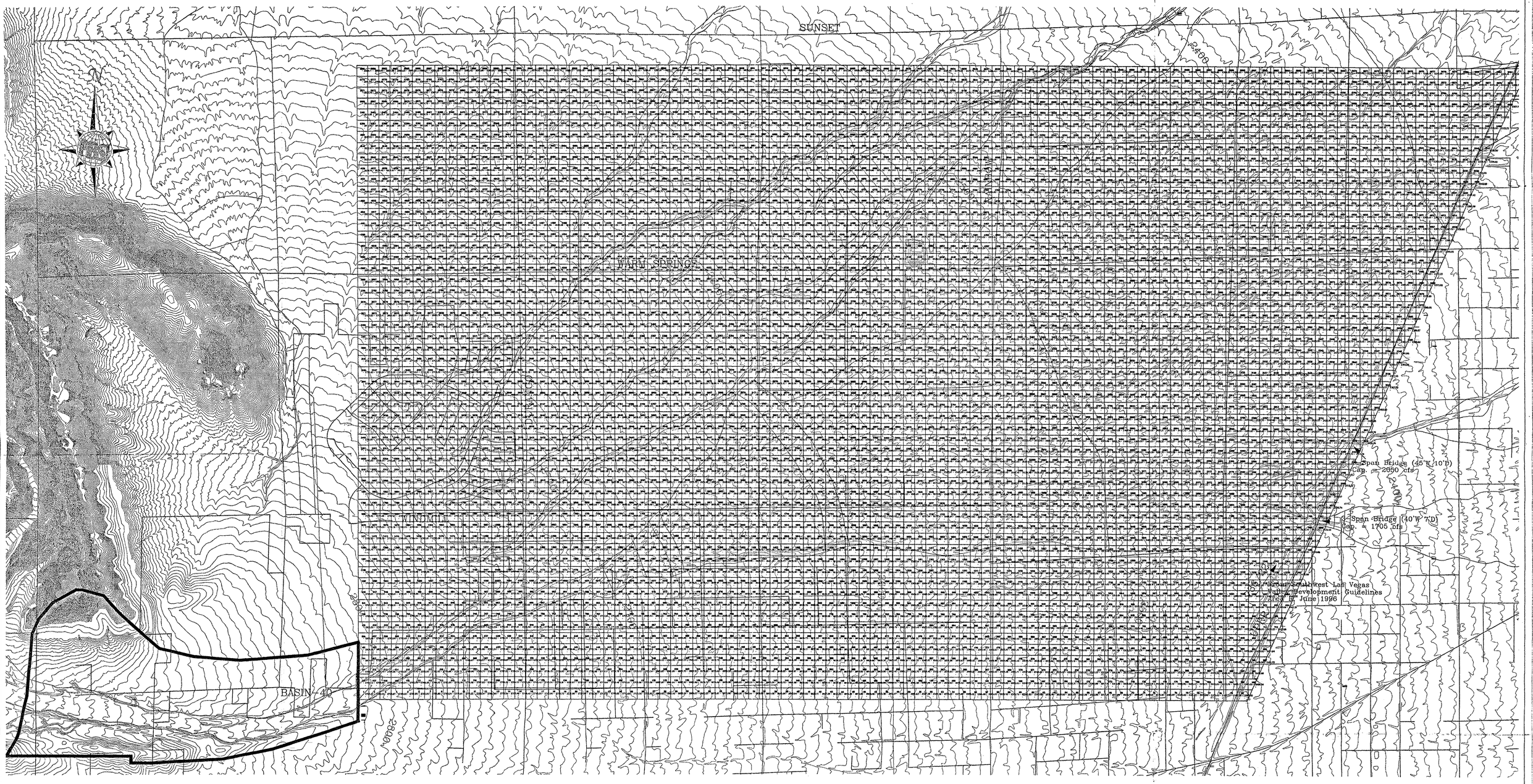

FIGURE 7 FLO-2D GRID MAP

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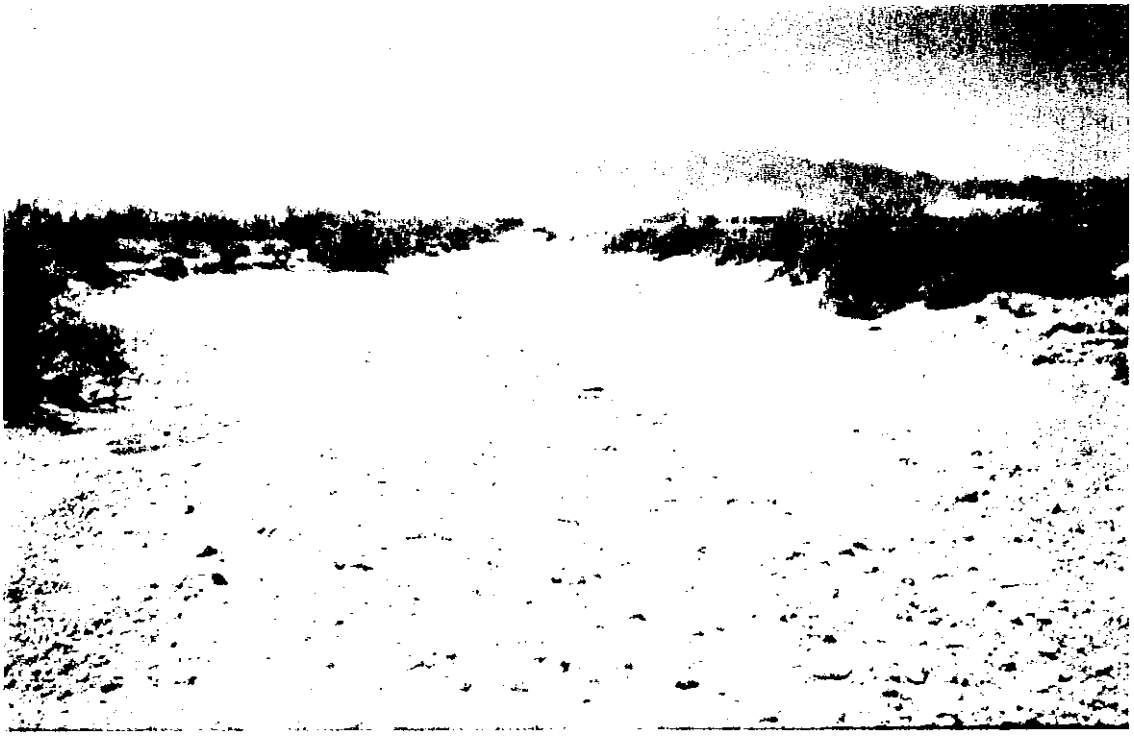
Figure 7



Blue Diamond Alluvial Fan looking upstream at flow split.

Blue Diamond Alluvial Fan looking downstream at flow split.

Figure 8: Flow Split Photo Documentation

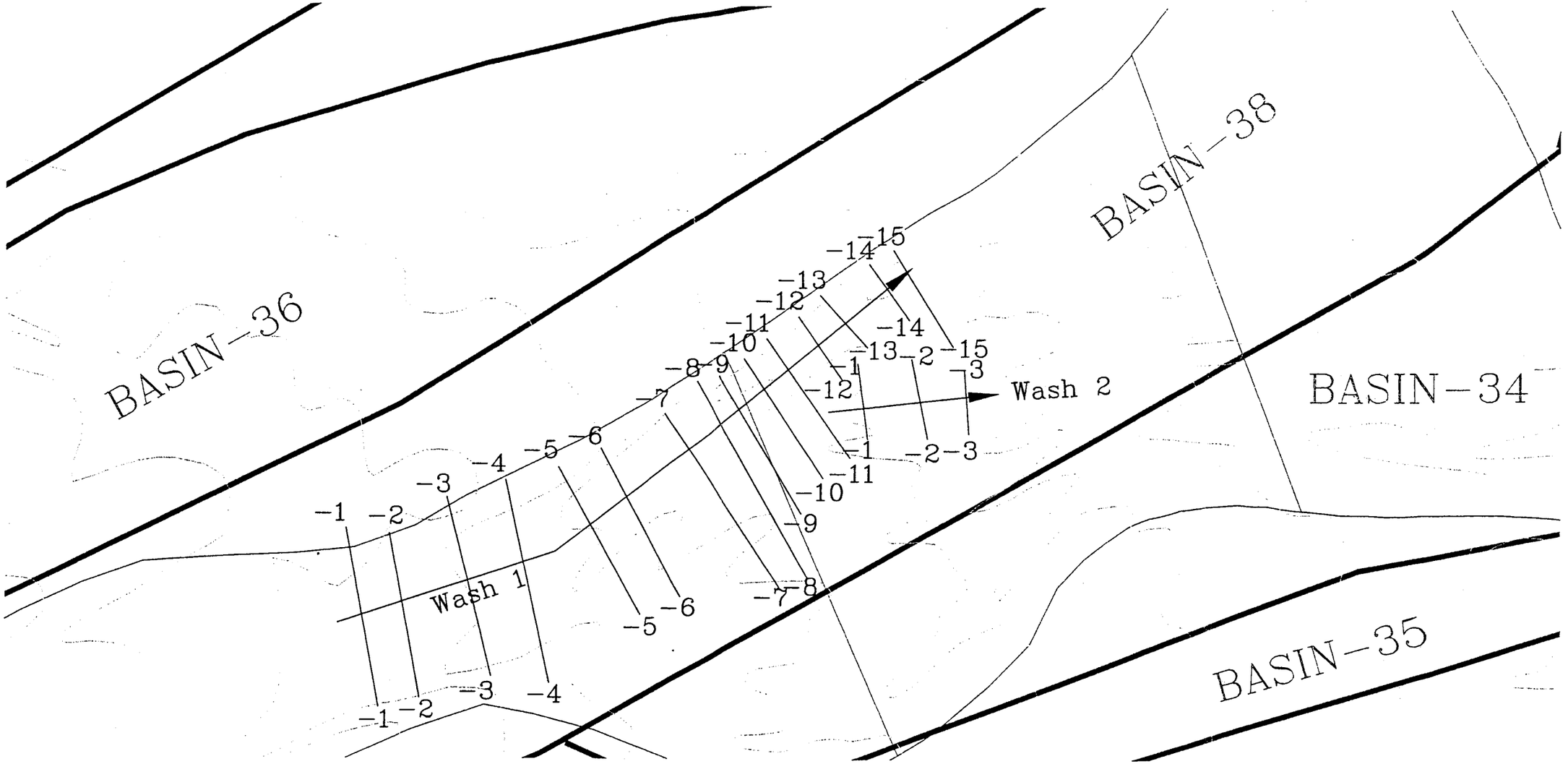


FIGURE 9 HEC-RAS CROSS SECTION LOCATIONS

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Figure 9

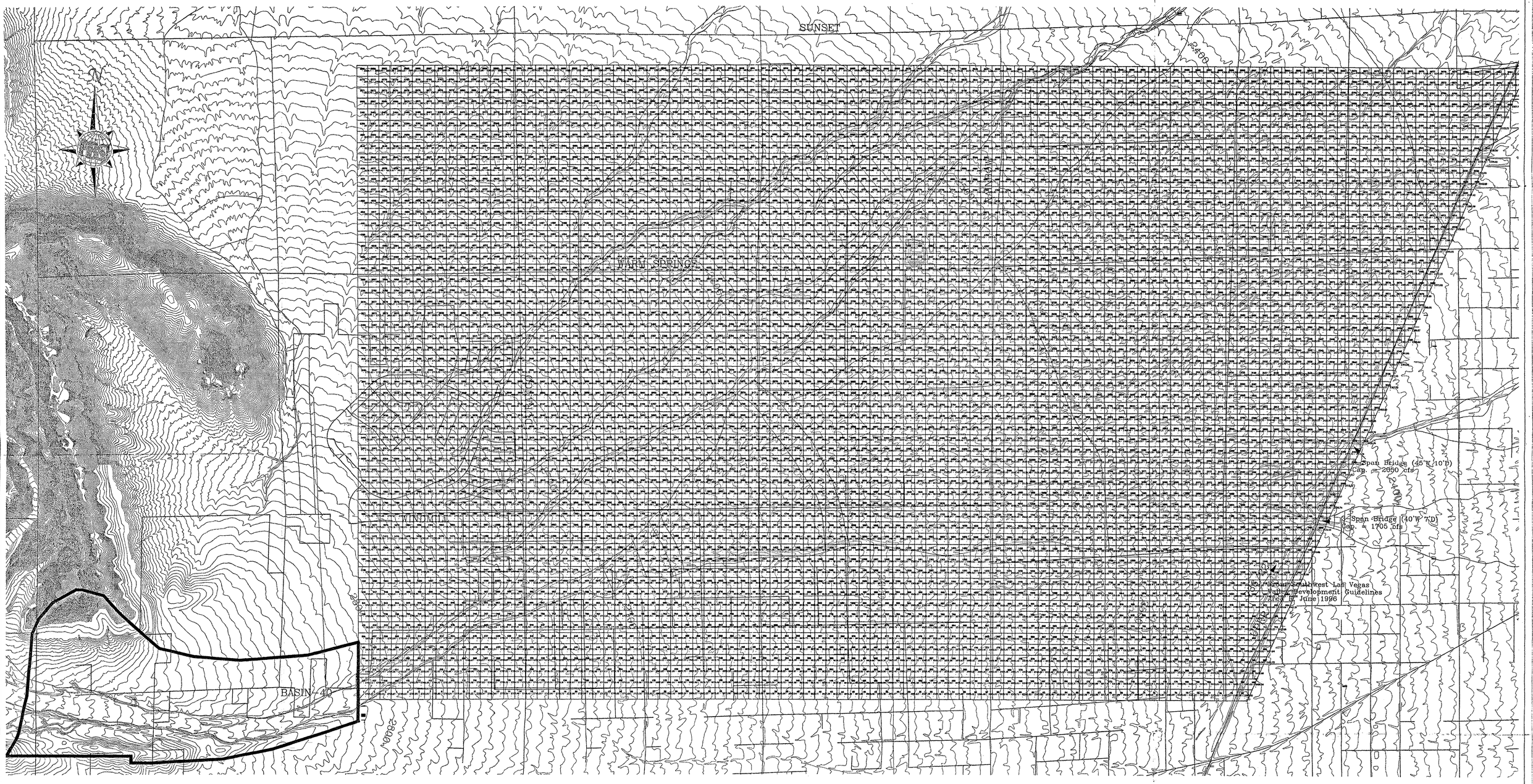

FIGURE 7 FLO-2D GRID MAP

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Figure 7

RUNOFF CURVE NUMBERS
(URBAN AREAS[1])

Cover description		Curve numbers for hydrologic soil group—			
Cover type and hydrologic condition	Average percent impervious area[2]	A	B	C	D
Fully developed urban areas (vegetation established)					
Open space (lawns, parks, golf courses, cemeteries, etc.)[3]:					
Poor condition (grass cover < 50%)		68	79	86	89
Fair condition (grass cover 50% to 75%)		49	69	79	84
Good condition (grass cover > 75%)		39	61	74	80
Impervious areas:					
Paved parking lots, roofs, driveways, etc. (excluding right-of-way)		98	98	98	98
Streets and roads:					
Paved: curbs and storm sewers (excluding right-of-way)		98	98	98	98
Paved: open ditches (including right-of-way)		83	89	92	93
Gravel (including right-of-way)		76	85	89	91
Dirt (including right-of-way)		72	82	87	89
Western desert urban areas:					
Natural desert landscaping (pervious areas only)[4]		63	77	85	88
Artificial desert landscaping (impervious weed barrier, desert shrub with 1- to 2-inch sand or gravel mulch and basin borders)		96	96	96	96
Urban districts:					
Commercial and business	85	(89)	92	94	(95)
Industrial	72	81	88	91	93
Residential districts by average lot size:					

See Table 602A

Developing urban areas					
Newly graded areas (pervious areas only, no vegetation)[5]		77	86	91	94

1 Average runoff condition, and $I_a = 0.2S$.

2 The average percent impervious area shown was used to develop the composite CN's. Other assumptions are as follows: impervious areas are directly connected to the drainage system. Impervious areas have a CN of 98, and pervious areas are considered equivalent to open space in good hydrologic condition. CN's for other combinations of conditions may be computed using Figure 603.

3 CN's shown are equivalent to those of pasture. Composite CN's may be computed for other combinations of open space cover type.

4 Composite CN's for natural desert landscaping should be computed using Figure 603 based on the impervious area percentage (CN #98) and the pervious area CN. The pervious area CN's are assumed equivalent to desert shrub in poor hydrologic condition.

5 Composite CN's to use for the design of temporary measures during grading and construction should be computed using Figure 603 based on the degree of development impervious area percentage) and the CN's for the newly graded pervious areas.

Revision	Date

RUNOFF CURVE NUMBERS
(SEMIARID RANGELANDS[1])

Cover description		Curve numbers for hydrologic soil group—			
Cover type	Hydrologic condition[2]	A[3]	B	C	D
Herbaceous—mixture of grass, weeds, and low-growing brush, with brush the minor element.	Poor		80	87	93
	Fair		71	81	89
	Good		62	74	85
Oak-aspen—mountain brush mixture of oak brush, aspen, mountain mahogany, bitter brush, maple, and other brush.	Poor		66	74	79
	Fair		48	57	63
	Good		30	41	48
Pinyon-juniper—pinyon, juniper, or both; grass understory.	Poor		75	85	89
	Fair		58	73	80
	Good		41	61	71
Sagebrush with grass understory.	Poor		67	80	85
	Fair		51	63	70
	Good		35	47	55
Desert shrub—major plants include saltbush, greasewood, creosotebush, blackbrush, bursage, palo verde, mesquite, and cactus.	Poor	63	77	85	88
	Fair	55	72	81	86
	Good	49	68	79	84

[1]Average runoff condition, and $I_a = 0.2S$.

[2]*Poor:* <30% ground cover (litter, grass, and brush overstory).
Fair: 30 to 70% ground cover.
Good: >70% ground cover.

[3]Curve numbers for group A have been developed only for desert shrub.

Revision	Date

Basin Curve Number Calculations

Basin ID	Soil Class	Soil Type	Percentage	Existing CN
Basin-1	260 - Jean	A	20	63
	240 - Goodsprings	D	80	88
				83
Basin-2	260 - Jean	A	95	63
	263 - Jean	A	5	63
				63
Basin-3	260 - Jean	A	50	63
	263 - Jean	A	50	63
				63
Basin-4	260 - Jean	A	100	63
				63
Basin-5	260 - Jean	A	70	63
	263 - Jean	A	25	63
	240 - Goodsprings	D	5	88
				64
Basin-6	263 - Jean	A	60	63
	260 - Jean	A	30	63
	240 - Goodsprings	D	10	88
				66
Basin-7	260 - Jean	A	100	63
				63
Basin-8	260 - Jean	A	100	63
				63
Basin-9	260 - Jean	A	100	63
				63
Basin-10	263 - Jean	A	95	63
	260 - Jean	A	5	63
				63
Basin-11	263 - Jean	A	100	63
				63
Basin-12	263 - Jean	A	85	63
	260 - Jean	A	10	63
	240 - Goodsprings	D	5	88
				64

Appendix III: Hydrologic Parameters

1-½

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Basin Curve Number Calculations

Basin ID	Soil Class	Soil Type	Percentage	Existing CN
Basin-13	263 - Jean	A	30	63
	260 - Jean	A	30	63
	240 - Goodsprings	D	40	88
				73
Basin-14	302 - Las Vegas	D	10	88
	240 - Goodsprings	D	60	88
	300 - Las Vegas	D	30	88
				88
Basin-15	263 - Jean	A	40	63
	240 - Goodsprings	D	60	88
				78
Basin 16	302 - Las Vegas	D	5	88
	240 - Goodsprings	D	70	88
	300 - Las Vegas	D	25	88
				88
Basin-17	263 - Jean	A	90	63
	240 - Goodsprings	D	10	88
				66
Basin-18	263 - Jean	A	90	63
	260 - Jean	A	10	63
				63
Basin-19	263 - Jean	A	90	63
	260 - Jean	A	10	63
				63
Basin-20	263 - Jean	A	60	63
	260 - Jean	A	40	63
				63
Basin-21	263 - Jean	A	70	63
	260 - Jean	A	30	63
				63
Basin-22	263 - Jean	A	5	63
	260 - Jean	A	70	63
	240 - Goodsprings	D	20	88
	252 - Grapevine	B	5	77
				69
Basin-23	263 - Jean	A	40	63

Basin Curve Number Calculations

Basin ID	Soil Class	Soil Type	Percentage	Existing CN
	260 - Jean	A	60	63
				63
Basin-24	263 - Jean	A	100	63
				63
Basin-25	263 - Jean	A	20	63
	240 - Goodsprings	D	80	88
				83
Basin-26	263 - Jean	A	90	63
	240 - Goodsprings	D	10	88
				66
Basin-27	263 - Jean	A	100	63
				63
Basin-28	263 - Jean	A	100	63
				63
Basin-29	263 - Jean	A	100	63
				63
Basin-30	260 - Jean	A	30	63
	252 - Grapevine	B	60	77
	240 - Goodsprings	D	5	88
	300 - Las Vegas	D	5	88
				74
Basin 31	302 - Las Vegas	D	5	88
	240 - Goodsprings	D	55	88
	300 - Las Vegas	D	40	88
				88
Basin-32	263 - Jean	A	90	63
	260 - Jean	A	10	63
				63
Basin-33	302 - Las Vegas	D	40	88
	240 - Goodsprings	D	30	88
	300 - Las Vegas	D	5	88
	263 - Jean	A	25	63
				82
Basin-34	263 - Jean	A	80	63
	240 - Goodsprings	D	20	88

Basin Curve Number Calculations

Basin ID	Soil Class	Soil Type	Percentage	Existing CN
				68
Basin-35	263 - Jean	A	40	63
	240 - Goodsprings	D	60	88
				78
Basin-36	152 - Cave	D	60	88
				88
Basin-37	240 - Goodsprings	D	20	88
	152 - Cave	D	60	88
	263 - Jean	A	20	63
				83
Basin-38	263 - Jean	A	60	63
	240 - Goodsprings	D	20	88
	152 - Cave	D	20	88
				73
Basin-40	263 - Jean	A	15	63
	240 - Goodsprings	D	15	88
	152 - Cave	D	50	88
	155 - Cave	D	10	88
	360 - St. Thomas	D	10	88
				84

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

TIME OF CONCENTRATION

PBS&J, Inc.
Project No. :
File: STDFRM4.XLS

DEVELOPMENT : CLOMR

CALCULATED BY : SCOTT STROSNIDER

DATE: JANUARY 2000

SUB-BASIN DATA					INITIAL / OVERLAND TIME (Ti)			TRAVEL TIME (Tt)					Tc	Tc CHECK URBANIZED BASINS		FINAL Tc	Tlag	REMARKS
DESIG: (1)	CN	K (2)	AREA (acres) (3)	AREA (mi^2)	LENGTH (ft) (4)	SLOPE (%) (5)	Ti (min) (6)	LENGTH (ft) (7)	SLOPE (%) (8)	LAND COVER k	VELOCITY* (fps) (9)	Tt (min) (10)	Tc = Ti + Tt (min) (11)	TOTAL LENGTH (ft) (12)	Tc = (L/180)+10 (min) (13)	Tc = (min) (14)	Tlag= 0.6Tc/60 (hrs)	
BASIN-1	83	0.706	154.8	0.2419	400	0.5	17.9	7900	1.4	NA	5.0	26.5	44.4	8300	N/A	44.4	0.444	
BASIN-2	63	0.442	55.8	0.0872	500	0.5	33.4	2000	1.6	NA	2.3	14.5	47.9	2500	N/A	47.9	0.479	
BASIN-3	63	0.442	70.8	0.1105	400	0.5	29.9	4200	1.6	NA	2.4	29.7	59.5	4600	N/A	59.5	0.595	
BASIN-4	63	0.442	89.7	0.1402	200	0.5	21.1	6000	1.6	NA	2.6	38.9	60.0	6200	N/A	60.0	0.600	
BASIN-5	65	0.468	348.4	0.5443	500	0.5	32.0	5700	1.6	NA	4.4	21.6	53.7	6200	N/A	53.7	0.537	
BASIN-6	63	0.442	298.6	0.4666	500	0.5	33.4	5500	1.7	NA	4.0	23.0	56.4	6000	N/A	56.4	0.564	
BASIN-7	63	0.442	88.3	0.1380	400	0.5	29.9	4400	1.6	NA	2.6	28.5	58.4	4800	N/A	58.4	0.584	
BASIN-8	63	0.442	34.3	0.0536	300	0.5	25.9	3300	1.4	NA	1.8	31.1	56.9	3600	N/A	56.9	0.569	
BASIN-9	63	0.442	31.3	0.0490	300	0.5	25.9	2900	1.5	NA	1.8	26.9	52.7	3200	N/A	52.7	0.527	
BASIN-10	63	0.442	102.0	0.1594	300	0.5	25.9	8400	1.7	NA	2.6	54.3	80.1	8700	N/A	80.1	0.801	
BASIN-11	63	0.442	184.6	0.2885	500	0.5	33.4	7500	1.6	NA	3.2	39.6	72.9	8000	N/A	72.9	0.729	
BASIN-12	64	0.455	209.4	0.3271	500	0.5	32.7	7000	1.8	NA	3.7	31.9	64.6	7500	N/A	64.6	0.646	
BASIN-13	73	0.574	143.4	0.2241	500	0.5	26.7	6400	1.5	NA	4.0	26.6	53.3	6900	N/A	53.3	0.533	

Tc = Ti + Tt Ti = 1.8 (1.1 - K) L^1/2 / S^1/3

lag = 0.6Tc K = 0.0132 (CN) - 0.39

* The velocity in column 9 is based on approximate channel properties.

REFERENCE :

STANDARD FORM 4

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

TIME OF CONCENTRATION

PBS&J, Inc. DEVELOPMENT : CLOMR
Project No. :
File: STDFRM4.XLS CALCULATED BY : SCOTT STROSNIDER DATE: JANUARY 2000

SUB-BASIN DATA					INITIAL / OVERLAND TIME (Ti)			TRAVEL TIME (Tt)					Tc	Tc CHECK URBANIZED BASINS		FINAL Tc	Tlag	REMARKS
DESIG: (1)	CN	K (2)	AREA (acres) (3)	AREA (mi^2)	LENGTH (ft) (4)	SLOPE (%) (5)	Ti (min) (6)	LENGTH (ft) (7)	SLOPE (%) (8)	LAND COVER k	VELOCITY* (fps) (9)	Tt (min) (10)	Tc = Ti + Tt (min) (11)	TOTAL LENGTH (ft) (12)	Tc = (L/180)+10 (min) (13)	Tc = (min) (14)	Tlag= 0.6Tc/60 (hrs)	
BASIN-14	88	0.772	174.7	0.2730	500	0.5	16.7	12700	1.3	NA	5*1	41.2	57.8	13200	N/A	57.8	0.578	
BASIN-15	78	0.640	56.5	0.0883	300	0.5	18.1	4900	1.7	NA	3.6	22.5	40.6	5200	N/A	40.6	0.406	
BASIN-16	88	0.772	164.0	0.2562	500	0.5	16.7	11500	1.3	NA	5.1	37.5	54.2	12000	N/A	54.2	0.542	
BASIN-17	66	0.481	183.1	0.2861	500	0.5	31.4	6400	1.7	NA	3.7	28.8	60.2	6900	N/A	60.2	0.602	
BASIN-18	63	0.442	117.6	0.1838	500	0.5	33.4	5900	1.7	NA	2.8	34.9	68.3	6400	N/A	68.3	0.683	
BASIN-19	63	0.442	87.8	0.1372	300	0.5	25.9	5900	1.7	NA	2.6	38.1	64.0	6200	N/A	64.0	0.640	
BASIN-20	63	0.442	52.0	0.0812	200	0.5	21.1	6100	1.8	NA	2.2	46.4	67.5	6300	N/A	67.5	0.675	
BASIN-21	63	0.442	211.4	0.3303	500	0.5	33.4	7400	1.8	NA	3.5	35.3	68.7	7900	N/A	68.7	0.687	
BASIN-22	69	0.521	136.4	0.2131	500	0.5	29.4	4300	1.5	NA	3.7	19.5	48.9	4800	N/A	48.9	0.489	
BASIN-23	63	0.442	94.2	0.1472	350	0.5	27.9	5350	1.7	NA	2.7	33.3	61.2	5700	N/A	61.2	0.612	
BASIN-24	63	0.442	56.0	0.0875	200	0.5	21.1	6600	1.8	NA	2.2	50.2	71.3	6800	N/A	71.3	0.713	
BASIN-25	83	0.706	91.4	0.1428	300	0.5	15.5	6100	1.7	NA	4.7	21.8	37.3	6400	N/A	37.3	0.373	
BASIN-26	66	0.481	91.7	0.1432	300	0.5	24.3	6100	1.7	NA	2.9	34.6	58.9	6400	N/A	58.9	0.589	

Tc = Ti + Tt Ti = 1.8 (1.1 - K) L^1/2 / S^1/3

lag = 0.6Tc K = 0.0132 (CN) - 0.39

* The velocity in column 9 is based on approximate channel properties.

REFERENCE :

STANDARD FORM 4

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

TIME OF CONCENTRATION

PBS&J, Inc.
Project No. :
File: STDFRM4.XLS

DEVELOPMENT : CLOMR

CALCULATED BY : SCOTT STROSNIDER

DATE: JANUARY 2000

SUB-BASIN DATA					INITIAL / OVERLAND TIME (Ti)			TRAVEL TIME (Tt)					Tc	Tc CHECK URBANIZED BASINS		FINAL Tc	Tlag	REMARKS
DESIG: (1)	CN	K (2)	AREA (acres) (3)	AREA (mi^2)	LENGTH (ft) (4)	SLOPE (%) (5)	Ti (min) (6)	LENGTH (ft) (7)	SLOPE (%) (8)	LAND COVER k	VELOCITY* (fps) (9)	Tt (min) (10)	Tc = Ti + Tt (min) (11)	TOTAL LENGTH (ft) (12)	Tc = (L/180)+10 (min) (13)	Tc = (min) (14)	Tlag= 0.6Tc/60 (hrs)	
BASIN-27	63	0.442	93.6	0.1462	300	0.5	25.9	8300	1.8	NA	2.6	53.6	79.5	8600	N/A	79.5	0.795	
BASIN-28	63	0.442	41.5	0.0648	250	0.5	23.6	3750	1.9	NA	2.2	29.1	52.7	4000	N/A	52.7	0.527	
BASIN-29	63	0.442	27.0	0.0422	200	0.5	21.1	3500	1.8	NA	1.8	32.2	53.3	3700	N/A	53.3	0.533	
BASIN-30	74	0.587	134.4	0.2100	500	0.5	26.0	4300	1.2	NA	3.8	18.8	44.8	4800	N/A	44.8	0.448	
BASIN-31	88	0.772	98.3	0.1536	500	0.5	16.7	3800	1.5	NA	5.1	12.4	29.1	4300	N/A	29.1	0.291	
BASIN-32	63	0.442	24.2	0.0378	250	0.5	23.6	2750	1.8	NA	1.8	25.3	48.9	3000	N/A	48.9	0.489	
BASIN-33	82	0.692	61.1	0.0954	500	0.5	20.7	2500	1.5	NA	4.0	10.4	31.0	3000	N/A	31.0	0.310	
BASIN-34	68	0.508	123.6	0.1932	300	0.5	23.3	9050	1.8	NA	3.6	42.1	65.4	9350	N/A	65.4	0.654	
BASIN-35	78	0.640	69.8	0.1091	250	0.5	16.5	10750	1.8	NA	3.6	49.2	65.7	11000	N/A	65.7	0.657	
BASIN-36	88	0.772	37.5	0.0585	250	0.5	11.8	4350	1.9	NA	4.1	17.6	29.4	4600	N/A	29.4	0.294	
BASIN-37	83	0.706	78.7	0.1229	300	0.5	15.5	6700	1.9	NA	4.6	24.1	39.6	7000	N/A	39.6	0.396	
BASIN-38	73	0.574	84.9	0.1326	300	0.5	20.7	6100	1.9	NA	3.8	26.5	47.2	6400	N/A	47.2	0.472	
BASIN-40	84	0.719	561.6	0.8775	500	0.5	19.3	11200	1.4	NA	7.2	25.8	45.1	11700	N/A	45.1	0.451	
OFFSITE	88	0.772	381.0	0.5953	500	0.8	14.2	8000	2.5	NA	8.1	16.4	30.7	8500	N/A	30.7	0.307	

Tc = Ti + Tt Ti = 1.8 (1.1 - K) L^1/2 / S^1/3

lag = 0.6Tc K = 0.0132 (CN) - 0.39

* The velocity in column 9 is based on approximate channel properties.

REFERENCE :

STANDARD FORM 4

HEC-1 Analysis

```
1*************************************
*                                   *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*             MAY  1991             *
*           VERSION 4.0.1E          *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
* RUN DATE  02/19/00  TIME  14:51:22  *
*************************************
```

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

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

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

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


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

            1       ID        File: BD.DAT
            2       ID
            3       ID   Post, Buckley, Schuh & Jernigan, Inc.
            4       ID
            5       ID    EXISTING DRAINAGE CONDITIONS RUN
            6       ID
            7       ID   ********************************
            8       ID   ********************************
            9       ID   *                              *
           10       ID   *             CLOMR            *
           11       ID   *                              *
           12       ID   *                              *
           13       ID   *           02/19/00           *
           14       ID   *                              *
           15       ID   *   FILE : BD.DAT              *
           16       ID   *                              *
           17       ID   *                              *
           18       ID   *                              *
           19       ID   *                              *
           20       ID   *          EXISTING            *
           21       ID   *                              *
           22       ID   *         CONDITIONS           *
           23       ID   ********************************
           24       ID   ********************************
           25       ID
           26       ID   THIS ANALYSIS IS TO SIMULATE A 55%/45% FLOW SPLIT
           27       ID
                    *DIAGRAM
*** FREE ***
           28       IT       5       0       0     300
           29       IO       5       0       0
           30       IN       5       0       0
           31       JR    PREC    1.00    0.98    0.57
                    *
           32       ID   * BLUE DIAMOND DETENTION BASINS REFRENCED FROM MPU BASIN DELINEATION BY COE
           33       ID   ************************************************************************
           34       ID    BLUE DIAMOND DETENTION BASIN DESIGN.....................FILE = BDDB.LA1
           35       ID    SOURCE OF FILE= NEWBDDB1.LA1.....................................
           36       ID    ================================================================
           37       ID    MODEL CREATED TO DUPLICATE THE BLUE DIAMOND DETENTION BASIN DESIGN
           38       ID    AS OF JAN 31 1996.
           39       ID    FILE NEWBDDB1.LA1 DATED 6-23-96 WAS USED, AND RAINFALL & PATTERN ADJUSTED
           40       ID    RAIN = 1.76 (CURVE) X 1.26 (TF) = 2.22 IN.  AS STATED IN TROP. DM DRAFT
           41       ID    PATTERN # = 4.95     DA =68.25    DARF =
           42       ID                        JLF  2/1/96
           43       ID                  ************************************
           44       ID    (A REVISED EL-VOL-STO IS COMING SOON.  THIS DOES NOT INCLUDE IT)
           45       ID    ELEVATIONS ARE NGVD
           46       ID                  ************************************
           47       ID    COMMENTS BELOW THIS POINT WERE IN FILE NEWBDDB1.LA1 AND THEREFORE
           48       ID    RAIN, DARF & PATTERNS BELOW THIS POINT ARE NOT APPLICABLE TO THIS FILE
           49       ID    ================================================================
           50       ID
           51       ID    REVISED TO ESTIMATE RUNOFF FROM 0.6 SQ.MI. AREA CONTRIBUTING TO A CP AT
           52       ID    BLUE DIAMOND ROAD, JUST U/S OF BLUE DIAMOND DB.
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          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

           53       ID
           54       ID    DEPTH-AREA AND PATTERN FOR AREA ABOVE BLUE DIAMOND DB.
           55       ID    DA = 68.25 MI2.  DARF = . PATTERN # = 4.9.
           56       ID    RAIN =  1.75 (CURVE) X  1.26 (TF) =  2.20 IN.
           57       ID
           58       ID                              HN 6/22/95
           59       ID   ================================================================
           60       ID

           61       KK      71
           62       KM   RUNOFF FROM SCS SUBAREA 71
           63       BA     6.9
           64       KM   LAS VEGAS STANDARD PROJECT SUMMER THUNDERSTORM
           65       PB    2.22
           66       PI    .533   1.039    .559    .786    .891    .165    .261    .204    .077    .232
           67       PI    .055    .131    .081    .185    .139    .212    .264    .268    .293    .237
           68       PI    .233    .157    .386    .270    .268    .140    .109    .029    .188    .105
           69       PI    .157    .174    .344    .388    .514    .718    .589   1.256   1.023   1.255
           70       PI   1.842   2.158    .282    .302    .574    .710    .293    .135    .233    .161
           71       PI    .258    .168    .373    .514    .789    .554    .735    .741    .108    .108
           72       PI    .132    .053    .053    .053    .105    .025    .053    .027    .080    .025
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 73          PI    .053    .027
 74          LU      0    0.50       0
 75          UD   0.42

 76          KK     71R
 77          KM   ROUTE 71 THRU 501
 78          RM       5    0.39    0.15

 79          KK     501
 80          KM   RUNOFF FROM SCS SUBAREA 501
 81          BA   11.28
 82          KM   LAS VEGAS STANDARD PROJECT SUMMER THUNDERSTORM
 83          PB    2.22
 84          PI    .533   1.039    .559    .786    .891    .165    .261    .204    .077    .232
 85          PI    .055    .131    .081    .185    .139    .212    .264    .268    .293    .237
 86          PI    .233    .157    .386    .270    .268    .140    .109    .029    .188    .105
 87          PI    .157    .174    .344    .388    .514    .718    .589   1.256   1.023   1.255
 88          PI   1.842   2.158    .282    .302    .574    .710    .293    .135    .233    .161
 89          PI    .258    .168    .373    .514    .789    .554    .735    .741    .108    .108
 90          PI    .132    .053    .053    .053    .105    .025    .053    .027    .080    .025
 91          PI    .053    .027
 92          LU      0    0.50       0
 93          UD   0.45

 94          KK    501C
 95          KM   COMBINE 71 AND 501
 96          HC       2

 97          KK    501R
 98          KM   ROUTE 501C THRU 502
 99          RM       5    0.40    0.15
1                                    HEC-1 INPUT                                          PAGE  3

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

100          KK     502
101          KM   RUNOFF FROM SCS SUBAREA 502
102          KM   DRAINAGE AREA CORRECTED BY JP 2/21/92
103          BA   27.40
104          KM   LAS VEGAS STANDARD PROJECT SUMMER THUNDERSTORM
105          PB    2.22
106          PI    .533   1.039    .559    .786    .891    .165    .261    .204    .077    .232
107          PI    .055    .131    .081    .185    .139    .212    .264    .268    .293    .237
108          PI    .233    .157    .386    .270    .268    .140    .109    .029    .188    .105
109          PI    .157    .174    .344    .388    .514    .718    .589   1.256   1.023   1.255
110          PI   1.842   2.158    .282    .302    .574    .710    .293    .135    .233    .161
111          PI    .258    .168    .373    .514    .789    .554    .735    .741    .108    .108
112          PI    .132    .053    .053    .053    .105    .025    .053    .027    .080    .025
113          PI    .053    .027
114          LU      0    0.50       0
115          UD   0.95

116          KK    502C
117          KM   COMBINE 501R AND 502
118          HC       2

119          KK      72
120          KM   RUNOFF FROM SCS SUBAREA 72
121          BA    6.58
122          KM   LAS VEGAS STANDARD PROJECT SUMMER THUNDERSTORM
123          PB    2.22
124          PI    .533   1.039    .559    .786    .891    .165    .261    .204    .077    .232
125          PI    .055    .131    .081    .185    .139    .212    .264    .268    .293    .237
126          PI    .233    .157    .386    .270    .268    .140    .109    .029    .188    .105
127          PI    .157    .174    .344    .388    .514    .718    .589   1.256   1.023   1.255
128          PI   1.842   2.158    .282    .302    .574    .710    .293    .135    .233    .161
129          PI    .258    .168    .373    .514    .789    .554    .735    .741    .108    .108
130          PI    .132    .053    .053    .053    .105    .025    .053    .027    .080    .025
131          PI    .053    .027
132          LU      0    0.50       0
133          UD   0.46

134          KK   502CC
135          KM   COMBINE 72 AND 502C
136          HC       2

137          KK    502R
138          KM   ROUTE 502CC THRU 503
139          RM       4    0.36    0.15

140          KK      73
141          KM   RUNOFF FROM SCS SUBAREA 73
142          BA    4.02
143          KM   LAS VEGAS STANDARD PROJECT SUMMER THUNDERSTORM
144          PB    2.22
145          PI    .533   1.039    .559    .786    .891    .165    .261    .204    .077    .232
146          PI    .055    .131    .081    .185    .139    .212    .264    .268    .293    .237
147          PI    .233    .157    .386    .270    .268    .140    .109    .029    .188    .105
148          PI    .157    .174    .344    .388    .514    .718    .589   1.256   1.023   1.255
1                                    HEC-1 INPUT                                          PAGE  4

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

149          PI   1.842   2.158    .282    .302    .574    .710    .293    .135    .233    .161
150          PI    .258    .168    .373    .514    .789    .554    .735    .741    .108    .108
151          PI    .132    .053    .053    .053    .105    .025    .053    .027    .080    .025
152          PI    .053    .027
153          LU      0    0.50       0
154          UD   0.47

155          KK     73R
156          KM   ROUTE 73 THRU 503
157          RM       4    0.36    0.15

158          KK     503
159          KM   RUNOFF FROM SCS SUBAREA 503
160          BA    5.54
161          KM   LAS VEGAS STANDARD PROJECT SUMMER THUNDERSTORM
162          PB    2.22
163          PI    .533   1.039    .559    .786    .891    .165    .261    .204    .077    .232
164          PI    .055    .131    .081    .185    .139    .212    .264    .268    .293    .237
165          PI    .233    .157    .386    .270    .268    .140    .109    .029    .188    .105
166          PI    .157    .174    .344    .388    .514    .718    .589   1.256   1.023   1.255
167          PI   1.842   2.158    .282    .302    .574    .710    .293    .135    .233    .161
168          PI    .258    .168    .373    .514    .789    .554    .735    .741    .108    .108
169          PI    .132    .053    .053    .053    .105    .025    .053    .027    .080    .025
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170          PI     .053     .027
171          LU       0     0.50        0
172          UD    0.94

173          KK     503C
174          KM    COMBINE 502R, 73, AND 503
175          HC        3

176          KK     503R
177          KM    ROUTE 503 THRU 504
178          RM        4     0.36     0.15

179          KK      504
180          KM    RUNOFF FROM SCS SUBAREA 504
181          BA     6.53
182          KM    LAS VEGAS STANDARD PROJECT SUMMER THUNDERSTORM
183          PB     2.22
184          PI     .533    1.039     .559     .786     .891     .165     .261     .204     .077     .232
185          PI     .055     .131     .081     .185     .139     .212     .264     .268     .293     .237
186          PI     .233     .157     .386     .270     .268     .140     .109     .029     .188     .105
187          PI     .157     .174     .344     .388     .514     .718     .589    1.256    1.023    1.255
188          PI    1.842    2.158     .282     .302     .574     .710     .293     .135     .233     .161
189          PI     .258     .168     .373     .514     .789     .554     .735     .741     .108     .108
190          PI     .132     .053     .053     .053     .105     .025     .053     .027     .080     .025
191          PI     .053     .027
192          LU       0     0.50        0
193          UD    0.91
1                                        HEC-1 INPUT                                                    PAGE  5
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

194          KK     INBD
195          KM    COMBINE 503R AND 504 - FLOW ABOVE BLUE DIAMOND
196          KM    CHANNEL CAPACITY = 12300 CFS
197          HC        2
             * ===========================================================================

198          KK       BD
199          KM    BLUE DIAMOND DETENTION BASIN
200          KM    100YR COMPUTED PROBABILITY DETENTION DESIGN ... ON-LINE
201          KM    BROAD-CRESTED WEIR SPILLWAY - 1000 FT LONG
202          KM    30" DIA OUTLET
203          KM    SPILLWAY CREST = 2915 FT NGVD
204          KM    TOP OF DAM = 2930 FT NGVD
205          RS        1    STOR       -1
206          SV        0     1.6     12.8     37.2     79.3    150.8    264.7    433.2    668.8    973.4
207          SV   1340.8  1775.1  2281.8  2398.2  2514.5  2630.9  2747.2  2863.6  3444.8  4026.3
208          SQ        0       38       74       97      116      132      147      160      172      183
209          SQ      194      204      214     3716    10117    18406    28221    39354   110911   203572
210          SE     2857     2860     2865     2870     2875     2880     2885     2890     2895     2900
211          SE     2905     2910     2915     2916     2917     2918     2919     2920     2925     2930
             * ===========================================================================
             * END OF COE BASINS, BEGIN CLOMR BASINS

212          KK OFFSITEBASIN
213          KM    EXISTING OFFSITE BASIN
214          BA   0.5953
215          PB     2.77
216          LS        0       88
217          UD    0.307
             *

218          KK   COMB-1
219          KM    COMBINED BD AND OFFSITE BASIN
220          HC        2
             *

221          KK       RO
222          KM    ROUTE BD THROUGH BASIN-40
223          RK    11200    0.014    0.030        0     TRAP      100
             *

224          KKBASIN-40
225          KM    EXISTING BASIN BASIN-40
226          BA   0.8775
227          PB     2.77
228          PC     .000     .020     .057     .070     .087     .108     .124     .130     .130     .130
229          PC     .130     .130     .130     .133     .140     .142     .148     .158     .172     .181
230          PC     .190     .197     .199     .200     .201     .204     .214     .229     .241     .249
231          PC     .251     .256     .270     .278     .281     .283     .295     .322     .352     .409
232          PC     .499     .590     .710     .744     .781     .812     .819     .835     .851     .856
233          PC     .860     .868     .876     .888     .910     .926     .937     .950     .970     .976
234          PC     .982     .985     .987     .989     .990     .993     .993     .994     .995     .998
235          PC     .998     .999    1.00
236          LS        0       84
1                                        HEC-1 INPUT                                                    PAGE  6
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9......10

237          UD    0.451
             *

238          KK      C-0
239          KM    COMBINED RO AND BASIN-40
240          HC        2
             *

241          KK   SPLIT1
242          KM    45% FLOW DIVERTED FROM BASIN 38 TO BASIN 34
243          DT   SPLIT1
244          DI        0      288      577     1153
245          DQ        0      131      262      523
             *

246          KKBASIN-38
247          KM    EXISTING BASIN-38
248          BA   0.1326
249          PB     2.77
250          LS        0       73
251          UD    0.472
             *

252          KKBASIN-36
253          KM    EXISTING BASIN-36
254          BA   0.0585
```

```
 327          KK     C-8
 328          KM   COMBINED R8 AND BASIN-3
 329          HC       2
              *

 330          KKBASIN-27
 331          KM   EXISTING BASIN-27
 332          BA  0.1462
 333          PB    2.77
 334          LS       0      63
 335          UD   0.795
              *

 336          KK      R9
 337          KM   ROUTE BASIN 27 THROUGH BASIN-18
 338          RK    5900   0.017   0.030       0    TRAP     100
              *
1                                        HEC-1 INPUT                                                    PAGE  9

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

 339          KKBASIN-18
 340          KM   EXISTING BASIN-18
 341          BA  0.1838
 342          PB    2.77
 343          LS       0      63
 344          UD   0.683
              *

 345          KK     C-9
 346          KM   COMBINED R9 AND BASIN-18
 347          HC       2
              *

 348          KK     R10
 349          KM   ROUTE C-9 THROUGH BASIN-2
 350          RK    2000   0.016   0.030       0    TRAP     100
              *

 351          KK BASIN-2
 352          KM   EXISTING BASIN-2
 353          BA  0.0872
 354          PB    2.77
 355          LS       0      63
 356          UD   0.479
              *

 357          KK    C-10
 358          KM   COMBINED R10 AND BASIN-2
 359          HC       2
              *

 360          KK    C-29
 361          KM   COMBINED C-10 AND C-8
 362          HC       2
              *

 363          KK     R18
 364          KM   ROUTE C-27 THROUGH BASIN-22
 365          RK    4200   0.015   0.030       0    TRAP     100
              *

 366          KKBASIN-22
 367          KM   EXISTING BASIN-22
 368          BA  0.2131
 369          PB    2.77
 370          LS       0      69
 371          UD   0.489
              *
1                                        HEC-1 INPUT                                                    PAGE 10

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

 372          KK    C-18
 373          KM   COMBINED R18 AND BASIN-22
 374          HC       2
              *

 375          KKBASIN-37
 376          KM   EXISTING BASIN-37
 377          BA  0.1229
 378          PB    2.77
 379          LS       0      83
 380          UD   0.396
              *

 381          KK     R22
 382          KM   ROUTE BASIN 37 THROUGH BASIN-25
 383          RK    6100   0.017   0.030       0    TRAP     100
              *

 384          KKBASIN-25
 385          KM   EXISTING BASIN-25
 386          BA  0.1428
 387          PB    2.77
 388          LS       0      83
 389          UD   0.373
              *

 390          KK    C-22
 391          KM   COMBINED R22 AND BASIN-25
 392          HC       2
              *

 393          KK     R23
 394          KM   ROUTE C-22 THROUGH BASIN-15
 395          RK    4900   0.017   0.030       0    TRAP     100
              *

 396          KKBASIN-15
 397          KM   EXISTING BASIN-15
 398          BA  0.0883
```

```
399          PB    2.77
400          LS       0      78
401          UD   0.406
             *

402          KK    C-23
403          KM   COMBINED R23 AND BASIN-15
404          HC       2
             *
```



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

405          KK     R28
406          KM   ROUTE C-23 THROUGH BASIN-1
407          RK    7900   0.014   0.030       0    TRAP     100
             *

408          KK BASIN-1
409          KM   EXISTING BASIN-1
410          BA  0.2419
411          PB    2.77
412          LS       0      83
413          UD   0.444
             *

414          KK    C-28
415          KM   COMBINED R28 AND BASIN-1
416          HC       2
             *

417          KK    C-25
418          KM   COMBINED C-28, C-18, C-27
419          HC       3
             *

420          KK     R33
421          KM   ROUTE C-25 THROUGH BASIN-33
422          RK    2500   0.015   0.030       0    TRAP     100
             *

423          KKBASIN-33
424          KM   EXISTING BASIN-33
425          BA  0.0954
426          PB    2.77
427          LS       0      82
428          UD   0.310
             *

429          KK    C-33
430          KM   COMBINED C-25 AND BASIN-33
431          HC       2
             *

432          KKBASIN-29
433          KM   EXISTING BASIN-29
434          BA  0.0422
435          PB    2.77
436          LS       0      63
437          UD   0.533
             *
```



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

438          KK     R14
439          KM   ROUTE BASIN 29 THROUGH BASIN-20
440          RK    6100   0.018   0.030       0    TRAP     100
             *

441          KKBASIN-20
442          KM   EXISTING BASIN-20
443          BA  0.0812
444          PB    2.77
445          LS       0      63
446          UD   0.675
             *

447          KK    C-14
448          KM   COMBINED R14 AND BASIN-20
449          HC       2
             *

450          KK     R15
451          KM   ROUTE C-14 THROUGH BASIN-4
452          RK    6000   0.016   0.030       0    TRAP     100
             *

453          KK BASIN-4
454          KM   EXISTING BASIN-4
455          BA  0.1402
456          PB    2.77
457          LS       0      63
458          UD   0.600
             *

459          KK    C-15
460          KM   COMBINED R15 AND BASIN-4
461          HC       2
             *

462          KK     R19
463          KM   ROUTE C-15 THROUGH BASIN-30
464          RK    4300   0.012   0.030       0    TRAP     100
             *

465          KKBASIN-30
466          KM   EXISTING BASIN-30
467          BA  0.2100
468          PB    2.77
469          LS       0      74
470          UD   0.448
             *
```

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

  471     KK    C-19
  472     KM   COMBINED R19 AND BASIN-30
  473     HC       2
          *
  474     KK    C-34
  475     KM   COMBINED C-19 AND C-34
  476     HC       2
          *
  477     KKBASIN-24
  478     KM   EXISTING BASIN-24
  479     BA  0.0875
  480     PB    2.77
  481     LS       0      63
  482     UD   0.713
          *
  483     KK     R11
  484     KM   ROUTE BASIN 33 THROUGH BASIN-11
  485     RK    7850   0.016   0.030       0    TRAP     100
          *
  486     KKBASIN-11
  487     KM   EXISTING BASIN-11
  488     BA  0.2885
  489     PB    2.77
  490     LS       0      63
  491     UD   0.729
          *
  492     KK    C-11
  493     KM   COMBINED R11 AND BASIN-11
  494     HC       2
          *
  495     KKBASIN-21
  496     KM   EXISTING BASIN-21
  497     BA  0.3303
  498     PB    2.77
  499     LS       0      63
  500     UD   0.687
          *
  501     KK     R12
  502     KM   ROUTE BASIN 21 THROUGH BASIN-6
  503     RK    5500   0.017   0.030       0    TRAP     100
          *
```



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

  504     KK BASIN-6
  505     KM   EXISTING BASIN-6
  506     BA  0.4666
  507     PB    2.77
  508     LS       0      63
  509     UD   0.564
          *
  510     KK    C-12
  511     KM   COMBINED R12 AND BASIN-6
  512     HC       2
          *
  513     KK     R13
  514     KM   ROUTE C-12 THROUGH BASIN-5
  515     RK    5700   0.016   0.030       0    TRAP     100
          *
  516     KK BASIN-5
  517     KM   EXISTING BASIN-5
  518     BA  0.5443
  519     PB    2.77
  520     LS       0      65
  521     UD   0.537
          *
  522     KK    C-13
  523     KM   COMBINED R13 AND BASIN-5
  524     HC       2
          *
  525     KKBASIN-32
  526     KM   EXISTING BASIN-32
  527     BA  0.0378
  528     PB    2.77
  529     LS       0      63
  530     UD   0.489
          *
  531     KK     R16
  532     KM   ROUTE BASIN 32 THROUGH BASIN-23
  533     RK    5350   0.017   0.030       0    TRAP     100
          *
  534     KKBASIN-23
  535     KM   EXISTING BASIN-23
  536     BA  0.1472
  537     PB    2.77
  538     LS       0      63
  539     UD   0.612
          *
```



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

  540     KK    C-16
```

```
541          KM   COMBINED R16 AND BASIN-23
542          HC       2
             *
543          KK     R17
544          KM   ROUTE C-16 THROUGH BASIN-7
545          RK    4400   0.016   0.030       0    TRAP     100
             *
546          KK BASIN-7
547          KM   EXISTING BASIN-7
548          BA  0.1380
549          PB    2.77
550          LS       0      63
551          UD   0.584
             *
552          KK    C-17
553          KM   COMBINED R17 AND BASIN-7
554          HC       2
             *
555          KKBASIN-10
556          KM   EXISTING BASIN-10
557          BA  0.1594
558          PB    2.77
559          LS       0      63
560          UD   0.801
             *
561          KK BASIN-8
562          KM   EXISTING BASIN-8
563          BA  0.0536
564          PB    2.77
565          LS       0      63
566          UD   0.569
             *
567          KK BASIN-9
568          KM   EXISTING BASIN-9
569          BA  0.0490
570          PB    2.77
571          LS       0      63
572          UD   0.527
             *
573          KK    C-26
574          KM   COMBINED C-11, C-13, C-17, C-19, BASINS 8, 9, 10
575          HC       7
             *
1                                        HEC-1 INPUT                                        PAGE 16

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

576          KKBASIN-34
577          KM   EXISTING BASIN-34
578          BA  0.1932
579          PB    2.77
580          LS       0      69
581          UD   0.654
             *
582          KK  SPLIT1
583          KM   RETREIVE FLOW SPLIT FROM BASIN 38
584          DR  SPLIT1
             *
585          KKBASIN-35
586          KM   EXISTING BASIN-35
587          BA  0.1091
588          PB    2.77
589          LS       0      78
590          UD   0.657
             *
591          KK    C-1B
592          KM   COMBINED SPLIT1, BASIN-35, AND BASIN-34
593          HC       3
             *
594          KK     R5
595          KM   ROUTE C-1B THROUGH BASIN-12
596          RK    7100   0.018   0.030       0    TRAP     100
             *
597          KKBASIN-12
598          KM   EXISTING BASIN-12
599          BA  0.3271
600          PB    2.77
601          LS       0      64
602          UD   0.646
             *
603          KK     C-5
604          KM   COMBINED R5 AND BASIN-12
605          HC       2
             *
606          KKBASIN-14
607          KM   EXISTING BASIN-14
608          BA  0.2730
609          PB    2.77
610          LS       0      88
611          UD   0.578
             *
                                         HEC-1 INPUT                                        PAGE 17

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

612          KKBASIN-16
613          KM   EXISTING BASIN-16
614          BA  0.2562
615          PB    2.77
```

```
616           LS       0      88
617           UD   0.542
              *

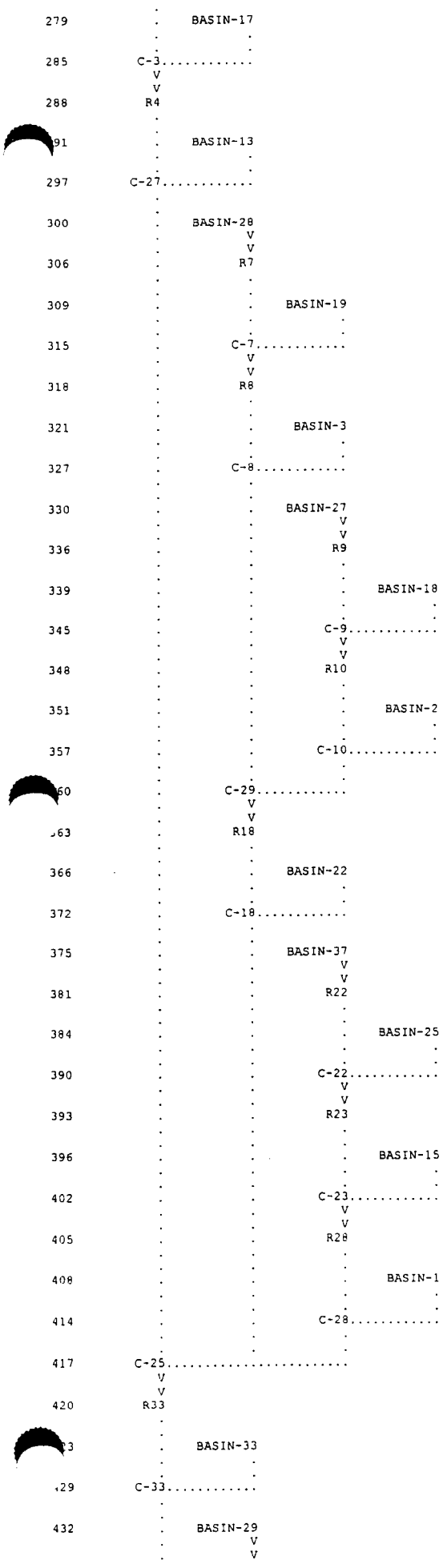
618           KKBASIN-31
619           KM   EXISTING BASIN-31
620           BA  0.1536
621           PB    2.77
622           LS       0      88
623           UD   0.291
              *
624           ZZ
```

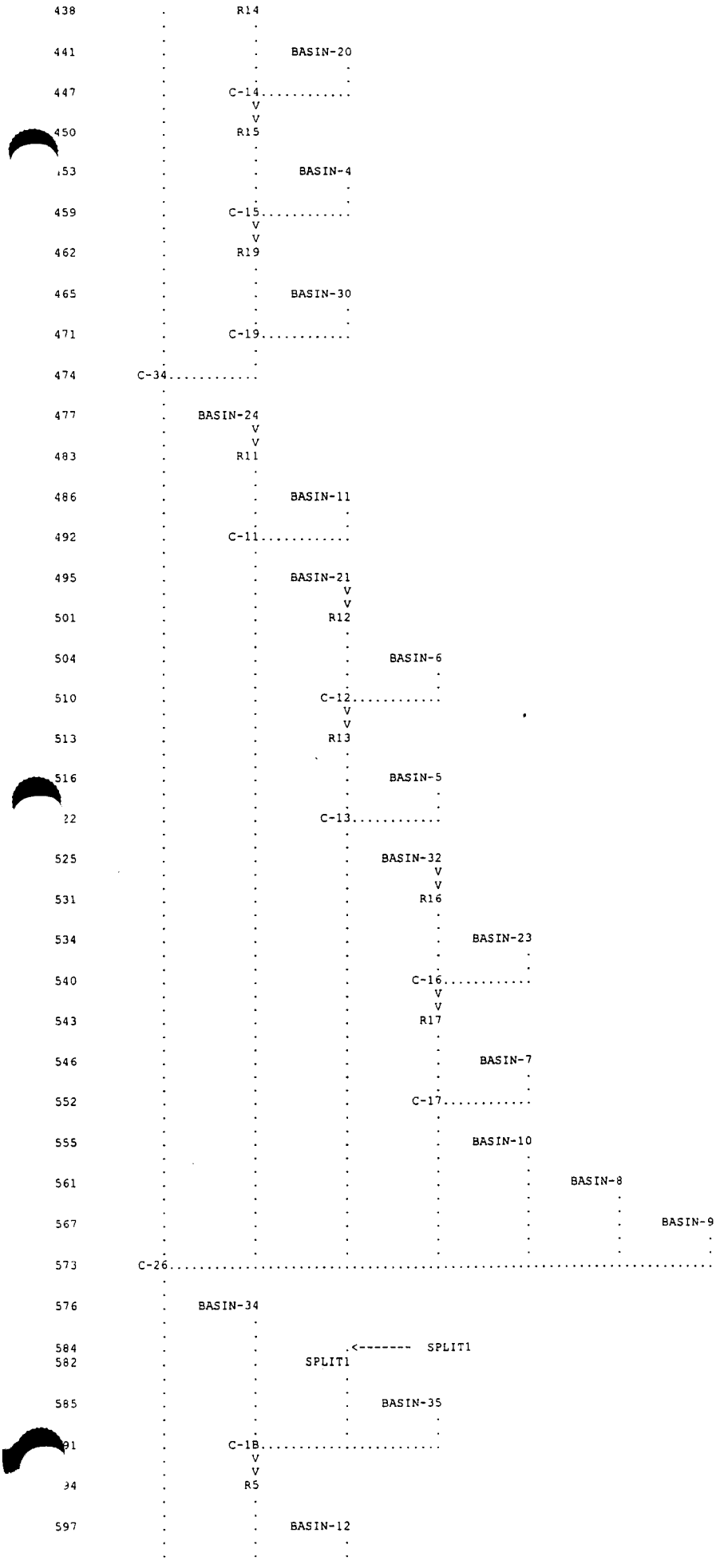
SCHEMATIC DIAGRAM OF STREAM NETWORK

```
INPUT
 LINE      (V) ROUTING          (--->) DIVERSION OR PUMP FLOW

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

   61          71
               V
               V
   76         71R
               .
               .
   79          .          501
               .            .
               .            .
   94        501C............
               V
               V
   97        501R
               .
               .
  100          .          502
               .            .
               .            .
  116        502C............
               .
               .
  119          .           72
               .            .
               .            .
  134       502CC............
               V
               V
  137        502R
               .
               .
  140          .           73
               .           V
               .           V
  155          .          73R
               .            .
               .            .
  158          .            .          503
               .            .            .
               .            .            .
  173        503C.......................
               V
               V
  176        503R
               .
               .
  179          .          504
               .            .
               .            .
  194        INBD............
               V
               V
  198         BD
               .
               .
  212          .      OFFSITE
               .            .
               .            .
  218      COMB-1............
               V
               V
  221         R0
               .
               .
  224          .     BASIN-40
               .            .
               .            .
  238        C-0.............
               .
               .
  243          .--------> SPLIT1
  241      SPLIT1
               .
               .
  246          .     BASIN-38
               .            .
               .            .
  252          .            .     BASIN-36
               .            .            .
               .            .            .
  258          .         C-1A............
               .            .
               .            .
  261        C-1.............
               V
               V
  264         R2
               .
               .
  267          .     BASIN-26
               .            .
               .            .
  273        C-2.............
               V
               V
  276         R3
               .
```


279
BASIN-17
285
C-3
288
R4
291
BASIN-13
297
C-27
300
BASIN-28
306
R7
309
BASIN-19
315
C-7
318
R8
321
BASIN-3
327
C-8
330
BASIN-27
336
R9
339
BASIN-18
345
C-9
348
R10
351
BASIN-2
357
C-10
360
C-29
363
R18
366
BASIN-22
372
C-18
375
BASIN-37
381
R22
384
BASIN-25
390
C-22
393
R23
396
BASIN-15
402
C-23
405
R28
408
BASIN-1
414
C-28
417
C-25
420
R33
423
BASIN-33
429
C-33
432
BASIN-29


R14
BASIN-20
C-14
R15
BASIN-4
C-15
R19
BASIN-30
C-19
C-34
BASIN-24
R11
BASIN-11
C-11
BASIN-21
R12
BASIN-6
C-12
R13
BASIN-5
C-13
BASIN-32
R16
BASIN-23
C-16
R17
BASIN-7
C-17
BASIN-10
BASIN-8
BASIN-9
C-26
BASIN-34
SPLIT1
<------- SPLIT1
BASIN-35
C-1B
R5
BASIN-12

```
603           .         C-5.....
              .          .
              .          .
606           .          .    BASIN-14
              .          .          .
              .          .          .
612           .          .          .    BASIN-16
              .          .          .          .
              .          .          .          .
618           .          .          .          .    BASIN-31
```

*) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*             MAY  1991                 *
*          VERSION 4.0.1E               *
*     Lahey F77L-EM/32 version 5.01     *
*       Dodson & Associates, Inc.       *
*  RUN DATE  02/19/00  TIME  14:51:22   *
*                                       *
*****************************************
```

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

File: BD.DAT

Post, Buckley, Schuh & Jernigan, Inc.

EXISTING DRAINAGE CONDITIONS RUN

```
*********************************
*********************************
*                               *
*            CLOMR              *
*                               *
*                               *
*          02/19/00             *
*                               *
*   FILE : BD.DAT               *
*                               *
*                               *
*                               *
*                               *
*          EXISTING             *
*                               *
*         CONDITIONS            *
*********************************
*********************************
```

THIS ANALYSIS IS TO SIMULATE A 55%/45% FLOW SPLIT

```
29 IO          OUTPUT CONTROL VARIABLES
                    IPRNT          5  PRINT CONTROL
                    IPLOT          0  PLOT CONTROL
                    QSCAL         0.  HYDROGRAPH PLOT SCALE
                   * BLUE DIAMOND DETENTION BASINS REFRENCED FROM MPU BASIN DELINEATION BY COE
                   ************************************************************************
                    BLUE DIAMOND DETENTION BASIN DESIGN.....................FILE = BDDB.LA1
                    SOURCE OF FILE= NEWBDDB1.LA1.....................................
                    ========================================================================
                    MODEL CREATED TO DUPLICATE THE BLUE DIAMOND DETENTION BASIN DESIGN
                    AS OF JAN 31 1996.
                    FILE NEWBDDB1.LA1 DATED 6-23-96 WAS USED, AND RAINFALL & PATTERN ADJUSTED
                    RAIN = 1.76 (CURVE) X 1.26 (TF) = 2.22 IN.  AS STATED IN TROP. DM DRAFT
                    PATTERN # = 4.95      DA =68.25     DARF =
                                          JLF  2/1/96
                                ****************************************
                    (A REVISED EL-VOL-STO IS COMING SOON.  THIS DOES NOT INCLUDE IT)
                    ELEVATIONS ARE NGVD
                                ****************************************
                    COMMENTS BELOW THIS POINT WERE IN FILE NEWBDDB1.LA1 AND THEREFORE
                    RAIN, DARF & PATTERNS BELOW THIS POINT ARE NOT APPLICABLE TO THIS FILE
                    ========================================================================

                    REVISED TO ESTIMATE RUNOFF FROM 0.6 SQ.MI. AREA CONTRIBUTING TO A CP AT
                    BLUE DIAMOND ROAD, JUST U/S OF BLUE DIAMOND DB.

                    DEPTH-AREA AND PATTERN FOR AREA ABOVE BLUE DIAMOND DB.
                    DA = 68.25 MI2.  DARF = . PATTERN # = 4.9.
                    RAIN =  1.75 (CURVE) X  1.26 (TF) =  2.20 IN.

                                                HN 6/22/95
                   ========================================================================


IT             HYDROGRAPH TIME DATA
                     NMIN          5  MINUTES IN COMPUTATION INTERVAL
                    IDATE      1    0  STARTING DATE
                    ITIME        0000  STARTING TIME
                       NQ         300  NUMBER OF HYDROGRAPH ORDINATES
                   NDDATE      2    0  ENDING DATE
                   NDTIME        0055  ENDING TIME
                   ICENT           19  CENTURY MARK

                 COMPUTATION INTERVAL    0.08 HOURS
                     TOTAL TIME BASE   24.92 HOURS

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

JP             MULTI-PLAN OPTION
                     NPLAN           1  NUMBER OF PLANS

JR             MULTI-RATIO OPTION
                   RATIOS OF PRECIPITATION
                  1.00      0.98      0.57
```

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

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION RATIO 1 1.00	RATIO 2 0.98	RATIO 3 0.57
DROGRAPH AT	71	6.90	1	FLOW	2790.	2699.	984.
				TIME	3.75	3.75	3.83
ROUTED TO	71R	6.90	1	FLOW	2456.	2375.	843.
				TIME	4.17	4.17	4.17
HYDROGRAPH AT	501	11.28	1	FLOW	4356.	4215.	1534.
				TIME	3.83	3.83	3.83
2 COMBINED AT	501C	18.18	1	FLOW	5713.	5518.	1934.
				TIME	3.92	3.92	3.92
ROUTED TO	501R	18.18	1	FLOW	5324.	5139.	1785.
				TIME	4.33	4.33	4.33
HYDROGRAPH AT	502	27.40	1	FLOW	5951.	5737.	1956.
				TIME	4.33	4.33	4.33
2 COMBINED AT	502C	45.58	1	FLOW	11275.	10876.	3741.
				TIME	4.33	4.33	4.33
HYDROGRAPH AT	72	6.58	1	FLOW	2511.	2429.	880.
				TIME	3.83	3.83	3.83
2 COMBINED AT	502CC	52.16	1	FLOW	12220.	11783.	4015.
				TIME	4.25	4.25	4.33
ROUTED TO	502R	52.16	1	FLOW	11697.	11278.	3848.
				TIME	4.67	4.67	4.67
HYDROGRAPH AT	73	4.02	1	FLOW	1513.	1464.	528.
				TIME	3.83	3.83	3.83
ROUTED TO	73R	4.02	1	FLOW	1336.	1291.	459.
				TIME	4.17	4.17	4.25
ROGRAPH AT	503	5.54	1	FLOW	1212.	1169.	399.
				TIME	4.33	4.33	4.33
3 COMBINED AT	503C	61.72	1	FLOW	13507.	13020.	4423.
				TIME	4.58	4.58	4.58
ROUTED TO	503R	61.72	1	FLOW	13013.	12542.	4243.
				TIME	4.92	4.92	4.92
HYDROGRAPH AT	504	6.53	1	FLOW	1470.	1418.	484.
				TIME	4.25	4.25	4.25
2 COMBINED AT	INBD	68.25	1	FLOW	13818.	13313.	4489.
				TIME	4.92	4.92	4.92
ROUTED TO	BD	68.25	1	FLOW	213.	211.	164.
				TIME	8.00	7.92	6.92
			** PEAK STAGES IN FEET **				
			1	STAGE	2914.67	2913.62	2891.70
				TIME	8.00	8.00	7.00
HYDROGRAPH AT	OFFSITE	0.60	1	FLOW	431.	419.	175.
				TIME	3.67	3.67	3.67
2 COMBINED AT	COMB-1	68.85	1	FLOW	586.	572.	253.
				TIME	3.67	3.67	5.00
ROUTED TO	RO	68.85	1	FLOW	578.	560.	250.
				TIME	3.92	3.92	5.33
HYDROGRAPH AT	BASIN-40	0.88	1	FLOW	613.	593.	211.
				TIME	3.92	3.92	3.92
2 COMBINED AT	C-0	69.72	1	FLOW	1191.	1153.	450.
				TIME	3.92	3.92	4.00
ERSION TO	SPLIT1	69.72	1	FLOW	540.	523.	204.
				TIME	3.92	3.92	4.00
HYDROGRAPH AT	SPLIT1	69.72	1	FLOW	651.	630.	245.
				TIME	3.92	3.92	4.00

HYDROGRAPH AT							
+	BASIN-38	0.13	1	FLOW	48.	46.	9.
				TIME	4.00	4.00	4.08
HYDROGRAPH AT							
+	BASIN-36	0.06	1	FLOW	60.	59.	25.
				TIME	3.75	3.75	3.75
2 COMBINED AT							
	C-1A	0.19	1	FLOW	99.	95.	29.
				TIME	3.83	3.83	3.83
COMBINED AT							
	C-1	69.91	1	FLOW	745.	721.	270.
				TIME	3.92	3.92	4.00
ROUTED TO							
+	R2	69.91	1	FLOW	738.	715.	269.
				TIME	4.00	4.00	4.17
HYDROGRAPH AT							
+	BASIN-26	0.14	1	FLOW	25.	24.	3.
				TIME	4.17	4.17	5.17
2 COMBINED AT							
+	C-2	70.06	1	FLOW	761.	737.	270.
				TIME	4.00	4.00	4.17
ROUTED TO							
+	R3	70.06	1	FLOW	751.	725.	266.
				TIME	4.08	4.17	4.33
HYDROGRAPH AT							
+	BASIN-17	0.29	1	FLOW	50.	47.	6.
				TIME	4.17	4.17	5.25
2 COMBINED AT							
+	C-3	70.34	1	FLOW	800.	772.	270.
				TIME	4.08	4.17	4.33
ROUTED TO							
+	R4	70.34	1	FLOW	798.	770.	267.
				TIME	4.25	4.25	4.50
HYDROGRAPH AT							
+	BASIN-13	0.22	1	FLOW	75.	71.	13.
				TIME	4.00	4.08	4.17
2 COMBINED AT							
+	C-27	70.57	1	FLOW	863.	833.	277.
				TIME	4.25	4.25	4.50
HYDROGRAPH AT							
+	BASIN-28	0.06	1	FLOW	9.	8.	1.
				TIME	4.08	4.08	5.17
ROUTED TO							
	R7	0.06	1	FLOW	9.	8.	1.
				TIME	4.92	4.92	7.33
OGRAPH AT							
	BASIN-19	0.14	1	FLOW	17.	16.	2.
				TIME	4.25	4.25	5.33
2 COMBINED AT							
	C-7	0.20	1	FLOW	22.	20.	2.
				TIME	4.92	4.92	5.33
ROUTED TO							
+	R8	0.20	1	FLOW	21.	20.	2.
				TIME	5.25	5.33	6.42
HYDROGRAPH AT							
+	BASIN-3	0.11	1	FLOW	14.	13.	1.
				TIME	4.17	4.17	5.25
2 COMBINED AT							
+	C-8	0.31	1	FLOW	32.	30.	2.
				TIME	5.25	5.25	6.42
HYDROGRAPH AT							
+	BASIN-27	0.15	1	FLOW	16.	15.	1.
				TIME	4.42	4.50	5.42
ROUTED TO							
+	R9	0.15	1	FLOW	16.	15.	1.
				TIME	5.08	5.08	7.08
HYDROGRAPH AT							
+	BASIN-18	0.18	1	FLOW	22.	20.	2.
				TIME	4.33	4.33	5.33
2 COMBINED AT							
+	C-9	0.33	1	FLOW	33.	31.	2.
				TIME	5.08	5.08	5.33
ROUTED TO							
+	R10	0.33	1	FLOW	33.	31.	2.
				TIME	5.17	5.25	5.75
HYDROGRAPH AT							
+	BASIN-2	0.09	1	FLOW	13.	12.	1.
				TIME	4.08	4.08	5.17
2 COMBINED AT							
	C-10	0.42	1	FLOW	41.	38.	3.
				TIME	5.17	5.25	5.67
OMBINED AT							
	C-29	0.73	1	FLOW	72.	68.	4.
				TIME	5.25	5.25	5.58
ROUTED TO							
+	R18	0.73	1	FLOW	71.	67.	4.
				TIME	5.42	5.42	6.42

HYDROGRAPH AT							
+	BASIN-22	0.21	1	FLOW	56.	53.	7.
				TIME	4.00	4.00	5.08
2 COMBINED AT							
+	C-18	0.94	1	FLOW	92.	86.	7.
				TIME	5.42	5.42	5.08
HYDROGRAPH AT							
	BASIN-37	0.12	1	FLOW	88.	85.	29.
				TIME	3.83	3.83	3.92
ROUTED TO							
+	R22	0.12	1	FLOW	85.	83.	29.
				TIME	4.17	4.08	4.33
HYDROGRAPH AT							
+	BASIN-25	0.14	1	FLOW	105.	102.	35.
				TIME	3.83	3.83	3.83
2 COMBINED AT							
+	C-22	0.27	1	FLOW	161.	156.	45.
				TIME	4.08	4.08	4.33
ROUTED TO							
+	R23	0.27	1	FLOW	157.	154.	43.
				TIME	4.17	4.25	4.67
HYDROGRAPH AT							
+	BASIN-15	0.09	1	FLOW	47.	45.	12.
				TIME	3.92	3.92	3.92
2 COMBINED AT							
+	C-23	0.35	1	FLOW	191.	182.	48.
				TIME	4.17	4.17	4.67
ROUTED TO							
+	R28	0.35	1	FLOW	185.	182.	46.
				TIME	4.42	4.50	5.25
HYDROGRAPH AT							
+	BASIN-1	0.24	1	FLOW	162.	157.	54.
				TIME	3.92	3.92	3.92
2 COMBINED AT							
+	C-28	0.60	1	FLOW	260.	251.	66.
				TIME	4.42	4.42	5.25
3 COMBINED AT							
+	C-25	72.11	1	FLOW	1159.	1110.	307.
				TIME	4.25	4.33	4.50
ROUTED TO							
+	R33	72.11	1	FLOW	1159.	1108.	304.
				TIME	4.33	4.33	4.58
HYDROGRAPH AT							
	BASIN-33	0.10	1	FLOW	73.	71.	23.
				TIME	3.75	3.75	3.75
COMBINED AT							
+	C-33	72.20	1	FLOW	1181.	1130.	311.
				TIME	4.33	4.33	4.58
HYDROGRAPH AT							
+	BASIN-29	0.04	1	FLOW	6.	5.	1.
				TIME	4.17	4.17	5.17
ROUTED TO							
+	R14	0.04	1	FLOW	6.	5.	1.
				TIME	5.08	5.08	7.75
HYDROGRAPH AT							
+	BASIN-20	0.08	1	FLOW	10.	9.	1.
				TIME	4.33	4.33	5.33
2 COMBINED AT							
+	C-14	0.12	1	FLOW	13.	13.	1.
				TIME	5.08	5.08	5.33
ROUTED TO							
+	R15	0.12	1	FLOW	13.	13.	1.
				TIME	5.75	5.83	7.42
HYDROGRAPH AT							
+	BASIN-4	0.14	1	FLOW	18.	17.	2.
				TIME	4.17	4.25	5.25
2 COMBINED AT							
+	C-15	0.26	1	FLOW	23.	21.	2.
				TIME	5.08	5.08	5.25
ROUTED TO							
+	R19	0.26	1	FLOW	23.	21.	2.
				TIME	5.50	5.50	6.58
HYDROGRAPH AT							
+	BASIN-30	0.21	1	FLOW	83.	80.	16.
				TIME	3.92	3.92	4.00
2 COMBINED AT							
+	C-19	0.47	1	FLOW	83.	80.	16.
				TIME	3.92	3.92	4.00
COMBINED AT							
	C-34	72.68	1	FLOW	1232.	1178.	320.
				TIME	4.33	4.33	4.58
ROGRAPH AT							
+	BASIN-24	0.09	1	FLOW	10.	9.	1.
				TIME	4.33	4.33	5.33
ROUTED TO							
+	R11	0.09	1	FLOW	10.	9.	1.

				TIME	5.33	5.42	8.08
HYDROGRAPH AT							
+	BASIN-11	0.29	1	FLOW	33.	30.	3.
				TIME	4.33	4.33	5.42
2 COMBINED AT							
+	C-11	0.38	1	FLOW	36.	34.	3.
				TIME	5.25	5.33	5.42
ROGRAPH AT							
	BASIN-21	0.33	1	FLOW	39.	36.	4.
				TIME	4.33	4.33	5.33
ROUTED TO							
+	R12	0.33	1	FLOW	39.	36.	4.
				TIME	4.67	4.67	6.42
HYDROGRAPH AT							
+	BASIN-6	0.47	1	FLOW	63.	58.	6.
				TIME	4.17	4.17	5.25
2 COMBINED AT							
+	C-12	0.80	1	FLOW	83.	76.	6.
				TIME	4.58	4.67	5.25
ROUTED TO							
+	R13	0.80	1	FLOW	81.	76.	6.
				TIME	4.83	4.92	6.17
HYDROGRAPH AT							
+	BASIN-5	0.54	1	FLOW	93.	87.	10.
				TIME	4.08	4.08	5.17
2 COMBINED AT							
+	C-13	1.34	1	FLOW	139.	131.	10.
				TIME	4.92	5.00	5.17
HYDROGRAPH AT							
+	BASIN-32	0.04	1	FLOW	6.	5.	0.
				TIME	4.08	4.08	5.17
ROUTED TO							
+	R16	0.04	1	FLOW	5.	5.	0.
				TIME	4.92	4.92	7.58
HYDROGRAPH AT							
+	BASIN-23	0.15	1	FLOW	19.	17.	2.
				TIME	4.25	4.25	5.25
2 COMBINED AT							
+	C-16	0.19	1	FLOW	19.	18.	2.
				TIME	5.00	5.00	5.25
ROUTED TO							
+	R17	0.19	1	FLOW	19.	18.	2.
				TIME	5.42	5.50	6.42
ROGRAPH AT							
	BASIN-7	0.14	1	FLOW	18.	17.	2.
				TIME	4.17	4.17	5.25
2 COMBINED AT							
+	C-17	0.32	1	FLOW	32.	29.	2.
				TIME	4.58	4.67	6.42
HYDROGRAPH AT							
+	BASIN-10	0.16	1	FLOW	17.	16.	2.
				TIME	4.50	4.50	5.42
HYDROGRAPH AT							
+	BASIN-8	0.05	1	FLOW	7.	7.	1.
				TIME	4.17	4.17	5.25
HYDROGRAPH AT							
+	BASIN-9	0.05	1	FLOW	7.	6.	1.
				TIME	4.08	4.08	5.17
7 COMBINED AT							
+	C-26	74.98	1	FLOW	1442.	1370.	329.
				TIME	4.33	4.33	4.58
HYDROGRAPH AT							
+	BASIN-34	0.19	1	FLOW	42.	39.	6.
				TIME	4.17	4.25	5.25
HYDROGRAPH AT							
+	SPLIT1	0.00	1	FLOW	540.	523.	204.
				TIME	3.92	3.92	4.00
HYDROGRAPH AT							
+	BASIN-35	0.11	1	FLOW	44.	42.	11.
				TIME	4.17	4.17	4.25
3 COMBINED AT							
+	C-1B	0.30	1	FLOW	609.	588.	217.
				TIME	3.92	3.92	4.00
ROUTED TO							
+	R5	0.30	1	FLOW	605.	584.	215.
				TIME	4.08	4.08	4.25
HYDROGRAPH AT							
+	BASIN-12	0.33	1	FLOW	45.	42.	5.
				TIME	4.25	4.25	5.25
OMBINED AT							
	C-5	0.63	1	FLOW	646.	623.	217.
				TIME	4.08	4.08	4.25
HYDROGRAPH AT							
+	BASIN-14	0.27	1	FLOW	197.	192.	79.
				TIME	4.00	4.00	4.08
HYDROGRAPH AT							

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+              BASIN-16       0.26      1   FLOW          193.      187.       78.
                                             TIME          4.00      4.00      4.00

 HYDROGRAPH AT
+              BASIN-31       0.15      1   FLOW          159.      155.       65.
                                             TIME          3.75      3.75      3.75

1

                                        SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING
                                            (FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)
                                                                                    INTERPOLATED TO
                                                                                  COMPUTATION INTERVAL
          ISTAQ    ELEMENT        DT        PEAK     TIME TO      VOLUME        DT        PEAK     TIME TO      VOLUME
                                                        PEAK                                          PEAK

                                 (MIN)      (CFS)      (MIN)      (IN)       (MIN)      (CFS)      (MIN)       (IN)

          FOR PLAN = 1  RATIO= 1.00
               R0  MANE          4.90     581.70     235.69      0.12        5.00     578.13     235.00       0.12

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4484E+03 EXCESS=0.0000E+00 OUTFLOW=0.4394E+03 BASIN STORAGE=0.9989E+01 PERCENT ERROR=  -0.2

          FOR PLAN = 1  RATIO= 0.98
               R0  MANE          4.87     563.83     237.49      0.12        5.00     560.09     235.00       0.12

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4429E+03 EXCESS=0.0000E+00 OUTFLOW=0.4340E+03 BASIN STORAGE=0.9930E+01 PERCENT ERROR=  -0.2

          FOR PLAN = 1  RATIO= 0.57
               R0  MANE          5.00     252.10     241.64      0.08        5.00     250.21     320.00       0.08

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3074E+03 EXCESS=0.0000E+00 OUTFLOW=0.2991E+03 BASIN STORAGE=0.8802E+01 PERCENT ERROR=  -0.2

          FOR PLAN = 1  RATIO= 1.00
               R2  MANE          2.97     738.00     239.35      0.08        5.00     737.86     240.00       0.07

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2829E+03 EXCESS=0.0000E+00 OUTFLOW=0.2804E+03 BASIN STORAGE=0.3116E+01 PERCENT ERROR=  -0.2

          FOR PLAN = 1  RATIO= 0.98
               R2  MANE          3.09     718.63     240.85      0.07        5.00     714.81     240.00       0.07

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2784E+03 EXCESS=0.0000E+00 OUTFLOW=0.2754E+03 BASIN STORAGE=0.3098E+01 PERCENT ERROR=  -0.1

          FOR PLAN = 1  RATIO= 0.57
               R2  MANE          4.50     268.73     249.98      0.05        5.00     268.71     250.00       0.05

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1775E+03 EXCESS=0.0000E+00 OUTFLOW=0.1747E+03 BASIN STORAGE=0.2556E+01 PERCENT ERROR=   0.1

          FOR PLAN = 1  RATIO= 1.00
               R3  MANE          3.21     755.42     245.65      0.07        5.00     750.95     245.00       0.07

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2828E+03 EXCESS=0.0000E+00 OUTFLOW=0.2793E+03 BASIN STORAGE=0.3271E+01 PERCENT ERROR=   0.1

          FOR PLAN = 1  RATIO= 0.98
               R3  MANE          3.13     733.99     247.08      0.07        5.00     725.43     250.00       0.07

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2782E+03 EXCESS=0.0000E+00 OUTFLOW=0.2751E+03 BASIN STORAGE=0.3251E+01 PERCENT ERROR=  -0.1

          FOR PLAN = 1  RATIO= 0.57
               R3  MANE          4.80     267.37     258.43      0.05        5.00     266.22     260.00       0.05

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1751E+03 EXCESS=0.0000E+00 OUTFLOW=0.1727E+03 BASIN STORAGE=0.2684E+01 PERCENT ERROR=  -0.2

          FOR PLAN = 1  RATIO= 1.00
               R4  MANE          3.29     799.55     252.30      0.08        5.00     797.84     255.00       0.08

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2859E+03 EXCESS=0.0000E+00 OUTFLOW=0.2825E+03 BASIN STORAGE=0.3397E+01 PERCENT ERROR=   0.0

          FOR PLAN = 1  RATIO= 0.98
               R4  MANE          3.31     770.83     256.28      0.07        5.00     770.43     255.00       0.07

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2810E+03 EXCESS=0.0000E+00 OUTFLOW=0.2775E+03 BASIN STORAGE=0.3376E+01 PERCENT ERROR=   0.0

          FOR PLAN = 1  RATIO= 0.57
               R4  MANE          4.87     268.34     268.85      0.05        5.00     267.23     270.00       0.05

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1731E+03 EXCESS=0.0000E+00 OUTFLOW=0.1708E+03 BASIN STORAGE=0.2789E+01 PERCENT ERROR=  -0.3

          FOR PLAN = 1  RATIO= 1.00
               R7  MANE          5.00       9.01     292.34      0.40        5.00       8.95     295.00       0.40

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1178E+01 EXCESS=0.0000E+00 OUTFLOW=0.1382E+01 BASIN STORAGE=0.5064E-02 PERCENT ERROR= -17.8

          FOR PLAN = 1  RATIO= 0.98
               R7  MANE          5.00       8.36     294.76      0.38        5.00       8.36     295.00       0.38

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1106E+01 EXCESS=0.0000E+00 OUTFLOW=0.1300E+01 BASIN STORAGE=0.5093E-02 PERCENT ERROR= -18.0

          FOR PLAN = 1  RATIO= 0.57
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          R7  MANE          5.00      0.80    438.67      0.04       5.00      0.80    440.00         0.04

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.8999E-01 EXCESS=0.0000E+00 OUTFLOW=0.1464E+00 BASIN STORAGE=0.4877E-02 PERCENT ERROR= -68.1

     FOR PLAN = 1  RATIO= 1.00
          R8  MANE          5.00     21.50    313.77      0.36       5.00     21.48    315.00         0.36

TINUITY SUMMARY (AC-FT) - INFLOW=0.3875E+01 EXCESS=0.0000E+00 OUTFLOW=0.3911E+01 BASIN STORAGE=0.1027E-01 PERCENT ERROR=  -1.2

     FOR PLAN = 1  RATIO= 0.98
          R8  MANE          5.00     20.28    316.42      0.34       5.00     20.24    320.00         0.34

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3642E+01 EXCESS=0.0000E+00 OUTFLOW=0.3692E+01 BASIN STORAGE=0.1093E-01 PERCENT ERROR=  -1.7

     FOR PLAN = 1  RATIO= 0.57
          R8  MANE          4.97      1.57    389.03      0.03       5.00      1.56    385.00         0.03

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3369E+00 EXCESS=0.0000E+00 OUTFLOW=0.3596E+00 BASIN STORAGE=0.1170E-01 PERCENT ERROR= -10.2

     FOR PLAN = 1  RATIO= 1.00
          R9  MANE          5.00     15.74    303.59      0.34       5.00     15.69    305.00         0.34

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2657E+01 EXCESS=0.0000E+00 OUTFLOW=0.2680E+01 BASIN STORAGE=0.5574E-02 PERCENT ERROR=  -1.1

     FOR PLAN = 1  RATIO= 0.98
          R9  MANE          5.00     14.66    306.15      0.32       5.00     14.65    305.00         0.32

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2495E+01 EXCESS=0.0000E+00 OUTFLOW=0.2516E+01 BASIN STORAGE=0.5477E-02 PERCENT ERROR=  -1.1

     FOR PLAN = 1  RATIO= 0.57
          R9  MANE          5.00      1.49    425.03      0.03       5.00      1.49    425.00         0.03

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2030E+00 EXCESS=0.0000E+00 OUTFLOW=0.2603E+00 BASIN STORAGE=0.5422E-02 PERCENT ERROR= -30.9

     FOR PLAN = 1  RATIO= 1.00
          R10 MANE          3.50     32.78    311.37      0.34       5.00     32.76    310.00         0.34

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.6021E+01 EXCESS=0.0000E+00 OUTFLOW=0.6016E+01 BASIN STORAGE=0.3565E-02 PERCENT ERROR=   0.0

     FOR PLAN = 1  RATIO= 0.98
          R10 MANE          3.65     30.78    314.39      0.32       5.00     30.75    315.00         0.32

TINUITY SUMMARY (AC-FT) - INFLOW=0.5650E+01 EXCESS=0.0000E+00 OUTFLOW=0.5651E+01 BASIN STORAGE=0.3749E-02 PERCENT ERROR=  -0.1

     FOR PLAN = 1  RATIO= 0.57
          R10 MANE          5.00      2.04    347.20      0.03       5.00      2.03    345.00         0.03

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5156E+00 EXCESS=0.0000E+00 OUTFLOW=0.5169E+00 BASIN STORAGE=0.4346E-02 PERCENT ERROR=  -1.1

     FOR PLAN = 1  RATIO= 1.00
          R18 MANE          5.00     71.43    324.31      0.35       5.00     71.31    325.00         0.35

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1352E+02 EXCESS=0.0000E+00 OUTFLOW=0.1351E+02 BASIN STORAGE=0.1980E-01 PERCENT ERROR=  -0.1

     FOR PLAN = 1  RATIO= 0.98
          R18 MANE          5.00     67.34    327.38      0.33       5.00     66.78    325.00         0.33

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1271E+02 EXCESS=0.0000E+00 OUTFLOW=0.1272E+02 BASIN STORAGE=0.1817E-01 PERCENT ERROR=  -0.3

     FOR PLAN = 1  RATIO= 0.57
          R18 MANE          4.95      3.51    384.91      0.03       5.00      3.51    385.00         0.03

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1150E+01 EXCESS=0.0000E+00 OUTFLOW=0.1125E+01 BASIN STORAGE=0.2628E-01 PERCENT ERROR=  -0.1

     FOR PLAN = 1  RATIO= 1.00
          R22 MANE          5.00     87.04    247.39      1.28       5.00     85.36    250.00         1.27

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.8283E+01 EXCESS=0.0000E+00 OUTFLOW=0.8362E+01 BASIN STORAGE=0.5664E-02 PERCENT ERROR=  -1.0

     FOR PLAN = 1  RATIO= 0.98
          R22 MANE          5.00     83.71    249.17      1.23       5.00     82.95    245.00         1.23

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.8000E+01 EXCESS=0.0000E+00 OUTFLOW=0.8067E+01 BASIN STORAGE=0.5337E-02 PERCENT ERROR=  -0.9

     FOR PLAN = 1  RATIO= 0.57
          R22 MANE          4.70     28.89    262.53      0.46       5.00     28.65    260.00         0.46

NUITY SUMMARY (AC-FT) - INFLOW=0.2785E+01 EXCESS=0.0000E+00 OUTFLOW=0.3039E+01 BASIN STORAGE=0.5811E-02 PERCENT ERROR=  -9.3

     FOR PLAN = 1  RATIO= 1.00
          R23 MANE          4.47    160.29    252.69      1.27       5.00    157.41    250.00         1.27
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CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1798E+02 EXCESS=0.0000E+00 OUTFLOW=0.1798E+02 BASIN STORAGE=0.1135E-01 PERCENT ERROR= -0.1

FOR PLAN = 1 RATIO= 0.98

R23	MANE	4.54	155.13	254.52	1.23	5.00	153.98	255.00	1.23

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1737E+02 EXCESS=0.0000E+00 OUTFLOW=0.1740E+02 BASIN STORAGE=0.1054E-01 PERCENT ERROR= -0.2

FOR PLAN = 1 RATIO= 0.57

R23	MANE	5.00	43.35	278.76	0.46	5.00	42.66	280.00	0.46

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.6273E+01 EXCESS=0.0000E+00 OUTFLOW=0.6462E+01 BASIN STORAGE=0.1146E-01 PERCENT ERROR= -3.2

FOR PLAN = 1 RATIO= 1.00

R28	MANE	5.00	188.26	268.39	1.19	5.00	185.36	265.00	1.19

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2253E+02 EXCESS=0.0000E+00 OUTFLOW=0.2252E+02 BASIN STORAGE=0.4503E-01 PERCENT ERROR= -0.2

FOR PLAN = 1 RATIO= 0.98

R28	MANE	5.00	181.86	270.33	1.15	5.00	181.63	270.00	1.15

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2179E+02 EXCESS=0.0000E+00 OUTFLOW=0.2178E+02 BASIN STORAGE=0.4023E-01 PERCENT ERROR= -0.1

FOR PLAN = 1 RATIO= 0.57

R28	MANE	5.00	47.44	312.47	0.43	5.00	46.29	315.00	0.43

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.7736E+01 EXCESS=0.0000E+00 OUTFLOW=0.8148E+01 BASIN STORAGE=0.4995E-01 PERCENT ERROR= -6.0

FOR PLAN = 1 RATIO= 1.00

R33	MANE	1.07	1158.92	257.24	0.09	5.00	1158.55	260.00	0.09

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3495E+03 EXCESS=0.0000E+00 OUTFLOW=0.3485E+03 BASIN STORAGE=0.1328E+01 PERCENT ERROR= -0.1

FOR PLAN = 1 RATIO= 0.98

R33	MANE	1.15	1108.80	261.21	0.09	5.00	1107.75	260.00	0.09

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3417E+03 EXCESS=0.0000E+00 OUTFLOW=0.3406E+03 BASIN STORAGE=0.1320E+01 PERCENT ERROR= -0.1

FOR PLAN = 1 RATIO= 0.57

R33	MANE	1.88	306.13	273.31	0.05	5.00	304.13	275.00	0.05

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1879E+03 EXCESS=0.0000E+00 OUTFLOW=0.1868E+03 BASIN STORAGE=0.1091E+01 PERCENT ERROR= 0.0

FOR PLAN = 1 RATIO= 1.00

R14	MANE	5.00	5.82	303.46	0.42	5.00	5.80	305.00	0.42

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.7670E+00 EXCESS=0.0000E+00 OUTFLOW=0.9516E+00 BASIN STORAGE=0.5482E-02 PERCENT ERROR= -24.8

FOR PLAN = 1 RATIO= 0.98

R14	MANE	4.93	5.41	304.61	0.40	5.00	5.40	305.00	0.40

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.7200E+00 EXCESS=0.0000E+00 OUTFLOW=0.9072E+00 BASIN STORAGE=0.5442E-02 PERCENT ERROR= -26.7

FOR PLAN = 1 RATIO= 0.57

R14	MANE	5.00	0.52	468.25	0.05	5.00	0.52	470.00	0.05

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5861E-01 EXCESS=0.0000E+00 OUTFLOW=0.1054E+00 BASIN STORAGE=0.4953E-02 PERCENT ERROR= -88.2

FOR PLAN = 1 RATIO= 1.00

R15	MANE	5.00	13.33	344.84	0.40	5.00	13.32	345.00	0.40

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2427E+01 EXCESS=0.0000E+00 OUTFLOW=0.2633E+01 BASIN STORAGE=0.1885E-01 PERCENT ERROR= -9.2

FOR PLAN = 1 RATIO= 0.98

R15	MANE	5.00	12.55	347.54	0.38	5.00	12.51	350.00	0.38

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2292E+01 EXCESS=0.0000E+00 OUTFLOW=0.2492E+01 BASIN STORAGE=0.1887E-01 PERCENT ERROR= -9.5

FOR PLAN = 1 RATIO= 0.57

R15	MANE	5.00	0.90	444.62	0.04	5.00	0.90	445.00	0.04

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2181E+00 EXCESS=0.0000E+00 OUTFLOW=0.2639E+00 BASIN STORAGE=0.2020E-01 PERCENT ERROR= -30.3

FOR PLAN = 1 RATIO= 1.00

R19	MANE	4.74	22.80	329.14	0.37	5.00	22.76	330.00	0.37

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5182E+01 EXCESS=0.0000E+00 OUTFLOW=0.5270E+01 BASIN STORAGE=0.2544E-01 PERCENT ERROR= -2.2

FOR PLAN = 1 RATIO= 0.98

R19	MANE	4.91	21.37	327.75	0.35	5.00	21.37	330.00	0.35

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4880E+01 EXCESS=0.0000E+00 OUTFLOW=0.4961E+01 BASIN STORAGE=0.2515E-01 PERCENT ERROR= -2.2

FOR PLAN = 1 RATIO= 0.57

R19	MANE	5.00	1.66	390.67	0.03	5.00	1.65	395.00	0.03

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4581E+00 EXCESS=0.0000E+00 OUTFLOW=0.4772E+00 BASIN STORAGE=0.2995E-01 PERCENT ERROR= -10.7

FOR PLAN = 1 RATIO= 1.00

R11	MANE	5.00	10.06	322.70	0.41	5.00	10.03	320.00	0.41

TINUITY SUMMARY (AC-FT) - INFLOW=0.1590E+01 EXCESS=0.0000E+00 OUTFLOW=0.1908E+01 BASIN STORAGE=0.1120E-01 PERCENT ERROR= -20.7

FOR PLAN = 1 RATIO= 0.98

R11	MANE	5.00	9.34	325.75	0.38	5.00	9.33	325.00	0.38

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1493E+01 EXCESS=0.0000E+00 OUTFLOW=0.1796E+01 BASIN STORAGE=0.1102E-01 PERCENT ERROR= -21.0

FOR PLAN = 1 RATIO= 0.57

R11	MANE	5.00	0.94	488.38	0.04	5.00	0.94	485.00	0.04

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1215E+00 EXCESS=0.0000E+00 OUTFLOW=0.2049E+00 BASIN STORAGE=0.1054E-01 PERCENT ERROR= -77.3

FOR PLAN = 1 RATIO= 1.00

R12	MANE	5.00	38.88	277.89	0.34	5.00	38.82	280.00	0.34

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.6004E+01 EXCESS=0.0000E+00 OUTFLOW=0.6044E+01 BASIN STORAGE=0.5619E-02 PERCENT ERROR= -0.8

FOR PLAN = 1 RATIO= 0.98

R12	MANE	5.00	36.23	279.69	0.32	5.00	36.21	280.00	0.32

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5636E+01 EXCESS=0.0000E+00 OUTFLOW=0.5662E+01 BASIN STORAGE=0.4580E-02 PERCENT ERROR= -0.5

FOR PLAN = 1 RATIO= 0.57

R12	MANE	5.00	3.65	382.10	0.03	5.00	3.63	385.00	0.03

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.4587E+00 EXCESS=0.0000E+00 OUTFLOW=0.4777E+00 BASIN STORAGE=0.4449E-02 PERCENT ERROR= -5.1

FOR PLAN = 1 RATIO= 1.00

R13	MANE	5.00	81.60	294.04	0.34	5.00	81.47	290.00	0.34

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1452E+02 EXCESS=0.0000E+00 OUTFLOW=0.1459E+02 BASIN STORAGE=0.1499E-01 PERCENT ERROR= -0.6

FOR PLAN = 1 RATIO= 0.98

R13	MANE	5.00	75.94	296.59	0.32	5.00	75.89	295.00	0.32

INUITY SUMMARY (AC-FT) - INFLOW=0.1363E+02 EXCESS=0.0000E+00 OUTFLOW=0.1368E+02 BASIN STORAGE=0.1679E-01 PERCENT ERROR= -0.5

FOR PLAN = 1 RATIO= 0.57

R13	MANE	5.00	5.66	368.44	0.03	5.00	5.64	370.00	0.03

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1125E+01 EXCESS=0.0000E+00 OUTFLOW=0.1165E+01 BASIN STORAGE=0.1799E-01 PERCENT ERROR= -5.2

FOR PLAN = 1 RATIO= 1.00

R16	MANE	5.00	5.51	296.47	0.41	5.00	5.49	295.00	0.41

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.6871E+00 EXCESS=0.0000E+00 OUTFLOW=0.8355E+00 BASIN STORAGE=0.4265E-02 PERCENT ERROR= -22.2

FOR PLAN = 1 RATIO= 0.98

R16	MANE	5.00	5.10	299.12	0.39	5.00	5.07	295.00	0.39

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.6450E+00 EXCESS=0.0000E+00 OUTFLOW=0.7861E+00 BASIN STORAGE=0.3883E-02 PERCENT ERROR= -22.5

FOR PLAN = 1 RATIO= 0.57

R16	MANE	5.00	0.48	452.08	0.05	5.00	0.48	455.00	0.05

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.5249E-01 EXCESS=0.0000E+00 OUTFLOW=0.9222E-01 BASIN STORAGE=0.3684E-02 PERCENT ERROR= -82.7

FOR PLAN = 1 RATIO= 1.00

R17	MANE	4.76	19.03	323.72	0.36	5.00	18.99	325.00	0.36

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3511E+01 EXCESS=0.0000E+00 OUTFLOW=0.3512E+01 BASIN STORAGE=0.1006E-01 PERCENT ERROR= -0.3

FOR PLAN = 1 RATIO= 0.98

R17	MANE	4.83	17.98	326.25	0.33	5.00	17.87	330.00	0.33

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.3298E+01 EXCESS=0.0000E+00 OUTFLOW=0.3297E+01 BASIN STORAGE=0.9974E-02 PERCENT ERROR= -0.3

FOR PLAN = 1 RATIO= 0.57

R17	MANE	5.00	1.72	384.33	0.03	5.00	1.72	385.00	0.03

INUITY SUMMARY (AC-FT) - INFLOW=0.2965E+00 EXCESS=0.0000E+00 OUTFLOW=0.3131E+00 BASIN STORAGE=0.1113E-01 PERCENT ERROR= -9.3

FOR PLAN = 1 RATIO= 1.00

R5	MANE	3.68	606.85	243.65	14.63	5.00	604.93	245.00	14.58

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2386E+03 EXCESS=0.0000E+00 OUTFLOW=0.2359E+03 BASIN STORAGE=0.3199E+01 PERCENT ERROR= -0.2

FOR PLAN = 1 RATIO= 0.98

R5	MANE	3.90	586.30	243.87	14.38	5.00	584.46	245.00	14.34

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.2347E+03 EXCESS=0.0000E+00 OUTFLOW=0.2318E+03 BASIN STORAGE=0.3180E+01 PERCENT ERROR= -0.1

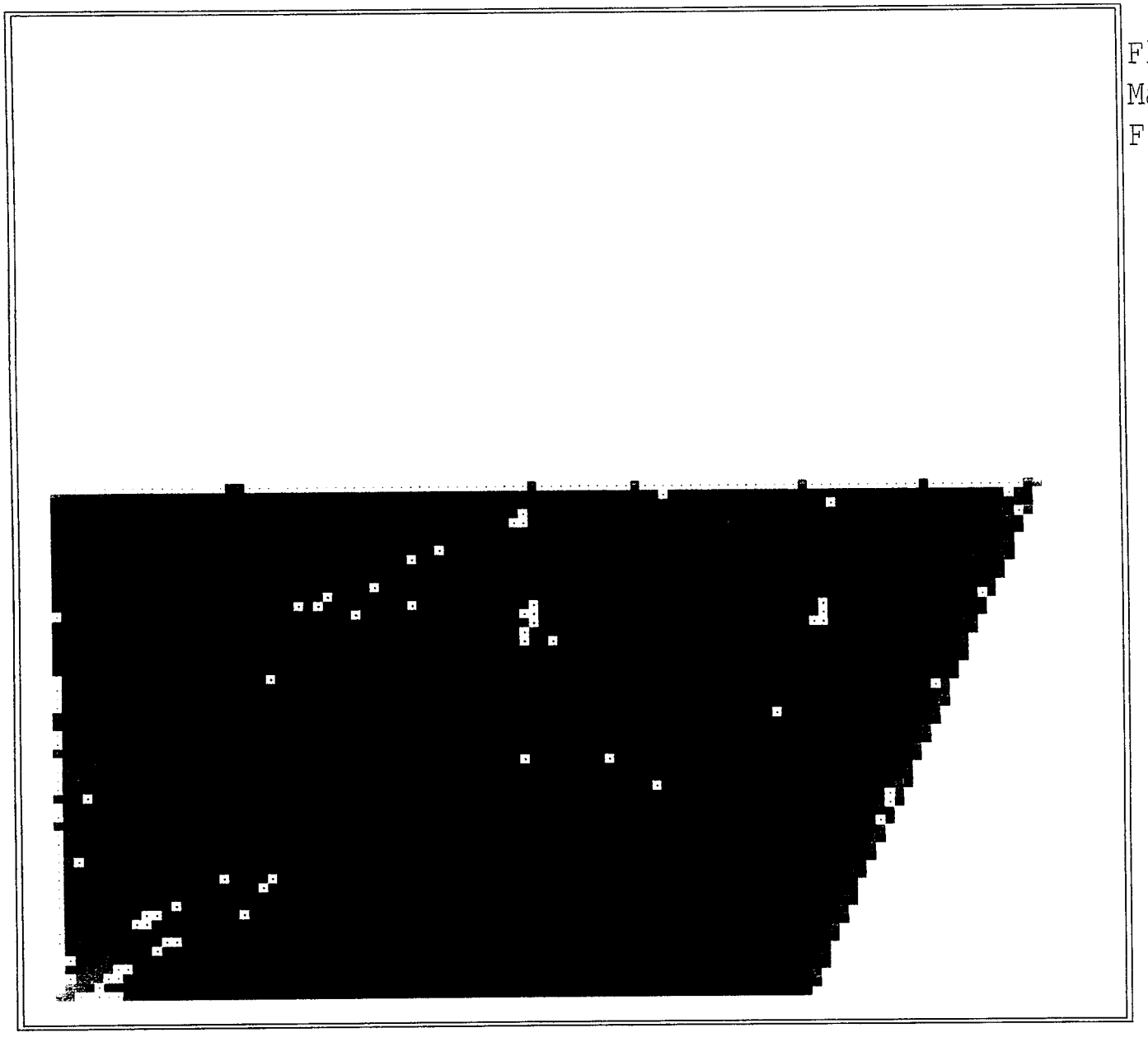
FOR PLAN = 1 RATIO= 0.57

R5	MANE	5.00	215.98	254.43	9.03	5.00	215.06	255.00	9.00

CONTINUITY SUMMARY (AC-FT) - INFLOW=0.1480E+03 EXCESS=0.0000E+00 OUTFLOW=0.1456E+03 BASIN STORAGE=0.2623E+01 PERCENT ERROR= -0.2

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

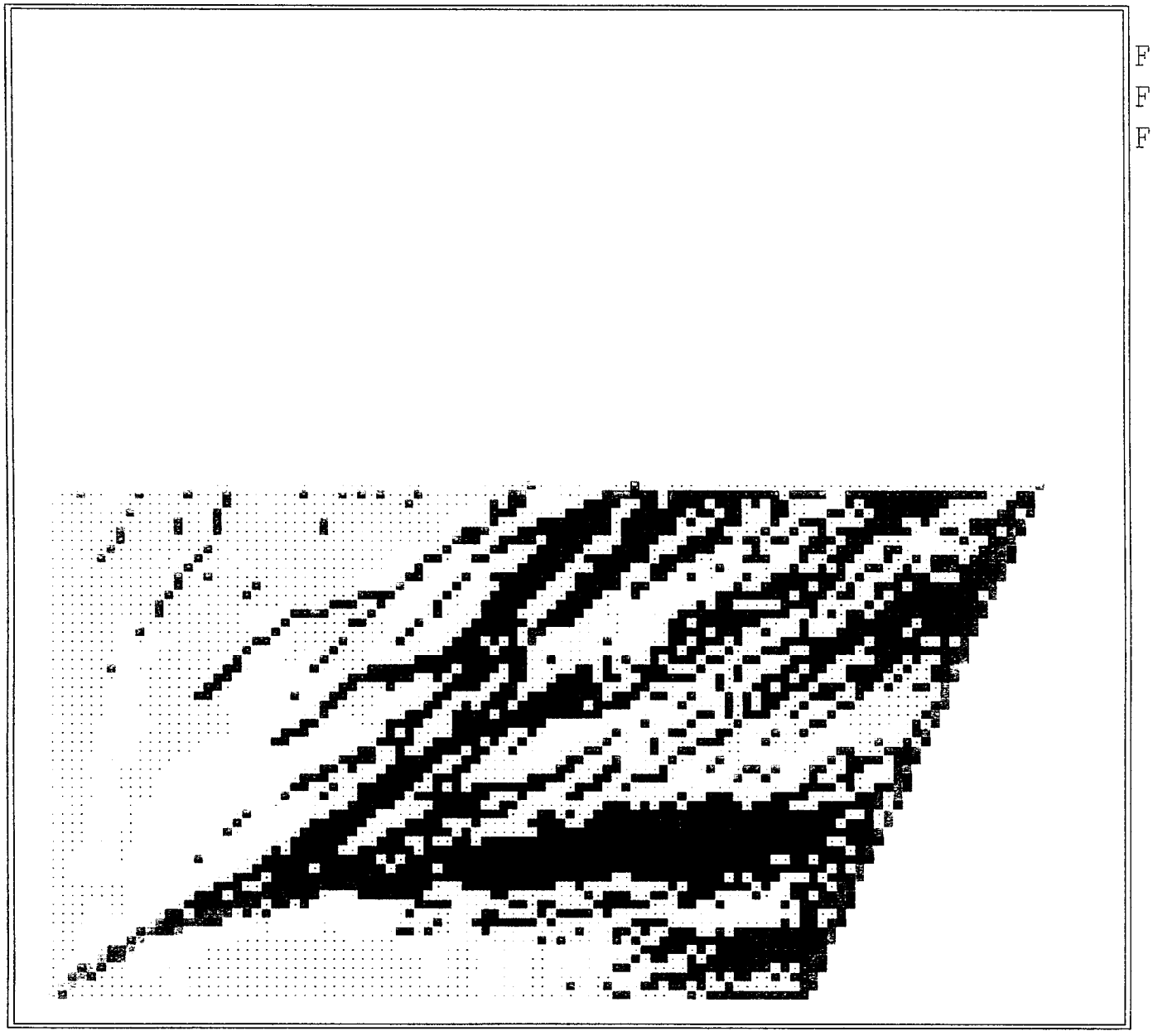
Flo-2D Analysis



Floodplain
Maximum
Flow Depths (ft)

Depth Legend

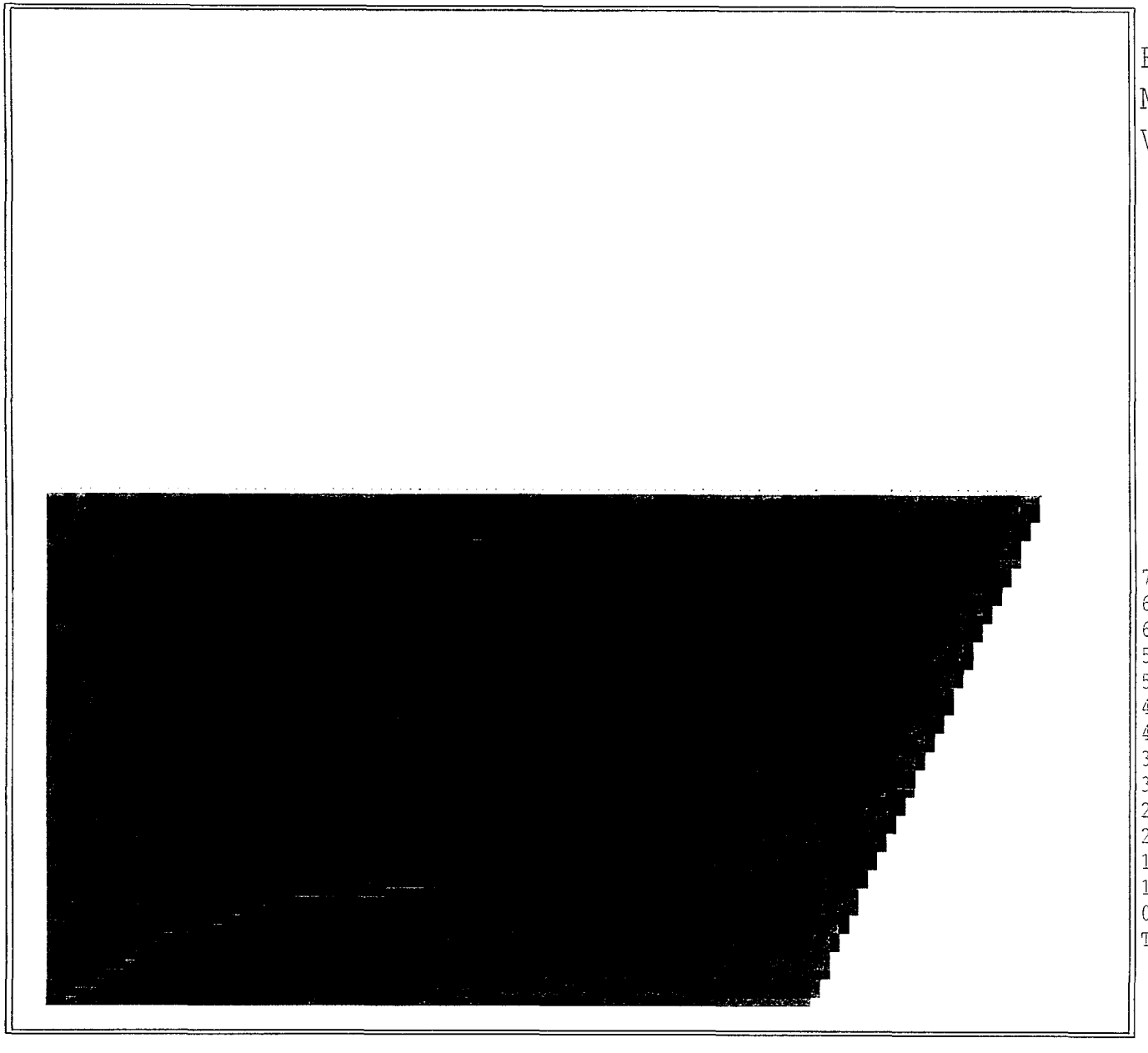
5.5 < DEPTH < 6.0
5.0 < DEPTH < 5.5
4.5 < DEPTH < 5.0
4.0 < DEPTH < 4.5
3.5 < DEPTH < 4.0
3.0 < DEPTH < 3.5
2.5 < DEPTH < 3.0
2.0 < DEPTH < 2.5
1.5 < DEPTH < 2.0
1.0 < DEPTH < 1.5
0.5 < DEPTH < 1.0
TOL < DEPTH < 0.5
DEPTH < TOL



Final
Floodplain
Flow Depths (ft)

Depth Legend

5.5 < DEPTH < 6.0
5.0 < DEPTH < 5.5
4.5 < DEPTH < 5.0
4.0 < DEPTH < 4.5
3.5 < DEPTH < 4.0
3.0 < DEPTH < 3.5
2.5 < DEPTH < 3.0
2.0 < DEPTH < 2.5
1.5 < DEPTH < 2.0
1.0 < DEPTH < 1.5
0.5 < DEPTH < 1.0
TOL < DEPTH < 0.5
DEPTH < TOL



Floodplain
Maximum
Velocities (fps)

Velocity Legend

7.0 < VELOCITY < 7.5
6.5 < VELOCITY < 7.0
6.0 < VELOCITY < 6.5
5.5 < VELOCITY < 6.0
5.0 < VELOCITY < 5.5
4.5 < VELOCITY < 5.0
4.0 < VELOCITY < 4.5
3.5 < VELOCITY < 4.0
3.0 < VELOCITY < 3.5
2.5 < VELOCITY < 3.0
2.0 < VELOCITY < 2.5
1.5 < VELOCITY < 2.0
1.0 < VELOCITY < 1.5
0.5 < VELOCITY < 1.0
TOL < VELOCITY < 0.5
VELOCITY < TOL

22.20	19.33	-0.001005	0.000047
22.40	19.47	-0.001016	0.000047
22.60	19.33	-0.001043	0.000048
22.80	19.38	-0.001042	0.000048
23.00	19.47	-0.001033	0.000048
23.20	19.44	-0.001038	0.000048
23.40	19.58	-0.001032	0.000047
23.60	19.41	-0.001037	0.000047
23.80	19.38	-0.001041	0.000048
24.00	19.33	-0.001042	0.000048

MASS BALANCE INFLOW - OUTFLOW VOLUME

*** INFLOW (ACRE-FEET) ***

TOTAL RAINFALL	2.77 INCHES

	WATER
RAINFALL VOLUME	1714.29
INFLOW HYDROGRAPH	475.84
INFLOW HYDROGRAPHS + RAINFALL	2190.13

*** OUTFLOW (ACRE-FT) ***

RAINFALL INTERCEPTION 0.20 INCHES

OVERLAND FLOW	WATER
WATER LOST TO INTERCEPTION	123.78
FLOODPLAIN STORAGE	895.95
FLOODPLAIN OUTFLOW HYDROGRAPH	1170.41
FLOODPLAIN OUTFLOW, INTERCEPTION & STORAGE	2190.13

*** TOTALS ***

TOTAL OUTFLOW FROM GRID SYSTEM	1170.41
TOTAL VOLUME OF OUTFLOW AND STORAGE	2190.13

MAXIMUM INUNDATED AREA IS: 7426.16 ACRES

COMPUTER RUN TIME IS : 2931.32 SECS

THIS OUTPUT FILE WAS TERMINATED ON: 2/21/2000 AT: 16:23:18

THIS OUTPUT FILE WAS CREATED ON: 2/21/2000 AT: 15:34:26

THIS RUN WAS EXECUTED WITH MODEL VERSION 99.10 CREATED OCTOBER, 1999

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INFLOW HYDROGRAPH AT NODE I

HOUR	CFS
0.08	0.
0.17	0.
0.25	0.
0.33	0.
0.42	0.
0.50	0.
0.58	0.
0.67	0.
0.75	1.
0.83	2.
0.92	11.
1.00	23.
1.08	44.
1.17	65.
1.25	85.
1.33	97.
1.42	107.
1.50	116.
1.58	126.
1.67	138.
1.75	150.
1.83	163.
1.92	174.
2.00	182.
2.08	187.
2.17	192.
2.25	199.
2.33	207.
2.42	216.
2.50	220.
2.58	220.
2.67	216.
2.75	214.
2.83	217.
2.92	222.
3.00	234.
3.08	257.
3.17	298.
3.25	368.
3.33	474.
3.42	627.
3.50	806.
3.58	987.
3.67	1104.
3.75	1120.
3.83	1052.
3.92	943.
4.00	827.
4.08	728.
4.17	639.
4.25	559.
4.33	497.
4.42	453.
4.50	432.
4.58	435.
4.67	455.
4.75	486.
4.83	522.
4.92	552.
5.00	560.
5.08	543.
5.17	504.
5.25	452.
5.33	402.
5.42	359.
5.50	327.
5.58	303.
5.67	286.
5.75	273.
5.83	265.
5.92	258.
6.00	252.
6.08	248.
6.17	243.
6.25	238.
6.33	232.
6.42	227.
6.50	222.
6.58	219.
6.67	217.
6.75	215.
6.83	214.
6.92	214.
7.00	214.
7.08	213.
7.17	213.
7.25	213.
7.33	213.
7.42	213.
7.50	213.
7.58	213.
7.67	213.
7.75	213.
7.83	213.
7.92	213.
8.00	213.
8.08	213.
8.17	213.
8.25	213.
8.33	213.
8.42	213.
8.50	213.

8.58	213.
8.67	213.
8.75	213.
8.83	213.
8.92	213.
9.00	213.
9.08	213.
9.17	213.
9.25	213.
9.33	213.
9.42	213.
9.50	213.
9.58	213.
9.67	213.
9.75	213.
9.83	213.
9.92	213.
10.00	213.
10.08	213.
10.17	213.
10.25	213.
10.33	213.
10.42	213.
10.50	213.
10.58	213.
10.67	213.
10.75	213.
10.83	213.
10.92	213.
11.00	213.
11.08	213.
11.17	212.
11.25	212.
11.33	212.
11.42	212.
11.50	212.
11.58	212.
11.67	212.
11.75	212.
11.83	212.
11.92	212.
12.00	212.
12.08	212.
12.17	212.
12.25	212.
12.33	212.
12.42	212.
12.50	212.
12.58	212.
12.67	212.
12.75	212.
12.83	212.
12.92	212.
13.00	212.
13.08	212.
13.17	212.
13.25	212.
13.33	212.
13.42	212.
13.50	212.
13.58	212.
13.67	212.
13.75	212.
13.83	212.
13.92	212.
14.00	212.
14.08	211.
14.17	211.
14.25	211.
14.33	211.
14.42	211.
14.50	211.
14.58	211.
14.67	211.
14.75	211.
14.83	211.
14.92	211.
15.00	211.
15.08	211.
15.17	211.
15.25	211.
15.33	211.
15.42	211.
15.50	211.
15.58	211.
15.67	211.
15.75	211.
15.83	211.
15.92	211.
16.00	211.
16.08	211.
16.17	211.
16.25	211.
16.33	211.
16.42	211.
16.50	211.
16.58	211.
16.67	211.
16.75	211.
16.83	211.
16.92	211.
17.00	210.
17.08	210.
17.17	210.
17.25	210.
17.33	210.
17.42	210.
17.50	210.
17.58	210.
17.67	210.
17.75	210.
17.83	210.
17.92	210.
18.00	210.
18.08	210.
18.17	210.
18.25	210.

18.33	210.
18.42	210.
18.50	210.
18.58	210.
18.67	210.
18.75	210.
18.83	210.
18.92	210.
19.00	210.
19.08	210.
19.17	210.
19.25	210.
19.33	210.
19.42	210.
19.50	210.
19.58	210.
19.67	210.
19.75	210.
19.83	210.
19.92	209.
20.00	209.
20.08	209.
20.17	209.
20.25	209.
20.33	209.
20.42	209.
20.50	209.
20.58	209.
20.67	209.
20.75	209.
20.83	209.
20.92	209.
21.00	209.
21.08	209.
21.17	209.
21.25	209.
21.33	209.
21.42	209.
21.50	209.
21.58	209.
21.67	209.
21.75	209.
21.83	209.
21.92	209.
22.00	209.
22.08	209.
22.17	209.
22.25	209.
22.33	209.
22.42	209.
22.50	209.
22.58	209.
22.67	209.
22.75	209.
22.83	208.
22.92	208.
23.00	208.
23.08	208.
23.17	208.
23.25	208.
23.33	208.
23.42	208.
23.50	208.
23.58	208.
23.67	208.
23.75	208.
23.83	208.
23.92	208.

MODEL TIME = 0.21 HOURS TOTAL TIMESTEP NUMBER = 39.
EFFECTIVE RAINFALL(IN/HR) = 0.42

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 0.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:
NODE OUTFLOW RATE(CFS)

MIN. TIMESTEP(SEC.) = 1.00 MAX. TIMESTEP(SEC.) = 38.25 MEAN TIMESTEP(SEC.) = 19.28

MODEL TIME = 0.40 HOURS TOTAL TIMESTEP NUMBER = 54.
EFFECTIVE RAINFALL(IN/HR) = 0.68

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 0.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:
NODE OUTFLOW RATE(CFS)

MIN. TIMESTEP(SEC.) = 39.25 MAX. TIMESTEP(SEC.) = 53.25 MEAN TIMESTEP(SEC.) = 46.25

MODEL TIME = 0.60 HOURS TOTAL TIMESTEP NUMBER = 66.
EFFECTIVE RAINFALL(IN/HR) = 0.00

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 0.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:
NODE OUTFLOW RATE(CFS)

MIN. TIMESTEP(SEC.) = 54.25 MAX. TIMESTEP(SEC.) = 65.25 MEAN TIMESTEP(SEC.) = 59.75

==========

MODEL TIME = 0.82 HOURS TOTAL TIMESTEP NUMBER = 77.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 1.86

DISCHARGE FROM OUTFLOW GRID ELEMENTS:
NODE OUTFLOW RATE(CFS)

MIN. TIMESTEP(SEC.) = 66.25 MAX. TIMESTEP(SEC.) = 76.25 MEAN TIMESTEP(SEC.) = 71.25

==========

MODEL TIME = 1.02 HOURS TOTAL TIMESTEP NUMBER = 86.
EFFECTIVE RAINFALL(IN/HR) = 2.13

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 28.65

DISCHARGE FROM OUTFLOW GRID ELEMENTS:
NODE OUTFLOW RATE(CFS)

MIN. TIMESTEP(SEC.) = 77.25 MAX. TIMESTEP(SEC.) = 85.25 MEAN TIMESTEP(SEC.) = 81.25

==========

MODEL TIME = 1.22 HOURS TOTAL TIMESTEP NUMBER = 111.
EFFECTIVE RAINFALL(IN/HR) = 3.19

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 76.65

DISCHARGE FROM OUTFLOW GRID ELEMENTS:
NODE OUTFLOW RATE(CFS)

MIN. TIMESTEP(SEC.) = 62.25 MAX. TIMESTEP(SEC.) = 90.25 MEAN TIMESTEP(SEC.) = 78.03

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MODEL TIME = 1.41 HOURS TOTAL TIMESTEP NUMBER = 139.
EFFECTIVE RAINFALL(IN/HR) = 2.26

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 105.40

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5177	3.56
5178	6.09
5179	6.33
5180	8.34
5181	6.82
5182	6.62
5183	6.12
5184	5.99
5185	4.46
5186	7.20
5187	7.39
5188	6.15
5189	5.47
5190	5.39
5191	7.04
5192	7.22
5193	4.26
5194	4.40
5195	6.69
5196	4.75
5197	5.58
5198	6.43
5199	6.17
5200	5.14
5201	4.83
5202	4.48
5203	7.35
5204	6.77
5205	5.65

5197	8.37
5198	9.36
5199	8.88
5200	6.86
5201	6.86
5202	7.65
5203	15.12
5204	14.30
5205	10.05
5206	9.23
5207	10.41
5208	6.49
5209	6.60
5210	9.17
5211	11.83
5212	13.35
5213	9.26
5214	4.34
5215	9.45
5216	26.93
5217	10.64
5218	4.69
5219	3.12
5220	4.40
5221	4.71
5222	4.50
5223	3.26
5224	2.91
5225	3.43
5226	3.83
5227	23.68
5228	1.91
5229	2.13
5230	2.02
5231	2.58
5232	3.07
5233	2.50
5234	1.40
5235	1.39
5236	0.95
5237	1.60
5238	23.55
5239	5.88
5240	9.50
5241	15.22
5242	4.43
5243	6.38
5244	5.38
5245	5.71
5246	4.60
5247	5.11
5248	5.60
5249	5.62
5250	10.12
5251	5.83
5252	4.54
5253	5.18
5254	3.38
5255	10.33
5256	18.97
5257	7.30
5258	9.40
5259	4.50
5260	3.25
5261	3.31
5262	5.18
5263	3.83
5264	3.49
5265	4.48
5266	7.50
5267	8.58
5268	4.75
5269	13.29
5270	4.37
5271	3.79
5272	6.76
5273	4.15
5274	3.13
5275	3.98
5276	4.92
5277	1.64
5278	1.10
5279	0.72
5280	0.70
5281	2.30

MIN. TIMESTEP(SEC.) = 30.25 MAX. TIMESTEP(SEC.) = 47.25 MEAN TIMESTEP(SEC.) = 34.11

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MODEL TIME = 1.81 HOURS TOTAL TIMESTEP NUMBER = 215.
EFFECTIVE RAINFALL(IN/HR) = 0.55

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 159.41

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5177	4.16
5178	8.01
5179	11.48
5180	28.71
5181	12.91
5182	9.49
5183	9.19
5184	9.54
5185	9.38
5186	29.28

5206	5.25
5207	5.98
5208	3.82
5209	3.97
5210	5.00
5211	5.57
5212	6.41
5213	5.14
5214	3.13
5215	4.30
5216	7.11
5217	6.66
5218	3.97
5219	2.80
5220	3.24
5221	3.09
5222	3.20
5223	2.68
5224	2.27
5225	2.34
5226	2.68
5227	6.27
5228	2.22
5229	2.58
5230	2.27
5231	2.40
5232	2.50
5233	2.23
5234	1.50
5235	1.45
5236	1.02
5238	3.08
5239	5.69
5240	6.08
5241	9.94
5242	3.87
5243	4.58
5244	3.36
5245	3.69
5246	3.12
5247	3.29
5248	3.52
5249	3.18
5250	5.18
5251	3.19
5252	3.02
5253	3.45
5254	2.63
5255	2.84
5256	3.70
5257	3.78
5258	5.87
5259	3.80
5260	3.07
5261	2.80
5262	3.48
5263	2.69
5264	2.57
5265	2.88
5266	4.34
5267	5.33
5268	3.14
5269	8.32
5270	2.80
5271	2.33
5272	3.64
5273	2.84
5274	2.29
5275	2.38
5276	3.19
5277	1.64
5278	1.62
5279	1.78
5280	0.72
5281	1.56

MIN. TIMESTEP(SEC.) = 42.25 MAX. TIMESTEP(SEC.) = 59.25 MEAN TIMESTEP(SEC.) = 48.61

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MODEL TIME = 1.60 HOURS TOTAL TIMESTEP NUMBER = 178.
EFFECTIVE RAINFALL(IN/HR) = 0.54

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 129.28

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5177	4.75
5178	8.45
5179	10.88
5180	14.96
5181	12.17
5182	9.50
5183	9.34
5184	9.47
5185	8.62
5186	22.83
5187	23.44
5188	10.08
5189	9.37
5190	9.40
5191	12.41
5192	12.01
5193	5.34
5194	9.56
5195	24.75
5196	17.38

5187	28.84
5188	10.07
5189	9.98
5190	11.96
5191	26.70
5192	25.10
5193	5.45
5194	11.25
5195	31.91
5196	23.01
5197	9.83
5198	9.47
5199	8.73
5200	6.56
5201	6.74
5202	8.18
5203	17.16
5204	25.67
5205	11.20
5206	11.58
5207	14.34
5208	9.30
5209	8.75
5210	11.70
5211	14.52
5212	17.39
5213	12.24
5214	6.02
5215	9.99
5216	27.11
5217	8.89
5218	2.91
5219	1.31
5220	3.96
5221	4.77
5222	4.64
5223	3.29
5224	2.99
5225	3.68
5226	3.93
5227	38.11
5229	0.91
5230	1.62
5231	1.76
5232	2.19
5233	2.21
5234	0.98
5235	0.50
5236	1.03
5237	4.59
5238	147.59
5239	8.08
5240	10.36
5241	16.89
5242	4.41
5243	6.72
5244	6.39
5245	6.41
5246	4.89
5247	5.66
5248	6.75
5249	7.29
5250	12.75
5251	7.21
5252	6.34
5253	6.46
5254	3.50
5255	12.97
5256	22.20
5257	8.92
5258	12.53
5259	5.52
5260	3.19
5261	3.17
5262	6.00
5263	4.90
5264	3.90
5265	4.66
5266	7.53
5267	10.59
5268	6.51
5269	21.16
5270	7.31
5271	3.79
5272	8.24
5273	6.36
5274	3.30
5275	4.34
5276	5.45
5277	1.44
5278	1.37
5279	1.59
5280	0.65
5281	3.68

MIN. TIMESTEP(SEC.) = 27.25 MAX. TIMESTEP(SEC.) = 32.25 MEAN TIMESTEP(SEC.) = 30.50

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MODEL TIME = 2.01 HOURS TOTAL TIMESTEP NUMBER = 255.
EFFECTIVE RAINFALL(IN/HR) = 0.30

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 182.40

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5177	3.48

5178	6.96
5179	10.78
5180	28.11
5181	12.55
5182	8.97
5183	8.90
5184	10.02
5185	10.84
5186	35.62
5187	34.55
5188	10.53
5189	10.18
5190	12.17
5191	27.28
5192	25.39
5193	5.49
5194	12.64
5195	35.91
5196	25.75
5197	9.72
5198	9.12
5199	8.33
5200	6.29
5201	6.72
5202	8.26
5203	16.91
5204	27.29
5205	11.21
5206	11.81
5207	15.16
5208	10.09
5209	10.37
5210	13.82
5211	16.06
5212	18.96
5213	13.19
5214	6.70
5215	10.08
5216	25.96
5217	8.19
5218	2.17
5219	1.04
5220	3.26
5221	4.16
5222	4.24
5223	3.15
5224	2.97
5225	3.74
5226	4.90
5227	49.77
5231	0.60
5232	1.83
5233	1.97
5234	1.47
5235	1.65
5236	1.14
5237	5.50
5238	160.42
5239	8.51
5240	9.68
5241	14.83
5242	3.08
5243	6.99
5244	6.78
5245	6.80
5246	4.96
5247	5.67
5248	6.72
5249	7.81
5250	14.51
5251	7.75
5252	6.19
5253	7.22
5254	4.57
5255	14.29
5256	24.23
5257	9.78
5258	14.46
5259	6.44
5260	3.38
5261	3.09
5262	6.01
5263	5.16
5264	4.62
5265	6.49
5266	9.81
5267	12.06
5268	8.18
5269	42.78
5270	8.99
5271	5.10
5272	8.27
5273	6.68
5274	4.43
5275	4.68
5276	6.02
5277	0.92
5278	0.49
5279	1.57
5280	0.65
5281	5.23

MIN. TIMESTEP(SEC.) = 26.25 MAX. TIMESTEP(SEC.) = 32.25 MEAN TIMESTEP(SEC.) = 28.57

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MODEL TIME = 2.21 HOURS TOTAL TIMESTEP NUMBER = 297.
EFFECTIVE RAINFALL(IN/HR) = 0.29

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 195.10

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5177	1.53
5178	4.10
5179	9.58
5180	15.44
5181	12.30
5182	7.95
5183	8.16
5184	9.77
5185	13.26
5186	36.28
5187	34.97
5188	10.50
5189	10.06
5190	12.00
5191	26.61
5192	24.77
5193	5.36
5194	14.82
5195	42.57
5196	30.54
5197	9.92
5198	8.39
5199	7.55
5200	5.76
5201	6.56
5202	8.57
5203	17.83
5204	28.43
5205	11.28
5206	11.67
5207	14.87
5208	9.89
5209	10.47
5210	14.12
5211	16.27
5212	19.12
5213	13.13
5214	6.58
5215	9.46
5216	23.78
5217	7.19
5218	1.63
5219	0.86
5220	2.55
5221	3.21
5222	3.48
5223	2.75
5224	2.76
5225	3.71
5226	7.01
5227	66.31
5228	1.92
5229	1.17
5231	0.59
5232	1.70
5233	1.83
5234	1.66
5235	2.22
5236	1.44
5237	7.02
5238	187.18
5239	9.02
5240	9.84
5241	14.95
5242	3.08
5243	7.16
5244	7.03
5245	7.09
5246	4.84
5247	5.51
5248	6.64
5249	7.74
5250	25.32
5251	8.96
5252	6.85
5253	7.72
5254	4.63
5255	16.35
5256	27.54
5257	10.30
5258	15.29
5259	6.82
5260	3.51
5261	3.02
5262	5.88
5263	5.14
5264	4.66
5265	7.00
5266	11.10
5267	13.51
5268	9.12
5269	29.02
5270	9.60
5271	5.65
5272	8.70
5273	6.57
5274	4.46
5275	5.05
5276	6.79
5277	1.39
5278	1.28
5279	1.53
5280	0.64
5281	7.07

MIN. TIMESTEP(SEC.) = 23.25 MAX. TIMESTEP(SEC.) = 29.25 MEAN TIMESTEP(SEC.) = 26.55

MODEL TIME = 2.40 HOURS TOTAL TIMESTEP NUMBER = 346.
EFFECTIVE RAINFALL(IN/HR) = 0.28

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 214.32

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5177	1.27
5178	3.33
5179	7.87
5180	12.84
5181	10.17
5182	6.29
5183	6.98
5184	8.92
5185	10.25
5186	34.74
5187	34.11
5188	10.52
5189	9.92
5190	11.74
5191	26.39
5192	25.11
5193	5.74
5194	17.45
5195	48.43
5196	34.90
5197	10.13
5198	8.00
5199	7.08
5200	5.39
5201	6.25
5202	8.20
5203	17.26
5204	27.63
5205	11.60
5206	11.96
5207	14.97
5208	9.85
5209	10.09
5210	13.25
5211	14.91
5212	17.69
5213	12.36
5214	6.17
5215	9.13
5216	14.30
5217	6.89
5218	1.13
5220	0.96
5221	2.22
5222	2.59
5223	2.26
5224	2.51
5225	4.43
5226	13.59
5227	89.85
5228	4.94
5229	2.21
5230	1.66
5231	1.66
5232	1.77
5233	1.88
5234	1.79
5235	2.52
5236	1.67
5237	9.30
5238	211.21
5239	9.90
5240	11.31
5241	17.95
5242	4.40
5243	6.85
5244	6.78
5245	7.40
5246	5.74
5247	5.54
5248	6.58
5249	7.66
5250	24.46
5251	8.61
5252	7.17
5253	7.94
5254	4.68
5255	17.82
5256	29.87
5257	10.57
5258	15.39
5259	6.90
5260	3.57
5261	2.97
5262	5.84
5263	5.14
5264	4.66
5265	7.12
5266	11.67
5267	14.55
5268	9.70
5269	61.88
5270	9.64
5271	5.89
5272	9.08
5273	6.70
5274	4.45
5275	5.08
5276	6.89
5277	1.45

5278	0.81
5279	0.64
5280	0.66
5281	23.24

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 25.25 MEAN TIMESTEP(SEC.) = 22.25

MODEL TIME = 2.60 HOURS TOTAL TIMESTEP NUMBER = 405.
EFFECTIVE RAINFALL(IN/HR) = 0.19

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 218.99

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5177	2.33
5178	4.12
5179	6.48
5180	10.26
5181	8.01
5182	4.96
5183	5.95
5184	7.86
5185	8.96
5186	30.83
5187	31.13
5188	10.35
5189	9.62
5190	11.43
5191	26.15
5192	25.42
5193	6.06
5194	19.16
5195	51.70
5196	37.47
5197	10.36
5198	8.39
5199	6.75
5200	5.01
5201	5.80
5202	7.84
5203	17.20
5204	16.76
5205	11.71
5206	12.05
5207	14.86
5208	9.67
5209	9.54
5210	12.08
5211	12.80
5212	14.97
5213	10.32
5214	5.08
5215	8.69
5216	14.08
5217	6.78
5218	1.04
5220	0.91
5221	1.81
5222	1.13
5224	1.12
5225	4.31
5226	15.23
5227	217.37
5228	5.62
5229	2.18
5230	1.63
5231	1.70
5232	1.88
5233	1.20
5234	0.84
5235	2.78
5236	1.85
5237	10.61
5238	227.94
5239	10.80
5240	11.62
5241	18.08
5242	4.39
5243	6.87
5244	6.76
5245	7.15
5246	5.65
5247	5.72
5248	6.54
5249	7.55
5250	14.49
5251	8.01
5252	6.79
5253	7.62
5254	4.76
5255	18.48
5256	30.89
5257	10.54
5258	25.33
5259	6.93
5260	3.59
5261	2.93
5262	5.81
5263	5.14
5264	4.59
5265	6.98
5266	12.00
5267	16.12
5268	10.43
5269	59.44

5270	8.75
5271	5.73
5272	9.01
5273	6.67
5274	4.45
5275	5.08
5276	6.86
5277	1.38
5278	1.30
5279	1.54
5280	0.64
5281	42.25

MIN. TIMESTEP(SEC.) = 17.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 18.91

MODEL TIME = 2.81 HOURS TOTAL TIMESTEP NUMBER = 464.
EFFECTIVE RAINFALL(IN/HR) = 0.22

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 216.06

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5177	1.02
5178	2.56
5179	5.53
5180	8.79
5181	6.85
5182	4.32
5183	5.07
5184	7.19
5185	8.24
5186	27.43
5187	27.54
5188	9.95
5189	9.38
5190	11.21
5191	25.95
5192	25.56
5193	6.20
5194	19.46
5195	51.72
5196	37.54
5197	10.50
5198	8.91
5199	6.60
5200	4.58
5201	5.35
5202	7.31
5203	16.27
5204	16.00
5205	11.65
5206	12.04
5207	14.68
5208	9.46
5209	8.96
5210	11.12
5211	11.79
5212	13.48
5213	8.94
5214	3.59
5215	6.98
5216	12.08
5217	7.72
5218	2.21
5219	1.08
5223	0.94
5224	2.24
5225	4.22
5226	15.31
5227	219.08
5228	5.84
5229	2.32
5230	1.73
5231	1.74
5232	1.93
5233	2.10
5234	1.96
5235	3.06
5236	2.07
5237	13.30
5238	256.40
5239	11.89
5240	12.01
5241	18.35
5242	4.43
5243	7.17
5244	7.30
5245	8.01
5246	5.84
5247	5.56
5248	6.40
5249	7.61
5250	13.96
5251	7.67
5252	6.42
5253	7.31
5254	4.78
5255	18.18
5256	30.31
5257	10.38
5258	14.99
5259	6.85
5260	3.54
5261	2.89
5262	5.77

5263	5.11
5264	4.58
5265	6.94
5266	11.94
5267	16.50
5268	10.72
5269	59.40
5270	8.78
5271	5.95
5272	9.05
5273	6.62
5274	4.44
5275	5.01
5276	6.62
5277	1.40
5278	0.78
5279	1.25
5280	1.25
5281	222.16

MIN. TIMESTEP(SEC.) = 17.25 MAX. TIMESTEP(SEC.) = 19.25 MEAN TIMESTEP(SEC.) = 18.20

MODEL TIME = 3.00 HOURS TOTAL TIMESTEP NUMBER = 523.
EFFECTIVE RAINFALL(IN/HR) = 0.18

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 234.22

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5177	0.89
5178	2.33
5179	4.90
5180	7.86
5181	6.03
5182	3.82
5183	4.32
5184	6.42
5185	7.33
5186	23.62
5187	23.50
5188	9.33
5189	8.95
5190	11.05
5191	26.20
5192	15.44
5193	6.16
5194	18.81
5195	50.47
5196	36.27
5197	10.16
5198	8.20
5199	6.28
5200	4.16
5201	4.91
5202	6.81
5203	15.26
5204	14.94
5205	11.09
5206	11.68
5207	14.34
5208	9.23
5209	8.57
5210	10.54
5211	11.32
5212	12.65
5213	8.45
5214	2.66
5215	5.46
5216	9.96
5217	7.07
5218	2.51
5219	1.90
5220	1.06
5221	0.79
5222	2.09
5223	1.99
5224	2.18
5225	4.09
5226	14.63
5227	214.30
5228	5.72
5229	2.32
5230	1.08
5231	0.61
5232	1.95
5233	2.11
5234	1.97
5235	3.23
5236	2.22
5237	16.15
5238	287.61
5239	13.04
5240	12.10
5241	17.85
5242	4.58
5243	7.79
5244	7.99
5245	8.48
5246	5.99
5247	5.97
5248	6.64
5249	7.58
5250	13.69
5251	7.39
5252	6.66

5253	7.81
5254	4.74
5255	16.96
5256	28.42
5257	10.51
5258	15.18
5259	6.92
5260	3.58
5261	2.90
5262	5.71
5263	5.06
5264	4.51
5265	6.77
5266	11.70
5267	16.51
5268	10.82
5269	59.96
5270	8.77
5271	6.02
5272	9.22
5273	6.70
5274	4.45
5275	4.94
5276	5.24
5277	0.46
5278	1.29
5279	2.93
5280	16.00
5281	303.85

MIN. TIMESTEP(SEC.) = 17.25 MAX. TIMESTEP(SEC.) = 19.25 MEAN TIMESTEP(SEC.) = 18.07

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MODEL TIME = 3.20 HOURS TOTAL TIMESTEP NUMBER = 586.
EFFECTIVE RAINFALL(IN/HR) = 0.13

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 326.20

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5178	0.93
5179	3.07
5180	6.71
5181	4.97
5182	3.19
5183	3.50
5184	5.32
5185	6.20
5186	13.38
5187	21.83
5188	8.35
5189	8.29
5190	10.70
5191	26.13
5192	15.20
5193	5.94
5194	17.17
5195	46.81
5196	33.15
5197	9.19
5198	6.86
5199	5.49
5200	3.62
5201	4.34
5202	6.08
5203	13.88
5204	13.45
5205	10.08
5206	10.33
5207	13.05
5208	8.51
5209	8.04
5210	9.90
5211	10.47
5212	11.14
5213	6.59
5214	1.12
5215	3.00
5216	7.89
5217	4.64
5218	1.06
5222	0.99
5223	1.13
5224	0.97
5225	3.84
5226	13.71
5227	75.54
5228	5.16
5229	2.22
5230	1.67
5231	1.64
5232	1.89
5233	2.05
5234	1.96
5235	3.22
5236	2.25
5237	16.89
5238	290.06
5239	17.68
5240	21.05
5241	18.84
5242	5.03
5243	8.87
5244	9.17
5245	9.36
5246	6.02

5247	6.03
5248	6.74
5249	7.83
5250	13.88
5251	7.05
5252	6.47
5253	7.74
5254	4.69
5255	15.88
5256	26.79
5257	10.29
5258	15.12
5259	6.77
5260	3.44
5261	2.77
5262	5.63
5263	5.03
5264	4.44
5265	6.54
5266	11.25
5267	16.39
5268	10.79
5269	60.10
5270	8.81
5271	6.04
5272	9.25
5273	6.71
5274	4.46
5275	4.83
5276	6.32
5277	1.34
5278	1.25
5279	3.02
5280	32.05
5281	382.20

MIN. TIMESTEP(SEC.) = 15.25 MAX. TIMESTEP(SEC.) = 19.25 MEAN TIMESTEP(SEC.) = 17.69

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MODEL TIME = 3.40 HOURS TOTAL TIMESTEP NUMBER = 657.
EFFECTIVE RAINFALL(IN/HR) = 0.12

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 595.27

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5179	1.45
5180	4.55
5181	3.64
5182	1.15
5183	0.97
5184	3.09
5185	5.03
5186	11.97
5187	12.08
5188	6.91
5189	7.34
5190	10.02
5191	14.76
5192	14.72
5193	5.80
5194	15.20
5195	41.44
5196	28.85
5197	7.85
5198	5.74
5199	4.60
5200	3.03
5201	3.72
5202	5.26
5203	12.36
5204	12.21
5205	9.57
5206	9.41
5207	11.73
5208	7.83
5209	7.39
5210	9.22
5211	9.61
5212	9.83
5213	5.75
5214	1.11
5215	2.60
5216	5.67
5217	2.00
5223	0.89
5224	2.09
5225	3.60
5226	12.53
5227	72.74
5228	4.63
5229	1.20
5230	0.63
5231	1.61
5232	1.80
5233	1.99
5234	1.97
5235	3.18
5236	2.24
5237	17.34
5238	295.72
5239	13.39
5240	21.24
5241	18.45
5242	4.99
5243	8.96

5244	9.28
5245	9.55
5246	6.03
5247	5.98
5248	6.83
5249	7.94
5250	14.02
5251	7.48
5252	6.23
5253	7.29
5254	4.60
5255	15.02
5256	25.42
5257	10.18
5258	15.28
5259	6.81
5260	3.45
5261	2.79
5262	5.55
5263	4.97
5264	4.50
5265	6.49
5266	10.78
5267	16.15
5268	10.69
5269	59.58
5270	8.77
5271	6.04
5272	9.23
5273	6.68
5274	4.44
5275	4.79
5276	6.22
5277	1.38
5278	0.80
5279	2.01
5280	29.99
5281	389.82

MIN. TIMESTEP(SEC.) = 13.25 MAX. TIMESTEP(SEC.) = 16.25 MEAN TIMESTEP(SEC.) = 15.25

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MODEL TIME = 3.60 HOURS TOTAL TIMESTEP NUMBER = 731.
EFFECTIVE RAINFALL(IN/HR) = 0.09

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 1014.47

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5179	1.22
5180	2.86
5181	3.02
5182	1.26
5183	1.97
5184	2.59
5185	4.15
5186	10.46
5187	10.53
5188	5.27
5189	5.87
5190	9.05
5191	14.38
5192	14.49
5193	5.32
5194	12.48
5195	35.03
5196	24.55
5197	7.12
5198	5.05
5199	4.22
5200	2.95
5201	3.27
5202	4.35
5203	10.61
5204	10.99
5205	9.46
5206	8.70
5207	10.39
5208	6.77
5209	6.90
5210	8.57
5211	9.19
5212	8.81
5213	5.57
5214	2.01
5215	3.62
5216	5.94
5217	3.76
5218	2.10
5219	1.07
5220	0.88
5221	0.99
5223	0.87
5224	2.03
5225	3.43
5226	9.00
5227	71.69
5228	3.12
5229	0.89
5230	1.70
5231	1.59
5232	1.72
5233	1.10
5234	0.92
5235	3.15
5236	2.24

5237	17.78
5238	303.91
5239	13.51
5240	21.50
5241	18.64
5242	5.00
5243	8.79
5244	8.97
5245	9.11
5246	6.00
5247	5.97
5248	6.88
5249	8.05
5250	14.44
5251	7.71
5252	6.07
5253	7.09
5254	4.55
5255	14.10
5256	24.01
5257	9.71
5258	14.49
5259	6.59
5260	3.39
5261	2.79
5262	5.55
5263	4.96
5264	4.32
5265	6.08
5266	10.32
5267	15.85
5268	10.55
5269	59.16
5270	8.72
5271	6.03
5272	9.22
5273	6.66
5274	4.44
5275	4.75
5276	6.08
5277	1.32
5278	1.30
5279	3.02
5280	29.96
5281	454.47

MIN. TIMESTEP(SEC.) = 13.25 MAX. TIMESTEP(SEC.) = 15.25 MEAN TIMESTEP(SEC.) = 14.68

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MODEL TIME = 3.80 HOURS TOTAL TIMESTEP NUMBER = 811.
EFFECTIVE RAINFALL(IN/HR) = 0.09

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 1074.82

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5177	0.78
5178	2.05
5179	3.46
5180	5.20
5181	3.94
5182	3.38
5183	3.00
5184	3.52
5185	3.58
5186	9.35
5187	9.35
5188	4.39
5189	4.73
5190	7.69
5191	12.63
5192	12.82
5193	4.65
5194	9.83
5195	28.60
5196	20.16
5197	6.65
5198	3.57
5199	2.48
5200	1.59
5201	2.97
5202	3.92
5203	9.51
5204	10.00
5205	8.79
5206	8.47
5207	10.15
5208	6.51
5209	6.55
5210	7.96
5211	8.04
5212	7.79
5213	3.76
5214	1.09
5215	2.17
5216	5.38
5217	3.47
5218	1.98
5219	1.03
5221	0.78
5222	2.01
5223	1.09
5224	0.88
5225	3.34
5226	13.33
5227	204.30

5228	3.27
5230	0.62
5231	1.57
5232	1.64
5233	1.83
5234	1.92
5235	3.08
5236	2.22
5237	17.87
5238	300.89
5239	17.86
5240	21.98
5241	19.05
5242	5.04
5243	8.87
5244	9.06
5245	9.13
5246	6.00
5247	6.00
5248	6.82
5249	7.97
5250	14.38
5251	7.69
5252	5.98
5253	7.01
5254	4.53
5255	13.04
5256	22.37
5257	9.20
5258	13.46
5259	6.20
5260	3.21
5261	2.70
5262	5.32
5263	4.73
5264	4.18
5265	5.69
5266	9.85
5267	15.58
5268	10.41
5269	45.38
5270	8.61
5271	6.03
5272	9.29
5273	6.73
5274	4.44
5275	4.73
5276	6.08
5277	1.31
5278	0.78
5279	2.00
5280	61.01
5281	533.69

MIN. TIMESTEP(SEC.) = 12.25 MAX. TIMESTEP(SEC.) = 15.25 MEAN TIMESTEP(SEC.) = 13.72

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MODEL TIME = 4.00 HOURS TOTAL TIMESTEP NUMBER = 910.
EFFECTIVE RAINFALL(IN/HR) = 0.09

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 824.74

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5179	0.98
5180	2.27
5181	2.54
5182	2.21
5183	2.95
5184	3.27
5185	3.17
5186	7.38
5187	6.83
5188	2.54
5189	3.86
5190	6.32
5191	10.42
5192	10.48
5193	3.23
5194	6.38
5195	21.38
5196	16.53
5197	5.93
5198	4.23
5199	3.59
5200	2.73
5201	2.87
5202	3.76
5203	8.84
5204	8.99
5205	7.14
5206	7.85
5207	9.90
5208	6.35
5209	5.85
5210	7.03
5211	6.66
5212	6.72
5213	3.81
5214	2.08
5215	3.15
5216	4.22
5217	1.20
5222	1.03
5223	1.14
5224	0.84

5225	3.14
5226	8.40
5227	68.03
5228	4.16
5229	2.01
5230	0.97
5231	0.57
5232	1.58
5233	1.78
5234	1.85
5235	3.00
5236	2.17
5237	17.36
5238	302.46
5239	13.53
5240	19.88
5241	18.94
5242	5.11
5243	8.77
5244	8.93
5245	8.98
5246	6.00
5247	5.97
5248	6.84
5249	7.99
5250	14.28
5251	7.64
5252	5.91
5253	6.86
5254	4.49
5255	12.16
5256	20.97
5257	8.71
5258	12.43
5259	5.84
5260	3.06
5261	2.74
5262	4.94
5263	4.28
5264	4.06
5265	5.54
5266	9.56
5267	15.12
5268	10.10
5269	42.19
5270	8.90
5271	6.10
5272	9.33
5273	6.73
5274	4.43
5275	4.72
5276	6.10
5277	1.35
5278	0.77
5279	2.01
5280	31.59
5281	547.10

MIN. TIMESTEP(SEC.) = 9.25 MAX. TIMESTEP(SEC.) = 13.25 MEAN TIMESTEP(SEC.) = 11.00

MODEL TIME = 4.20 HOURS TOTAL TIMESTEP NUMBER = 1027.
EFFECTIVE RAINFALL(IN/HR) = 0.09

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 608.14

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5177	0.79
5178	1.09
5179	1.77
5180	1.82
5181	1.33
5183	0.65
5184	1.91
5185	2.90
5186	7.70
5187	6.51
5188	1.17
5189	0.96
5190	3.75
5191	8.16
5192	8.19
5193	2.49
5194	3.32
5195	18.52
5196	14.05
5197	4.46
5198	3.77
5199	2.62
5200	1.15
5201	0.57
5202	2.09
5203	7.47
5204	7.49
5205	5.70
5206	6.60
5207	8.82
5208	5.84
5209	5.45
5210	6.42
5211	5.80
5212	5.01
5213	2.31
5214	0.97
5215	2.67

5216	2.74
5218	0.37
5219	0.84
5220	1.87
5221	1.02
5223	0.90
5224	1.87
5225	2.98
5226	12.10
5227	207.31
5228	3.04
5230	0.60
5231	1.64
5232	1.58
5233	0.97
5234	0.83
5235	2.89
5236	2.09
5237	16.38
5238	289.30
5239	13.22
5240	20.57
5241	20.31
5242	4.97
5243	8.59
5244	8.79
5245	9.04
5246	5.98
5247	5.95
5248	6.83
5249	7.93
5250	14.11
5251	7.56
5252	5.81
5253	6.73
5254	4.46
5255	11.52
5256	19.98
5257	8.31
5258	11.53
5259	5.44
5260	2.83
5261	2.68
5262	4.78
5263	4.09
5264	3.93
5265	5.41
5266	9.35
5267	15.04
5268	10.22
5269	61.90
5270	9.40
5271	6.22
5272	9.39
5273	6.74
5274	4.43
5275	4.69
5276	5.98
5277	0.88
5279	2.07
5280	34.86
5281	614.20

MIN. TIMESTEP(SEC.) = 8.25 MAX. TIMESTEP(SEC.) = 10.25 MEAN TIMESTEP(SEC.) = 9.19

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MODEL TIME = 4.40 HOURS TOTAL TIMESTEP NUMBER = 1150.
EFFECTIVE RAINFALL(IN/HR) = 0.06

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 462.69

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5179	0.68
5180	1.59
5181	1.16
5183	0.65
5184	1.83
5185	2.70
5186	6.19
5187	5.81
5188	2.17
5189	2.95
5190	4.31
5191	6.84
5192	6.98
5193	2.75
5194	4.44
5195	19.17
5196	6.88
5197	3.41
5198	3.29
5199	2.99
5200	2.20
5201	1.44
5202	1.62
5203	6.08
5204	6.02
5205	4.49
5206	5.32
5207	7.47
5208	5.11
5209	5.08
5210	5.99
5211	5.27
5212	5.45

5213	3.31
5214	2.00
5215	2.89
5216	3.78
5217	1.21
5223	0.90
5224	1.76
5225	2.78
5226	11.23
5227	71.28
5228	3.93
5229	1.10
5230	0.61
5231	1.59
5232	0.93
5233	0.79
5234	1.78
5235	2.76
5236	2.00
5237	15.02
5238	279.28
5239	13.16
5240	20.70
5241	18.04
5242	5.04
5243	8.83
5244	9.10
5245	9.38
5246	5.99
5247	6.06
5248	6.80
5249	7.58
5250	13.73
5251	7.45
5252	5.85
5253	6.71
5254	4.38
5255	10.91
5256	19.02
5257	8.00
5258	10.81
5259	5.15
5260	2.74
5261	2.70
5262	4.64
5263	3.94
5264	3.78
5265	5.26
5266	9.16
5267	14.63
5268	9.86
5269	58.72
5270	8.98
5271	6.22
5272	9.46
5273	6.78
5274	4.43
5275	4.69
5276	4.74
5278	0.49
5279	3.08
5280	33.86
5281	763.86

MIN. TIMESTEP(SEC.) = 8.25 MAX. TIMESTEP(SEC.) = 9.25 MEAN TIMESTEP(SEC.) = 8.75

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MODEL TIME = 4.60 HOURS TOTAL TIMESTEP NUMBER = 1275.
EFFECTIVE RAINFALL(IN/HR) = 0.06

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 439.84

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5179	0.66
5180	1.56
5181	1.15
5182	0.99
5183	1.86
5184	2.91
5185	2.48
5186	6.61
5187	6.78
5188	3.22
5189	2.86
5190	3.99
5191	6.09
5192	6.18
5193	1.97
5194	3.15
5195	16.00
5196	5.71
5197	2.00
5198	3.17
5199	2.18
5200	1.09
5202	0.37
5203	3.55
5204	4.89
5205	3.58
5206	4.27
5207	6.05
5208	4.17
5209	4.35
5210	5.29
5211	4.72

5212	4.93
5213	2.49
5214	1.04
5215	1.68
5216	3.50
5217	1.20
5224	0.64
5225	2.63
5226	11.52
5227	71.68
5228	2.71
5229	0.89
5230	0.97
5232	0.67
5233	1.02
5234	0.76
5235	2.62
5236	1.89
5237	13.58
5238	265.40
5239	13.13
5240	20.47
5241	17.77
5242	4.96
5243	8.80
5244	9.10
5245	9.46
5246	5.99
5247	6.06
5248	6.70
5249	7.33
5250	13.36
5251	7.29
5252	6.08
5253	6.74
5254	4.03
5255	6.11
5256	18.89
5257	7.75
5258	10.20
5259	4.38
5260	1.51
5261	1.46
5262	4.52
5263	3.81
5264	3.67
5265	5.13
5266	8.92
5267	14.53
5268	10.04
5269	28.96
5270	9.45
5271	6.22
5272	9.39
5273	6.76
5274	4.45
5275	4.65
5276	5.96
5277	1.31
5278	1.29
5279	3.33
5280	31.80
5281	671.25

MIN. TIMESTEP(SEC.) = 8.25 MAX. TIMESTEP(SEC.) = 9.25 MEAN TIMESTEP(SEC.) = 8.74

==========

MODEL TIME = 4.80 HOURS TOTAL TIMESTEP NUMBER = 1394.
EFFECTIVE RAINFALL(IN/HR) = 0.06

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 509.06

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5178	0.88
5179	1.77
5180	2.69
5181	1.03
5183	0.67
5184	1.80
5185	2.48
5186	6.42
5187	6.60
5188	3.39
5189	2.93
5190	3.82
5191	5.66
5192	4.73
5193	0.99
5194	1.91
5195	8.75
5196	6.94
5197	2.91
5198	3.14
5199	2.93
5200	2.07
5201	1.48
5202	1.34
5203	3.76
5204	3.01
5205	1.94
5206	3.50
5207	4.98
5208	3.46
5209	3.69
5210	4.61

5211	4.24
5212	3.71
5213	1.21
5215	1.60
5216	3.50
5217	1.29
5223	0.87
5224	1.58
5225	2.52
5226	11.20
5227	71.85
5228	1.55
5232	0.65
5233	0.99
5234	0.70
5235	2.44
5236	1.77
5237	12.04
5238	250.11
5239	12.98
5240	12.50
5241	18.50
5242	4.94
5243	8.56
5244	8.77
5245	9.12
5246	5.98
5247	6.01
5248	6.55
5249	7.17
5250	13.02
5251	7.11
5252	6.32
5253	6.83
5254	3.67
5255	6.06
5256	18.90
5257	7.60
5258	9.86
5259	4.20
5260	1.42
5261	1.42
5262	4.39
5263	3.70
5264	3.57
5265	5.00
5266	8.60
5267	13.63
5268	9.32
5269	59.16
5270	9.17
5271	6.21
5272	9.33
5273	6.68
5274	4.43
5275	4.64
5276	4.66
5277	0.44
5278	0.78
5279	2.50
5280	31.88
5281	893.81

MIN. TIMESTEP(SEC.) = 8.25 MAX. TIMESTEP(SEC.) = 10.25 MEAN TIMESTEP(SEC.) = 8.98

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MODEL TIME = 5.00 HOURS TOTAL TIMESTEP NUMBER = 1508.
EFFECTIVE RAINFALL(IN/HR) = 0.06

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 559.79

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5177	0.82
5178	1.18
5179	1.67
5180	2.49
5181	2.11
5182	1.22
5183	0.67
5184	1.84
5185	2.50
5186	6.07
5187	5.05
5188	1.92
5189	1.71
5190	3.52
5191	5.48
5192	5.86
5193	2.69
5194	4.45
5195	10.10
5196	6.68
5197	2.31
5198	2.07
5199	1.23
5200	1.65
5201	0.97
5202	1.35
5203	2.78
5204	3.18
5205	1.84
5206	1.88
5207	4.13
5208	2.90
5209	3.16

SUMMARY.OUT FILE

NEGATIVE VOLUME CONSERVATION (ACRE FEET)
INDICATES EXCESS VOLUME (OUTFLOW + STORAGE > INFLOW)

SIMULATION TIME (HOURS)	AVERAGE TIMESTEP (SECONDS)	VOLUME CONSERVATION (ACRE FEET)	VOLUME CONSERVATION PERCENT OF INFLOW
0.21	19.28	-0.000023	0.000021
0.40	46.25	-0.000013	0.000007
0.60	59.75	-0.000016	0.000007
0.82	71.25	-0.000016	0.000007
1.02	81.25	-0.000025	0.000010
1.22	78.03	-0.000081	0.000010
1.41	48.61	-0.000086	0.000008
1.60	34.11	-0.000092	0.000007
1.81	30.50	-0.000095	0.000007
2.01	28.57	-0.000095	0.000007
2.21	26.55	-0.000094	0.000007
2.40	22.25	-0.000096	0.000007
2.60	18.91	-0.000088	0.000006
2.81	18.20	-0.000073	0.000005
3.00	18.07	-0.000062	0.000004
3.20	17.69	-0.000053	0.000003
3.40	15.25	-0.000026	0.000002
3.60	14.68	-0.000022	0.000001
3.80	13.72	-0.000049	0.000003
4.00	11.00	0.000011	0.000001
4.20	9.19	-0.000062	0.000004
4.40	8.75	-0.000150	0.000009
4.60	8.74	-0.000249	0.000014
4.80	8.98	-0.000363	0.000020
5.00	9.46	-0.000602	0.000034
5.20	9.75	-0.000825	0.000046
5.40	9.75	-0.001001	0.000055
5.60	10.41	-0.001085	0.000059
5.80	10.74	-0.001047	0.000056
6.00	10.53	-0.001046	0.000056
6.20	9.92	-0.001052	0.000056
6.40	9.10	-0.001048	0.000056
6.60	8.71	-0.001039	0.000055
6.80	8.75	-0.001036	0.000055
7.00	8.75	-0.001027	0.000054
7.20	9.12	-0.001030	0.000054
7.40	9.75	-0.001038	0.000055
7.60	10.26	-0.001038	0.000055
7.80	10.76	-0.001027	0.000054
8.00	11.20	-0.001038	0.000054
8.20	12.08	-0.001038	0.000054
8.40	13.00	-0.001033	0.000054
8.60	14.58	-0.001036	0.000054
8.80	16.01	-0.001033	0.000054
9.00	16.97	-0.001028	0.000053
9.20	16.99	-0.001023	0.000053
9.40	17.27	-0.001035	0.000053
9.60	18.05	-0.001028	0.000053
9.80	18.25	-0.001028	0.000053
10.01	18.25	-0.001029	0.000053
10.20	18.22	-0.001018	0.000052
10.40	18.25	-0.001034	0.000053
10.60	18.30	-0.001033	0.000053
10.80	18.43	-0.001031	0.000053
11.00	18.70	-0.001020	0.000052
11.20	19.07	-0.001025	0.000052
11.40	19.07	-0.001027	0.000052
11.60	19.12	-0.001027	0.000052
11.80	19.09	-0.001032	0.000052
12.00	19.22	-0.001036	0.000052
12.20	19.44	-0.001033	0.000052
12.40	19.41	-0.001031	0.000052
12.60	19.44	-0.001036	0.000052
12.80	19.41	-0.001033	0.000052
13.00	19.22	-0.001035	0.000052
13.20	19.63	-0.001037	0.000052
13.40	19.66	-0.001038	0.000052
13.60	19.64	-0.001037	0.000052
13.80	19.74	-0.001037	0.000051
14.00	19.75	-0.001028	0.000051
14.20	19.76	-0.001023	0.000051
14.40	19.69	-0.001026	0.000051
14.60	19.47	-0.001048	0.000052
14.80	19.49	-0.001039	0.000051
15.00	19.47	-0.001036	0.000051
15.20	19.28	-0.001043	0.000051
15.40	19.58	-0.001040	0.000051
15.60	19.76	-0.001030	0.000050
15.80	19.75	-0.001026	0.000050
16.00	19.74	-0.001023	0.000050
16.20	19.75	-0.001024	0.000050
16.40	19.60	-0.001023	0.000050
16.60	19.75	-0.001031	0.000050
16.80	19.79	-0.001049	0.000051
17.00	19.75	-0.001032	0.000050
17.20	19.76	-0.001043	0.000050
17.40	19.75	-0.001044	0.000050
17.60	19.74	-0.001037	0.000050
17.80	19.86	-0.001039	0.000050
18.00	19.75	-0.001036	0.000050
18.20	19.55	-0.001047	0.000050
18.40	19.74	-0.001033	0.000049
18.60	19.75	-0.001033	0.000049
18.81	19.76	-0.001021	0.000049
19.00	19.25	-0.001026	0.000049
19.20	19.33	-0.001037	0.000049
19.40	19.47	-0.001046	0.000050
19.60	19.60	-0.001010	0.000048
19.80	19.75	-0.001010	0.000048
20.00	19.74	-0.001028	0.000048
20.20	19.75	-0.001055	0.000050
20.41	19.87	-0.001042	0.000049
20.60	19.75	-0.001020	0.000048
20.80	19.47	-0.001025	0.000048
21.00	19.39	-0.001054	0.000049
21.20	19.41	-0.001059	0.000049
21.40	19.39	-0.001035	0.000048
21.60	19.47	-0.001037	0.000048
21.80	19.49	-0.001021	0.000047
22.00	19.57	-0.001027	0.000048

5210	4.00
5211	3.81
5212	4.19
5213	2.87
5214	1.97
5215	2.28
5216	2.05
5218	0.36
5219	0.84
5220	1.02
5223	0.88
5224	1.53
5225	2.40
5226	10.27
5227	66.67
5228	1.03
5230	0.60
5231	1.02
5232	0.62
5233	1.01
5234	0.65
5235	2.27
5236	1.64
5237	10.69
5238	235.97
5239	12.35
5240	19.52
5241	15.68
5242	3.33
5243	8.00
5244	8.16
5245	8.84
5246	5.98
5247	5.98
5248	6.46
5249	6.89
5250	12.42
5251	6.91
5252	6.67
5253	6.96
5254	3.21
5255	5.81
5256	18.33
5257	7.35
5258	9.35
5259	4.49
5260	2.37
5261	2.49
5262	4.21
5263	3.54
5264	3.36
5265	4.74
5266	8.17
5267	12.80
5268	8.81
5269	27.72
5270	8.75
5271	5.90
5272	8.96
5273	6.52
5274	4.44
5275	4.55
5276	5.70
5277	1.37
5278	0.77
5279	2.56
5280	34.85
5281	803.38

MIN. TIMESTEP(SEC.) = 8.25 MAX. TIMESTEP(SEC.) = 10.25 MEAN TIMESTEP(SEC.) = 9.46

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MODEL TIME = 5.20 HOURS TOTAL TIMESTEP NUMBER = 1619.
EFFECTIVE RAINFALL(IN/HR) = 0.09

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 483.59

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5179	0.52
5180	2.28
5181	2.78
5182	2.38
5183	1.01
5184	0.67
5185	1.26
5186	5.74
5187	5.94
5188	3.27
5189	2.78
5190	3.48
5191	4.18
5192	4.16
5193	1.66
5194	4.41
5195	17.53
5196	5.50
5197	1.21
5198	2.02
5199	1.19
5200	1.10
5201	0.41
5202	1.28
5203	3.20
5204	2.46
5205	1.71

5206	2.83
5207	3.64
5208	2.52
5209	2.77
5210	3.54
5211	3.47
5212	3.16
5213	1.15
5215	1.07
5216	1.85
5224	0.51
5225	2.37
5226	6.86
5227	63.86
5228	0.97
5232	0.63
5233	1.71
5234	1.39
5235	1.82
5236	1.51
5237	9.65
5238	224.46
5239	11.77
5240	11.02
5241	15.74
5242	3.17
5243	7.53
5244	7.65
5245	8.45
5246	5.99
5247	5.96
5248	6.42
5249	6.63
5250	11.77
5251	6.65
5252	6.65
5253	6.87
5254	3.07
5255	5.57
5256	17.63
5257	7.11
5258	8.80
5259	4.34
5260	2.37
5261	2.52
5262	4.09
5263	3.42
5264	3.18
5265	4.47
5266	7.94
5267	12.90
5268	9.08
5269	28.95
5270	9.54
5271	5.69
5272	8.46
5273	6.22
5274	4.43
5275	4.44
5276	5.52
5277	1.34
5278	1.26
5279	3.51
5280	29.97
5281	719.52

MIN. TIMESTEP(SEC.) = 9.25 MAX. TIMESTEP(SEC.) = 10.25 MEAN TIMESTEP(SEC.) = 9.75

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MODEL TIME = 5.40 HOURS TOTAL TIMESTEP NUMBER = 1730.
EFFECTIVE RAINFALL(IN/HR) = 0.06

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 367.69

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5177	1.94
5178	3.06
5179	2.61
5180	3.58
5181	2.04
5182	1.17
5183	0.64
5184	1.06
5185	1.08
5186	3.17
5187	3.23
5188	0.91
5189	1.79
5190	3.47
5191	5.16
5192	5.51
5193	2.73
5194	4.44
5195	10.13
5196	6.83
5197	3.10
5198	3.10
5199	2.30
5200	1.09
5201	0.40
5202	1.20
5203	3.04
5204	2.36
5205	1.63
5206	2.60

5207	3.32
5208	2.27
5209	2.27
5210	2.11
5211	1.99
5212	3.70
5213	2.74
5214	1.98
5215	2.06
5216	1.82
5218	0.36
5219	0.84
5220	1.07
5223	0.87
5224	1.01
5225	1.29
5226	6.63
5227	64.26
5228	1.89
5229	1.10
5230	0.61
5231	1.55
5232	0.92
5234	0.41
5235	1.56
5236	1.30
5237	8.41
5238	210.21
5239	10.90
5240	10.51
5241	15.16
5242	3.10
5243	7.12
5244	7.14
5245	7.84
5246	5.99
5247	5.96
5248	6.45
5249	6.40
5250	11.17
5251	6.42
5252	6.52
5253	6.59
5254	2.99
5255	5.41
5256	17.09
5257	7.17
5258	8.49
5259	3.62
5260	2.22
5261	2.43
5262	4.02
5263	3.35
5264	3.06
5265	4.26
5266	7.71
5267	12.37
5268	8.46
5269	58.25
5270	8.99
5271	5.51
5272	8.46
5273	6.22
5274	4.02
5275	4.25
5276	5.21
5277	1.30
5278	0.78
5279	2.42
5280	34.19
5281	806.44

MIN. TIMESTEP(SEC.) = 9.25 MAX. TIMESTEP(SEC.) = 10.25 MEAN TIMESTEP(SEC.) = 9.75

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MODEL TIME = 5.60 HOURS TOTAL TIMESTEP NUMBER = 1833.
EFFECTIVE RAINFALL(IN/HR) = 0.12

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 298.97

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5177	0.80
5178	2.12
5179	2.82
5180	3.96
5181	3.06
5182	2.46
5183	1.75
5184	1.10
5185	1.10
5186	4.12
5187	5.54
5188	2.26
5189	1.70
5190	2.35
5191	5.10
5192	4.23
5193	1.04
5194	1.84
5195	8.50
5196	6.75
5197	3.24
5198	2.49
5199	1.19
5201	0.38

5202	1.24
5203	4.08
5204	3.03
5205	1.79
5206	1.59
5207	3.27
5208	2.14
5209	2.39
5210	3.16
5211	3.22
5212	3.75
5213	2.98
5214	2.13
5215	2.47
5216	2.93
5217	1.26
5221	0.77
5222	1.09
5223	0.90
5224	1.54
5225	2.35
5226	6.38
5227	60.34
5228	0.99
5231	0.56
5232	1.68
5233	0.95
5234	0.42
5235	1.48
5236	1.22
5237	7.65
5238	200.45
5239	10.35
5240	11.49
5241	17.81
5242	4.29
5243	6.77
5244	6.71
5245	7.29
5246	6.02
5247	5.90
5248	6.15
5249	6.20
5250	10.89
5251	6.37
5252	6.28
5253	6.19
5254	2.01
5255	3.94
5256	16.60
5257	7.32
5258	8.43
5259	2.59
5260	1.13
5261	1.26
5262	3.98
5263	3.31
5264	2.99
5265	4.10
5266	7.53
5267	12.44
5268	8.61
5269	28.09
5270	9.32
5271	5.38
5272	8.26
5273	6.23
5274	4.09
5275	4.15
5276	3.79
5277	0.44
5278	0.78
5279	2.31
5280	28.51
5281	741.19

MIN. TIMESTEP(SEC.) = 9.25 MAX. TIMESTEP(SEC.) = 11.25 MEAN TIMESTEP(SEC.) = 10.41

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MODEL TIME = 5.80 HOURS TOTAL TIMESTEP NUMBER = 1934.
EFFECTIVE RAINFALL(IN/HR) = 0.09

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 267.87

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5179	0.72
5180	1.68
5181	1.21
5184	0.71
5185	1.10
5186	5.63
5187	5.77
5188	3.40
5189	2.86
5190	3.57
5191	5.19
5192	5.39
5193	2.69
5194	4.39
5195	10.20
5196	6.82
5197	3.00
5198	2.29
5199	1.79
5200	1.02

5201	1.44
5202	1.28
5203	3.56
5204	2.80
5205	1.73
5206	2.77
5207	3.38
5208	2.23
5209	2.42
5210	3.20
5211	3.32
5212	3.04
5213	1.82
5214	0.95
5215	2.52
5216	3.08
5217	1.25
5221	0.78
5222	2.04
5223	1.98
5224	1.50
5225	2.29
5226	6.22
5227	59.20
5228	1.01
5229	0.89
5230	1.59
5231	1.03
5234	0.42
5235	1.45
5236	1.16
5237	6.65
5238	189.54
5239	9.85
5240	11.25
5241	17.57
5242	4.25
5243	6.74
5244	6.72
5245	7.29
5246	5.84
5247	5.43
5248	5.72
5249	5.99
5250	10.66
5251	6.36
5252	6.15
5253	5.90
5254	2.83
5255	5.39
5256	17.07
5257	7.49
5258	7.81
5259	1.54
5261	1.32
5262	4.06
5263	3.36
5264	2.95
5265	3.99
5266	7.37
5267	12.09
5268	8.21
5269	58.28
5270	9.05
5271	5.36
5272	8.20
5273	6.19
5274	4.03
5275	4.11
5276	4.86
5277	0.86
5279	2.16
5280	34.94
5281	701.31

MIN. TIMESTEP(SEC.) = 10.25 MAX. TIMESTEP(SEC.) = 11.25 MEAN TIMESTEP(SEC.) = 10.74

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MODEL TIME = 6.00 HOURS TOTAL TIMESTEP NUMBER = 2037.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 251.85

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5179	0.66
5180	1.55
5181	1.14
5184	0.65
5185	1.05
5186	5.51
5187	5.62
5188	3.19
5189	2.67
5190	3.43
5191	4.07
5192	2.79
5194	1.77
5195	8.20
5196	6.55
5197	3.05
5198	2.21
5199	1.76
5200	1.04
5201	1.03
5202	0.27
5203	2.94
5204	4.06

5205	2.89
5206	2.70
5207	3.30
5208	2.18
5209	2.34
5210	3.04
5211	2.60
5212	2.43
5213	1.07
5214	1.05
5215	1.42
5216	3.08
5217	1.20
5224	0.49
5225	2.31
5226	5.95
5227	56.99
5228	0.95
5232	0.65
5233	1.00
5234	0.42
5235	1.40
5236	1.09
5237	6.47
5238	180.09
5239	9.32
5240	9.80
5241	14.57
5242	2.96
5243	7.04
5244	7.10
5245	7.17
5246	4.82
5247	4.98
5248	5.38
5249	5.71
5250	10.51
5251	6.40
5252	5.79
5253	5.58
5254	2.74
5255	5.49
5256	17.42
5257	7.52
5258	8.66
5259	2.47
5260	1.12
5261	1.30
5262	4.10
5263	3.40
5264	2.90
5265	3.84
5266	7.17
5267	12.00
5268	8.22
5269	28.08
5270	9.44
5271	5.23
5272	8.16
5273	6.20
5274	3.79
5275	3.96
5276	3.58
5277	0.42
5278	0.77
5279	2.06
5280	32.36
5281	778.14

MIN. TIMESTEP(SEC.) = 9.25 MAX. TIMESTEP(SEC.) = 11.25 MEAN TIMESTEP(SEC.) = 10.53

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MODEL TIME = 6.20 HOURS TOTAL TIMESTEP NUMBER = 2146.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 241.04

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5186	2.71
5187	2.77
5189	0.65
5190	2.08
5191	3.49
5192	2.30
5194	1.57
5195	7.59
5196	5.41
5197	1.81
5198	1.99
5199	2.88
5200	2.05
5201	1.08
5202	0.14
5203	1.19
5204	1.21
5209	0.75
5210	1.43
5211	0.94
5212	1.14
5215	0.81
5216	1.43
5225	1.01
5226	4.95
5227	53.84
5228	1.01
5229	0.88
5230	0.97

5231	0.55
5232	0.93
5234	0.41
5235	1.39
5236	1.00
5237	5.42
5238	170.27
5239	8.72
5240	10.58
5241	16.92
5242	4.22
5243	7.09
5244	6.94
5245	7.20
5246	4.39
5247	4.51
5248	4.99
5249	5.31
5250	10.09
5251	6.37
5252	5.53
5253	5.15
5254	1.73
5255	4.30
5256	15.50
5257	7.36
5258	8.36
5259	2.30
5260	1.06
5261	1.21
5262	3.91
5263	3.31
5264	2.79
5265	3.61
5266	6.88
5267	11.54
5268	7.81
5269	28.40
5270	9.70
5271	5.13
5272	8.63
5273	6.48
5274	2.99
5275	3.60
5276	3.36
5279	1.98
5280	30.64
5281	612.61

MIN. TIMESTEP(SEC.) = 9.25 MAX. TIMESTEP(SEC.) = 11.25 MEAN TIMESTEP(SEC.) = 9.92

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MODEL TIME = 6.40 HOURS TOTAL TIMESTEP NUMBER = 2265.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 228.05

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5186	1.80
5187	1.85
5189	0.59
5190	1.80
5191	3.15
5192	2.01
5194	1.39
5195	6.97
5196	5.71
5197	2.84
5198	2.19
5199	1.04
5207	0.57
5208	0.87
5209	0.99
5212	0.79
5213	1.08
5214	1.05
5224	0.52
5225	1.79
5226	4.06
5227	49.51
5228	0.98
5229	0.89
5230	1.56
5231	1.64
5232	0.93
5235	0.44
5236	0.95
5237	5.05
5238	161.03
5239	8.21
5240	10.21
5241	16.46
5242	4.15
5243	6.87
5244	7.01
5245	7.32
5246	4.91
5247	4.37
5248	4.71
5249	4.88
5250	9.86
5251	6.44
5252	4.90
5253	4.72
5254	2.41
5255	5.42
5256	9.37

5257	7.21
5258	7.33
5259	1.69
5260	1.00
5261	2.21
5262	3.39
5263	3.12
5264	2.68
5265	3.50
5266	6.77
5267	11.10
5268	7.39
5269	27.12
5270	9.46
5271	4.96
5272	8.57
5273	6.46
5274	2.68
5275	3.22
5276	3.08
5278	0.47
5279	3.01
5280	34.59
5281	688.82

MIN. TIMESTEP(SEC.) = 8.25 MAX. TIMESTEP(SEC.) = 10.25 MEAN TIMESTEP(SEC.) = 9.10

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MODEL TIME = 6.60 HOURS TOTAL TIMESTEP NUMBER = 2390.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 218.52

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5186	1.18
5187	2.04
5188	1.90
5189	2.46
5190	2.52
5191	3.54
5192	2.95
5193	0.93
5194	1.21
5195	5.20
5196	4.15
5197	1.84
5198	2.96
5199	2.21
5200	1.06
5210	0.32
5211	1.52
5212	2.42
5213	1.71
5214	0.93
5215	0.97
5225	0.74
5226	3.44
5227	44.64
5228	0.98
5231	0.55
5232	0.93
5235	0.44
5236	0.95
5237	4.47
5238	150.66
5239	7.48
5240	8.72
5241	13.52
5242	2.90
5243	6.93
5244	7.04
5245	7.16
5246	4.76
5247	4.45
5248	4.57
5249	4.54
5250	9.74
5251	6.56
5252	4.30
5253	4.31
5254	2.33
5255	5.52
5256	9.44
5257	7.18
5258	7.19
5259	1.22
5261	1.00
5262	2.92
5263	2.74
5264	2.49
5265	3.43
5266	6.76
5267	10.62
5268	6.97
5269	24.97
5270	8.83
5271	4.67
5272	8.11
5273	6.15
5274	2.48
5275	2.93
5276	2.81
5277	0.43
5278	0.78
5279	1.98
5280	28.96
5281	678.00

MIN. TIMESTEP(SEC.) = 7.25 MAX. TIMESTEP(SEC.) = 9.25 MEAN TIMESTEP(SEC.) = 8.71

MODEL TIME = 6.80 HOURS TOTAL TIMESTEP NUMBER = 2512.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 214.36

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5190	0.53
5191	1.21
5192	1.26
5194	0.96
5195	5.41
5196	3.94
5197	1.06
5199	0.71
5200	1.02
5201	1.03
5212	0.76
5213	1.71
5214	2.06
5215	1.48
5216	0.93
5222	1.00
5223	1.09
5225	0.72
5226	3.09
5227	42.67
5228	1.89
5229	1.19
5235	0.42
5236	0.95
5237	4.34
5238	140.32
5239	7.32
5240	9.55
5241	15.94
5242	4.21
5243	7.02
5244	6.86
5245	7.20
5246	4.51
5247	4.34
5248	4.46
5249	4.35
5250	9.43
5251	6.41
5252	4.04
5253	4.01
5254	2.18
5255	5.29
5256	9.08
5257	7.05
5258	7.91
5259	2.55
5260	2.05
5261	2.02
5262	2.73
5263	2.55
5264	2.32
5265	3.57
5266	6.84
5267	9.57
5268	6.42
5269	22.21
5270	7.98
5271	4.30
5272	7.47
5273	5.63
5274	2.32
5275	2.77
5276	2.71
5277	0.43
5278	0.78
5279	1.99
5280	34.15
5281	622.88

MIN. TIMESTEP(SEC.) = 8.25 MAX. TIMESTEP(SEC.) = 9.25 MEAN TIMESTEP(SEC.) = 8.75

MODEL TIME = 7.00 HOURS TOTAL TIMESTEP NUMBER = 2635.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.99

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5194	0.70
5195	3.33
5196	2.17
5223	0.87
5224	1.49
5225	1.58
5226	2.61
5227	37.11
5228	0.95
5237	4.11

5238	132.79
5239	7.20
5240	8.25
5241	13.02
5242	2.89
5243	7.03
5244	6.87
5245	7.06
5246	4.25
5247	4.19
5248	4.36
5249	4.22
5250	9.11
5251	6.20
5252	3.86
5253	3.80
5254	2.11
5255	5.08
5256	8.65
5257	6.81
5258	7.73
5259	2.11
5260	1.11
5261	0.87
5262	2.52
5263	2.35
5264	2.15
5265	3.48
5266	6.79
5267	8.59
5268	5.56
5269	19.54
5270	7.18
5271	4.07
5272	6.88
5273	4.93
5274	2.11
5275	2.59
5276	3.63
5277	0.87
5279	2.00
5280	33.64
5281	762.47

MIN. TIMESTEP(SEC.) = 8.25 MAX. TIMESTEP(SEC.) = 9.25 MEAN TIMESTEP(SEC.) = 8.75

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MODEL TIME = 7.20 HOURS TOTAL TIMESTEP NUMBER = 2753.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5194	0.38
5195	2.05
5196	1.33
5224	0.48
5225	1.56
5226	2.51
5227	34.00
5228	1.01
5235	0.44
5236	0.95
5237	1.90
5238	127.90
5239	5.45
5240	8.16
5241	12.89
5242	2.87
5243	6.92
5244	6.69
5245	6.75
5246	4.11
5247	4.07
5248	4.27
5249	4.12
5250	8.82
5251	5.99
5252	3.73
5253	3.65
5254	1.99
5255	4.75
5256	8.16
5257	6.53
5258	7.52
5259	2.54
5260	2.06
5261	1.87
5262	2.37
5263	2.22
5264	2.03
5265	3.36
5266	6.64
5267	8.17
5268	5.24
5269	19.01
5270	7.05
5271	3.96
5272	6.38
5273	4.27
5274	1.91
5275	2.40
5276	2.38
5278	0.48
5279	2.99
5280	28.79
5281	676.58

MIN. TIMESTEP(SEC.) = 8.25 MAX. TIMESTEP(SEC.) = 10.25 MEAN TIMESTEP(SEC.) = 9.12

MODEL TIME = 7.40 HOURS TOTAL TIMESTEP NUMBER = 2864.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5194	0.23
5195	1.38
5196	0.89
5225	0.62
5226	2.43
5227	31.28
5228	0.99
5230	0.61
5231	1.01
5235	0.43
5236	0.95
5237	1.76
5238	118.75
5239	5.31
5240	9.10
5241	15.33
5242	4.08
5243	6.70
5244	6.40
5245	6.37
5246	3.97
5247	3.97
5248	4.20
5249	4.04
5250	8.59
5251	5.82
5252	3.60
5253	3.52
5254	2.00
5255	4.67
5256	7.85
5257	5.83
5258	5.74
5259	0.96
5260	1.12
5261	0.79
5262	2.28
5263	2.12
5264	1.92
5265	3.22
5266	6.42
5267	7.88
5268	5.05
5269	18.51
5270	6.88
5271	4.04
5272	6.10
5273	3.65
5274	1.71
5275	2.21
5276	2.25
5279	2.00
5280	34.24
5281	643.07

MIN. TIMESTEP(SEC.) = 9.25 MAX. TIMESTEP(SEC.) = 10.25 MEAN TIMESTEP(SEC.) = 9.75

MODEL TIME = 7.60 HOURS TOTAL TIMESTEP NUMBER = 2969.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5194	0.15
5195	0.99
5196	0.63
5224	0.50
5225	1.45
5226	2.23
5227	28.06
5228	0.96
5230	0.61
5231	1.01
5233	0.75
5234	0.91
5235	0.43
5236	0.95
5237	1.75
5238	49.75
5239	5.20
5240	8.97
5241	15.29
5242	4.12
5243	6.54
5244	6.19
5245	6.11
5246	3.83
5247	3.87

5248	4.14
5249	3.97
5250	8.42
5251	5.69
5252	3.50
5253	3.41
5254	1.95
5255	4.56
5256	7.65
5257	6.07
5258	6.30
5259	1.54
5260	1.02
5261	1.82
5262	2.19
5263	2.01
5264	1.84
5265	3.08
5266	6.14
5267	7.53
5268	4.82
5269	17.72
5270	6.61
5271	4.01
5272	5.91
5273	3.31
5274	1.53
5275	2.01
5276	2.09
5279	1.99
5280	33.51
5281	709.31

MIN. TIMESTEP(SEC.) = 9.25 MAX. TIMESTEP(SEC.) = 11.25 MEAN TIMESTEP(SEC.) = 10.26

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MODEL TIME = 7.80 HOURS TOTAL TIMESTEP NUMBER = 3069.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5225	0.47
5226	2.00
5227	25.05
5228	0.97
5237	1.76
5238	61.90
5239	6.55
5240	8.65
5241	14.85
5242	4.04
5243	6.35
5244	5.98
5245	5.87
5246	3.68
5247	3.76
5248	4.07
5249	3.92
5250	8.29
5251	5.59
5252	3.42
5253	3.34
5254	1.11
5255	3.24
5256	7.48
5257	5.91
5258	6.94
5259	2.07
5260	1.07
5261	0.78
5262	2.14
5263	1.17
5264	0.76
5265	2.95
5266	5.89
5267	7.22
5268	4.63
5269	17.07
5270	6.36
5271	3.92
5272	5.73
5273	3.16
5274	1.48
5275	1.84
5276	1.88
5279	1.99
5280	31.25
5281	714.11

MIN. TIMESTEP(SEC.) = 10.25 MAX. TIMESTEP(SEC.) = 11.25 MEAN TIMESTEP(SEC.) = 10.76

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MODEL TIME = 8.00 HOURS TOTAL TIMESTEP NUMBER = 3166.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)

5225	0.40
5226	1.24
5227	20.49
5235	0.43
5236	0.95
5237	1.71
5238	48.28
5239	4.65
5240	7.08
5241	11.48
5242	2.62
5243	6.11
5244	5.75
5245	5.62
5246	3.52
5247	3.62
5248	3.98
5249	3.86
5250	8.19
5251	5.53
5252	3.39
5253	3.29
5254	1.08
5255	3.20
5256	7.41
5257	5.36
5258	5.27
5259	0.91
5260	1.11
5261	0.76
5262	2.14
5263	1.95
5264	1.79
5265	2.87
5266	5.72
5267	7.02
5268	4.51
5269	17.30
5270	6.44
5271	3.34
5272	5.46
5273	3.07
5274	1.47
5275	1.72
5276	2.78
5277	0.85
5279	2.00
5280	28.45
5281	623.94

MIN. TIMESTEP(SEC.) = 10.25 MAX. TIMESTEP(SEC.) = 12.25 MEAN TIMESTEP(SEC.) = 11.20

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MODEL TIME = 8.20 HOURS TOTAL TIMESTEP NUMBER = 3254.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5223	0.87
5224	1.50
5225	0.88
5226	0.58
5227	19.91
5228	0.97
5234	0.41
5235	1.32
5236	0.95
5237	1.68
5238	49.15
5239	4.33
5240	7.69
5241	13.47
5242	3.82
5243	5.84
5244	5.48
5245	5.32
5246	3.31
5247	3.44
5248	3.85
5249	3.79
5250	8.11
5251	5.48
5252	3.36
5253	3.26
5254	1.87
5255	4.39
5256	7.36
5257	5.76
5258	5.98
5259	1.10
5261	0.77
5262	2.13
5263	1.95
5264	1.78
5265	2.82
5266	5.63
5267	6.91
5268	4.46
5269	17.66
5270	6.60
5271	2.94
5272	4.80
5273	1.99
5274	0.50
5275	1.63
5276	2.67

5277	0.86
5279	1.97
5280	28.85
5281	607.32

MIN. TIMESTEP(SEC.) = 11.25 MAX. TIMESTEP(SEC.) = 13.25 MEAN TIMESTEP(SEC.) = 12.08

MODEL TIME = 8.40 HOURS TOTAL TIMESTEP NUMBER = 3338.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5222	1.01
5223	1.95
5224	1.00
5227	8.17
5228	0.90
5229	1.12
5234	0.41
5235	0.89
5237	1.66
5238	50.80
5239	4.01
5240	6.11
5241	10.13
5242	2.42
5243	5.59
5244	5.19
5245	5.05
5246	3.13
5247	3.26
5248	3.71
5249	3.73
5250	7.97
5251	5.34
5252	3.31
5253	3.24
5254	1.88
5255	4.37
5256	7.32
5257	5.71
5258	6.64
5259	2.05
5260	1.13
5261	0.75
5262	2.15
5263	1.96
5264	1.77
5265	2.81
5266	5.59
5267	6.86
5268	4.43
5269	17.71
5270	6.62
5271	2.77
5272	4.46
5273	1.85
5274	0.49
5275	1.56
5276	1.59
5277	0.43
5278	0.77
5279	1.97
5280	30.33
5281	622.51

MIN. TIMESTEP(SEC.) = 12.25 MAX. TIMESTEP(SEC.) = 14.25 MEAN TIMESTEP(SEC.) = 13.00

MODEL TIME = 8.60 HOURS TOTAL TIMESTEP NUMBER = 3411.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5224	0.49
5225	1.24
5226	1.63
5227	8.61
5228	0.95
5235	0.45
5236	0.95
5237	1.66
5238	49.68
5239	3.68
5240	6.72
5241	12.09
5242	3.60
5243	5.38
5244	4.94
5245	4.82
5246	3.00
5247	3.13
5248	3.58
5249	3.67
5250	7.83
5251	5.18

5252	3.24
5253	3.12
5254	1.03
5255	3.13
5256	7.27
5257	5.68
5258	5.93
5259	1.13
5261	0.78
5262	2.13
5263	1.89
5264	1.69
5265	2.80
5266	5.62
5267	6.87
5268	4.42
5269	17.70
5270	6.64
5271	2.77
5272	4.47
5273	2.61
5274	1.38
5275	1.50
5276	1.52
5277	0.44
5278	0.77
5279	1.96
5280	33.13
5281	568.54

MIN. TIMESTEP(SEC.) = 13.25 MAX. TIMESTEP(SEC.) = 16.25 MEAN TIMESTEP(SEC.) = 14.58

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MODEL TIME = 8.80 HOURS TOTAL TIMESTEP NUMBER = 3477.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	7.79
5228	0.90
5229	1.11
5235	0.44
5236	0.96
5237	1.61
5238	52.80
5239	5.04
5240	5.44
5241	9.25
5242	2.32
5243	5.17
5244	4.70
5245	4.59
5246	2.87
5247	3.01
5248	3.44
5249	3.59
5250	7.70
5251	5.04
5252	3.18
5253	3.17
5254	1.93
5255	4.34
5256	7.19
5257	5.67
5258	6.70
5259	2.03
5260	1.12
5261	0.77
5262	2.18
5263	1.98
5264	1.77
5265	2.83
5266	5.68
5267	6.92
5268	4.44
5269	17.30
5270	6.47
5271	3.05
5272	4.46
5273	2.51
5274	1.33
5275	1.45
5276	2.44
5277	0.85
5279	1.98
5280	34.88
5281	505.07

MIN. TIMESTEP(SEC.) = 14.25 MAX. TIMESTEP(SEC.) = 17.25 MEAN TIMESTEP(SEC.) = 16.01

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MODEL TIME = 9.00 HOURS TOTAL TIMESTEP NUMBER = 3542.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5218	0.36

5219	0.85
5220	1.07
5226	0.54
5227	8.26
5228	0.95
5237	1.71
5238	52.89
5239	4.83
5240	6.12
5241	11.12
5242	3.43
5243	4.96
5244	4.50
5245	4.39
5246	2.74
5247	2.88
5248	3.30
5249	3.56
5250	7.53
5251	4.78
5252	3.11
5253	3.11
5254	1.90
5255	4.30
5256	7.13
5257	5.64
5258	6.64
5259	1.99
5260	1.06
5261	0.76
5262	2.15
5263	1.97
5264	1.78
5265	2.83
5266	5.72
5267	7.00
5268	4.49
5269	17.32
5270	6.45
5271	3.11
5272	4.55
5273	2.54
5274	1.38
5275	1.42
5276	1.40
5278	0.47
5279	3.00
5280	31.60
5281	426.72

MIN. TIMESTEP(SEC.) = 15.25 MAX. TIMESTEP(SEC.) = 18.25 MEAN TIMESTEP(SEC.) = 16.97

MODEL TIME = 9.20 HOURS TOTAL TIMESTEP NUMBER = 3605.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5226	0.56
5227	9.44
5228	1.86
5229	1.11
5237	1.59
5238	46.40
5239	3.20
5240	5.93
5241	10.85
5242	3.42
5243	4.85
5244	4.31
5245	4.20
5246	2.63
5247	2.77
5248	3.18
5249	3.89
5250	7.56
5251	4.03
5252	2.92
5253	3.00
5254	1.85
5255	4.13
5256	6.91
5257	5.54
5258	6.52
5259	2.14
5260	1.12
5261	0.76
5262	2.16
5263	1.97
5264	1.78
5265	2.86
5266	5.77
5267	7.07
5268	4.53
5269	17.38
5270	6.47
5271	3.26
5272	4.48
5273	1.67
5274	0.46
5275	1.41
5276	1.36
5279	2.03
5280	28.61
5281	455.37

MIN. TIMESTEP(SEC.) = 15.25 MAX. TIMESTEP(SEC.) = 18.25 MEAN TIMESTEP(SEC.) = 16.99

MODEL TIME = 9.40 HOURS TOTAL TIMESTEP NUMBER = 3667.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	7.76
5228	0.90
5229	1.11
5231	0.57
5232	0.96
5237	1.42
5238	49.40
5239	4.53
5240	4.66
5241	8.06
5242	2.15
5243	4.68
5244	4.10
5245	4.00
5246	2.51
5247	2.65
5248	3.04
5249	3.88
5250	7.49
5251	3.83
5252	2.75
5253	2.88
5254	1.06
5255	2.87
5256	6.75
5257	5.01
5258	4.24
5261	0.76
5262	2.15
5263	1.96
5264	1.78
5265	2.87
5266	5.80
5267	7.09
5268	4.54
5269	17.09
5270	6.36
5271	3.48
5272	4.85
5273	2.60
5274	1.37
5275	1.38
5276	2.32
5277	0.84
5279	2.00
5280	33.70
5281	450.30

MIN. TIMESTEP(SEC.) = 16.25 MAX. TIMESTEP(SEC.) = 18.25 MEAN TIMESTEP(SEC.) = 17.27

MODEL TIME = 9.60 HOURS TOTAL TIMESTEP NUMBER = 3727.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5226	0.54
5227	7.97
5228	0.95
5237	1.16
5238	45.00
5239	2.98
5240	4.46
5241	5.83
5242	0.93
5243	3.13
5244	3.86
5245	3.78
5246	2.39
5247	2.53
5248	2.91
5249	3.92
5250	7.41
5251	3.50
5252	2.55
5253	2.68
5254	1.03
5255	2.71
5256	6.40
5257	4.80
5258	4.09
5259	0.43
5260	1.00
5261	1.83
5262	2.14
5263	1.94
5264	1.75
5265	2.84
5266	5.78

5267	7.10
5268	4.53
5269	17.01
5270	6.35
5271	3.60
5272	4.97
5273	2.64
5274	1.38
5275	1.40
5276	1.36
5277	0.43
5278	0.78
5279	1.96
5280	31.20
5281	374.91

MIN. TIMESTEP(SEC.) = 16.25 MAX. TIMESTEP(SEC.) = 19.25 MEAN TIMESTEP(SEC.) = 18.05

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MODEL TIME = 9.80 HOURS TOTAL TIMESTEP NUMBER = 3785.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	6.19
5237	1.00
5238	42.51
5239	2.86
5240	5.33
5241	9.74
5242	3.19
5243	4.21
5244	3.61
5245	3.55
5246	2.25
5247	2.38
5248	2.74
5249	3.81
5250	7.20
5251	3.28
5252	2.36
5253	2.56
5254	1.02
5255	2.52
5256	6.03
5257	5.01
5258	6.22
5259	2.03
5260	1.08
5262	1.03
5263	1.89
5264	1.74
5265	2.83
5266	5.78
5267	7.11
5268	4.54
5269	16.98
5270	6.31
5271	3.56
5272	5.04
5273	2.69
5274	1.38
5275	1.39
5276	1.31
5279	1.98
5280	30.04
5281	369.92

MIN. TIMESTEP(SEC.) = 17.25 MAX. TIMESTEP(SEC.) = 19.25 MEAN TIMESTEP(SEC.) = 18.25

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MODEL TIME = 10.01 HOURS TOTAL TIMESTEP NUMBER = 3845.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5223	0.87
5224	1.01
5227	6.03
5234	0.41
5235	0.87
5237	0.88
5238	40.21
5239	2.83
5240	5.15
5241	7.69
5242	2.05
5243	2.75
5244	3.39
5245	3.33
5246	2.13
5247	2.25
5248	2.57
5249	3.58
5250	6.72
5251	2.99
5252	2.11

5253	2.34
5254	1.03
5255	2.40
5256	5.64
5257	4.53
5258	5.08
5259	1.14
5261	0.76
5262	2.05
5263	1.07
5264	0.72
5265	2.81
5266	5.71
5267	7.06
5268	4.53
5269	17.38
5270	6.48
5271	3.30
5272	4.96
5273	2.71
5274	1.38
5275	1.39
5276	1.35
5279	1.90
5280	29.73
5281	369.95

MIN. TIMESTEP(SEC.) = 17.25 MAX. TIMESTEP(SEC.) = 19.25 MEAN TIMESTEP(SEC.) = 18.25

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MODEL TIME = 10.20 HOURS TOTAL TIMESTEP NUMBER = 3904.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5225	0.36
5226	1.14
5227	5.72
5235	0.43
5236	0.96
5237	0.78
5238	40.14
5239	3.94
5240	3.96
5241	5.06
5242	0.75
5243	2.51
5244	3.14
5245	3.11
5246	2.00
5247	2.12
5248	2.40
5249	3.31
5250	6.15
5251	2.72
5252	1.87
5253	2.15
5254	1.02
5255	2.23
5256	5.42
5257	3.70
5258	4.60
5259	1.05
5261	0.74
5262	1.99
5263	1.81
5264	1.73
5265	2.72
5266	5.55
5267	6.91
5268	4.46
5269	17.60
5270	6.59
5271	2.95
5272	4.78
5273	2.68
5274	1.38
5275	1.38
5276	1.35
5277	0.42
5278	0.77
5279	1.84
5280	25.34
5281	352.30

MIN. TIMESTEP(SEC.) = 17.25 MAX. TIMESTEP(SEC.) = 19.25 MEAN TIMESTEP(SEC.) = 18.22

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MODEL TIME = 10.40 HOURS TOTAL TIMESTEP NUMBER = 3963.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	5.58
5237	0.69
5238	36.17
5239	2.67

5240	3.99
5241	6.70
5242	1.81
5243	3.61
5244	2.91
5245	2.94
5246	1.92
5247	1.96
5248	2.20
5249	3.01
5250	5.63
5251	2.53
5252	1.78
5253	1.09
5255	2.15
5256	5.05
5257	3.08
5258	3.96
5259	1.08
5261	0.75
5262	1.99
5263	1.78
5264	1.63
5265	2.54
5266	5.32
5267	6.75
5268	4.39
5269	17.44
5270	6.49
5271	2.75
5272	4.51
5273	2.54
5274	1.31
5275	1.36
5276	1.29
5279	1.79
5280	20.98
5281	333.09

MIN. TIMESTEP(SEC.) = 17.25 MAX. TIMESTEP(SEC.) = 19.25 MEAN TIMESTEP(SEC.) = 18.25

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MODEL TIME = 10.60 HOURS TOTAL TIMESTEP NUMBER = 4022.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	5.21
5232	0.64
5233	0.96
5237	0.61
5238	34.25
5239	2.56
5240	3.79
5241	6.26
5242	1.69
5243	3.30
5244	2.66
5245	2.76
5246	1.86
5247	1.87
5248	2.13
5249	2.77
5250	4.99
5251	2.26
5252	1.03
5254	0.80
5255	3.15
5256	4.74
5257	2.38
5258	2.99
5259	1.33
5260	2.05
5261	1.07
5262	0.91
5263	1.03
5264	0.67
5265	2.52
5266	5.10
5267	6.60
5268	4.35
5269	17.05
5270	6.25
5271	2.61
5272	4.09
5273	1.63
5274	0.44
5275	1.33
5276	1.27
5279	1.67
5280	17.01
5281	315.28

MIN. TIMESTEP(SEC.) = 17.25 MAX. TIMESTEP(SEC.) = 19.25 MEAN TIMESTEP(SEC.) = 18.30

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MODEL TIME = 10.80 HOURS TOTAL TIMESTEP NUMBER = 4081.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5225	0.40
5226	1.14
5227	4.99
5237	0.54
5238	32.71
5239	2.34
5240	3.46
5241	4.10
5242	0.57
5243	1.87
5244	2.34
5245	2.54
5246	1.84
5247	1.79
5248	1.08
5249	1.43
5250	4.53
5251	2.15
5252	1.77
5253	1.10
5255	1.91
5256	4.52
5257	2.55
5258	3.23
5259	1.07
5261	0.78
5262	1.92
5263	1.70
5264	0.98
5265	1.28
5266	4.83
5267	6.35
5268	4.24
5269	16.27
5270	5.85
5271	2.50
5272	4.08
5273	2.35
5274	1.29
5275	1.30
5276	1.27
5277	0.43
5278	0.77
5279	1.55
5280	12.89
5281	291.74

MIN. TIMESTEP(SEC.) = 17.25 MAX. TIMESTEP(SEC.) = 19.25 MEAN TIMESTEP(SEC.) = 18.43

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MODEL TIME = 11.00 HOURS TOTAL TIMESTEP NUMBER = 4137.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 213.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	4.83
5232	0.64
5233	0.96
5237	0.49
5238	33.45
5239	3.50
5240	4.02
5241	5.87
5242	1.59
5243	1.59
5244	1.99
5245	2.29
5246	1.81
5247	1.06
5248	0.98
5249	2.37
5250	3.72
5251	1.11
5252	0.70
5253	1.04
5255	1.78
5256	4.26
5257	2.03
5258	1.77
5261	0.75
5262	1.95
5263	0.95
5264	0.63
5265	2.22
5266	4.42
5267	6.04
5268	4.10
5269	14.99
5270	5.21
5271	2.42
5272	3.68
5273	1.44
5274	0.43
5275	1.28
5276	1.23
5279	1.44
5280	9.89
5281	271.80

MIN. TIMESTEP(SEC.) = 17.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 18.70

MODEL TIME = 11.20 HOURS TOTAL TIMESTEP NUMBER = 4195.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 212.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	4.56
5235	0.44
5236	0.95
5237	0.44
5238	30.15
5239	0.97
5240	2.82
5241	5.88
5242	1.65
5243	1.56
5244	1.82
5245	1.10
5247	0.80
5248	2.10
5249	2.37
5250	3.92
5251	1.90
5252	1.69
5253	1.07
5255	1.68
5256	4.08
5257	1.92
5258	1.60
5261	0.77
5262	1.01
5264	0.65
5265	2.12
5266	3.96
5267	5.67
5268	3.91
5269	13.31
5270	4.43
5271	2.31
5272	3.62
5273	2.19
5274	1.33
5275	1.26
5276	2.12
5277	0.85
5279	1.32
5280	7.31
5281	255.32

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.07

MODEL TIME = 11.40 HOURS TOTAL TIMESTEP NUMBER = 4252.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 212.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	4.38
5237	0.40
5238	29.00
5239	2.10
5240	3.88
5241	7.16
5242	2.11
5243	1.63
5244	0.86
5245	1.09
5247	0.75
5248	1.05
5249	1.16
5250	2.28
5252	0.67
5253	1.04
5255	1.63
5256	2.96
5257	0.83
5258	2.13
5259	0.89
5260	1.10
5261	0.74
5262	0.98
5263	0.76
5264	1.58
5265	1.95
5266	3.62
5267	5.31
5268	3.67
5269	12.02
5270	3.95
5271	2.18
5272	3.34
5273	2.03
5274	1.28
5275	1.22
5276	1.12
5277	0.42
5278	0.76
5279	1.19

5260	3.27
5281	238.31

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.07

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MODEL TIME = 11.60 HOURS TOTAL TIMESTEP NUMBER = 4308.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 212.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5224	0.48
5225	0.87
5227	4.09
5234	0.41
5235	0.92
5237	0.36
5238	27.93
5239	0.88
5240	1.74
5241	3.32
5242	0.49
5243	1.51
5244	1.81
5245	2.11
5246	1.03
5249	1.15
5250	3.39
5251	1.07
5252	0.69
5253	1.02
5255	1.55
5256	3.80
5257	1.78
5258	1.36
5263	0.74
5264	0.98
5265	0.83
5266	3.30
5267	4.86
5268	3.38
5269	11.23
5270	3.72
5271	2.05
5272	3.05
5273	1.94
5274	1.31
5275	1.20
5276	1.99
5277	0.85
5279	1.09
5280	2.51
5281	226.02

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.12

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MODEL TIME = 11.80 HOURS TOTAL TIMESTEP NUMBER = 4364.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 212.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5226	0.54
5227	5.26
5228	0.95
5232	0.62
5233	0.95
5235	0.42
5236	0.95
5237	0.34
5238	27.35
5239	2.17
5240	2.94
5241	4.69
5242	1.42
5243	2.65
5244	1.91
5245	2.12
5246	1.04
5248	1.01
5249	2.29
5250	3.72
5251	1.91
5252	1.68
5253	1.05
5254	0.81
5255	2.56
5256	3.78
5257	1.80
5258	1.33
5263	0.72
5264	1.62
5265	1.84
5266	3.02
5267	4.37
5268	3.04
5269	10.37

5270	3.49
5271	1.90
5272	2.44
5273	1.02
5275	0.38
5276	0.97
5277	0.42
5278	0.77
5279	1.00
5280	2.09
5281	215.80

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.09

MODEL TIME = 12.00 HOURS TOTAL TIMESTEP NUMBER = 4421.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 212.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	3.43
5237	0.33
5238	26.63
5239	0.82
5240	1.61
5241	3.18
5242	0.49
5243	1.56
5244	1.82
5245	1.16
5247	0.79
5248	2.08
5249	2.23
5250	3.63
5251	1.85
5252	1.01
5254	0.80
5255	2.52
5256	3.68
5257	2.04
5258	2.43
5259	1.10
5261	0.75
5262	1.89
5263	0.94
5264	0.63
5265	1.82
5266	2.84
5267	3.99
5268	2.75
5269	7.84
5270	2.23
5271	0.84
5272	2.35
5273	0.99
5274	0.41
5275	0.71
5279	0.95
5280	1.64
5281	203.50

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.22

MODEL TIME = 12.20 HOURS TOTAL TIMESTEP NUMBER = 4476.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 212.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	3.06
5235	0.43
5236	0.95
5237	0.31
5238	25.96
5239	0.83
5240	1.63
5241	3.13
5242	0.47
5243	1.55
5244	1.89
5245	1.12
5246	0.72
5247	1.82
5248	2.07
5249	2.15
5250	3.49
5251	1.95
5252	1.03
5255	1.47
5256	3.71
5257	2.10
5258	2.45
5259	1.04
5263	0.75
5264	1.62
5265	1.69
5266	2.70

5267	3.78
5268	2.56
5269	8.69
5270	2.96
5271	1.66
5272	2.21
5273	0.97
5274	0.40
5275	1.06
5276	1.82
5277	1.29
5278	0.76
5279	0.86
5280	1.31
5281	192.69

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.44

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MODEL TIME = 12.40 HOURS TOTAL TIMESTEP NUMBER = 4532.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 212.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	2.66
5234	0.41
5235	0.88
5237	0.29
5238	25.35
5239	1.99
5240	3.63
5241	5.10
5242	1.55
5243	1.51
5244	1.91
5245	2.17
5246	1.77
5247	1.82
5248	1.14
5249	1.07
5250	3.59
5251	1.89
5252	1.00
5253	0.92
5254	1.02
5255	1.42
5256	2.64
5257	0.68
5258	1.21
5262	0.94
5263	1.70
5264	0.96
5265	0.63
5266	2.61
5267	3.61
5268	2.38
5269	8.12
5270	2.79
5271	1.61
5272	1.32
5273	0.81
5274	0.85
5275	0.36
5276	0.86
5279	0.80
5280	1.05
5281	184.18

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.41

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MODEL TIME = 12.60 HOURS TOTAL TIMESTEP NUMBER = 4587.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 212.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	2.30
5235	0.43
5236	0.95
5237	0.27
5238	24.78
5239	2.02
5240	2.90
5241	3.16
5242	0.50
5243	1.51
5244	1.81
5245	1.09
5246	0.70
5247	1.81
5248	1.06
5249	1.08
5250	3.23
5251	1.07
5255	1.44
5256	2.66
5257	0.70

5258	1.21
5261	0.76
5262	0.99
5263	0.73
5264	0.97
5265	0.62
5266	2.48
5267	3.38
5268	2.24
5269	6.10
5270	1.69
5271	0.65
5272	2.15
5273	1.74
5274	0.85
5279	0.72
5280	0.76
5281	174.51

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.44

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MODEL TIME = 12.80 HOURS TOTAL TIMESTEP NUMBER = 4643.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 212.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	1.90
5237	0.26
5238	24.41
5239	0.79
5240	2.43
5241	5.23
5242	1.63
5243	1.56
5244	1.89
5245	1.13
5246	0.75
5247	1.04
5249	1.07
5250	2.50
5251	0.87
5252	1.72
5253	1.92
5254	1.01
5255	1.41
5256	2.60
5257	0.66
5258	1.84
5259	0.88
5260	1.05
5265	0.58
5266	2.44
5267	3.33
5268	2.12
5269	7.10
5270	2.46
5271	1.49
5272	1.15
5273	0.79
5274	0.85
5279	0.67
5280	0.70
5281	162.72

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.41

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MODEL TIME = 13.00 HOURS TOTAL TIMESTEP NUMBER = 4699.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 212.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	1.54
5237	0.25
5238	24.10
5239	0.82
5240	1.64
5241	4.70
5242	1.01
5243	1.60
5244	0.84
5245	1.17
5247	0.79
5248	2.16
5249	2.21
5250	3.15
5251	1.09
5254	0.80
5255	2.47
5256	3.65
5257	2.08
5258	2.41
5259	1.08
5261	0.78
5262	1.84
5263	1.68

5264	1.55
5265	1.53
5266	2.40
5267	3.24
5268	2.02
5269	5.22
5270	1.41
5274	0.40
5275	0.72
5279	0.62
5280	0.65
5281	155.84

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.22

MODEL TIME = 13.20 HOURS TOTAL TIMESTEP NUMBER = 4754.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 212.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	1.27
5235	0.43
5236	0.95
5237	0.25
5238	23.78
5239	0.76
5240	2.37
5241	4.99
5242	1.08
5243	0.49
5244	0.88
5245	1.18
5246	0.73
5247	1.74
5248	1.07
5249	1.08
5250	3.63
5251	1.93
5252	1.75
5253	1.07
5254	0.80
5255	2.44
5256	3.54
5257	1.66
5258	1.16
5265	0.56
5266	2.39
5267	3.23
5268	1.98
5269	6.58
5270	2.31
5271	1.50
5272	1.77
5273	1.00
5275	0.37
5276	0.90
5279	0.61
5280	0.65
5281	150.14

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.63

MODEL TIME = 13.40 HOURS TOTAL TIMESTEP NUMBER = 4809.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 212.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	1.06
5234	0.41
5235	0.87
5237	0.25
5238	25.57
5239	3.31
5240	3.65
5241	6.67
5242	2.52
5243	2.61
5244	1.92
5245	1.08
5248	0.97
5249	2.17
5250	3.57
5251	1.86
5252	1.69
5253	1.07
5254	0.78
5255	2.47
5256	2.58
5257	0.64
5258	1.10
5261	0.78
5262	0.98
5264	0.61
5265	1.56
5266	1.28

5267	1.88
5268	2.00
5269	4.95
5270	1.33
5271	0.56
5272	0.90
5275	0.37
5276	0.88
5279	0.61
5280	0.64
5281	145.68

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.66

MODEL TIME = 13.60 HOURS TOTAL TIMESTEP NUMBER = 4863.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 212.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	0.90
5237	0.24
5238	23.50
5239	0.78
5240	1.54
5241	2.96
5242	0.46
5243	1.52
5244	1.90
5245	1.14
5249	1.09
5250	3.59
5251	1.85
5252	0.99
5255	1.44
5256	3.64
5257	1.72
5258	1.17
5264	0.65
5265	1.53
5266	2.27
5267	3.19
5268	1.96
5269	4.77
5270	1.27
5271	0.58
5272	0.89
5274	0.41
5275	0.69
5279	0.62
5280	0.65
5281	143.34

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.64

MODEL TIME = 13.80 HOURS TOTAL TIMESTEP NUMBER = 4919.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 212.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5234	0.42
5235	0.88
5237	0.23
5238	23.35
5239	0.79
5240	2.42
5241	6.61
5242	2.56
5243	2.61
5244	1.85
5245	2.09
5246	1.02
5248	0.97
5249	2.15
5250	2.44
5251	0.86
5252	1.70
5253	1.98
5254	1.03
5255	1.43
5256	3.62
5257	2.01
5258	2.27
5259	1.45
5260	1.03
5261	1.85
5262	1.87
5263	0.92
5264	0.62
5265	1.53
5266	2.28
5267	3.20
5268	1.97
5269	4.68
5270	1.23
5271	0.57

5272	1.11
5273	0.79
5274	0.84
5279	0.62
5280	0.65
5281	142.08

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.74

MODEL TIME = 14.00 HOURS TOTAL TIMESTEP NUMBER = 4973.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 211.99

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	0.86
5237	0.24
5238	23.27
5239	0.77
5240	2.37
5241	6.54
5242	2.49
5243	2.66
5244	1.92
5245	2.22
5246	1.78
5247	1.00
5248	0.97
5249	2.17
5250	3.12
5251	1.02
5252	0.70
5253	2.05
5254	1.04
5255	1.43
5256	3.58
5257	1.66
5258	1.79
5259	0.88
5260	1.05
5262	0.89
5263	0.94
5265	0.50
5266	2.21
5267	3.12
5268	1.95
5269	6.01
5270	2.09
5271	0.90
5272	0.87
5273	0.97
5274	0.41
5275	1.04
5276	0.87
5279	0.62
5280	0.65
5281	140.05

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.75

MODEL TIME = 14.20 HOURS TOTAL TIMESTEP NUMBER = 5028.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 211.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.24
5238	25.24
5239	3.28
5240	3.64
5241	6.66
5242	2.08
5243	1.17
5245	1.07
5246	1.81
5247	1.77
5248	1.06
5249	1.06
5250	3.59
5251	1.87
5252	0.98
5255	1.44
5256	2.63
5257	1.01
5258	2.91
5259	1.96
5260	1.13
5263	0.74
5264	1.64
5265	1.46
5266	2.23
5267	3.14
5268	1.90
5269	4.48
5270	1.17
5271	0.56
5272	1.78

5273	0.97
5275	0.35
5276	1.81
5277	0.86
5279	0.61
5280	0.64
5281	139.35

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.76

MODEL TIME = 14.40 HOURS TOTAL TIMESTEP NUMBER = 5082.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 211.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5235	0.43
5236	0.95
5237	0.24
5238	23.39
5239	1.97
5240	2.75
5241	4.54
5242	0.98
5243	1.17
5246	0.73
5247	1.75
5248	2.03
5249	2.09
5250	3.09
5251	1.03
5252	0.69
5253	1.08
5255	1.39
5256	3.54
5257	1.64
5258	1.17
5259	0.40
5260	1.00
5261	1.08
5265	0.49
5266	2.26
5267	3.21
5268	1.93
5269	5.84
5270	2.03
5271	0.89
5275	0.36
5276	0.91
5277	0.42
5278	0.78
5281	137.63

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.69

MODEL TIME = 14.60 HOURS TOTAL TIMESTEP NUMBER = 5138.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 211.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	23.24
5239	0.78
5240	1.55
5241	3.01
5242	0.49
5243	1.58
5244	1.89
5245	2.17
5246	1.71
5247	1.72
5248	2.10
5249	2.10
5250	3.44
5251	1.90
5252	1.79
5253	1.06
5255	1.40
5256	2.62
5257	1.00
5258	2.29
5259	1.02
5261	0.78
5262	1.03
5265	0.50
5266	1.22
5267	1.82
5268	1.91
5269	4.39
5270	1.13
5271	0.55
5272	0.96
5274	0.42
5275	1.07
5276	0.87
5279	0.61

5280	0.64
5281	135.64

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.47

MODEL TIME = 14.80 HOURS TOTAL TIMESTEP NUMBER = 5193.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 211.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	23.21
5239	2.06
5240	2.82
5241	4.45
5242	0.97
5243	1.14
5245	1.01
5246	1.74
5247	1.80
5248	2.05
5249	2.10
5250	3.61
5251	1.93
5252	1.69
5253	1.11
5255	1.40
5256	3.58
5257	1.69
5258	1.14
5261	0.74
5262	1.87
5263	0.95
5265	0.50
5266	2.25
5267	3.18
5268	1.90
5269	5.75
5270	1.99
5271	1.41
5272	1.10
5273	0.79
5274	1.27
5275	1.04
5276	0.90
5281	135.42

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.49

MODEL TIME = 15.00 HOURS TOTAL TIMESTEP NUMBER = 5249.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 211.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5234	0.41
5235	0.87
5237	0.23
5238	23.12
5239	0.79
5240	2.41
5241	5.15
5242	1.60
5243	1.56
5244	1.88
5245	2.18
5246	1.03
5247	0.75
5248	1.06
5249	1.06
5250	3.17
5251	1.05
5252	0.70
5253	1.93
5254	1.01
5255	1.38
5256	2.60
5257	1.01
5258	2.39
5259	1.47
5260	1.00
5261	1.06
5265	0.48
5266	2.24
5267	3.17
5268	1.90
5269	4.36
5270	1.12
5271	0.56
5272	1.88
5273	1.00
5274	0.40
5275	1.03
5276	0.87
5279	0.63
5280	0.65

5281	135.73

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.47

MODEL TIME = 15.20 HOURS TOTAL TIMESTEP NUMBER = 5306.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 211.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5232	0.63
5233	0.95
5235	0.42
5236	0.95
5237	0.23
5238	24.99
5239	3.28
5240	2.77
5241	4.57
5242	0.99
5243	1.62
5244	0.85
5245	2.08
5246	1.03
5247	0.80
5248	2.12
5249	2.21
5250	3.06
5251	1.04
5254	0.80
5255	2.46
5256	3.57
5257	1.66
5258	1.79
5259	0.86
5260	1.06
5261	0.78
5262	0.98
5263	0.72
5264	0.99
5265	0.47
5266	2.14
5267	3.08
5268	1.91
5269	4.33
5270	1.11
5271	0.56
5272	1.83
5273	0.96
5274	0.40
5275	0.69
5279	0.61
5280	0.64
5281	134.48

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.28

MODEL TIME = 15.40 HOURS TOTAL TIMESTEP NUMBER = 5360.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 211.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	23.01
5239	0.82
5240	2.50
5241	5.10
5242	1.57
5243	1.54
5244	1.88
5245	2.12
5246	1.08
5247	0.76
5248	2.00
5249	2.13
5250	3.53
5251	1.94
5252	1.74
5253	1.02
5255	1.38
5256	3.55
5257	1.98
5258	2.30
5259	1.04
5263	0.73
5264	0.95
5265	0.49
5266	2.22
5267	3.15
5268	1.91
5269	4.41
5270	1.14
5271	0.59
5272	2.05
5273	1.74
5274	0.86

5275	0.37
5276	0.87
5279	0.62
5280	0.65
5281	134.81

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.58

MODEL TIME = 15.60 HOURS TOTAL TIMESTEP NUMBER = 5415.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 211.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	23.05
5239	2.02
5240	3.68
5241	5.09
5242	1.55
5243	1.47
5244	1.80
5245	1.08
5247	0.80
5248	2.02
5249	2.14
5250	3.22
5251	1.09
5252	0.71
5253	1.92
5254	0.99
5255	1.41
5256	2.58
5257	0.66
5258	1.84
5259	0.89
5260	1.05
5261	0.75
5262	1.91
5263	1.66
5264	0.94
5265	0.46
5266	2.15
5267	3.10
5268	1.92
5269	4.34
5270	1.11
5271	0.57
5272	0.95
5274	0.40
5275	1.12
5276	0.89
5279	0.65
5280	0.65
5281	134.69

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.76

MODEL TIME = 15.80 HOURS TOTAL TIMESTEP NUMBER = 5469.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 211.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5235	0.43
5236	0.95
5237	0.23
5238	24.92
5239	2.07
5240	1.51
5241	2.95
5242	0.47
5243	1.55
5244	1.89
5245	1.11
5247	0.77
5248	1.96
5249	2.09
5250	3.49
5251	1.86
5252	0.98
5253	0.91
5254	1.01
5255	1.39
5256	3.55
5257	1.96
5258	2.26
5259	1.05
5262	0.85
5263	0.92
5264	0.65
5265	1.47
5266	2.22
5267	3.22
5268	1.93
5269	4.34
5270	1.11

5271	0.56
5272	1.84
5273	1.02
5274	0.40
5275	1.11
5276	0.90
5281	134.55

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.75

MODEL TIME = 16.00 HOURS TOTAL TIMESTEP NUMBER = 5525.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 211.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	23.06
5239	0.77
5240	1.53
5241	2.92
5243	0.48
5244	0.86
5245	1.18
5247	0.78
5248	2.04
5249	2.18
5250	2.45
5251	0.86
5252	1.66
5253	1.92
5254	1.01
5255	1.42
5256	2.62
5257	0.66
5258	1.17
5259	0.40
5260	1.00
5261	1.07
5263	0.73
5264	0.94
5265	0.47
5266	1.15
5267	1.77
5268	1.87
5269	5.70
5270	1.98
5271	1.45
5272	2.07
5273	1.82
5274	1.29
5275	0.70
5279	0.61
5280	0.64
5281	135.03

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.74

MODEL TIME = 16.20 HOURS TOTAL TIMESTEP NUMBER = 5579.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 211.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	23.09
5239	1.98
5240	2.79
5241	3.06
5242	0.50
5243	1.57
5244	1.84
5245	1.11
5247	0.78
5248	2.10
5249	2.20
5250	3.25
5251	1.09
5252	0.69
5253	1.02
5255	1.42
5256	3.60
5257	1.68
5258	1.15
5262	0.90
5263	1.68
5264	0.95
5265	0.47
5266	2.19
5267	3.09
5268	1.88
5269	5.78
5270	2.02
5271	1.45
5272	0.96
5279	0.61
5280	0.64

5281	134.85

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.75

MODEL TIME = 16.40 HOURS TOTAL TIMESTEP NUMBER = 5634.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 211.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	23.08
5239	0.82
5240	1.61
5241	3.08
5242	0.49
5243	1.55
5244	1.84
5245	1.12
5247	0.78
5248	2.06
5249	2.09
5250	3.44
5251	1.93
5252	1.02
5255	1.42
5256	2.62
5257	0.69
5258	1.23
5259	0.41
5260	1.00
5261	1.06
5262	0.87
5263	1.66
5264	0.98
5265	0.46
5266	2.21
5267	3.22
5268	1.93
5269	4.37
5270	1.13
5271	0.59
5272	0.96
5275	0.37
5276	0.87
5281	133.76

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.60

MODEL TIME = 16.60 HOURS TOTAL TIMESTEP NUMBER = 5688.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 211.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.22
5238	22.93
5239	0.78
5240	1.55
5241	4.60
5242	1.48
5243	2.06
5244	0.99
5247	0.78
5248	2.12
5249	2.18
5250	2.06
5255	1.41
5256	3.60
5257	1.71
5258	1.86
5259	1.34
5260	2.07
5261	1.06
5262	0.86
5263	0.92
5265	0.49
5266	2.21
5267	3.17
5268	1.92
5269	5.71
5270	1.97
5271	1.43
5272	2.08
5273	1.80
5274	1.30
5275	1.06
5276	0.87
5279	0.61
5280	0.64
5281	133.35

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.75

MODEL TIME = 16.80 HOURS TOTAL TIMESTEP NUMBER = 5744.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 211.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	23.01
5239	2.07
5240	3.74
5241	6.54
5242	2.05
5243	1.64
5244	0.89
5245	2.25
5246	1.04
5247	0.80
5248	2.12
5249	2.18
5250	3.16
5251	1.09
5254	0.78
5255	2.43
5256	2.53
5257	0.92
5258	2.20
5259	1.06
5263	0.74
5264	0.96
5265	0.49
5266	1.18
5267	1.82
5268	1.91
5269	4.39
5270	1.13
5271	0.58
5272	1.91
5273	1.00
5274	0.41
5275	1.11
5276	1.81
5277	1.29
5278	0.77
5281	132.71

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 21.25 MEAN TIMESTEP(SEC.) = 19.79

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MODEL TIME = 17.00 HOURS TOTAL TIMESTEP NUMBER = 5798.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 210.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	23.06
5239	2.15
5240	3.76
5241	5.15
5242	1.62
5243	1.58
5244	1.87
5245	2.26
5246	1.73
5247	1.72
5248	2.00
5249	2.11
5250	3.13
5251	1.01
5255	1.43
5256	3.57
5257	1.94
5258	2.25
5259	0.99
5262	0.87
5263	0.94
5265	0.49
5266	2.23
5267	3.23
5268	1.93
5269	5.73
5270	1.99
5271	1.45
5272	1.12
5273	0.79
5274	1.27
5275	1.04
5276	0.87
5281	132.40

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.75

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MODEL TIME = 17.20 HOURS TOTAL TIMESTEP NUMBER = 5853.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 210.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	24.88
5239	2.02
5240	1.48
5241	2.91
5243	0.48
5244	0.88
5245	2.09
5246	1.81
5247	1.05
5249	1.05
5250	3.54
5251	1.87
5252	1.01
5255	1.40
5256	2.60
5257	0.67
5258	1.82
5259	1.29
5260	2.07
5261	1.80
5262	1.81
5263	0.93
5264	0.62
5265	1.44
5266	2.15
5267	3.15
5268	1.93
5269	4.38
5270	1.13
5271	0.58
5272	1.82
5273	1.00
5274	0.41
5275	1.09
5276	0.88
5281	134.53

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.76

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MODEL TIME = 17.40 HOURS TOTAL TIMESTEP NUMBER = 5907.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 210.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5194	0.14
5195	0.92
5196	0.60
5198	0.84
5199	1.96
5200	2.29
5201	1.48
5202	1.21
5203	3.64
5204	2.58
5205	1.77
5206	1.54
5207	3.06
5208	1.95
5209	1.89
5210	2.37
5211	2.17
5212	1.22
5237	0.23
5238	24.89
5239	2.02
5240	1.47
5241	2.92
5242	0.47
5243	1.49
5244	1.80
5245	2.17
5246	1.72
5247	1.72
5248	1.02
5249	1.03
5250	3.06
5251	1.09
5253	0.92
5254	1.02
5255	1.41
5256	2.60
5257	0.65
5258	1.14
5261	0.74
5262	0.99
5264	0.63
5265	1.45
5266	2.17
5267	3.05
5268	1.83
5269	4.37
5270	1.13
5271	0.58
5272	1.78
5273	0.96
5281	134.68

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.75

MODEL TIME = 17.60 HOURS TOTAL TIMESTEP NUMBER = 5963.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 210.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5223	0.86
5224	1.00
5227	0.84
5235	0.43
5236	0.95
5237	0.23
5238	22.98
5239	0.83
5240	1.64
5241	4.80
5242	1.56
5243	2.76
5244	1.89
5245	2.25
5246	1.03
5249	1.08
5250	3.58
5251	1.87
5252	1.81
5253	1.91
5254	1.04
5255	1.39
5256	3.51
5257	1.91
5258	2.21
5259	0.99
5261	0.75
5262	1.83
5263	0.97
5265	0.47
5266	2.22
5267	3.20
5268	1.91
5269	4.34
5270	1.11
5271	0.55
5272	0.89
5274	0.39
5275	1.12
5276	0.93
5277	0.42
5278	0.76
5279	0.61
5280	0.64
5281	133.22

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.74

MODEL TIME = 17.80 HOURS TOTAL TIMESTEP NUMBER = 6017.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 210.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	0.88
5237	0.23
5238	23.00
5239	0.76
5240	1.49
5241	2.95
5242	0.47
5243	1.03
5244	0.99
5246	0.72
5247	1.72
5248	2.09
5249	2.09
5250	3.53
5251	1.90
5252	1.00
5254	0.80
5255	2.44
5256	3.54
5257	1.66
5258	1.79
5259	0.88
5260	1.05
5263	0.74
5264	0.94
5265	0.48
5266	1.16
5267	1.79
5268	1.91
5269	4.36
5270	1.12
5271	0.57
5272	0.91
5275	0.37
5276	0.87
5279	0.61

5280	0.64
5281	132.66

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 21.25 MEAN TIMESTEP(SEC.) = 19.86

MODEL TIME = 18.00 HOURS TOTAL TIMESTEP NUMBER = 6071.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 210.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	0.88
5237	0.23
5238	23.08
5239	0.78
5240	1.54
5241	2.99
5242	0.48
5243	1.56
5244	1.88
5245	2.27
5246	1.04
5248	0.96
5249	2.13
5250	2.04
5252	0.72
5253	1.08
5255	1.42
5256	3.59
5257	1.69
5258	1.16
5264	0.65
5265	1.52
5266	2.17
5267	1.97
5268	0.88
5269	5.73
5270	1.98
5271	1.44
5272	1.97
5273	1.74
5274	0.86
5281	132.04

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.75

MODEL TIME = 18.20 HOURS TOTAL TIMESTEP NUMBER = 6126.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 210.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5235	0.43
5236	0.95
5237	0.23
5238	23.12
5239	2.03
5240	2.88
5241	4.71
5242	1.54
5243	2.74
5244	1.91
5245	2.09
5246	1.76
5247	1.73
5248	2.05
5249	2.13
5250	2.41
5251	0.86
5252	1.69
5253	1.99
5254	1.04
5255	1.41
5256	2.60
5257	0.99
5258	2.28
5259	1.00
5261	0.76
5262	1.91
5263	0.95
5264	0.66
5265	1.45
5266	2.20
5267	3.14
5268	1.90
5269	5.68
5270	1.96
5271	0.90
5274	0.42
5275	1.09
5276	0.89
5279	0.61
5280	0.64
5281	133.19

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.55

MODEL TIME = 18.40 HOURS TOTAL TIMESTEP NUMBER = 6182.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 210.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5229	0.89
5230	1.58
5231	1.01
5237	0.23
5238	24.97
5239	2.10
5240	1.52
5241	2.90
5242	0.46
5243	1.49
5244	1.93
5245	2.11
5246	1.05
5247	0.79
5248	2.09
5249	2.18
5250	3.60
5251	1.98
5252	1.72
5253	1.91
5254	1.04
5255	1.40
5256	3.57
5257	2.02
5258	2.32
5259	1.04
5261	0.76
5262	1.04
5265	0.47
5266	2.14
5267	1.94
5268	0.88
5269	4.40
5270	1.13
5271	0.58
5272	0.86
5274	0.40
5275	1.06
5276	0.87
5279	0.61
5280	0.64
5281	133.70

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.74

MODEL TIME = 18.60 HOURS TOTAL TIMESTEP NUMBER = 6236.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 210.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5232	0.64
5233	0.95
5237	0.23
5238	23.08
5239	0.80
5240	1.55
5241	2.95
5242	0.47
5243	1.54
5244	1.90
5245	2.09
5246	1.02
5248	1.01
5249	2.19
5250	3.60
5251	1.87
5252	1.67
5253	1.10
5254	0.78
5255	2.44
5256	3.59
5257	2.02
5258	2.25
5259	1.04
5261	0.74
5262	1.82
5263	0.92
5265	0.48
5266	2.17
5267	3.02
5268	1.82
5269	5.69
5270	1.97
5271	0.88
5272	0.88
5273	0.98
5278	0.47
5279	1.49
5280	0.64
5281	133.28

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.75

MODEL TIME = 18.81 HOURS TOTAL TIMESTEP NUMBER = 6291.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 210.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5235	0.42
5236	0.94
5237	0.23
5238	23.16
5239	0.81
5240	1.60
5241	3.09
5242	0.49
5243	1.03
5244	1.00
5246	0.73
5247	1.74
5248	1.99
5249	2.17
5250	3.56
5251	1.92
5252	1.65
5253	1.93
5254	1.00
5255	1.40
5256	2.60
5257	1.00
5258	2.90
5259	1.97
5260	1.05
5261	0.74
5262	0.96
5265	0.48
5266	2.22
5267	3.18
5268	1.91
5269	4.35
5270	1.12
5271	0.58
5272	1.93
5273	1.78
5274	0.85
5275	0.35
5276	0.87
5279	0.61
5280	0.64
5281	132.42

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.76

MODEL TIME = 19.00 HOURS TOTAL TIMESTEP NUMBER = 6347.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 210.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	24.97
5239	2.04
5240	2.34
5241	6.58
5242	2.53
5243	2.19
5244	1.06
5245	1.03
5246	1.74
5247	1.80
5248	2.02
5249	2.12
5250	3.20
5251	1.07
5252	0.70
5253	1.93
5254	1.79
5255	2.43
5256	2.55
5257	0.65
5258	1.82
5259	0.88
5260	1.05
5261	0.75
5262	1.00
5265	0.46
5266	2.16
5267	3.13
5268	1.90
5269	4.33
5270	1.11
5271	0.57
5272	0.93
5281	133.26

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.25

MODEL TIME = 19.20 HOURS TOTAL TIMESTEP NUMBER = 6402.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 210.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	23.01
5239	1.96
5240	2.73
5241	2.96
5242	0.49
5243	1.58
5244	1.89
5245	1.10
5247	0.79
5248	1.98
5249	2.11
5250	2.03
5252	0.73
5253	2.04
5254	1.83
5255	2.43
5256	3.52
5257	1.62
5258	1.14
5262	0.86
5263	0.94
5264	0.65
5265	1.51
5266	1.14
5267	1.79
5268	1.91
5269	5.78
5270	2.01
5271	1.47
5272	1.85
5273	1.00
5274	0.40
5275	0.71
5279	0.61
5280	0.64
5281	133.81

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.33

MODEL TIME = 19.40 HOURS TOTAL TIMESTEP NUMBER = 6458.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 210.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5234	0.41
5235	0.87
5237	0.22
5238	22.80
5239	1.98
5240	2.82
5241	3.02
5242	0.49
5243	1.52
5244	1.87
5245	2.20
5246	1.79
5247	1.77
5248	2.11
5249	2.16
5250	3.09
5251	1.03
5252	0.67
5253	1.07
5255	1.38
5256	3.58
5257	1.70
5258	1.82
5259	0.88
5260	1.06
5262	0.87
5263	0.93
5265	0.49
5266	2.19
5267	3.14
5268	1.92
5269	5.74
5270	1.98
5271	1.46
5272	1.85
5273	0.99
5274	0.40
5275	0.69
5281	132.22

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.47

MODEL TIME = 19.60 HOURS TOTAL TIMESTEP NUMBER = 6513.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 210.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5235	0.43
5236	0.95
5237	0.22
5238	22.81
5239	0.76
5240	2.35
5241	6.55
5242	2.49
5243	2.16
5244	1.05
5246	0.73
5247	1.82
5248	2.10
5249	2.21
5250	2.47
5251	0.88
5252	1.74
5253	1.99
5254	1.01
5255	1.40
5256	3.57
5257	1.65
5258	1.08
5262	0.90
5263	1.72
5264	0.97
5265	0.47
5266	2.14
5267	3.08
5268	1.91
5269	5.67
5270	1.95
5271	0.88
5272	0.90
5273	1.00
5274	0.40
5275	1.07
5276	0.88
5279	0.61
5280	0.64
5281	132.47

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 21.25 MEAN TIMESTEP(SEC.) = 19.60

MODEL TIME = 19.80 HOURS TOTAL TIMESTEP NUMBER = 6567.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 210.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	22.85
5239	1.96
5240	2.79
5241	3.04
5242	0.50
5243	1.57
5244	1.91
5245	2.23
5246	1.77
5247	0.97
5249	1.08
5250	3.18
5251	1.03
5252	0.70
5253	1.04
5255	1.40
5256	3.61
5257	1.71
5258	1.83
5259	0.88
5260	1.05
5262	0.87
5263	0.94
5265	0.49
5266	2.23
5267	3.18
5268	1.91
5269	5.74
5270	1.99
5271	1.44
5272	1.76
5273	1.02
5275	0.35
5276	0.87
5281	132.14

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.75

MODEL TIME = 20.00 HOURS TOTAL TIMESTEP NUMBER = 6623.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 209.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	22.93
5239	2.01
5240	2.81
5241	3.04
5242	0.48
5243	1.54
5244	1.90
5245	2.23
5246	1.74
5247	0.97
5249	1.06
5250	3.54
5251	1.95
5252	1.69
5253	1.04
5255	1.39
5256	3.63
5257	2.06
5258	2.94
5259	2.42
5260	2.05
5261	1.06
5264	0.63
5265	1.46
5266	2.17
5267	3.15
5268	1.91
5269	5.67
5270	1.96
5271	0.88
5272	0.88
5273	0.96
5279	0.61
5280	0.64
5281	133.38

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.74

MODEL TIME = 20.20 HOURS TOTAL TIMESTEP NUMBER = 6677.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 209.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5234	0.42
5235	0.88
5237	0.23
5238	23.02
5239	0.81
5240	2.49
5241	5.21
5242	1.63
5243	1.57
5244	1.83
5245	2.26
5246	1.79
5247	1.72
5248	2.00
5249	2.14
5250	3.58
5251	1.90
5252	1.70
5253	1.98
5254	1.02
5255	1.37
5256	3.51
5257	1.65
5258	1.16
5265	0.49
5266	2.18
5267	3.14
5268	1.90
5269	5.70
5270	1.97
5271	1.45
5272	1.82
5273	0.97
5274	0.42
5275	1.06
5276	1.82
5277	0.87
5279	0.61
5280	0.64
5281	133.27

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.75

MODEL TIME = 20.41 HOURS TOTAL TIMESTEP NUMBER = 6732.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 209.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	22.95
5239	0.80
5240	1.57
5241	2.93
5242	0.46
5243	1.50
5244	1.84
5245	2.11
5246	1.72
5247	1.73
5248	1.99
5249	2.06
5250	2.41
5251	0.88
5252	1.04
5255	1.41
5256	2.59
5257	0.66
5258	1.15
5263	0.75
5264	0.96
5265	0.49
5266	1.18
5267	1.83
5268	1.92
5269	4.35
5270	1.12
5271	0.58
5272	0.95
5279	0.61
5280	0.64
5281	130.78

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 21.25 MEAN TIMESTEP(SEC.) = 19.87

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MODEL TIME = 20.60 HOURS TOTAL TIMESTEP NUMBER = 6786.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 209.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5235	0.45
5236	0.95
5237	0.23
5238	22.94
5239	2.10
5240	2.85
5241	2.92
5243	0.50
5244	0.89
5245	2.19
5246	1.73
5247	1.71
5248	2.02
5249	2.07
5250	2.03
5252	0.71
5253	2.02
5254	1.03
5255	1.41
5256	3.55
5257	1.64
5258	1.11
5263	0.73
5264	0.94
5265	0.48
5266	2.20
5267	3.18
5268	1.90
5269	5.71
5270	1.98
5271	1.45
5272	1.81
5273	0.98
5275	0.35
5276	0.89
5279	0.61
5280	0.64
5281	130.53

MIN. TIMESTEP(SEC.) = 19.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.75

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MODEL TIME = 20.80 HOURS TOTAL TIMESTEP NUMBER = 6842.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 209.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)

5233	0.78
5234	0.92
5237	0.23
5238	22.95
5239	1.95
5240	2.72
5241	2.94
5243	0.49
5244	0.86
5245	1.18
5247	0.77
5248	1.04
5249	1.01
5250	3.09
5251	1.01
5255	1.40
5256	2.57
5257	0.66
5258	1.79
5259	0.87
5260	1.05
5262	0.90
5263	0.95
5264	0.65
5265	1.45
5266	1.14
5267	0.61
5268	0.88
5269	4.35
5270	1.12
5271	0.58
5272	1.83
5273	0.95
5275	0.37
5276	0.92
5279	0.61
5280	0.64
5281	131.22

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.47

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MODEL TIME = 21.00 HOURS TOTAL TIMESTEP NUMBER = 6897.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 209.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.22
5238	22.78
5239	0.77
5240	1.54
5241	4.61
5242	1.03
5243	1.63
5244	0.86
5245	1.10
5247	0.79
5248	2.14
5249	2.16
5250	3.55
5251	1.90
5252	1.68
5253	1.05
5255	1.38
5256	3.52
5257	1.63
5258	1.10
5263	0.74
5264	0.95
5265	0.47
5266	2.21
5267	3.20
5268	1.91
5269	4.35
5270	1.12
5271	0.57
5272	0.90
5279	0.62
5280	0.64
5281	132.40

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.39

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MODEL TIME = 21.20 HOURS TOTAL TIMESTEP NUMBER = 6953.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 209.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5235	0.43
5236	0.95
5237	0.22
5238	22.88
5239	1.96
5240	2.76
5241	3.00
5242	0.49

5243	1.61
5244	1.94
5245	1.14
5247	0.75
5248	2.03
5249	2.12
5250	3.13
5251	1.05
5252	0.71
5253	1.08
5254	0.78
5255	2.42
5256	2.57
5257	0.67
5258	1.19
5261	0.76
5262	1.92
5263	1.67
5264	1.56
5265	1.47
5266	1.15
5267	1.82
5268	1.92
5269	5.83
5270	2.03
5271	1.44
5272	0.90
5275	0.37
5276	0.93
5277	0.42
5278	0.76
5279	0.61
5280	0.64
5281	131.21

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.41

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MODEL TIME = 21.40 HOURS TOTAL TIMESTEP NUMBER = 7008.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 209.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.22
5238	22.82
5239	0.78
5240	1.57
5241	4.66
5242	1.55
5243	2.17
5244	1.03
5248	0.95
5249	2.08
5250	3.18
5251	1.08
5252	0.71
5253	1.98
5254	0.99
5255	1.40
5256	2.55
5257	0.63
5258	1.10
5262	0.90
5263	1.66
5264	0.96
5265	0.46
5266	1.16
5267	1.82
5268	1.92
5269	4.32
5270	1.10
5271	0.55
5272	0.90
5274	0.41
5275	0.70
5281	132.08

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.39

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MODEL TIME = 21.60 HOURS TOTAL TIMESTEP NUMBER = 7064.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 209.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.22
5238	22.67
5239	0.76
5240	1.53
5241	2.99
5242	0.49
5243	1.51
5244	1.81
5245	2.09
5246	1.05
5247	0.76
5248	2.11

5249	2.12
5250	3.55
5251	1.88
5252	1.01
5253	0.94
5254	1.01
5255	1.38
5256	2.53
5257	0.94
5258	2.25
5259	1.05
5262	0.90
5263	0.98
5265	0.49
5266	2.23
5267	3.18
5268	1.90
5269	4.26
5270	1.09
5271	0.55
5272	1.71
5273	0.95
5274	0.41
5275	1.07
5276	0.93
5277	0.43
5278	0.77
5281	132.55

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.47

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MODEL TIME = 21.80 HOURS TOTAL TIMESTEP NUMBER = 7119.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 209.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.22
5238	22.64
5239	0.77
5240	2.39
5241	5.07
5242	1.59
5243	1.55
5244	1.93
5245	2.10
5246	1.05
5249	1.01
5250	2.01
5252	0.70
5253	1.05
5255	1.37
5256	3.50
5257	1.64
5258	1.17
5262	0.90
5263	1.65
5264	0.93
5265	0.48
5266	2.17
5267	3.12
5268	1.89
5269	5.70
5270	1.98
5271	1.44
5272	1.76
5273	0.95
5281	131.07

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.49

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MODEL TIME = 22.00 HOURS TOTAL TIMESTEP NUMBER = 7175.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 209.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5227	0.87
5237	0.22
5238	24.66
5239	3.25
5240	2.71
5241	4.38
5242	1.49
5243	2.08
5244	1.01
5245	1.05
5246	1.71
5247	1.72
5248	1.99
5249	2.14
5250	3.15
5251	1.10
5252	0.70
5253	1.09
5254	0.78
5255	2.41

5256	2.56
5257	1.00
5258	2.92
5259	1.95
5260	1.05
5261	0.75
5262	1.89
5263	1.67
5264	0.97
5265	0.45
5266	2.17
5267	3.13
5268	1.89
5269	5.63
5270	1.95
5271	0.88
5274	0.40
5275	1.11
5276	0.88
5281	131.35

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.57

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MODEL TIME = 22.20 HOURS TOTAL TIMESTEP NUMBER = 7231.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 209.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	22.93
5239	2.08
5240	3.64
5241	6.43
5242	2.04
5243	1.07
5245	1.02
5246	1.74
5247	1.03
5248	0.99
5249	2.14
5250	3.56
5251	1.93
5252	1.75
5253	1.07
5254	0.78
5255	2.41
5256	3.52
5257	1.67
5258	1.79
5259	0.90
5260	1.06
5262	0.88
5263	1.72
5264	0.95
5265	0.47
5266	2.19
5267	3.14
5268	1.91
5269	4.35
5270	1.12
5271	0.58
5272	2.03
5273	1.73
5274	1.24
5275	1.06
5276	0.87
5281	132.30

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.33

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MODEL TIME = 22.40 HOURS TOTAL TIMESTEP NUMBER = 7286.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 209.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.23
5238	23.01
5239	2.06
5240	3.58
5241	5.11
5242	1.62
5243	1.58
5244	1.93
5245	2.20
5246	1.75
5247	1.87
5248	1.04
5249	1.03
5250	3.07
5251	1.01
5255	1.38
5256	2.57
5257	1.00
5258	2.30
5259	1.02

5263	0.75
5264	0.94
5265	0.49
5266	2.17
5267	3.05
5268	1.84
5269	4.36
5270	1.12
5271	0.58
5272	1.11
5273	0.78
5274	0.86
5281	130.93

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.47

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MODEL TIME = 22.60 HOURS TOTAL TIMESTEP NUMBER = 7341.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 209.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5235	0.43
5236	0.95
5237	0.22
5238	22.98
5239	2.08
5240	2.83
5241	4.59
5242	1.49
5243	2.65
5244	1.92
5245	2.17
5246	1.71
5247	1.83
5248	2.04
5249	2.20
5250	3.52
5251	1.85
5252	1.67
5253	1.91
5254	1.00
5255	1.36
5256	3.51
5257	1.62
5258	1.09
5265	0.48
5266	2.13
5267	3.09
5268	1.91
5269	4.33
5270	1.11
5271	0.58
5272	2.06
5273	1.75
5274	1.24
5275	1.06
5276	0.88
5281	131.52

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.33

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MODEL TIME = 22.80 HOURS TOTAL TIMESTEP NUMBER = 7398.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 208.31

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.22
5238	24.63
5239	3.26
5240	2.80
5241	4.58
5242	1.49
5243	2.59
5244	1.84
5245	1.08
5248	0.96
5249	2.10
5250	2.01
5252	0.72
5253	1.95
5254	1.06
5255	1.36
5256	3.53
5257	1.67
5258	1.75
5259	0.87
5260	1.06
5265	0.46
5266	2.17
5267	3.04
5268	1.82
5269	5.64
5270	1.95
5271	1.43
5272	0.97

5274	0.42
5275	1.08
5276	0.92
5279	0.61
5280	0.64
5281	131.10

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.38

MODEL TIME = 23.00 HOURS TOTAL TIMESTEP NUMBER = 7454.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 208.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.22
5238	22.80
5239	2.06
5240	2.81
5241	2.97
5242	0.49
5243	1.57
5244	1.84
5245	2.24
5246	1.03
5247	0.77
5248	1.98
5249	2.04
5250	1.98
5252	0.71
5253	1.11
5254	0.82
5255	2.42
5256	3.56
5257	1.72
5258	1.17
5261	0.75
5262	1.00
5265	0.46
5266	1.14
5267	1.78
5268	1.88
5269	5.64
5270	1.95
5271	1.44
5272	1.80
5273	0.96
5274	0.40
5275	0.70
5279	0.62
5280	0.65
5281	131.56

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.47

MODEL TIME = 23.20 HOURS TOTAL TIMESTEP NUMBER = 7510.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 208.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.22
5238	22.76
5239	2.02
5240	2.68
5241	4.37
5242	1.41
5243	2.59
5244	1.86
5245	1.16
5248	0.96
5249	2.11
5250	3.58
5251	1.91
5252	1.71
5253	1.04
5255	1.38
5256	3.54
5257	1.67
5258	1.11
5261	0.73
5262	1.03
5265	0.49
5266	2.18
5267	3.05
5268	1.84
5269	5.70
5270	1.98
5271	1.44
5272	1.80
5273	1.00
5275	0.37
5276	0.88
5279	0.61
5280	0.64
5281	132.10

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.44

MODEL TIME = 23.40 HOURS TOTAL TIMESTEP NUMBER = 7563.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 208.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.22
5238	22.84
5239	2.01
5240	2.66
5241	2.81
5242	0.46
5243	1.51
5244	1.85
5245	1.13
5246	0.72
5247	1.73
5248	2.01
5249	2.13
5250	3.06
5251	1.04
5254	0.79
5255	2.44
5256	3.57
5257	1.70
5258	1.77
5259	0.88
5260	1.06
5261	0.73
5262	0.99
5263	0.76
5264	0.95
5265	0.48
5266	2.20
5267	3.13
5268	1.86
5269	4.24
5270	1.08
5271	0.56
5272	1.98
5273	1.75
5274	1.28
5275	0.71
5281	131.05

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.58

MODEL TIME = 23.60 HOURS TOTAL TIMESTEP NUMBER = 7619.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 208.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5234	0.42
5235	0.87
5237	0.22
5238	22.61
5239	0.78
5240	2.42
5241	6.60
5242	2.54
5243	2.17
5244	1.03
5245	1.04
5246	1.75
5247	1.00
5249	1.03
5250	3.48
5251	1.84
5252	1.68
5253	1.07
5254	0.77
5255	2.44
5256	3.47
5257	1.57
5258	1.06
5265	0.49
5266	2.17
5267	1.96
5268	0.87
5269	4.25
5270	1.08
5271	0.56
5272	0.95
5281	131.18

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.41

MODEL TIME = 23.80 HOURS TOTAL TIMESTEP NUMBER = 7676.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 208.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5237	0.22
5238	22.62
5239	0.78
5240	1.53
5241	2.90
5242	0.45
5243	1.53
5244	1.93
5245	2.23
5246	1.84
5247	1.80
5248	2.01
5249	2.10
5250	3.12
5251	1.04
5252	0.70
5253	1.97
5254	1.01
5255	1.35
5256	2.54
5257	0.99
5258	2.31
5259	1.02
5263	0.73
5264	0.94
5265	0.47
5266	1.14
5267	1.81
5268	1.90
5269	4.34
5270	1.11
5271	0.57
5272	1.77
5273	0.98
5275	0.37
5276	0.92
5277	0.44
5278	0.78
5279	0.61
5280	0.64
5281	130.85

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.38

MODEL TIME = 24.00 HOURS TOTAL TIMESTEP NUMBER = 7731.

FLOODPLAIN RESULTS
(POSITIVE VELOCITY REPRESENTS INFLOW TO NODE)

INFLOW RATE AT NODE 1 IS EQUAL TO 208.00

DISCHARGE FROM OUTFLOW GRID ELEMENTS:

NODE	OUTFLOW RATE(CFS)
5234	0.40
5235	1.29
5236	0.95
5237	0.22
5238	22.68
5239	0.76
5240	1.51
5241	4.50
5242	1.45
5243	2.68
5244	1.96
5245	2.16
5246	1.73
5247	1.72
5248	2.09
5249	2.13
5250	2.01
5252	0.72
5253	1.97
5254	1.01
5255	1.37
5256	3.48
5257	1.61
5258	1.11
5265	0.48
5266	1.15
5267	1.81
5268	1.91
5269	4.34
5270	1.11
5271	0.58
5272	2.05
5273	1.77
5274	0.86
5279	0.61
5280	0.64
5281	131.64

MIN. TIMESTEP(SEC.) = 18.25 MAX. TIMESTEP(SEC.) = 20.25 MEAN TIMESTEP(SEC.) = 19.33

MAXIMUM WATER SURFACE VALUES FOR FLOODPLAIN

NODE	1	2	3	4	5	6	7	8	9	10
ELEVATION	2794.58	2790.76	2799.07	2795.10	2792.00	2790.10	2785.00	2780.35	2775.74	2771.16
MAX DEPTH	1.16	0.76	0.10	0.10	0.10	0.10	0.10	0.11	0.13	0.14
VELOCITY	4.81	4.69	0.00	0.00	0.00	0.00	0.00	0.29	0.32	0.37
TIME	3.55	3.76	1.41	1.48	1.43	1.49	1.38	1.48	1.50	1.50
MAX VEL	5.79	4.77	0.47	0.34	0.27	0.29	0.28	0.29	0.33	0.37
DEPTH	1.11	0.75	0.09	0.10	0.10	0.10	0.10	0.11	0.13	0.14
TIME	3.75	3.76	1.48	1.49	1.32	1.47	1.39	1.49	1.51	1.50

NODE	11	12	13	14	15	16	17	18	19	20
[illegible]EVATION	2765.52	2762.64	2758.67	2754.14	2749.61	2745.12	2741.02	2736.84	2731.23	2727.22
[illegible]X DEPTH	0.18	0.14	0.13	0.15	0.16	0.12	0.12	0.11	0.17	0.18
VELOCITY	0.29	0.31	0.31	0.35	0.36	0.29	0.29	0.33	0.36	0.38
TIME	1.60	1.52	1.50	1.55	1.66	1.50	1.50	1.50	1.66	1.85
MAX VEL	0.29	0.31	0.32	0.35	0.36	0.29	0.29	0.33	0.36	0.38
DEPTH	0.17	0.14	0.13	0.15	0.16	0.12	0.12	0.11	0.17	0.18
TIME	1.53	1.52	1.52	1.56	1.67	1.51	1.52	1.52	1.67	1.86

NODE	21	22	23	24	25	26	27	28	29	30
ELEVATION	2722.99	2718.73	2715.16	2710.16	2705.21	2701.76	2695.18	2690.26	2688.36	2684.19
MAX DEPTH	0.19	0.21	0.16	0.16	0.21	0.14	0.18	0.26	0.12	0.12
VELOCITY	0.40	0.36	0.39	0.39	0.33	0.40	0.42	0.28	0.28	0.29
TIME	1.94	2.08	2.08	2.09	2.25	1.91	1.91	2.55	1.50	1.50
MAX VEL	0.40	0.36	0.39	0.39	0.34	0.40	0.42	0.57	0.28	0.29
DEPTH	0.19	0.21	0.16	0.16	0.20	0.14	0.18	0.25	0.11	0.12
TIME	1.95	2.08	2.09	2.10	1.97	1.92	1.91	1.88	1.51	1.52

NODE	31	32	33	34	35	36	37	38	39	40
ELEVATION	2680.13	2675.93	2671.10	2666.31	2660.57	2656.40	2650.25	2645.82	2640.84	2635.84
MAX DEPTH	0.13	0.12	0.12	0.11	0.14	0.12	0.17	0.17	0.20	0.21
VELOCITY	0.29	0.31	0.30	0.33	0.30	0.35	0.38	0.41	0.45	0.36
TIME	1.50	1.50	1.50	1.50	1.50	1.50	1.88	1.95	1.90	1.81
MAX VEL	0.30	0.31	0.30	0.33	0.30	0.35	0.38	0.41	0.90	0.72
DEPTH	0.13	0.12	0.12	0.11	0.13	0.12	0.17	0.17	0.20	0.20
TIME	1.52	1.52	1.52	1.52	1.51	1.52	1.89	1.95	1.91	1.82

NODE	41	42	43	44	45	46	47	48	49	50
ELEVATION	2632.24	2627.42	2622.76	2618.58	2614.06	2609.70	2605.59	2600.83	2596.23	2591.78
MAX DEPTH	0.13	0.13	0.14	0.20	0.26	0.25	0.21	0.16	0.14	0.15
VELOCITY	0.33	0.32	0.33	0.43	0.93	0.41	0.79	0.36	0.33	0.34
TIME	1.92	1.91	1.99	2.07	1.95	1.72	1.82	2.28	2.40	2.45
MAX VEL	0.33	0.32	0.33	0.86	0.94	0.85	0.81	0.36	0.33	0.34
DEPTH	0.13	0.13	0.14	0.20	0.23	0.22	0.21	0.16	0.14	0.15
TIME	1.93	1.92	2.01	2.66	1.76	1.82	1.84	2.30	2.41	2.41

NODE	51	52	53	54	55	56	57	58	59	60
ELEVATION	2587.40	2583.50	2578.14	2573.97	2569.44	2565.01	2560.16	2555.38	2550.98	2546.47
MAX DEPTH	0.12	0.11	0.14	0.12	0.12	0.13	0.16	0.20	0.20	0.25
VELOCITY	0.29	0.31	0.30	0.30	0.30	0.32	0.37	0.42	0.86	1.05
TIME	1.50	1.50	2.05	1.50	1.50	1.50	1.82	2.40	2.42	2.03
MAX VEL	0.29	0.31	0.30	0.30	0.30	0.32	0.37	0.84	0.86	1.06
DEPTH	0.12	0.11	0.14	0.12	0.12	0.13	0.16	0.19	0.20	0.25
TIME	1.51	1.51	2.05	1.52	1.52	1.52	1.82	2.42	2.43	2.04

NODE	61	62	63	64	65	66	67	68	69	70
ELEVATION	2541.22	2539.67	2535.19	2531.51	2527.40	2521.09	2517.49	2511.91	2509.30	2504.03
MAX DEPTH	0.34	0.20	0.19	0.13	0.11	0.14	0.13	0.22	0.12	0.22
[illegible]LOCITY	0.61	0.41	0.38	0.30	0.33	0.29	0.36	0.30	0.33	0.41
[illegible]E	2.60	2.28	2.81	3.00	1.50	1.50	3.01	1.83	1.50	2.42
[illegible]X VEL	0.61	0.76	0.38	0.30	0.33	0.29	0.36	0.61	0.33	0.84
[illegible]EPTH	0.34	0.20	0.19	0.13	0.11	0.14	0.13	0.21	0.12	0.21
TIME	2.59	2.28	2.85	3.01	1.51	1.52	3.01	2.95	1.51	2.48

NODE	71	72	73	74	75	76	77	78	79	80
ELEVATION	2499.86	2495.51	2491.17	2485.73	2481.63	2476.92	2473.63	2468.00	2465.20	2460.24
MAX DEPTH	0.21	0.21	0.20	0.21	0.21	0.28	0.20	0.28	0.20	0.24
VELOCITY	0.42	0.85	0.47	0.83	0.89	0.82	0.48	0.76	0.45	0.67
TIME	2.48	2.53	3.13	2.58	2.66	3.06	1.74	3.21	1.93	3.29
MAX VEL	0.85	0.85	0.94	0.83	0.89	0.82	0.97	0.76	0.90	0.67
DEPTH	0.21	0.21	0.20	0.21	0.21	0.28	0.20	0.28	0.20	0.24
TIME	2.51	2.53	3.14	2.59	2.66	3.06	1.75	3.22	1.94	3.29

NODE	81	82	83	84	85	86	87	88	89	90
ELEVATION	2794.24	2789.48	2786.07	2788.15	2790.10	2785.46	2784.21	2780.11	2775.87	2771.63
MAX DEPTH	0.11	0.93	1.07	0.11	0.10	0.11	0.10	0.11	0.11	0.11
VELOCITY	0.30	4.87	6.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	3.62	3.76	3.76	1.35	1.38	1.38	1.32	1.29	1.36	1.42
MAX VEL	0.30	4.96	6.12	0.36	0.43	0.28	0.32	0.31	0.29	0.27
DEPTH	0.11	0.93	1.07	0.10	0.10	0.10	0.10	0.10	0.10	0.10
TIME	3.62	3.76	3.77	1.49	1.39	1.31	1.34	1.43	1.38	1.39

NODE	91	92	93	94	95	96	97	98	99	100
ELEVATION	2767.14	2762.74	2758.42	2754.24	2750.46	2743.62	2740.14	2735.46	2731.98	2727.79
MAX DEPTH	0.11	0.11	0.13	0.14	0.11	0.19	0.14	0.15	0.11	0.11
VELOCITY	0.00	0.28	0.30	0.29	0.34	0.33	0.34	0.32	0.27	0.25
TIME	1.36	1.50	1.50	1.57	1.50	1.66	1.51	1.59	1.50	1.50
MAX VEL	0.27	0.28	0.30	0.29	0.34	0.33	0.34	0.32	0.27	0.25
DEPTH	0.10	0.11	0.13	0.14	0.11	0.19	0.14	0.15	0.11	0.11
TIME	1.38	1.51	1.52	1.58	1.51	1.58	1.54	1.60	1.51	1.51

NODE	101	102	103	104	105	106	107	108	109	110
ELEVATION	2724.49	2719.75	2715.59	2710.62	2705.81	2701.68	2697.31	2691.95	2687.48	2683.18
MAX DEPTH	0.11	0.11	0.11	0.11	0.12	0.12	0.11	0.11	0.18	0.19
VELOCITY	0.00	0.27	0.30	0.30	0.29	0.30	0.00	0.29	0.38	0.31
TIME	1.35	1.50	1.50	1.50	1.50	1.50	1.36	1.50	2.00	2.06
MAX VEL	0.29	0.28	0.30	0.30	0.29	0.30	0.31	0.29	0.38	0.31
DEPTH	0.11	0.11	0.11	0.11	0.12	0.12	0.11	0.11	0.17	0.19
TIME	1.36	1.51	1.51	1.51	1.53	1.51	1.38	1.52	2.01	2.07

NODE	111	112	113	114	115	116	117	118	119	120
ELEVATION	2679.87	2674.69	2669.73	2665.09	2660.18	2655.19	2650.50	2645.90	2641.69	2636.76
MAX DEPTH	0.13	0.14	0.15	0.17	0.18	0.19	0.15	0.18	0.12	0.14
VELOCITY	0.34	0.35	0.36	0.39	0.42	0.39	0.35	0.35	0.32	0.37
TIME	1.50	1.50	1.53	1.64	1.74	1.80	1.66	1.91	1.50	1.91
MAX VEL	0.35	0.35	0.36	0.39	0.42	0.39	0.35	0.35	0.32	0.37
[illegible]PTH	0.13	0.14	0.15	0.17	0.18	0.19	0.15	0.18	0.12	0.14
[illegible]E	1.53	1.53	1.59	1.65	1.75	1.82	1.68	1.92	1.52	1.92

NODE	121	122	123	124	125	126	127	128	129	130
ELEVATION	2631.36	2626.36	2622.41	2618.77	2615.12	2610.14	2605.56	2600.22	2595.26	2591.46
MAX DEPTH	0.21	0.22	0.23	0.20	0.12	0.14	0.20	0.22	0.24	0.18
VELOCITY	0.45	0.83	0.38	0.37	0.33	0.34	0.46	0.95	0.77	0.43
TIME	1.69	1.96	1.57	1.65	1.86	1.98	1.85	1.88	2.00	2.07
MAX VEL	0.91	0.84	0.78	0.74	0.33	0.34	0.93	0.95	0.78	0.43
DEPTH	0.20	0.22	0.21	0.20	0.12	0.14	0.20	0.22	0.23	0.17

TIME	1.79	1.97	1.62	1.62	1.87	1.97	1.86	1.90	2.05	2.08
NODE	131	132	133	134	135	136	137	138	139	140
ELEVATION	2585.94	2581.52	2577.83	2572.74	2567.97	2564.37	2560.23	2555.22	2550.78	2547.88
MAX DEPTH	0.25	0.25	0.20	0.22	0.26	0.24	0.23	0.22	0.25	0.11
VELOCITY	0.94	0.77	0.45	0.91	0.85	0.41	0.94	0.91	0.77	0.29
TIME	2.16	1.98	2.22	2.23	2.28	1.68	2.31	1.88	1.90	2.02
MAX VEL	0.94	0.79	0.91	0.92	0.85	0.88	0.96	0.86	0.78	0.29
DEPTH	0.25	0.23	0.19	0.22	0.25	0.23	0.22	0.21	0.24	0.11
TIME	2.17	2.11	2.35	2.23	2.29	2.33	1.86	1.94	1.96	2.01
NODE	141	142	143	144	145	146	147	148	149	150
ELEVATION	2543.51	2539.36	2534.68	2529.54	2525.80	2520.89	2517.30	2513.80	2508.70	2505.12
MAX DEPTH	0.12	0.20	0.21	0.23	0.16	0.20	0.20	0.11	0.20	0.12
VELOCITY	0.29	0.43	0.92	0.76	0.39	0.38	0.39	0.00	0.73	0.31
TIME	2.50	2.15	2.16	2.82	2.95	2.68	3.14	1.29	3.17	2.99
MAX VEL	0.29	0.88	0.93	0.76	0.39	0.76	0.79	0.30	0.74	0.31
DEPTH	0.12	0.20	0.20	0.23	0.16	0.20	0.20	0.11	0.20	0.12
TIME	2.50	2.16	2.17	2.70	2.96	2.72	3.14	1.60	2.97	2.99
NODE	151	152	153	154	155	156	157	158	159	160
ELEVATION	2500.23	2495.73	2491.25	2487.06	2482.61	2479.22	2475.11	2470.30	2466.22	2460.19
MAX DEPTH	0.14	0.17	0.13	0.11	0.14	0.11	0.11	0.11	0.11	0.19
VELOCITY	0.33	0.35	0.29	0.29	0.32	0.00	0.00	0.00	0.00	0.35
TIME	2.82	2.83	2.84	3.00	3.03	1.42	1.32	1.39	1.34	3.40
MAX VEL	0.33	0.35	0.29	0.29	0.32	0.29	0.30	0.27	0.33	0.36
DEPTH	0.14	0.17	0.13	0.11	0.14	0.11	0.10	0.11	0.10	0.19
TIME	2.83	2.84	2.89	3.01	3.03	1.43	1.34	1.42	1.35	2.30
NODE	161	162	163	164	165	166	167	168	169	170
ELEVATION	2457.20	2799.32	2793.55	2785.19	2781.03	2779.34	2785.10	2780.11	2775.78	2771.87
MAX DEPTH	0.36	0.10	0.11	0.60	1.03	0.55	0.10	0.11	0.12	0.16
VELOCITY	0.71	0.00	0.00	3.94	4.55	1.64	0.00	0.00	0.28	0.30
TIME	3.44	1.38	1.36	3.79	3.77	3.63	1.31	1.32	1.48	1.51
MAX VEL	0.71	0.35	0.39	4.23	4.60	4.71	0.47	0.32	0.28	0.30
DEPTH	0.36	0.10	0.10	0.51	1.03	0.53	0.09	0.10	0.12	0.15
TIME	3.56	1.45	1.38	3.32	3.78	3.63	1.47	1.34	1.49	1.53
NODE	171	172	173	174	175	176	177	178	179	180
ELEVATION	2768.79	2765.85	2762.19	2757.64	2754.35	2750.11	2745.01	2739.29	2735.18	2730.42
MAX DEPTH	0.13	0.11	0.11	0.12	0.11	0.11	0.11	0.14	0.18	0.19
VELOCITY	0.30	0.28	0.00	0.30	0.00	0.00	0.00	0.32	0.40	0.35
TIME	1.49	1.50	1.31	1.50	1.35	1.36	1.38	1.51	1.87	1.92
MAX VEL	0.30	0.29	0.30	0.31	0.31	0.32	0.32	0.32	0.40	0.35
DEPTH	0.12	0.11	0.11	0.12	0.11	0.11	0.11	0.14	0.18	0.19
TIME	1.50	1.51	1.32	1.51	1.36	1.38	1.39	1.54	1.89	1.92
NODE	181	182	183	184	185	186	187	188	189	190
ELEVATION	2726.91	2723.02	2719.29	2714.91	2710.09	2705.18	2700.38	2695.96	2691.21	2686.83
MAX DEPTH	0.14	0.13	0.12	0.12	0.13	0.15	0.14	0.13	0.13	0.13
VELOCITY	0.30	0.29	0.30	0.31	0.33	0.35	0.33	0.33	0.32	0.33
TIME	1.50	1.50	1.50	1.50	1.50	1.57	1.50	1.50	1.50	1.50
MAX VEL	0.30	0.29	0.30	0.31	0.33	0.35	0.33	0.33	0.32	0.33
DEPTH	0.14	0.13	0.12	0.12	0.13	0.15	0.14	0.13	0.13	0.13
TIME	1.52	1.51	1.51	1.52	1.53	1.59	1.53	1.52	1.52	1.51
NODE	191	192	193	194	195	196	197	198	199	200
ELEVATION	2683.04	2679.76	2673.82	2669.36	2664.99	2660.13	2655.94	2650.61	2646.66	2641.74
X DEPTH	0.12	0.11	0.14	0.16	0.14	0.13	0.11	0.13	0.11	0.13
LOCITY	0.31	0.00	0.33	0.35	0.35	0.30	0.31	0.28	0.29	0.32
IME	2.04	1.34	1.50	1.65	1.60	1.50	1.50	1.66	1.50	1.50
AX VEL	0.31	0.32	0.33	0.35	0.35	0.30	0.31	0.28	0.29	0.33
DEPTH	0.12	0.10	0.14	0.16	0.14	0.13	0.11	0.13	0.11	0.13
TIME	2.05	1.35	1.52	1.66	1.61	1.52	1.51	1.66	1.51	1.52
NODE	201	202	203	204	205	206	207	208	209	210
ELEVATION	2636.96	2632.87	2628.35	2623.58	2620.11	2615.12	2610.14	2605.68	2600.53	2595.52
MAX DEPTH	0.15	0.12	0.12	0.14	0.11	0.12	0.14	0.12	0.13	0.15
VELOCITY	0.32	0.30	0.32	0.30	0.30	0.32	0.31	0.31	0.33	0.35
TIME	1.63	1.50	1.50	1.58	1.50	1.50	1.50	1.50	1.91	1.99
MAX VEL	0.32	0.30	0.32	0.30	0.30	0.32	0.31	0.31	0.33	0.35
DEPTH	0.15	0.12	0.12	0.14	0.11	0.12	0.14	0.11	0.13	0.15
TIME	1.63	1.51	1.52	1.58	1.53	1.53	1.52	1.52	1.92	2.00
NODE	211	212	213	214	215	216	217	218	219	220
ELEVATION	2590.92	2586.61	2582.29	2577.14	2572.93	2568.70	2564.41	2560.15	2555.52	2551.83
MAX DEPTH	0.22	0.16	0.19	0.22	0.20	0.20	0.21	0.15	0.16	0.12
VELOCITY	0.81	0.35	0.43	0.74	0.41	0.41	0.71	0.36	0.33	0.30
TIME	2.06	2.17	2.39	1.75	2.25	2.27	2.32	2.50	2.39	1.94
MAX VEL	0.81	0.36	0.43	0.83	0.83	0.84	0.72	0.36	0.33	0.30
DEPTH	0.22	0.16	0.18	0.20	0.20	0.20	0.21	0.15	0.16	0.12
TIME	2.07	2.21	2.40	2.06	2.30	2.36	2.33	2.50	2.39	1.93
NODE	221	222	223	224	225	226	227	228	229	230
ELEVATION	2547.28	2543.09	2539.14	2535.14	2529.54	2525.24	2520.25	2516.83	2512.69	2508.60
MAX DEPTH	0.20	0.15	0.16	0.14	0.21	0.24	0.25	0.23	0.20	0.17
VELOCITY	0.37	0.33	0.33	0.37	0.85	1.01	0.81	0.81	0.38	0.36
TIME	2.10	2.50	2.58	2.74	2.18	2.23	2.14	2.38	2.89	2.98
MAX VEL	0.75	0.33	0.33	0.37	0.85	1.01	0.81	0.83	0.74	0.36
DEPTH	0.20	0.15	0.16	0.14	0.20	0.23	0.24	0.21	0.20	0.17
TIME	2.11	2.51	2.59	2.72	2.66	2.24	2.27	2.44	2.90	2.99
NODE	231	232	233	234	235	236	237	238	239	240
ELEVATION	2505.13	2500.24	2496.33	2490.18	2485.98	2483.68	2478.28	2472.61	2469.53	2465.14
MAX DEPTH	0.13	0.20	0.11	0.18	0.17	0.11	0.13	0.23	0.13	0.14
VELOCITY	0.33	0.41	0.00	0.37	0.37	0.00	0.35	0.73	0.31	0.34
TIME	2.57	3.54	1.42	2.85	3.00	1.38	1.52	1.72	1.51	1.50
MAX VEL	0.33	0.82	0.33	0.38	0.37	0.31	0.35	0.75	0.31	0.34
DEPTH	0.13	0.20	0.11	0.18	0.17	0.10	0.12	0.22	0.13	0.13
TIME	2.58	2.53	1.43	3.01	3.01	1.39	1.53	1.76	1.53	1.53
NODE	241	242	243	244	245	246	247	248	249	250
ELEVATION	2460.14	2455.79	2804.13	2799.58	2791.76	2780.61	2776.12	2772.26	2774.14	2775.10
MAX DEPTH	0.14	0.80	0.10	0.11	0.11	0.61	1.12	0.79	0.11	0.10
VELOCITY	0.35	0.55	0.00	0.00	0.00	3.71	4.55	5.61	0.00	0.00
IME	1.50	3.38	1.35	1.41	1.45	3.78	3.78	3.82	1.41	1.34
VEL	0.35	1.79	0.35	0.42	0.44	4.27	4.61	5.67	0.39	0.46
PTH	0.14	0.48	0.10	0.10	0.10	0.48	1.12	0.79	0.10	0.10
ME	1.52	2.28	1.50	1.42	1.46	3.45	3.78	3.80	1.42	1.50
NODE	251	252	253	254	255	256	257	258	259	260
ELEVATION	2771.81	2767.00	2762.72	2759.31	2755.02	2751.01	2746.79	2741.83	2737.93	2735.11
MAX DEPTH	0.10	0.13	0.15	0.13	0.15	0.16	0.15	0.20	0.22	0.11
VELOCITY	0.00	0.31	0.32	0.32	0.33	0.35	0.37	0.39	0.29	0.31
TIME	1.42	1.51	1.52	1.50	1.51	1.51	1.51	1.64	1.87	1.50

MAX VEL	0.34	0.31	0.32	0.32	0.33	0.35	0.37	0.39	0.29	0.31
DEPTH	0.10	0.13	0.15	0.13	0.15	0.16	0.15	0.20	0.21	0.11
TIME	1.43	1.52	1.53	1.51	1.53	1.52	1.52	1.65	1.88	1.51
NODE	261	262	263	264	265	266	267	268	269	270
ELEVATION	2730.13	2725.52	2721.45	2717.95	2713.32	2708.66	2705.11	2699.15	2694.61	2690.19
MAX DEPTH	0.13	0.17	0.18	0.17	0.19	0.16	0.11	0.17	0.18	0.19
VELOCITY	0.32	0.36	0.34	0.39	0.39	0.35	0.33	0.38	0.39	0.44
TIME	1.50	1.91	1.82	1.91	1.96	2.00	1.50	1.77	1.83	1.91
AX VEL	0.32	0.36	0.34	0.39	0.39	0.35	0.33	0.38	0.39	0.44
EPTH	0.13	0.17	0.18	0.17	0.19	0.16	0.11	0.17	0.18	0.19
IME	1.53	1.93	1.92	1.92	2.03	2.01	1.51	1.93	1.93	1.93
NODE	271	272	273	274	275	276	277	278	279	280
ELEVATION	2685.20	2680.23	2676.80	2672.89	2669.39	2665.11	2659.64	2654.71	2650.05	2645.61
MAX DEPTH	0.20	0.23	0.15	0.13	0.11	0.11	0.14	0.15	0.14	0.14
VELOCITY	0.45	0.36	0.36	0.29	0.28	0.31	0.35	0.34	0.32	0.33
TIME	1.91	1.58	1.70	1.90	1.50	1.50	1.50	1.58	1.50	1.59
MAX VEL	0.90	0.76	0.36	0.29	0.28	0.31	0.35	0.34	0.33	0.33
DEPTH	0.20	0.22	0.15	0.13	0.11	0.11	0.14	0.15	0.14	0.14
TIME	1.91	1.68	1.71	1.91	1.51	1.51	1.53	1.61	1.53	1.60
NODE	281	282	283	284	285	286	287	288	289	290
ELEVATION	2641.20	2637.77	2632.87	2628.66	2624.44	2620.11	2614.45	2610.09	2604.50	2600.15
MAX DEPTH	0.14	0.11	0.12	0.11	0.11	0.11	0.14	0.14	0.20	0.15
VELOCITY	0.29	0.00	0.29	0.28	0.28	0.32	0.33	0.37	0.38	0.37
TIME	1.57	1.29	1.50	1.50	1.50	1.50	1.50	1.50	1.70	1.67
MAX VEL	0.29	0.29	0.29	0.28	0.27	0.32	0.33	0.37	0.38	0.37
DEPTH	0.14	0.10	0.12	0.11	0.11	0.11	0.14	0.14	0.20	0.15
TIME	1.59	1.58	1.52	1.52	1.53	1.53	1.52	1.53	1.71	1.71
NODE	291	292	293	294	295	296	297	298	299	300
ELEVATION	2595.36	2591.31	2587.14	2582.23	2578.08	2573.77	2569.62	2564.93	2560.05	2555.09
MAX DEPTH	0.17	0.13	0.13	0.20	0.12	0.14	0.11	0.11	0.20	0.21
VELOCITY	0.33	0.30	0.33	0.38	0.29	0.30	0.29	0.30	0.89	0.42
TIME	1.91	1.91	2.12	1.88	2.40	2.00	1.50	1.50	2.35	1.72
MAX VEL	0.33	0.30	0.33	0.76	0.29	0.30	0.29	0.30	0.90	0.86
DEPTH	0.17	0.13	0.13	0.20	0.12	0.14	0.11	0.11	0.20	0.21
TIME	1.92	2.01	2.14	1.88	2.41	2.01	1.51	1.53	2.40	2.38
NODE	301	302	303	304	305	306	307	308	309	310
ELEVATION	2550.68	2545.99	2542.45	2538.99	2535.07	2530.27	2526.00	2521.62	2516.88	2511.94
MAX DEPTH	0.20	0.21	0.24	0.15	0.20	0.11	0.11	0.12	0.13	0.23
VELOCITY	0.43	0.78	0.85	0.33	0.41	0.28	0.29	0.32	0.34	0.87
TIME	1.88	2.45	2.48	2.58	2.64	2.83	2.50	2.81	2.33	2.43
MAX VEL	0.88	0.78	0.86	0.33	0.79	0.28	0.29	0.32	0.34	0.87
DEPTH	0.20	0.21	0.24	0.15	0.20	0.11	0.11	0.12	0.13	0.23
TIME	1.89	2.46	2.48	2.59	2.65	2.84	2.51	2.81	2.33	2.44
NODE	311	312	313	314	315	316	317	318	319	320
ELEVATION	2508.02	2502.93	2500.14	2494.34	2489.94	2485.22	2480.25	2476.91	2473.31	2467.91
MAX DEPTH	0.25	0.26	0.16	0.21	0.16	0.22	0.25	0.20	0.12	0.20
VELOCITY	1.03	0.72	0.41	0.39	0.38	0.96	0.79	0.35	0.32	0.36
TIME	2.49	2.54	2.60	2.69	3.00	3.02	1.96	1.65	2.50	3.02
MAX VEL	1.04	0.73	0.42	0.74	0.38	0.96	0.79	0.72	0.32	0.74
DEPTH	0.25	0.26	0.16	0.20	0.16	0.22	0.25	0.20	0.12	0.20
TIME	2.50	2.53	2.60	2.69	3.01	3.02	1.97	2.52	2.42	3.02
NODE	321	322	323	324	325	326	327	328	329	330
EVATION	2465.10	2460.20	2456.77	2455.67	2804.28	2800.10	2794.75	2789.90	2781.04	2770.22
AX DEPTH	0.11	0.20	0.20	3.95	0.10	0.10	0.10	0.11	0.11	0.91
VELOCITY	0.30	0.38	0.22	0.00	0.00	0.00	0.00	0.00	0.00	4.52
TIME	1.94	1.95	3.48	3.36	1.38	1.31	1.47	1.36	1.32	3.82
MAX VEL	0.30	0.75	0.31	0.48	0.26	0.31	0.42	0.43	0.45	4.64
DEPTH	0.11	0.19	0.12	0.55	0.10	0.10	0.10	0.10	0.10	0.91
TIME	1.51	1.96	1.52	1.63	1.43	1.38	1.32	1.38	1.43	3.84
NODE	331	332	333	334	335	336	337	338	339	340
ELEVATION	2765.95	2762.72	2770.10	2766.46	2761.79	2757.46	2753.14	2750.02	2745.18	2742.70
MAX DEPTH	0.82	0.58	0.10	0.11	0.11	0.15	0.16	0.13	0.18	0.11
VELOCITY	5.11	4.65	0.00	0.00	0.29	0.34	0.33	0.33	0.34	0.00
TIME	3.81	3.85	1.42	1.32	1.50	1.50	1.52	1.50	1.66	1.35
MAX VEL	5.20	4.69	0.49	0.37	0.29	0.34	0.33	0.33	0.34	0.28
DEPTH	0.82	0.58	0.09	0.10	0.11	0.15	0.16	0.13	0.18	0.11
TIME	3.81	3.86	1.50	1.34	1.51	1.57	1.53	1.53	1.73	1.36
NODE	341	342	343	344	345	346	347	348	349	350
ELEVATION	2738.75	2734.19	2728.63	2725.13	2720.94	2717.56	2713.08	2708.10	2703.11	2698.79
MAX DEPTH	0.11	0.12	0.15	0.13	0.18	0.21	0.13	0.18	0.21	0.15
VELOCITY	0.00	0.34	0.29	0.31	0.35	0.41	0.34	0.42	0.39	0.35
TIME	1.36	1.50	1.50	1.50	1.83	1.91	2.01	2.14	2.21	2.00
MAX VEL	0.28	0.34	0.29	0.31	0.35	0.42	0.34	0.42	0.39	0.35
DEPTH	0.10	0.12	0.15	0.13	0.18	0.21	0.13	0.18	0.21	0.15
TIME	1.38	1.51	1.53	1.53	1.91	1.92	2.01	2.13	2.21	2.01
NODE	351	352	353	354	355	356	357	358	359	360
ELEVATION	2694.29	2690.14	2685.51	2680.20	2675.55	2670.26	2667.81	2663.74	2659.16	2654.50
MAX DEPTH	0.15	0.14	0.13	0.15	0.20	0.26	0.18	0.12	0.13	0.12
VELOCITY	0.33	0.33	0.34	0.35	0.46	0.82	0.44	0.30	0.31	0.35
TIME	1.91	1.91	1.92	1.99	1.70	1.84	2.11	1.50	1.50	1.50
MAX VEL	0.33	0.33	0.34	0.35	0.93	0.83	0.44	0.30	0.31	0.35
DEPTH	0.15	0.14	0.13	0.15	0.20	0.25	0.18	0.12	0.12	0.12
TIME	1.94	1.94	1.93	2.00	1.71	1.85	2.11	1.53	1.53	1.52
NODE	361	362	363	364	365	366	367	368	369	370
ELEVATION	2648.54	2645.14	2640.18	2636.31	2631.62	2628.14	2623.61	2619.15	2614.30	2610.13
MAX DEPTH	0.18	0.14	0.18	0.14	0.16	0.12	0.13	0.13	0.13	0.13
VELOCITY	0.32	0.35	0.36	0.34	0.34	0.31	0.32	0.32	0.31	0.34
TIME	1.66	1.66	1.84	1.89	1.95	1.50	1.50	1.50	1.50	1.50
MAX VEL	0.32	0.35	0.36	0.34	0.34	0.31	0.32	0.32	0.31	0.34
DEPTH	0.18	0.14	0.18	0.14	0.16	0.12	0.13	0.12	0.13	0.13
TIME	1.70	1.67	1.93	1.64	1.90	1.53	1.53	1.53	1.52	1.52
NODE	371	372	373	374	375	376	377	378	379	380
ELEVATION	2605.13	2600.15	2595.28	2591.14	2585.80	2582.63	2577.58	2573.90	2568.79	2564.01
X DEPTH	0.13	0.15	0.16	0.20	0.23	0.11	0.21	0.12	0.18	0.21
LOCITY	0.33	0.37	0.35	0.46	0.32	0.31	0.33	0.33	0.41	0.36
ME	1.50	1.66	1.78	1.91	1.74	1.50	2.05	1.50	2.02	2.04
AX VEL	0.33	0.37	0.35	0.46	0.64	0.31	0.34	0.33	0.41	0.67
DEPTH	0.13	0.15	0.16	0.20	0.22	0.11	0.21	0.12	0.18	0.20
TIME	1.52	1.69	1.83	1.94	1.81	1.52	2.06	1.53	2.03	2.35
NODE	381	382	383	384	385	386	387	388	389	390
ELEVATION	2560.08	2556.08	2551.41	2546.06	2542.73	2537.31	2535.11	2529.09	2525.20	2521.55
MAX DEPTH	0.15	0.11	0.11	0.17	0.13	0.25	0.11	0.20	0.20	0.12

VELOCITY	0.30	0.29	0.31	0.30	0.34	0.75	0.33	0.71	0.76	0.32
TIME	1.92	1.50	1.50	2.52	2.57	1.88	2.69	2.42	2.66	2.81
MAX VEL	0.30	0.29	0.31	0.30	0.34	0.78	0.33	0.80	0.76	0.32
DEPTH	0.15	0.11	0.11	0.17	0.13	0.25	0.11	0.20	0.20	0.12
TIME	1.95	1.51	1.51	2.56	2.58	2.56	2.69	2.71	3.00	2.81

NODE	391	392	393	394	395	396	397	398	399	400
ELEVATION	2516.44	2512.09	2508.45	2503.51	2499.09	2494.11	2489.64	2485.59	2481.09	2476.77
MAX DEPTH	0.14	0.20	0.12	0.20	0.20	0.18	0.21	0.14	0.13	0.20
[illegible]ELOCITY	0.33	0.38	0.31	0.42	0.43	0.39	0.72	0.33	0.31	0.42
[illegible]ME	2.85	2.49	2.50	2.88	2.79	2.85	2.74	2.89	2.95	2.10
[illegible]X VEL	0.33	0.76	0.31	0.85	0.84	0.39	0.72	0.33	0.31	0.84
DEPTH	0.14	0.20	0.12	0.20	0.20	0.18	0.20	0.14	0.13	0.20
TIME	2.86	2.49	2.50	2.89	2.76	2.87	3.08	2.93	2.95	2.11

NODE	401	402	403	404	405	406	407	408	409	410
ELEVATION	2472.43	2467.20	2463.24	2460.18	2455.57	2455.56	2802.58	2798.61	2794.06	2790.11
MAX DEPTH	0.21	0.22	0.28	0.20	0.57	3.91	0.10	0.10	0.11	0.11
VELOCITY	0.46	0.83	0.78	0.44	0.38	0.50	0.00	0.00	0.00	0.00
TIME	2.19	2.25	1.85	2.68	3.39	3.77	1.42	1.48	1.41	1.39
MAX VEL	0.93	0.84	0.78	0.89	0.70	1.28	0.27	0.29	0.27	0.33
DEPTH	0.19	0.22	0.27	0.20	0.20	3.89	0.10	0.10	0.10	0.10
TIME	2.58	2.26	2.27	2.68	1.66	4.25	1.36	1.49	1.42	1.41

NODE	411	412	413	414	415	416	417	418	419	420
ELEVATION	2785.11	2778.97	2765.26	2760.86	2756.24	2760.85	2761.87	2758.12	2752.29	2747.71
MAX DEPTH	0.11	0.11	0.54	0.86	1.24	0.10	0.10	0.10	0.13	0.16
VELOCITY	0.00	0.00	3.71	5.92	6.40	0.00	0.00	0.00	0.32	0.29
TIME	1.32	1.34	3.84	3.88	3.86	1.38	1.41	1.46	1.50	1.60
MAX VEL	0.44	0.49	4.31	6.13	6.50	0.42	0.37	0.31	0.32	0.29
DEPTH	0.10	0.10	0.49	0.86	1.24	0.10	0.09	0.10	0.13	0.16
TIME	1.34	1.44	4.97	3.88	3.87	1.39	1.42	1.47	1.53	1.62

NODE	421	422	423	424	425	426	427	428	429	430
ELEVATION	2744.58	2740.17	2736.47	2732.96	2727.88	2724.04	2720.20	2718.59	2710.96	2707.53
MAX DEPTH	0.13	0.16	0.14	0.11	0.14	0.17	0.20	0.11	0.17	0.12
VELOCITY	0.32	0.31	0.33	0.31	0.31	0.36	0.34	0.00	0.35	0.30
TIME	1.59	1.86	1.50	1.50	1.51	1.65	1.77	1.38	2.01	1.50
MAX VEL	0.32	0.31	0.33	0.31	0.31	0.36	0.55	0.36	0.35	0.30
DEPTH	0.13	0.16	0.14	0.11	0.14	0.17	0.20	0.10	0.16	0.12
TIME	1.60	1.83	1.51	1.51	1.53	1.66	1.79	1.43	1.92	1.53

NODE	431	432	433	434	435	436	437	438	439	440
ELEVATION	2703.02	2698.68	2693.80	2689.41	2684.84	2679.58	2674.21	2670.15	2665.21	2660.26
MAX DEPTH	0.12	0.12	0.16	0.20	0.16	0.18	0.20	0.18	0.21	0.26
VELOCITY	0.30	0.32	0.36	0.40	0.40	0.43	0.37	0.41	0.92	0.89
TIME	1.50	1.50	1.91	1.95	1.98	2.00	1.68	1.89	1.65	2.08
MAX VEL	0.30	0.32	0.36	0.40	0.40	0.43	0.68	0.41	0.91	0.89
DEPTH	0.12	0.12	0.16	0.20	0.16	0.18	0.20	0.18	0.21	0.25
TIME	1.53	1.93	1.93	1.95	1.99	2.01	1.69	1.91	1.95	2.08

NODE	441	442	443	444	445	446	447	448	449	450
ELEVATION	2658.59	2653.11	2648.37	2644.64	2639.91	2634.90	2631.18	2626.02	2622.84	2617.71
MAX DEPTH	0.11	0.12	0.13	0.14	0.13	0.17	0.15	0.20	0.13	0.15
VELOCITY	0.32	0.32	0.29	0.34	0.34	0.34	0.38	0.38	0.34	0.33
TIME	1.50	1.50	1.50	1.77	1.51	2.00	2.14	1.98	2.00	1.95
MAX VEL	0.32	0.32	0.29	0.34	0.34	0.34	0.38	0.77	0.34	0.33
[illegible]EPTH	0.11	0.12	0.13	0.14	0.13	0.17	0.15	0.20	0.13	0.15
[illegible]ME	1.51	1.51	1.54	1.78	1.58	2.05	2.14	1.99	2.01	1.92

NODE	451	452	453	454	455	456	457	458	459	460
ELEVATION	2613.59	2610.06	2605.13	2600.28	2595.17	2591.43	2586.95	2581.98	2577.69	2573.60
MAX DEPTH	0.15	0.13	0.13	0.12	0.17	0.11	0.11	0.14	0.12	0.14
VELOCITY	0.29	0.33	0.33	0.32	0.31	0.29	0.29	0.31	0.30	0.34
TIME	1.64	1.59	1.50	1.50	1.66	1.50	1.50	1.80	1.57	1.98
MAX VEL	0.29	0.33	0.33	0.33	0.31	0.29	0.30	0.31	0.30	0.34
DEPTH	0.15	0.13	0.13	0.12	0.17	0.11	0.11	0.14	0.12	0.14
TIME	1.64	1.60	1.53	1.51	1.67	1.51	1.51	1.82	1.58	1.98

NODE	461	462	463	464	465	466	467	468	469	470
ELEVATION	2569.14	2564.85	2560.15	2555.21	2550.20	2545.67	2542.25	2537.69	2533.29	2528.95
MAX DEPTH	0.15	0.12	0.15	0.21	0.20	0.20	0.19	0.17	0.25	0.21
VELOCITY	0.32	0.30	0.37	0.45	0.42	0.36	0.40	0.37	0.91	0.85
TIME	1.91	1.50	2.00	2.28	2.60	2.60	2.84	2.89	2.69	2.40
MAX VEL	0.32	0.30	0.37	0.90	0.74	0.36	0.40	0.37	0.91	0.85
DEPTH	0.15	0.12	0.15	0.20	0.20	0.20	0.19	0.17	0.25	0.21
TIME	1.92	1.52	2.01	2.59	2.60	2.84	2.85	2.94	2.74	2.41

NODE	471	472	473	474	475	476	477	478	479	480
ELEVATION	2524.76	2520.21	2515.24	2512.24	2506.95	2503.53	2498.46	2492.93	2490.01	2485.21
MAX DEPTH	0.24	0.21	0.24	0.12	0.20	0.15	0.19	0.21	0.20	0.21
VELOCITY	0.91	0.92	0.85	0.33	0.42	0.37	0.46	0.34	0.44	0.46
TIME	1.90	2.82	2.05	2.12	2.71	3.00	2.85	2.58	2.25	2.19
MAX VEL	0.91	0.92	0.85	0.33	0.85	0.37	0.46	0.69	0.89	0.93
DEPTH	0.24	0.21	0.24	0.12	0.20	0.15	0.19	0.20	0.20	0.20
TIME	1.89	2.83	2.06	2.14	2.72	3.01	2.84	2.90	2.79	2.35

NODE	481	482	483	484	485	486	487	488	489	490
ELEVATION	2480.06	2475.27	2470.64	2466.57	2463.78	2458.92	2455.40	2455.16	2800.40	2796.28
MAX DEPTH	0.24	0.27	0.25	0.27	0.20	0.21	0.40	0.35	0.10	0.11
VELOCITY	0.99	1.00	0.94	0.74	0.44	0.38	1.16	1.34	0.00	0.00
TIME	2.93	2.39	2.16	2.20	2.77	2.77	3.39	3.49	1.43	1.32
MAX VEL	1.00	1.00	0.95	0.74	0.89	0.79	1.16	1.34	0.27	0.29
DEPTH	0.24	0.25	0.25	0.26	0.20	0.20	0.40	0.35	0.10	0.11
TIME	2.94	2.16	2.16	2.21	3.22	2.01	3.40	3.49	1.44	1.41

NODE	491	492	493	494	495	496	497	498	499	500
ELEVATION	2791.60	2788.35	2785.14	2779.96	2773.07	2763.86	2756.37	2751.71	2755.47	2755.39
MAX DEPTH	0.13	0.12	0.11	0.11	0.11	0.16	0.53	1.71	0.10	0.10
VELOCITY	0.31	0.32	0.00	0.00	0.00	0.47	1.64	3.68	0.00	0.00
TIME	1.49	1.50	1.41	1.38	1.39	3.95	3.70	3.87	1.41	1.39
MAX VEL	0.31	0.32	0.30	0.43	0.41	0.47	4.62	4.82	0.39	0.43
DEPTH	0.13	0.12	0.10	0.10	0.10	0.16	0.48	0.94	0.10	0.09
TIME	1.50	1.51	1.43	1.32	1.38	3.95	3.70	3.57	1.46	1.57

[illegible] NODE	501	502	503	504	505	506	507	508	509	510
[illegible]VATION	2752.18	2747.31	2742.99	2738.87	2735.12	2730.14	2726.35	2724.21	2720.11	2715.14
[illegible] DEPTH	0.10	0.11	0.11	0.11	0.12	0.14	0.15	0.11	0.12	0.14
[illegible]ELOCITY	0.00	0.00	0.00	0.27	0.32	0.31	0.28	0.00	0.31	0.35
TIME	1.44	1.47	1.41	1.50	1.50	1.50	1.57	1.36	1.50	1.51
MAX VEL	0.45	0.45	0.31	0.27	0.32	0.31	0.28	0.27	0.31	0.35
DEPTH	0.10	0.10	0.10	0.11	0.12	0.14	0.15	0.10	0.11	0.13
TIME	1.45	1.48	1.42	1.51	1.51	1.55	1.56	1.39	1.51	1.57

NODE	511	512	513	514	515	516	517	518	519	520

ELEVATION	2710.14	2705.33	2701.58	2697.04	2693.40	2689.97	2684.83	2680.06	2674.94	2669.55
MAX DEPTH	0.14	0.17	0.14	0.14	0.13	0.11	0.12	0.12	0.12	0.16
VELOCITY	0.35	0.34	0.34	0.34	0.28	0.00	0.31	0.32	0.33	0.37
TIME	1.51	1.64	1.60	1.66	1.50	1.35	1.50	1.50	1.50	1.89
MAX VEL	0.35	0.34	0.34	0.34	0.28	0.30	0.31	0.32	0.33	0.37
DEPTH	0.14	0.17	0.14	0.14	0.13	0.11	0.12	0.12	0.12	0.16
TIME	1.57	1.67	1.62	1.67	1.52	1.36	1.51	1.52	1.53	1.90

NODE	521	522	523	524	525	526	527	528	529	530
[illegible]EVATION	2665.12	2660.10	2655.27	2650.21	2646.11	2644.33	2639.64	2634.29	2630.21	2625.20
[illegible]X DEPTH	0.17	0.20	0.27	0.21	0.21	0.11	0.15	0.20	0.21	0.20
[illegible]LOCITY	0.41	0.89	1.00	0.42	0.82	0.00	0.39	0.40	0.44	0.41
[illegible]IME	1.97	1.94	2.08	2.10	2.05	1.32	2.28	2.08	2.10	2.14
MAX VEL	0.41	0.90	1.01	0.85	0.83	0.28	0.39	0.81	0.90	0.83
DEPTH	0.17	0.20	0.27	0.20	0.20	0.10	0.15	0.20	0.19	0.20
TIME	1.98	1.74	2.02	1.96	1.66	1.48	2.29	2.06	2.15	2.43

NODE	531	532	533	534	535	536	537	538	539	540
ELEVATION	2620.97	2616.64	2611.83	2609.77	2605.11	2599.92	2595.42	2590.60	2585.23	2580.23
MAX DEPTH	0.21	0.17	0.23	0.11	0.11	0.13	0.12	0.16	0.20	0.23
VELOCITY	0.80	0.40	0.83	0.30	0.30	0.32	0.32	0.39	0.45	0.73
TIME	2.16	2.25	2.10	2.30	1.50	1.50	1.50	2.19	2.02	2.31
MAX VEL	0.82	0.40	0.84	0.30	0.30	0.32	0.32	0.39	0.91	0.74
DEPTH	0.21	0.17	0.23	0.11	0.11	0.13	0.12	0.16	0.20	0.23
TIME	2.02	2.25	2.16	2.48	1.51	1.51	1.53	2.19	2.03	2.32

NODE	541	542	543	544	545	546	547	548	549	550
ELEVATION	2577.18	2572.35	2569.52	2564.45	2560.20	2555.18	2550.85	2545.41	2542.65	2537.77
MAX DEPTH	0.20	0.24	0.12	0.15	0.20	0.18	0.13	0.20	0.12	0.21
VELOCITY	0.44	0.70	0.33	0.34	0.43	0.35	0.35	0.67	0.32	0.74
TIME	1.65	1.70	2.58	2.55	2.52	2.79	2.93	2.50	2.99	3.05
MAX VEL	0.89	0.71	0.33	0.34	0.75	0.35	0.35	0.67	0.32	0.74
DEPTH	0.20	0.23	0.12	0.15	0.20	0.18	0.13	0.20	0.12	0.21
TIME	1.66	1.75	2.58	2.55	2.52	2.84	2.93	2.40	2.99	3.09

NODE	551	552	553	554	555	556	557	558	559	560
ELEVATION	2534.33	2529.73	2524.82	2520.20	2515.42	2510.28	2505.29	2500.74	2496.40	2490.98
MAX DEPTH	0.11	0.13	0.16	0.20	0.21	0.28	0.29	0.28	0.27	0.54
VELOCITY	0.29	0.34	0.38	0.44	0.92	1.11	1.07	1.02	1.13	0.68
TIME	1.50	2.83	2.85	2.23	2.68	1.97	1.90	2.25	2.78	2.81
MAX VEL	0.29	0.34	0.38	0.88	0.93	1.12	1.08	1.03	1.14	0.69
DEPTH	0.11	0.13	0.16	0.19	0.21	0.28	0.29	0.28	0.27	0.54
TIME	1.51	2.84	2.18	2.47	2.69	1.98	1.92	2.27	2.63	2.81

NODE	561	562	563	564	565	566	567	568	569	570
ELEVATION	2489.75	2484.07	2480.21	2476.17	2471.79	2467.11	2463.14	2458.17	2455.25	2450.67
MAX DEPTH	0.22	0.24	0.21	0.14	0.20	0.20	0.21	0.28	0.25	0.45
VELOCITY	1.01	0.84	0.37	0.34	0.43	0.40	0.45	0.78	0.98	1.30
TIME	2.97	2.98	2.15	2.95	2.99	2.90	2.84	2.87	3.55	3.51
MAX VEL	1.02	0.85	0.76	0.34	0.87	0.81	0.91	0.80	0.98	1.30
DEPTH	0.22	0.24	0.20	0.14	0.19	0.20	0.20	0.27	0.24	0.45
TIME	2.98	2.95	2.16	3.01	3.00	2.61	2.84	3.07	3.56	3.48

NODE	571	572	573	574	575	576	577	578	579	580
ELEVATION	2447.59	2798.96	2794.15	2790.27	2785.27	2781.09	2778.54	2775.10	2770.23	2762.61
MAX DEPTH	0.51	0.10	0.10	0.12	0.15	0.15	0.11	0.10	0.10	0.11
VELOCITY	1.18	0.00	0.27	0.32	0.36	0.38	0.00	0.00	0.00	0.00
[illegible]IME	3.55	1.38	1.47	1.49	1.50	1.51	1.38	1.30	1.42	1.39
[illegible]VEL	2.59	0.28	0.27	0.32	0.36	0.38	0.30	0.37	0.41	0.46
[illegible]H	0.50	0.10	0.10	0.11	0.15	0.15	0.10	0.10	0.10	0.10
[illegible]E	3.50	1.39	1.48	1.50	1.51	1.52	1.41	1.41	1.43	1.41

NODE	581	582	583	584	585	586	587	588	589	590
ELEVATION	2751.31	2748.40	2744.87	2740.54	2735.91	2740.11	2735.79	2733.27	2728.57	2725.13
MAX DEPTH	1.31	2.33	0.60	0.54	0.91	0.11	0.11	0.11	0.11	0.13
VELOCITY	3.30	3.87	4.36	1.58	5.26	0.00	0.00	0.00	0.00	0.30
TIME	3.90	3.90	3.94	3.83	3.98	1.38	1.35	1.42	1.30	1.50
MAX VEL	3.87	3.99	4.52	4.56	5.36	0.41	0.39	0.36	0.24	0.30
DEPTH	0.48	2.33	0.60	0.51	0.89	0.10	0.10	0.10	0.10	0.13
TIME	3.47	3.93	3.96	3.80	3.98	1.43	1.41	1.43	1.46	1.51

NODE	591	592	593	594	595	596	597	598	599	600
ELEVATION	2721.92	2718.47	2714.36	2709.78	2704.48	2700.17	2695.71	2690.86	2688.21	2683.89
MAX DEPTH	0.12	0.11	0.12	0.13	0.17	0.17	0.17	0.22	0.14	0.13
VELOCITY	0.32	0.28	0.31	0.34	0.36	0.37	0.39	0.34	0.34	0.29
TIME	1.50	1.50	1.50	1.50	1.55	1.83	1.77	1.63	1.91	1.50
MAX VEL	0.32	0.28	0.31	0.34	0.36	0.37	0.39	0.34	0.34	0.29
DEPTH	0.12	0.11	0.12	0.13	0.16	0.17	0.17	0.22	0.14	0.13
TIME	1.51	1.51	1.53	1.51	1.62	1.84	1.80	1.65	1.91	1.51

NODE	601	602	603	604	605	606	607	608	609	610
ELEVATION	2680.03	2674.75	2669.42	2665.14	2659.60	2655.44	2649.41	2644.11	2640.47	2638.12
MAX DEPTH	0.11	0.14	0.22	0.14	0.19	0.18	0.22	0.34	0.47	0.23
VELOCITY	0.31	0.36	0.38	0.36	0.39	0.45	0.99	1.07	0.88	1.05
TIME	1.50	1.68	1.94	1.97	2.11	2.27	2.19	2.16	2.26	1.85
MAX VEL	0.31	0.36	0.38	0.36	0.39	0.45	1.00	1.08	0.88	1.06
DEPTH	0.11	0.14	0.22	0.13	0.19	0.18	0.22	0.33	0.47	0.23
TIME	1.51	1.69	1.95	1.98	2.16	2.27	2.20	2.16	2.27	1.86

NODE	611	612	613	614	615	616	617	618	619	620
ELEVATION	2632.45	2630.13	2624.79	2620.57	2615.44	2611.73	2606.59	2603.00	2599.34	2595.17
MAX DEPTH	0.27	0.13	0.21	0.21	0.22	0.20	0.23	0.21	0.14	0.17
VELOCITY	0.93	0.34	0.66	0.45	0.77	0.45	0.80	0.79	0.34	0.40
TIME	2.35	2.50	2.15	2.21	2.05	2.22	2.30	2.20	2.47	2.47
MAX VEL	0.93	0.34	0.83	0.93	0.79	0.92	0.81	0.79	0.34	0.40
DEPTH	0.27	0.13	0.20	0.20	0.22	0.20	0.23	0.20	0.14	0.17
TIME	2.35	2.50	2.38	2.22	2.06	2.23	2.30	2.21	2.48	2.46

NODE	621	622	623	624	625	626	627	628	629	630
ELEVATION	2590.20	2586.72	2582.71	2577.98	2573.56	2568.48	2563.96	2560.15	2555.18	2550.20
MAX DEPTH	0.20	0.12	0.11	0.11	0.20	0.21	0.25	0.15	0.18	0.20
VELOCITY	0.38	0.30	0.00	0.00	0.44	0.43	0.39	0.37	0.42	0.44
TIME	2.12	2.23	1.39	1.34	2.56	1.75	1.94	2.74	2.84	2.88
MAX VEL	0.75	0.30	0.31	0.28	0.44	0.88	0.68	0.37	0.42	0.89
DEPTH	0.20	0.12	0.11	0.11	0.20	0.21	0.23	0.15	0.18	0.20
[illegible]ME	2.13	2.23	1.41	1.36	2.57	2.43	2.52	2.73	2.84	2.88

[illegible]NODE	631	632	633	634	635	636	637	638	639	640
[illegible]VATION	2545.28	2541.57	2539.02	2533.76	2529.81	2525.14	2520.19	2515.37	2512.34	2508.24
[illegible]AX DEPTH	0.21	0.23	0.11	0.19	0.16	0.14	0.19	0.21	0.14	0.15
VELOCITY	0.79	0.73	0.00	0.36	0.35	0.35	0.43	0.77	0.35	0.39
TIME	2.89	3.00	1.34	1.88	1.98	3.06	3.19	2.32	1.97	2.72
MAX VEL	0.79	0.73	0.30	0.36	0.35	0.35	0.43	0.78	0.35	0.39
DEPTH	0.21	0.22	0.11	0.18	0.15	0.14	0.19	0.21	0.14	0.15
TIME	2.89	2.89	1.36	1.91	2.84	3.07	3.20	2.32	1.97	2.72

	1.44	1.50	1.53	0.11 1.51	0.11 1.51	0.17 1.95	0.21 1.59	0.12 1.61	0.11 1.39	0.22 2.04
NODE	771	772	773	774	775	776	777	778	779	780
ELEVATION	2663.58	2659.87	2655.13	2649.01	2644.81	2640.21	2636.40	2632.58	2628.24	2624.43
MAX DEPTH	0.16	0.11	0.13	0.17	0.17	0.21	0.19	0.15	0.11	0.16
VELOCITY	0.29	0.30	0.36	0.36	0.39	0.38	0.38	0.37	0.28	0.34
TIME	2.15	1.50	1.50	1.59	1.63	1.84	2.05	2.33	2.50	2.50
MAX VEL	0.29	0.30	0.36	0.36	0.38	0.39	0.38	0.37	0.28	0.34
DEPTH	0.16	0.11	0.12	0.17	0.17	0.21	0.19	0.15	0.11	0.16
TIME	2.10	1.53	1.53	1.61	1.79	1.95	2.14	2.35	1.31	2.53
NODE	781	782	783	784	785	786	787	788	789	790
ELEVATION	2620.61	2615.15	2610.87	2605.21	2602.15	2598.20	2594.02	2589.76	2585.74	2580.46
MAX DEPTH	0.16	0.15	0.12	0.21	0.23	0.20	0.19	0.20	0.20	0.22
VELOCITY	0.39	0.32	0.34	0.34	0.78	0.39	0.40	0.39	0.46	0.80
TIME	2.57	2.71	3.00	1.60	1.98	2.09	2.47	2.23	2.39	2.20
MAX VEL	0.39	0.32	0.34	0.72	0.80	0.77	0.40	0.80	0.93	0.80
DEPTH	0.16	0.15	0.12	0.21	0.20	0.20	0.19	0.20	0.19	0.21
TIME	2.59	2.87	3.01	1.90	2.09	2.27	2.46	2.39	2.39	2.21
NODE	791	792	793	794	795	796	797	798	799	800
ELEVATION	2576.67	2570.94	2565.30	2561.85	2558.87	2555.14	2550.22	2547.21	2542.67	2538.58
MAX DEPTH	0.15	0.29	0.30	0.27	0.22	0.14	0.22	0.11	0.11	0.11
VELOCITY	0.39	1.21	0.93	0.79	0.84	0.35	0.37	0.29	0.31	0.00
TIME	2.54	2.32	2.43	2.50	2.65	2.84	1.74	3.00	1.50	1.41
MAX VEL	0.39	1.22	0.93	0.79	0.84	0.35	0.77	0.29	0.31	0.32
DEPTH	0.15	0.29	0.29	0.27	0.22	0.14	0.21	0.11	0.11	0.11
TIME	2.82	2.33	2.50	2.51	2.66	2.84	2.87	3.00	1.52	1.42
NODE	801	802	803	804	805	806	807	808	809	810
ELEVATION	2535.11	2530.16	2525.29	2520.96	2516.85	2513.92	2509.95	2505.01	2500.11	2495.14
MAX DEPTH	0.11	0.16	0.16	0.12	0.15	0.11	0.10	0.12	0.11	0.13
VELOCITY	0.00	0.37	0.32	0.29	0.31	0.00	0.00	0.31	0.30	0.33
TIME	1.36	2.84	3.18	3.36	3.46	1.42	1.30	1.50	1.49	1.50
MAX VEL	0.29	0.38	0.32	0.29	0.31	0.26	0.29	0.31	0.30	0.33
DEPTH	0.10	0.16	0.16	0.12	0.15	0.11	0.10	0.12	0.11	0.12
TIME	1.50	3.06	3.26	3.37	3.47	1.43	1.58	1.51	1.51	1.51
NODE	811	812	813	814	815	816	817	818	819	820
ELEVATION	2490.14	2485.17	2481.13	2476.32	2470.89	2466.52	2462.23	2457.15	2453.32	2450.13
MAX DEPTH	0.14	0.17	0.16	0.11	0.13	0.11	0.18	0.18	0.20	0.13
VELOCITY	0.36	0.35	0.35	0.32	0.30	0.29	0.42	0.36	0.37	0.31
TIME	1.54	1.66	1.79	1.50	1.50	1.50	2.18	2.30	2.39	2.50
MAX VEL	0.36	0.35	0.35	0.32	0.30	0.28	0.42	0.36	0.37	0.31
DEPTH	0.14	0.17	0.16	0.11	0.13	0.11	0.18	0.18	0.20	0.13
TIME	1.58	1.70	1.80	1.52	1.52	1.53	2.20	2.36	2.40	2.59
NODE	821	822	823	824	825	826	827	828	829	830
ELEVATION	2445.62	2443.04	2794.19	2789.55	2784.33	2780.13	2775.14	2770.14	2765.17	2760.21
MAX DEPTH	0.12	0.52	0.10	0.11	0.12	0.13	0.14	0.14	0.14	0.21
VELOCITY	0.28	1.27	0.00	0.00	0.30	0.34	0.35	0.37	0.39	0.43
TIME	2.84	3.59	1.41	1.34	1.50	1.50	1.50	1.53	1.64	1.59
MAX VEL	0.28	3.11	0.28	0.30	0.30	0.34	0.35	0.37	0.39	0.89
DEPTH	0.12	0.46	0.10	0.10	0.12	0.13	0.14	0.14	0.14	0.21
TIME	1.51	2.98	1.38	1.36	1.51	1.53	1.53	1.54	1.66	1.50
NODE	831	832	833	834	835	836	837	838	839	840
ELEVATION	2757.31	2755.31	2751.62	2748.44	2745.10	2739.29	2731.51	2726.98	2725.24	2720.53
MAX DEPTH	0.14	0.11	0.11	0.11	0.10	0.10	0.20	0.31	0.24	0.53
VELOCITY	0.36	0.00	0.00	0.00	0.00	0.00	0.43	0.82	0.98	1.36
TIME	1.51	1.41	1.32	1.36	1.47	1.34	4.02	4.06	3.87	4.06
MAX VEL	0.36	0.32	0.30	0.31	0.31	0.36	0.86	0.83	0.98	3.88
DEPTH	0.14	0.10	0.10	0.10	0.10	0.10	0.20	0.31	0.24	0.50
TIME	1.52	1.42	1.39	1.49	1.48	1.39	4.03	4.06	3.88	3.91
NODE	841	842	843	844	845	846	847	848	849	850
ELEVATION	2717.04	2713.97	2707.61	2705.61	2705.14	2700.16	2695.29	2692.97	2688.40	2685.11
MAX DEPTH	0.74	0.90	1.05	0.61	0.14	0.20	0.21	0.11	0.20	0.11
VELOCITY	4.42	7.36	4.21	4.20	0.40	0.45	0.79	0.00	0.47	0.28
TIME	4.05	4.06	4.06	4.11	4.20	4.17	4.24	1.30	4.18	4.32
MAX VEL	4.52	7.36	4.27	4.22	0.40	0.91	0.79	0.31	0.95	0.29
DEPTH	0.72	0.90	1.05	0.61	0.14	0.20	0.21	0.10	0.20	0.10
TIME	4.06	4.06	4.07	4.07	4.21	4.25	4.24	1.57	4.18	1.35
NODE	851	852	853	854	855	856	857	858	859	860
ELEVATION	2681.38	2678.32	2674.54	2667.92	2662.97	2658.91	2654.38	2648.93	2645.11	2640.83
MAX DEPTH	0.11	0.11	0.11	0.11	0.13	0.13	0.12	0.13	0.11	0.11
VELOCITY	0.00	0.30	0.00	0.30	0.30	0.31	0.33	0.30	0.28	0.31
TIME	1.36	1.39	1.34	1.45	1.50	1.50	1.50	1.50	1.50	1.50
MAX VEL	0.27	0.30	0.34	0.30	0.30	0.32	0.33	0.30	0.28	0.31
DEPTH	0.10	0.10	0.10	0.11	0.13	0.13	0.12	0.13	0.11	0.11
TIME	1.38	1.42	1.47	1.45	1.52	1.52	1.53	1.52	1.51	1.51
NODE	861	862	863	864	865	866	867	868	869	870
ELEVATION	2635.69	2630.78	2625.24	2621.94	2620.11	2614.58	2610.17	2605.86	2601.92	2598.05
MAX DEPTH	0.17	0.20	0.24	0.29	0.11	0.16	0.17	0.11	0.13	0.12
VELOCITY	0.40	0.47	0.81	0.70	0.32	0.36	0.34	0.28	0.28	0.33
TIME	1.91	2.10	2.08	1.83	2.53	2.72	2.84	1.50	1.50	2.50
MAX VEL	0.40	0.95	0.82	0.70	0.32	0.36	0.34	0.28	0.28	0.33
DEPTH	0.17	0.20	0.23	0.28	0.11	0.16	0.17	0.11	0.12	0.12
TIME	2.06	2.11	2.09	1.83	2.54	2.73	2.84	1.52	1.52	2.50
NODE	871	872	873	874	875	876	877	878	879	880
ELEVATION	2593.01	2589.02	2584.87	2580.10	2575.57	2571.94	2567.33	2562.61	2558.78	2553.41
MAX DEPTH	0.20	0.22	0.20	0.20	0.23	0.11	0.20	0.18	0.20	0.27
VELOCITY	0.40	0.40	0.44	0.43	0.80	0.29	0.42	0.37	0.47	0.79
TIME	2.16	2.22	2.80	2.77	2.42	2.54	2.73	2.79	3.20	2.60
MAX VEL	0.81	0.82	0.88	0.87	0.80	0.29	0.42	0.37	0.93	0.79
DEPTH	0.20	0.20	0.20	0.20	0.23	0.11	0.19	0.18	0.20	0.27
TIME	2.16	2.46	2.81	2.81	2.43	2.55	2.73	2.79	3.20	2.60
NODE	881	882	883	884	885	886	887	888	889	890
ELEVATION	2550.20	2545.33	2540.37	2535.31	2530.68	2530.07	2525.12	2520.21	2515.21	2512.06
MAX DEPTH	0.20	0.22	0.26	0.31	0.42	0.13	0.12	0.19	0.21	0.17
VELOCITY	0.44	0.94	1.07	1.15	0.80	0.37	0.31	0.44	0.36	0.34
TIME	3.90	2.49	3.12	3.14	3.20	3.25	3.38	3.41	2.40	3.58
MAX VEL	0.89	0.95	1.07	1.16	0.80	0.37	0.31	0.44	0.72	0.34
DEPTH	0.20	0.22	0.26	0.31	0.42	0.13	0.12	0.19	0.20	0.17
TIME	2.61	2.50	3.12	3.14	3.25	3.25	3.38	3.41	2.43	3.59
NODE	891	892	893	894	895	896	897	898	899	900
ATION	2508.36	2504.92	2498.93	2495.12	2490.32	2485.14	2481.48	2475.23	2470.17	2465.18
DEPTH	0.14	0.11	0.17	0.12	0.12	0.14	0.11	0.17	0.17	0.18
VELOCITY	0.30	0.32	0.32	0.32	0.33	0.30	0.33	0.40	0.40	0.37

TIME	3.73	1.50	1.57	1.50	1.50	1.51	1.50	1.81	1.83	1.89
MAX VEL	0.30	0.32	0.31	0.32	0.32	0.30	0.33	0.40	0.40	0.37
DEPTH	0.14	0.11	0.17	0.12	0.12	0.14	0.11	0.17	0.17	0.18
TIME	3.74	1.32	1.59	1.51	1.53	1.53	1.51	1.82	1.83	1.92

NODE	901	902	903	904	905	906	907	908	909	910
ELEVATION	2460.82	2456.74	2452.04	2448.25	2445.20	2440.89	2440.85	2790.30	2787.16	2783.07
MAX DEPTH	0.16	0.19	0.21	0.22	0.20	0.89	4.00	0.10	0.10	0.11
VELOCITY	0.35	0.43	0.39	0.34	0.45	0.75	0.29	0.00	0.00	0.00
TIME	2.05	2.20	1.56	1.65	1.92	3.29	3.31	1.34	1.49	1.31
AX VEL	0.35	0.43	0.79	0.71	0.90	1.16	0.99	0.27	0.31	0.30
PTH	0.16	0.19	0.20	0.20	0.20	0.84	0.50	0.10	0.10	0.10
IME	2.04	2.26	1.59	2.22	2.22	3.65	2.10	1.35	1.36	1.41

NODE	911	912	913	914	915	916	917	918	919	920
ELEVATION	2778.77	2774.07	2768.99	2762.40	2756.65	2753.60	2750.21	2746.90	2744.32	2740.13
MAX DEPTH	0.11	0.12	0.13	0.18	0.24	0.23	0.21	0.14	0.11	0.11
VELOCITY	0.30	0.32	0.38	0.45	0.75	0.92	0.46	0.34	0.28	0.25
TIME	1.50	1.50	1.50	1.63	1.48	1.50	1.57	1.51	1.35	1.50
MAX VEL	0.30	0.32	0.38	0.45	0.80	0.95	0.93	0.34	0.29	0.25
DEPTH	0.11	0.12	0.13	0.18	0.23	0.22	0.20	0.14	0.11	0.11
TIME	1.51	1.53	1.53	1.64	1.56	1.54	1.58	1.51	1.36	1.51

NODE	921	922	923	924	925	926	927	928	929	930
ELEVATION	2737.19	2734.08	2725.58	2722.78	2720.20	2718.10	2715.20	2711.77	2704.23	2700.68
MAX DEPTH	0.11	0.10	0.23	0.23	0.20	0.17	0.20	0.34	0.85	0.68
VELOCITY	0.28	0.00	0.72	0.99	0.44	0.41	0.46	1.56	4.81	4.47
TIME	1.42	1.36	4.09	4.13	4.08	4.16	4.05	4.09	4.08	4.12
MAX VEL	0.28	0.38	0.73	0.99	0.89	0.41	0.93	1.56	4.92	4.61
DEPTH	0.11	0.10	0.23	0.23	0.20	0.17	0.20	0.34	0.84	0.67
TIME	1.42	1.38	4.12	4.14	4.00	4.16	4.09	4.09	4.10	4.15

NODE	931	932	933	934	935	936	937	938	939	940
ELEVATION	2696.46	2693.02	2690.24	2685.40	2680.51	2679.41	2675.38	2671.00	2666.35	2661.52
MAX DEPTH	0.56	0.68	0.52	0.40	0.51	0.18	0.11	0.11	0.11	0.20
VELOCITY	3.95	3.32	1.51	1.41	1.52	0.46	0.00	0.00	0.00	0.44
TIME	4.06	3.87	4.17	4.18	4.23	4.29	1.44	1.50	1.35	3.72
MAX VEL	4.00	3.65	4.00	1.41	4.24	0.46	0.35	0.32	0.29	0.89
DEPTH	0.55	0.65	0.49	0.40	0.48	0.18	0.10	0.10	0.10	0.20
TIME	4.06	4.06	4.01	4.19	4.40	4.29	1.35	1.36	1.43	2.59

NODE	941	942	943	944	945	946	947	948	949	950
ELEVATION	2657.47	2652.59	2647.48	2643.28	2640.20	2635.59	2631.16	2626.61	2622.69	2618.33
MAX DEPTH	0.20	0.20	0.23	0.29	0.20	0.20	0.14	0.13	0.11	0.18
VELOCITY	0.44	0.45	0.90	0.98	0.42	0.39	0.32	0.28	0.00	0.41
TIME	3.90	3.82	4.35	4.40	5.58	4.40	4.63	4.88	1.36	1.91
MAX VEL	0.91	0.92	0.90	0.98	0.86	0.78	0.32	0.28	0.29	0.41
DEPTH	0.20	0.20	0.23	0.29	0.20	0.20	0.14	0.13	0.11	0.18
TIME	3.80	3.83	4.33	4.40	4.54	4.38	4.63	4.87	1.39	1.92

NODE	951	952	953	954	955	956	957	958	959	960
ELEVATION	2613.21	2610.15	2605.14	2600.20	2596.64	2593.13	2588.88	2584.63	2580.11	2575.15
MAX DEPTH	0.14	0.15	0.14	0.20	0.20	0.11	0.11	0.12	0.11	0.15
VELOCITY	0.30	0.37	0.36	0.38	0.42	0.00	0.28	0.30	0.30	0.33
TIME	2.59	4.83	4.88	4.74	4.75	1.30	1.50	2.55	1.50	3.00
MAX VEL	0.30	0.37	0.36	0.75	0.42	0.29	0.28	0.30	0.30	0.33
DEPTH	0.14	0.15	0.14	0.20	0.20	0.11	0.11	0.12	0.11	0.15
TIME	2.59	4.84	4.91	4.69	4.75	1.31	1.51	2.55	1.53	2.84

NODE	961	962	963	964	965	966	967	968	969	970
EVATION	2571.12	2566.78	2561.71	2557.45	2554.26	2550.19	2545.20	2540.70	2538.09	2533.52
X DEPTH	0.23	0.13	0.15	0.20	0.15	0.19	0.20	0.20	0.11	0.12
VELOCITY	0.38	0.33	0.35	0.68	0.33	0.44	0.42	0.79	0.00	0.34
TIME	2.65	2.93	2.92	2.99	3.28	3.01	3.11	3.12	1.38	3.23
MAX VEL	0.66	0.33	0.35	0.69	0.33	0.44	0.85	0.79	0.31	0.34
DEPTH	0.22	0.13	0.15	0.20	0.15	0.19	0.20	0.20	0.10	0.12
TIME	2.67	3.01	2.92	3.00	3.28	3.05	3.17	3.12	1.39	3.24

NODE	971	972	973	974	975	976	977	978	979	980
ELEVATION	2527.64	2521.14	2520.14	2515.17	2510.71	2507.23	2503.34	2498.93	2494.44	2490.11
MAX DEPTH	0.22	0.31	0.14	0.17	0.20	0.18	0.15	0.12	0.12	0.11
VELOCITY	1.08	0.69	0.35	0.38	0.40	0.35	0.32	0.35	0.32	0.00
TIME	3.26	3.36	3.48	3.61	2.67	3.51	3.71	1.50	1.50	1.30
MAX VEL	1.08	0.69	0.35	0.38	0.79	0.35	0.32	0.35	0.32	0.29
DEPTH	0.22	0.31	0.14	0.17	0.20	0.18	0.15	0.12	0.12	0.11
TIME	3.27	3.39	3.49	3.63	3.00	3.72	3.77	1.51	1.52	1.51

NODE	981	982	983	984	985	986	987	988	989	990
ELEVATION	2485.12	2480.18	2475.13	2470.15	2465.14	2460.19	2456.47	2453.49	2447.68	2445.19
MAX DEPTH	0.12	0.18	0.13	0.14	0.14	0.19	0.18	0.11	0.23	0.18
VELOCITY	0.32	0.37	0.33	0.36	0.36	0.36	0.35	0.00	0.37	0.42
TIME	1.50	1.66	1.50	1.90	1.59	1.92	2.00	1.42	1.79	2.13
MAX VEL	0.32	0.38	0.33	0.36	0.36	0.36	0.35	0.32	0.54	0.42
DEPTH	0.12	0.18	0.13	0.14	0.14	0.19	0.18	0.11	0.21	0.18
TIME	1.53	1.70	1.51	1.92	1.61	2.07	2.01	1.43	1.88	2.14

NODE	991	992	993	994	995	996	997	998	999	1000
ELEVATION	2440.74	2440.76	2788.40	2784.04	2779.04	2775.74	2771.84	2767.18	2762.44	2757.23
MAX DEPTH	0.74	5.76	0.10	0.11	0.13	0.12	0.11	0.12	0.11	0.11
VELOCITY	1.05	0.82	0.00	0.00	0.33	0.35	0.33	0.31	0.00	0.32
TIME	3.27	3.28	1.35	1.32	1.50	1.50	1.50	1.50	1.30	1.50
MAX VEL	1.06	1.24	0.29	0.30	0.33	0.35	0.33	0.31	0.30	0.32
DEPTH	0.73	5.72	0.10	0.10	0.13	0.12	0.11	0.11	0.11	0.11
TIME	5.11	3.30	1.42	1.34	1.51	1.52	1.52	1.52	1.51	1.51

NODE	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010
ELEVATION	2751.76	2746.90	2742.82	2740.21	2737.69	2734.92	2730.47	2726.60	2721.68	2715.45
MAX DEPTH	0.21	0.25	0.24	0.21	0.12	0.11	0.11	0.10	0.14	0.45
VELOCITY	0.91	0.92	0.78	0.45	0.34	0.00	0.00	0.00	0.40	0.70
TIME	1.55	1.59	1.59	1.66	1.50	1.38	1.38	1.41	1.52	4.24
MAX VEL	0.90	0.92	0.81	0.92	0.34	0.32	0.28	0.29	0.40	0.70
DEPTH	0.21	0.24	0.24	0.20	0.12	0.11	0.10	0.10	0.14	0.44
TIME	1.59	1.60	1.66	1.66	1.51	1.39	1.39	1.42	1.53	4.24

NODE	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020
ELEVATION	2713.96	2710.45	2708.99	2705.66	2700.15	2695.64	2692.94	2689.60	2684.75	2679.21
X DEPTH	0.25	0.23	0.20	0.16	0.53	0.64	0.52	0.60	0.55	0.66
OCITY	0.97	1.03	0.50	0.40	1.57	4.07	1.35	4.59	4.76	5.04
E	4.21	4.26	4.15	4.20	4.08	4.05	4.07	4.12	3.95	4.13
. VEL	0.97	1.03	0.99	0.40	4.35	4.20	3.74	4.67	5.03	5.23
DEPTH	0.25	0.23	0.20	0.16	0.46	0.62	0.49	0.59	0.53	0.66
TIME	4.21	4.26	4.22	4.20	5.55	4.03	4.22	4.12	3.99	4.15

NODE	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030
ELEVATION	2674.48	2670.71	2665.85	2663.04	2660.52	2654.85	2650.56	2645.43	2643.46	2638.01

MAX DEPTH	0.77	0.71	0.85	0.72	0.52	0.62	0.56	0.43	0.20	0.28
VELOCITY	4.84	5.45	4.29	1.22	1.77	1.52	1.51	1.38	0.47	1.13
TIME	4.13	4.19	4.19	3.73	3.98	3.83	3.85	4.34	4.32	4.39
MAX VEL	4.95	5.50	4.37	3.62	4.86	4.42	4.13	1.38	0.97	1.13
DEPTH	0.76	0.71	0.84	0.72	0.50	0.57	0.54	0.43	0.20	0.28
TIME	4.14	4.20	4.21	3.94	3.98	4.27	4.30	4.34	3.87	4.39

NODE	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040
ELEVATION	2635.20	2630.20	2625.40	2620.72	2616.03	2611.61	2608.47	2604.17	2598.92	2595.22
MAX DEPTH	0.20	0.20	0.11	0.11	0.11	0.35	0.24	0.25	0.27	0.22
[illegible]LOCITY	0.57	0.51	0.00	0.00	0.29	0.91	0.93	1.06	0.85	0.95
[illegible]ME	4.31	4.40	1.35	1.34	1.50	4.74	4.25	4.21	4.20	4.85
[illegible]X VEL	1.17	1.04	0.36	0.32	0.29	0.91	0.94	1.07	0.86	0.95
DEPTH	0.20	0.20	0.10	0.11	0.11	0.35	0.24	0.25	0.27	0.22
TIME	5.08	4.40	1.36	1.43	1.51	4.76	4.25	4.21	4.20	4.85

NODE	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050
ELEVATION	2590.23	2586.38	2582.93	2578.53	2573.62	2570.17	2565.17	2560.26	2557.38	2554.36
MAX DEPTH	0.23	0.20	0.20	0.20	0.20	0.17	0.17	0.20	0.12	0.12
VELOCITY	0.82	0.84	0.44	0.44	0.47	0.45	0.39	0.38	0.30	0.28
TIME	4.33	4.39	4.42	4.82	4.72	4.80	4.91	4.83	3.25	5.21
MAX VEL	0.82	0.84	0.89	0.88	0.94	0.45	0.39	0.76	0.30	0.28
DEPTH	0.23	0.20	0.20	0.20	0.20	0.17	0.17	0.20	0.12	0.12
TIME	4.83	5.70	4.42	4.82	4.83	4.80	4.91	4.62	3.26	5.21

NODE	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060
ELEVATION	2550.11	2545.14	2540.88	2536.34	2531.97	2527.11	2523.04	2518.26	2515.12	2510.17
MAX DEPTH	0.11	0.14	0.12	0.14	0.13	0.13	0.12	0.23	0.12	0.17
VELOCITY	0.30	0.29	0.30	0.31	0.32	0.31	0.31	0.45	0.32	0.39
TIME	1.50	5.34	1.49	1.50	1.50	1.50	5.75	3.09	3.10	3.47
MAX VEL	0.30	0.30	0.30	0.31	0.32	0.31	0.31	0.72	0.32	0.39
DEPTH	0.11	0.13	0.12	0.13	0.12	0.13	0.12	0.22	0.12	0.17
TIME	1.51	1.52	1.50	1.52	1.51	1.51	5.76	3.09	3.10	3.47

NODE	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070
ELEVATION	2505.23	2502.37	2498.27	2490.56	2487.33	2483.56	2480.11	2474.58	2470.16	2465.14
MAX DEPTH	0.23	0.17	0.14	0.22	0.23	0.24	0.11	0.15	0.11	0.14
VELOCITY	0.35	0.36	0.43	0.74	0.82	0.61	0.32	0.36	0.31	0.36
TIME	1.71	3.73	3.83	1.48	1.55	1.61	1.65	1.86	1.50	1.91
MAX VEL	0.72	0.36	0.43	0.75	0.84	0.81	0.32	0.36	0.31	0.36
DEPTH	0.22	0.17	0.14	0.21	0.22	0.21	0.11	0.15	0.11	0.14
TIME	3.54	3.76	3.83	1.52	1.59	1.72	1.66	1.87	1.52	1.92

NODE	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080
ELEVATION	2460.17	2455.90	2451.46	2447.00	2445.11	2440.59	2440.41	2785.86	2781.07	2776.63
MAX DEPTH	0.17	0.21	0.18	0.25	0.11	0.59	0.41	0.10	0.11	0.12
VELOCITY	0.37	0.41	0.39	0.68	0.30	1.37	1.46	0.00	0.00	0.34
TIME	1.98	1.79	1.93	1.83	1.91	3.24	3.68	1.42	1.46	1.49
MAX VEL	0.37	0.78	0.39	0.68	0.30	3.71	1.46	0.28	0.30	0.34
DEPTH	0.17	0.20	0.18	0.25	0.11	0.53	0.40	0.10	0.10	0.12
TIME	1.95	1.82	2.03	1.83	1.91	3.29	3.70	1.34	1.47	1.50

NODE	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090
ELEVATION	2772.32	2767.61	2763.73	2760.11	2755.59	2751.31	2745.51	2741.54	2738.05	2732.98
MAX DEPTH	0.14	0.15	0.14	0.11	0.11	0.11	0.20	0.23	0.22	0.23
VELOCITY	0.37	0.36	0.38	0.33	0.31	0.00	0.39	0.81	0.96	0.87
TIME	1.50	1.50	1.50	1.50	1.49	1.57	1.83	1.66	1.68	1.62
MAX VEL	0.37	0.36	0.38	0.33	0.31	0.32	0.39	0.87	0.96	0.88
[illegible]PTH	0.14	0.15	0.14	0.11	0.11	0.10	0.20	0.21	0.21	0.22
[illegible]ME	1.52	1.53	1.52	1.51	1.50	1.58	1.85	1.71	1.69	1.66

NODE	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100
ELEVATION	2730.20	2726.87	2723.95	2721.07	2718.65	2713.69	2707.72	2702.86	2700.36	2700.10
MAX DEPTH	0.20	0.15	0.12	0.11	0.11	0.19	0.30	0.46	0.36	0.10
VELOCITY	0.69	0.30	0.30	0.00	0.00	0.47	1.16	1.01	1.01	0.00
TIME	1.73	1.52	1.48	1.42	1.32	4.36	4.26	4.24	4.34	1.35
MAX VEL	0.81	0.30	0.30	0.27	0.29	0.47	1.16	1.02	1.02	0.34
DEPTH	0.20	0.15	0.12	0.10	0.10	0.19	0.30	0.46	0.36	0.10
TIME	1.82	1.53	1.49	1.32	1.42	4.36	4.26	4.30	4.39	1.41

NODE	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110
ELEVATION	2695.21	2690.63	2688.39	2685.21	2680.27	2675.55	2672.33	2668.37	2664.02	2660.50
MAX DEPTH	0.21	0.63	0.33	0.23	0.27	0.28	0.47	0.25	0.46	0.50
VELOCITY	0.92	1.87	1.17	0.96	1.05	0.92	1.50	0.96	1.31	1.57
TIME	4.06	3.97	4.18	4.17	4.22	4.23	4.19	4.22	4.23	4.31
MAX VEL	0.93	3.88	1.17	0.96	1.05	0.93	1.50	0.96	1.31	4.00
DEPTH	0.21	0.54	0.33	0.23	0.27	0.28	0.47	0.25	0.46	0.49
TIME	4.06	4.12	4.18	4.17	4.22	4.24	4.19	4.22	4.23	4.31

NODE	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120
ELEVATION	2655.42	2652.21	2644.96	2639.41	2635.62	2630.63	2623.66	2620.83	2616.19	2615.55
MAX DEPTH	0.42	0.23	0.54	0.65	0.62	0.56	1.11	0.83	1.51	0.55
VELOCITY	1.22	1.18	4.85	4.44	4.81	5.61	3.99	4.65	2.55	1.39
TIME	4.32	4.28	4.31	4.33	4.34	4.35	4.41	4.35	4.45	4.24
MAX VEL	1.23	1.18	4.94	4.52	4.98	5.67	4.07	4.72	2.57	3.78
DEPTH	0.42	0.23	0.54	0.65	0.62	0.56	1.09	0.82	1.51	0.50
TIME	4.42	4.29	4.31	4.33	4.36	4.35	4.45	4.33	4.47	4.44

NODE	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130
ELEVATION	2611.82	2607.83	2604.62	2599.47	2595.20	2590.23	2585.35	2580.37	2576.09	2571.77
MAX DEPTH	0.25	0.28	0.20	0.20	0.20	0.23	0.35	0.37	0.30	0.30
VELOCITY	0.98	1.14	0.51	0.45	0.45	0.97	1.26	1.16	1.08	1.27
TIME	4.51	4.58	4.78	4.97	5.72	4.33	4.41	4.53	4.56	4.53
MAX VEL	0.98	1.14	1.02	0.91	0.90	0.97	1.28	1.16	1.08	1.27
DEPTH	0.25	0.28	0.20	0.20	0.20	0.23	0.34	0.37	0.30	0.30
TIME	4.43	4.58	4.78	4.68	5.72	4.33	4.43	4.54	4.55	4.54

NODE	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140
ELEVATION	2565.86	2561.06	2560.20	2555.30	2551.51	2548.89	2545.05	2540.12	2535.20	2531.07
MAX DEPTH	0.35	0.44	0.20	0.30	0.24	0.20	0.11	0.12	0.20	0.20
VELOCITY	1.26	1.08	0.44	0.98	0.98	0.49	0.00	0.32	0.43	0.42
TIME	4.73	4.81	4.79	4.82	4.93	5.07	1.39	5.28	5.08	5.39
MAX VEL	1.26	1.08	0.89	0.99	0.98	0.98	0.31	0.32	0.87	0.42
DEPTH	0.34	0.44	0.20	0.30	0.24	0.20	0.10	0.12	0.20	0.20
TIME	4.73	4.81	4.79	4.83	4.93	5.07	1.41	5.29	5.52	5.40

[illegible]NODE	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150
[illegible]VATION	2526.68	2522.06	2517.14	2513.68	2509.78	2505.15	2500.98	2496.74	2492.11	2487.71
DEPTH	0.20	0.20	0.23	0.20	0.14	0.15	0.21	0.16	0.11	0.12
[illegible]OCITY	0.40	0.45	0.75	0.77	0.33	0.33	0.39	0.37	0.28	0.27
TIME	5.09	5.67	5.03	5.51	3.47	3.54	1.80	3.79	2.50	5.83
MAX VEL	0.86	0.90	0.76	0.77	0.33	0.33	0.80	0.37	0.28	0.28
DEPTH	0.20	0.20	0.21	0.20	0.14	0.15	0.20	0.16	0.11	0.12
TIME	5.25	5.67	5.38	5.52	3.48	3.54	2.91	3.83	2.50	1.53

NODE	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160
ELEVATION	2483.74	2478.05	2473.70	2467.54	2465.12	2460.59	2456.25	2450.72	2447.80	2443.56
MAX DEPTH	0.11	0.20	0.14	0.26	0.12	0.13	0.12	0.20	0.12	0.24
VELOCITY	0.33	0.41	0.39	0.72	0.31	0.30	0.33	0.39	0.30	0.65
TIME	1.50	1.72	1.91	2.45	2.50	2.02	1.91	2.02	2.35	1.70
MAX VEL	0.33	0.83	0.39	0.76	0.31	0.30	0.33	0.79	0.30	0.77
DEPTH	0.11	0.20	0.14	0.25	0.12	0.13	0.12	0.20	0.12	0.22
TIME	1.51	1.93	1.93	2.00	2.01	2.02	1.92	2.03	2.37	1.77

NODE	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170
EVATION	2440.21	2435.74	2433.06	2782.63	2778.86	2773.85	2768.82	2764.59	2760.65	2755.54
X DEPTH	0.21	0.54	1.00	0.10	0.11	0.12	0.14	0.15	0.14	0.18
ELOCITY	0.87	1.21	2.04	0.00	0.00	0.33	0.37	0.38	0.37	0.39
TIME	3.33	3.45	3.75	1.38	1.30	1.49	1.50	1.53	1.59	1.61
MAX VEL	0.87	3.51	2.06	0.30	0.30	0.33	0.37	0.39	0.37	0.39
DEPTH	0.20	0.51	0.99	0.10	0.10	0.12	0.14	0.15	0.14	0.17
TIME	3.24	3.29	3.77	1.39	1.35	1.50	1.52	1.54	1.60	1.67

NODE	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180
ELEVATION	2752.14	2747.96	2743.71	2740.12	2735.18	2731.16	2727.31	2724.45	2721.31	2717.30
MAX DEPTH	0.14	0.13	0.13	0.12	0.21	0.24	0.26	0.21	0.11	0.13
VELOCITY	0.32	0.34	0.32	0.35	0.40	0.89	1.01	0.51	0.33	0.34
TIME	1.56	1.50	1.50	1.83	1.79	1.71	1.73	1.75	1.50	1.50
MAX VEL	0.32	0.34	0.32	0.35	0.82	0.87	1.03	1.05	0.33	0.34
DEPTH	0.14	0.13	0.13	0.12	0.20	0.23	0.25	0.20	0.11	0.13
TIME	1.52	1.51	1.51	1.84	1.80	1.75	1.77	1.76	1.51	1.51

NODE	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190
ELEVATION	2715.08	2711.62	2708.36	2703.17	2699.65	2695.26	2690.39	2690.17	2685.60	2682.25
MAX DEPTH	0.11	0.11	0.10	0.18	0.30	0.26	0.39	0.17	0.60	0.40
VELOCITY	0.00	0.00	0.00	0.35	1.04	1.05	1.16	0.41	1.37	1.34
TIME	1.44	1.38	1.39	4.48	4.34	4.46	4.46	3.98	4.07	4.12
MAX VEL	0.30	0.28	0.30	0.35	1.05	1.05	1.16	0.41	1.38	1.34
DEPTH	0.10	0.10	0.10	0.18	0.30	0.26	0.39	0.17	0.56	0.40
TIME	1.45	1.41	1.47	4.49	4.43	4.46	4.49	3.99	4.22	4.12

NODE	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200
ELEVATION	2680.20	2675.21	2671.85	2667.32	2662.63	2660.06	2655.57	2650.37	2648.04	2642.49
MAX DEPTH	0.20	0.21	0.22	0.24	0.30	0.22	0.24	0.37	0.17	0.20
VELOCITY	0.45	0.76	0.92	0.99	1.01	0.95	1.05	1.18	0.44	0.46
TIME	4.16	4.16	4.06	4.28	4.30	4.33	4.11	4.27	4.39	4.33
MAX VEL	0.90	0.77	0.92	0.99	1.02	0.95	1.04	1.18	0.44	0.93
DEPTH	0.20	0.21	0.22	0.24	0.30	0.22	0.24	0.37	0.17	0.20
TIME	4.17	4.17	4.06	4.28	4.35	4.33	4.14	4.27	4.43	4.18

NODE	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210
ELEVATION	2637.19	2632.49	2628.15	2624.59	2620.20	2615.41	2610.55	2605.54	2600.53	2595.59
MAX DEPTH	0.20	0.24	0.23	0.11	0.20	0.51	0.55	0.54	0.53	0.59
VELOCITY	0.88	1.11	1.01	0.00	0.44	1.62	1.65	1.64	4.51	3.81
TIME	4.33	4.38	4.41	1.32	4.47	4.29	4.51	4.39	4.49	4.49
MAX VEL	0.88	1.12	1.01	0.34	0.89	4.44	4.60	4.55	4.62	3.83
DEPTH	0.20	0.24	0.23	0.10	0.20	0.49	0.52	0.51	0.51	0.59
TIME	4.26	4.38	4.41	1.34	4.45	4.42	4.51	4.59	4.52	4.49

NODE	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220
ELEVATION	2592.45	2588.94	2585.23	2580.30	2575.91	2572.18	2568.06	2562.53	2557.38	2555.22
MAX DEPTH	0.68	0.61	0.23	0.21	0.23	0.20	0.20	0.23	0.54	0.22
VELOCITY	1.43	1.56	1.12	0.88	0.86	0.42	0.47	1.00	0.90	0.93
ME	4.33	4.40	4.41	4.54	4.49	4.53	4.75	4.67	4.81	4.88
X VEL	3.94	4.26	1.13	0.88	0.86	0.86	0.95	1.00	0.90	0.93
PTH	0.64	0.56	0.23	0.21	0.23	0.20	0.20	0.23	0.54	0.22
IME	4.35	4.58	4.42	4.54	4.49	4.53	4.75	4.67	4.85	4.86

NODE	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230
ELEVATION	2550.31	2544.96	2540.50	2537.50	2533.21	2528.55	2525.24	2521.68	2517.34	2512.65
MAX DEPTH	0.31	0.38	0.43	0.41	0.31	0.38	0.24	0.20	0.19	0.23
VELOCITY	1.25	1.29	1.12	1.22	1.16	0.96	0.85	0.42	0.42	0.82
TIME	4.92	4.96	5.08	5.17	5.16	5.25	5.09	5.13	5.59	1.81
MAX VEL	1.25	1.29	1.13	1.22	1.16	0.96	0.85	0.85	0.42	0.86
DEPTH	0.31	0.38	0.42	0.40	0.31	0.37	0.24	0.20	0.19	0.22
TIME	4.93	4.96	5.14	5.16	5.16	5.09	5.09	5.13	5.60	5.58

NODE	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240
ELEVATION	2508.54	2504.48	2500.17	2495.44	2490.26	2487.26	2482.61	2477.48	2472.02	2468.31
MAX DEPTH	0.23	0.20	0.17	0.21	0.26	0.14	0.17	0.15	0.21	0.20
VELOCITY	0.75	0.42	0.39	0.93	0.89	0.34	0.39	0.39	0.73	0.42
TIME	5.21	5.60	5.86	1.94	5.62	5.76	5.86	5.99	1.80	5.63
MAX VEL	0.84	0.85	0.39	0.94	0.89	0.34	0.39	0.39	0.78	0.86
DEPTH	0.22	0.20	0.17	0.20	0.25	0.14	0.17	0.15	0.20	0.20
TIME	5.27	5.90	5.87	1.95	5.63	5.76	5.92	6.00	2.89	2.45

NODE	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250
ELEVATION	2463.88	2460.23	2455.21	2450.21	2445.33	2443.80	2438.55	2436.73	2432.32	2778.79
MAX DEPTH	0.26	0.23	0.21	0.21	0.24	0.11	0.20	0.10	0.60	0.10
VELOCITY	0.84	0.45	0.92	0.44	0.48	0.00	0.41	0.00	3.68	0.00
TIME	2.01	1.74	6.00	1.82	1.85	1.41	3.03	1.31	3.75	1.35
MAX VEL	0.84	0.92	0.92	0.90	0.67	0.31	0.83	0.29	3.75	0.30
DEPTH	0.26	0.21	0.21	0.20	0.22	0.11	0.20	0.10	0.59	0.10
TIME	2.00	1.80	5.98	2.04	5.71	1.42	2.41	1.41	3.75	1.36

NODE	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260
ELEVATION	2775.11	2771.30	2765.79	2761.10	2756.81	2752.71	2748.88	2745.47	2740.74	2737.04
MAX DEPTH	0.11	0.11	0.14	0.16	0.16	0.16	0.16	0.11	0.13	0.12
VELOCITY	0.00	0.00	0.36	0.37	0.39	0.40	0.42	0.32	0.32	0.33
TIME	1.35	1.31	1.50	1.53	1.60	1.66	1.72	1.50	1.50	1.50
MAX VEL	0.30	0.30	0.36	0.37	0.39	0.40	0.42	0.32	0.32	0.33
DEPTH	0.11	0.10	0.14	0.16	0.16	0.16	0.16	0.11	0.13	0.12
TIME	1.36	1.47	1.52	1.57	1.61	1.67	1.73	1.51	1.52	1.52

NODE	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270
ELEVATION	2731.93	2729.87	2725.21	2720.28	2715.36	2715.11	2710.17	2707.85	2705.21	2701.85
MAX DEPTH	0.17	0.11	0.21	0.28	0.37	0.11	0.17	0.14	0.11	0.11
VELOCITY	0.39	0.00	0.92	1.10	1.03	0.29	0.33	0.35	0.00	0.00
TIME	1.90	1.38	1.80	1.83	1.88	1.91	1.53	1.51	1.38	1.35
MAX VEL	0.39	0.30	0.92	1.11	1.04	0.29	0.33	0.35	0.29	0.26
EPTH	0.17	0.11	0.21	0.28	0.36	0.11	0.17	0.14	0.10	0.10
ME	1.91	1.39	1.81	1.83	1.89	1.92	1.53	1.52	1.39	1.36

NODE	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280
EVATION	2699.13	2693.50	2689.60	2685.46	2682.94	2680.39	2675.99	2673.09	2670.20	2665.60
MAX DEPTH	0.11	0.20	0.25	0.46	0.33	0.39	0.44	0.27	0.20	0.27
VELOCITY	0.00	0.43	0.95	1.22	1.00	1.32	1.26	0.93	0.87	1.11
TIME	1.41	4.39	4.14	4.31	4.33	4.24	4.23	4.27	4.32	4.35
MAX VEL	0.31	0.86	0.95	1.22	1.00	1.32	1.27	0.93	0.87	1.11
DEPTH	0.10	0.20	0.25	0.45	0.33	0.39	0.44	0.27	0.20	0.27

TIME	1.42	4.39	4.14	4.35	4.37	4.24	4.29	4.32	4.32	4.35
NODE	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290
ELEVATION	2660.41	2656.97	2652.98	2650.20	2645.25	2641.43	2636.64	2632.45	2627.80	2622.93
MAX DEPTH	0.41	0.28	0.25	0.20	0.25	0.20	0.20	0.22	0.23	0.22
VELOCITY	1.06	1.08	1.07	0.45	0.60	0.44	0.69	0.89	0.93	0.81
TIME	4.35	4.39	4.23	4.47	4.18	4.56	4.38	4.42	4.45	4.49
MAX VEL	1.06	1.08	1.07	0.90	0.91	0.84	0.83	0.90	0.95	0.82
DEPTH	0.41	0.28	0.25	0.20	0.24	0.20	0.20	0.21	0.23	0.22
TIME	4.36	4.39	4.23	4.53	4.46	4.57	4.39	4.43	4.47	4.50
NODE	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300
ELEVATION	2618.81	2613.87	2609.73	2605.36	2601.60	2596.67	2593.29	2588.58	2582.54	2576.05
MAX DEPTH	0.19	0.27	0.35	0.36	0.22	0.22	0.20	0.23	0.51	0.55
VELOCITY	0.43	1.00	1.22	1.09	0.94	0.91	0.48	1.08	1.86	2.89
TIME	4.77	4.55	4.58	4.73	4.59	4.54	4.49	5.01	4.53	4.54
MAX VEL	0.43	1.00	1.22	1.09	0.94	0.91	0.96	1.09	5.09	2.98
DEPTH	0.19	0.27	0.35	0.36	0.22	0.22	0.20	0.23	0.48	0.54
TIME	4.78	4.55	4.59	4.73	4.59	4.55	4.27	5.01	4.47	4.55
NODE	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310
ELEVATION	2575.22	2570.40	2566.23	2563.05	2559.01	2555.21	2550.21	2545.42	2540.40	2538.48
MAX DEPTH	0.22	0.28	0.27	0.20	0.20	0.21	0.21	0.22	0.40	0.20
VELOCITY	0.93	0.98	0.99	0.42	0.39	0.45	0.90	0.94	0.89	0.45
TIME	4.50	4.47	4.65	4.75	4.62	4.84	4.94	4.82	4.87	5.00
MAX VEL	0.93	1.00	1.00	0.86	0.79	0.91	0.90	0.94	0.90	0.92
DEPTH	0.22	0.27	0.27	0.20	0.20	0.20	0.21	0.21	0.39	0.20
TIME	4.51	4.57	4.66	4.54	4.79	4.84	4.91	4.82	5.11	5.00
NODE	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320
ELEVATION	2533.37	2529.46	2524.81	2520.26	2515.46	2512.18	2507.74	2504.07	2498.25	2495.20
MAX DEPTH	0.23	0.20	0.28	0.26	0.24	0.20	0.22	0.22	0.27	0.20
VELOCITY	0.82	0.43	1.01	1.02	0.86	0.42	0.83	1.02	0.92	0.45
TIME	4.96	5.22	5.45	5.14	4.96	5.54	5.23	5.12	5.71	5.47
MAX VEL	0.83	0.87	1.04	1.02	0.86	0.85	0.84	1.02	0.92	0.90
DEPTH	0.23	0.20	0.27	0.26	0.24	0.20	0.22	0.21	0.27	0.20
TIME	4.96	6.53	5.14	5.14	4.97	5.54	5.23	5.12	5.47	5.48
NODE	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330
ELEVATION	2490.22	2485.27	2480.95	2476.65	2472.41	2469.72	2465.11	2460.20	2455.20	2451.02
MAX DEPTH	0.22	0.27	0.22	0.20	0.20	0.15	0.11	0.20	0.20	0.13
VELOCITY	0.95	0.93	0.84	0.41	0.34	0.35	0.30	0.42	0.38	0.36
TIME	5.62	5.51	5.44	5.69	5.74	5.83	5.93	7.13	2.89	6.06
MAX VEL	0.95	0.94	0.85	0.83	0.69	0.35	0.30	0.90	0.76	0.36
DEPTH	0.22	0.27	0.22	0.20	0.20	0.15	0.11	0.20	0.20	0.13
TIME	5.63	5.52	5.44	5.69	5.99	5.83	5.93	2.87	2.88	6.08
NODE	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340
ELEVATION	2445.21	2441.71	2437.10	2432.66	2430.32	2428.27	2777.02	2771.20	2767.98	2763.82
MAX DEPTH	0.21	0.20	0.29	0.32	0.32	3.27	0.10	0.12	0.12	0.11
VELOCITY	0.76	0.43	1.08	0.92	0.78	2.53	0.00	0.32	0.32	0.32
TIME	1.85	3.78	5.66	5.95	3.79	3.79	1.30	1.50	1.47	1.50
MAX VEL	0.77	0.87	1.08	0.92	0.84	2.53	0.31	0.33	0.32	0.32
DEPTH	0.20	0.20	0.29	0.32	0.20	3.26	0.10	0.12	0.12	0.11
TIME	1.86	3.78	5.66	5.95	1.69	3.80	1.45	1.51	1.48	1.52
NODE	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350
ELEVATION	2758.29	2754.21	2749.45	2745.18	2740.81	2737.20	2733.82	2729.66	2725.19	2722.72
X DEPTH	0.16	0.15	0.17	0.18	0.18	0.13	0.11	0.16	0.19	0.12
LOCITY	0.36	0.40	0.43	0.45	0.43	0.34	0.30	0.36	0.45	0.33
ME	1.53	1.60	1.67	1.76	1.84	1.59	1.50	1.62	1.91	1.99
AX VEL	0.36	0.40	0.43	0.45	0.43	0.34	0.30	0.36	0.45	0.33
DEPTH	0.16	0.15	0.17	0.18	0.18	0.13	0.11	0.16	0.19	0.12
TIME	1.58	1.61	1.71	1.77	1.84	1.60	1.52	1.61	1.92	2.00
NODE	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360
ELEVATION	2719.34	2714.61	2710.29	2709.13	2704.88	2701.15	2698.31	2696.37	2692.65	2687.07
MAX DEPTH	0.11	0.21	0.29	0.11	0.14	0.16	0.14	0.11	0.11	0.22
VELOCITY	0.00	0.44	0.99	0.00	0.34	0.36	0.33	0.00	0.00	0.59
TIME	1.39	1.80	1.96	1.39	1.52	1.51	1.51	1.34	1.41	4.49
MAX VEL	0.31	0.91	0.99	0.28	0.34	0.36	0.33	0.28	0.31	0.59
DEPTH	0.11	0.21	0.28	0.11	0.14	0.16	0.14	0.10	0.10	0.22
TIME	1.41	1.81	1.97	1.41	1.53	1.52	1.52	1.44	1.42	4.52
NODE	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370
ELEVATION	2685.02	2680.37	2677.75	2674.25	2670.36	2667.33	2665.11	2660.93	2655.50	2650.33
MAX DEPTH	0.20	0.37	0.27	0.32	0.36	0.23	0.11	0.11	0.26	0.33
VELOCITY	0.48	1.05	0.91	1.28	1.18	0.98	0.00	0.00	1.07	1.23
TIME	4.47	4.36	4.38	4.42	4.31	4.39	1.41	1.38	4.42	4.43
MAX VEL	0.96	1.06	0.91	1.28	1.18	0.98	0.29	0.31	1.07	1.23
DEPTH	0.20	0.36	0.27	0.32	0.36	0.23	0.10	0.10	0.25	0.33
TIME	4.30	4.40	4.38	4.42	4.31	4.39	1.42	1.43	4.42	4.44
NODE	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380
ELEVATION	2645.52	2643.52	2639.35	2635.29	2632.34	2627.19	2622.50	2617.66	2613.63	2609.70
MAX DEPTH	0.42	0.22	0.27	0.29	0.18	0.18	0.25	0.27	0.20	0.20
VELOCITY	1.10	0.88	0.96	0.79	0.41	0.40	1.01	0.79	0.40	0.45
TIME	4.51	4.29	4.32	4.37	4.58	4.74	4.57	4.57	4.70	4.71
MAX VEL	1.11	0.88	0.98	0.84	0.41	0.40	1.02	0.84	0.79	0.90
DEPTH	0.42	0.22	0.27	0.26	0.18	0.18	0.25	0.23	0.20	0.20
TIME	4.50	4.30	4.33	4.46	4.59	4.75	4.57	4.66	4.74	4.72
NODE	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390
ELEVATION	2604.78	2600.23	2595.29	2590.31	2585.33	2581.95	2577.84	2573.03	2569.28	2565.33
MAX DEPTH	0.29	0.27	0.29	0.31	0.33	0.26	0.28	0.62	0.63	0.61
VELOCITY	1.06	1.08	1.15	1.19	0.95	0.98	1.10	1.46	1.50	1.62
TIME	4.89	4.88	4.91	4.93	4.97	5.00	4.61	4.42	4.45	4.49
MAX VEL	1.06	1.08	1.16	1.19	0.96	0.98	1.10	4.03	4.06	4.40
DEPTH	0.29	0.27	0.29	0.31	0.33	0.26	0.28	0.54	0.56	0.51
TIME	4.89	4.88	4.89	4.93	4.98	5.01	4.62	4.44	4.46	4.51
NODE	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400
ELEVATION	2560.52	2556.72	2554.43	2550.21	2545.23	2541.45	2537.42	2533.25	2529.09	2524.92
MAX DEPTH	0.52	0.38	0.23	0.21	0.23	0.20	0.21	0.20	0.20	0.18
VELOCITY	1.36	0.98	0.92	0.91	0.81	0.42	0.92	0.41	0.70	0.43
TIME	4.51	4.73	4.59	4.63	4.71	5.01	4.90	5.23	5.23	5.40
X VEL	3.77	0.98	0.92	0.92	0.82	0.84	0.93	0.83	0.74	0.43
TH	0.49	0.38	0.23	0.21	0.23	0.20	0.21	0.20	0.20	0.18
E	4.53	4.74	4.59	4.64	4.74	5.20	4.90	5.24	5.24	5.40
NODE	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410
ELEVATION	2519.80	2515.25	2510.48	2506.57	2502.44	2498.43	2493.22	2490.20	2485.20	2480.25
MAX DEPTH	0.20	0.25	0.29	0.30	0.24	0.20	0.28	0.20	0.20	0.25
VELOCITY	0.43	1.02	1.01	0.98	0.80	0.46	1.12	0.44	0.45	1.02
TIME	5.19	4.94	5.24	5.28	5.07	5.13	5.18	5.69	5.58	5.35

MAX VEL	0.87	1.02	1.01	0.98	0.85	0.93	1.12	0.44	0.90	1.02
DEPTH	0.20	0.25	0.29	0.30	0.23	0.20	0.28	0.20	0.20	0.25
TIME	5.56	4.95	5.21	5.27	5.13	6.15	5.19	5.69	5.59	5.35
NODE	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420
ELEVATION	2475.30	2471.27	2468.48	2463.48	2460.13	2455.20	2450.20	2445.20	2440.33	2437.15
MAX DEPTH	0.30	0.32	0.20	0.25	0.13	0.20	0.20	0.20	0.33	0.25
VELOCITY	1.05	1.02	0.45	0.83	0.33	0.45	0.45	0.89	0.90	0.82
TIME	5.48	5.70	5.66	5.52	5.71	5.90	5.97	5.85	5.99	5.89
MAX VEL	1.05	1.03	0.91	0.83	0.33	0.90	0.90	0.90	0.91	0.82
PTH	0.30	0.32	0.20	0.25	0.13	0.20	0.20	0.20	0.32	0.25
ME	5.49	5.71	5.66	5.52	5.71	5.92	5.97	3.13	5.99	5.89
NODE	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430
ELEVATION	2434.86	2428.62	2427.46	2773.66	2769.54	2764.09	2760.49	2756.51	2751.85	2746.16
MAX DEPTH	0.16	0.47	0.63	0.10	0.11	0.15	0.13	0.13	0.15	0.20
VELOCITY	0.42	0.86	3.96	0.00	0.00	0.34	0.35	0.32	0.39	0.44
TIME	6.07	6.00	3.57	1.35	1.36	1.49	1.50	1.50	1.62	1.69
MAX VEL	0.42	0.88	3.96	0.28	0.31	0.34	0.35	0.32	0.39	0.89
DEPTH	0.16	0.47	0.62	0.10	0.10	0.15	0.13	0.13	0.15	0.20
TIME	6.07	6.03	3.57	1.42	1.38	1.50	1.52	1.53	1.65	1.70
NODE	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440
ELEVATION	2741.29	2737.13	2733.45	2730.25	2726.94	2723.04	2717.59	2715.14	2711.69	2707.71
MAX DEPTH	0.21	0.22	0.21	0.15	0.11	0.13	0.25	0.14	0.13	0.23
VELOCITY	0.82	0.81	0.99	0.37	0.29	0.35	0.39	0.35	0.33	0.84
TIME	1.70	1.54	1.56	1.68	1.50	1.60	1.66	1.52	1.95	1.91
MAX VEL	0.83	0.86	0.99	0.37	0.29	0.35	0.79	0.35	0.33	0.84
DEPTH	0.21	0.21	0.21	0.15	0.11	0.13	0.24	0.14	0.13	0.23
TIME	1.72	1.59	1.57	1.71	1.51	1.60	1.71	1.53	1.95	1.91
NODE	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450
ELEVATION	2704.60	2702.88	2698.28	2695.23	2692.32	2689.91	2686.03	2681.24	2677.02	2675.26
MAX DEPTH	0.26	0.11	0.14	0.17	0.16	0.11	0.11	0.16	0.33	0.26
VELOCITY	1.11	0.00	0.30	0.38	0.33	0.00	0.30	0.35	1.07	0.91
TIME	2.00	1.41	1.53	1.57	1.53	1.35	1.50	4.68	4.43	4.48
MAX VEL	1.11	0.33	0.30	0.38	0.33	0.28	0.30	0.35	1.07	0.91
DEPTH	0.26	0.11	0.14	0.17	0.16	0.10	0.11	0.16	0.33	0.26
TIME	2.00	1.42	1.52	1.58	1.51	1.39	1.51	4.71	4.46	4.51
NODE	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460
ELEVATION	2672.22	2666.44	2664.47	2660.34	2658.98	2654.64	2649.97	2645.21	2640.66	2637.94
MAX DEPTH	0.20	0.52	0.31	0.34	0.13	0.11	0.19	0.21	0.31	0.22
VELOCITY	0.48	1.28	1.21	1.00	0.32	0.00	0.43	0.88	1.00	0.98
TIME	4.48	4.44	4.47	4.44	4.57	1.36	4.58	4.43	4.46	4.46
MAX VEL	0.98	1.28	1.21	1.01	0.32	0.30	0.42	0.88	1.02	0.98
DEPTH	0.20	0.52	0.31	0.34	0.13	0.10	0.19	0.21	0.31	0.22
TIME	4.84	4.45	4.47	4.51	4.61	1.38	4.58	4.43	4.53	4.46
NODE	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470
ELEVATION	2634.88	2630.21	2625.36	2623.89	2618.83	2612.39	2608.36	2605.07	2600.00	2595.20
MAX DEPTH	0.20	0.21	0.23	0.11	0.11	0.23	0.23	0.13	0.20	0.20
VELOCITY	0.45	0.89	0.62	0.00	0.00	0.81	0.70	0.33	0.44	0.90
TIME	4.53	4.50	4.58	1.34	1.39	4.73	4.86	5.06	4.90	4.93
MAX VEL	0.91	0.91	0.80	0.32	0.34	0.85	0.70	0.33	0.88	0.90
DEPTH	0.20	0.21	0.21	0.10	0.11	0.22	0.23	0.13	0.20	0.20
TIME	4.60	4.52	4.60	1.39	1.41	4.80	4.87	5.07	4.86	4.80
NODE	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480
VATION	2590.22	2585.27	2581.39	2577.72	2573.81	2570.20	2565.25	2560.31	2555.69	2553.19
DEPTH	0.21	0.27	0.33	0.27	0.20	0.20	0.25	0.31	0.69	0.55
LOCITY	0.93	0.95	0.96	0.90	0.38	0.90	1.04	1.15	1.21	1.45
TIME	4.96	5.02	5.05	4.47	4.53	4.75	4.97	4.57	4.58	4.63
MAX VEL	0.94	0.95	0.96	0.90	0.76	0.91	1.04	1.15	3.27	1.46
DEPTH	0.21	0.27	0.33	0.27	0.20	0.20	0.25	0.30	0.67	0.54
TIME	4.96	5.03	5.07	4.48	4.98	4.75	4.97	4.64	4.58	4.63
NODE	1481	1482	1483	1484	1485	1486	1487	1488	1489	1490
ELEVATION	2548.27	2544.05	2540.24	2535.25	2530.37	2527.25	2524.28	2519.40	2515.20	2510.41
MAX DEPTH	0.33	0.31	0.24	0.25	0.37	0.25	0.20	0.21	0.20	0.20
VELOCITY	1.09	0.95	1.00	1.03	1.14	0.98	0.44	0.70	0.44	0.78
TIME	4.67	4.73	4.80	4.86	4.95	4.98	5.04	4.95	5.57	5.00
MAX VEL	1.10	0.95	1.00	1.03	1.14	0.99	0.89	0.83	0.88	0.78
DEPTH	0.32	0.30	0.24	0.25	0.37	0.25	0.20	0.20	0.20	0.20
TIME	4.69	4.76	4.81	4.87	4.96	4.98	4.97	4.97	5.62	5.00
NODE	1491	1492	1493	1494	1495	1496	1497	1498	1499	1500
ELEVATION	2506.73	2501.63	2497.75	2493.12	2486.23	2485.20	2480.20	2476.35	2472.28	2466.20
MAX DEPTH	0.20	0.22	0.22	0.20	0.38	0.20	0.20	0.20	0.20	0.31
VELOCITY	0.45	0.84	0.82	0.53	0.80	0.45	0.39	0.41	0.49	0.99
TIME	5.35	5.11	5.09	5.22	5.42	5.89	5.53	5.63	5.64	5.77
MAX VEL	0.91	0.84	0.88	1.07	0.81	0.90	0.79	0.84	1.00	1.00
DEPTH	0.20	0.22	0.21	0.20	0.38	0.20	0.20	0.20	0.20	0.31
TIME	5.78	5.10	5.11	5.14	5.25	5.63	5.66	7.30	5.37	5.72
NODE	1501	1502	1503	1504	1505	1506	1507	1508	1509	1510
ELEVATION	2463.35	2458.90	2455.07	2450.21	2445.29	2443.51	2438.42	2433.40	2429.91	2426.45
MAX DEPTH	0.21	0.26	0.20	0.21	0.29	0.11	0.20	0.32	0.20	0.50
VELOCITY	0.89	0.99	0.44	0.90	0.95	0.00	0.45	1.00	0.38	1.33
TIME	5.61	5.46	5.76	5.67	5.77	1.38	5.81	5.97	5.94	3.73
MAX VEL	0.89	1.00	0.89	0.91	0.95	0.30	0.90	1.01	0.76	3.57
DEPTH	0.21	0.26	0.20	0.21	0.29	0.10	0.20	0.32	0.20	0.47
TIME	5.66	5.47	5.77	5.67	5.77	1.39	5.64	5.97	7.59	4.73
NODE	1511	1512	1513	1514	1515	1516	1517	1518	1519	1520
ELEVATION	2423.22	2770.52	2766.61	2762.18	2757.61	2752.66	2750.25	2745.54	2740.97	2736.11
MAX DEPTH	2.48	0.10	0.11	0.11	0.13	0.17	0.11	0.12	0.12	0.14
VELOCITY	2.43	0.00	0.00	0.31	0.35	0.35	0.30	0.30	0.32	0.36
TIME	3.84	1.35	1.39	1.49	1.50	1.57	1.50	1.50	1.50	1.59
MAX VEL	2.50	0.30	0.31	0.31	0.35	0.35	0.30	0.30	0.32	0.36
DEPTH	2.47	0.10	0.10	0.11	0.13	0.17	0.11	0.12	0.12	0.14
TIME	3.58	1.45	1.41	1.50	1.52	1.60	1.51	1.51	1.52	1.63
NODE	1521	1522	1523	1524	1525	1526	1527	1528	1529	1530
ELEVATION	2730.95	2725.24	2722.92	2719.98	2716.53	2712.26	2708.08	2705.13	2702.27	2696.88
MAX DEPTH	0.21	0.24	0.21	0.11	0.11	0.20	0.19	0.20	0.21	0.30
OCITY	0.98	0.88	0.46	0.32	0.00	0.40	0.39	0.41	0.46	1.10
E	1.60	1.61	1.69	1.50	1.30	1.83	1.92	2.03	2.02	1.95
VEL	0.98	0.89	0.94	0.32	0.28	0.40	0.40	0.41	0.95	1.10
PTH	0.20	0.24	0.20	0.11	0.10	0.20	0.19	0.19	0.20	0.30
TIME	1.74	1.62	1.70	1.51	1.60	1.90	1.93	2.06	1.88	1.96
NODE	1531	1532	1533	1534	1535	1536	1537	1538	1539	1540
ELEVATION	2696.13	2692.42	2688.83	2686.21	2683.13	2679.10	2675.95	2671.79	2669.22	2665.24
MAX DEPTH	0.11	0.12	0.17	0.12	0.11	0.13	0.17	0.33	0.20	0.24

VELOCITY	0.31	0.31	0.40	0.31	0.00	0.30	0.37	1.02	0.42	0.96
TIME	2.07	1.50	1.65	1.50	1.31	1.50	4.71	4.51	4.58	4.52
MAX VEL	0.32	0.31	0.40	0.31	0.28	0.30	0.37	1.02	0.84	0.96
DEPTH	0.11	0.12	0.17	0.12	0.10	0.13	0.17	0.33	0.20	0.24
TIME	2.08	1.51	1.66	1.51	1.55	1.51	4.71	4.49	4.53	4.56

NODE	1541	1542	1543	1544	1545	1546	1547	1548	1549	1550
ELEVATION	2661.27	2657.41	2655.28	2651.98	2647.40	2643.02	2639.66	2635.29	2630.64	2627.67
MAX DEPTH	0.35	0.42	0.28	0.11	0.13	0.17	0.20	0.29	0.27	0.23
VELOCITY	1.15	1.45	1.08	0.30	0.32	0.33	0.84	1.07	0.95	0.80
TIME	4.51	4.50	4.56	4.69	4.69	4.69	4.59	4.57	4.58	4.50
X VEL	1.15	1.45	1.08	0.30	0.32	0.33	0.85	1.07	0.95	0.81
EPTH	0.35	0.42	0.28	0.11	0.13	0.17	0.20	0.28	0.27	0.23
TIME	4.53	4.50	4.56	4.69	4.69	4.81	4.98	4.58	4.58	4.51

NODE	1551	1552	1553	1554	1555	1556	1557	1558	1559	1560
ELEVATION	2624.52	2620.27	2615.59	2611.63	2607.49	2603.70	2599.77	2595.13	2590.13	2585.37
MAX DEPTH	0.24	0.27	0.23	0.13	0.23	0.16	0.12	0.13	0.13	0.14
VELOCITY	0.86	0.88	0.65	0.31	0.39	0.34	0.30	0.34	0.33	0.27
TIME	4.58	4.65	4.81	4.94	5.06	5.16	5.29	5.37	5.58	5.74
MAX VEL	0.91	0.92	0.65	0.31	0.39	0.34	0.30	0.34	0.33	0.27
DEPTH	0.23	0.22	0.23	0.13	0.23	0.16	0.12	0.13	0.13	0.14
TIME	4.61	4.74	4.78	4.93	5.08	5.26	5.29	5.42	5.58	5.74

NODE	1561	1562	1563	1564	1565	1566	1567	1568	1569	1570
ELEVATION	2581.92	2577.76	2573.02	2568.94	2565.15	2560.20	2555.94	2552.24	2547.15	2543.36
MAX DEPTH	0.11	0.17	0.20	0.21	0.15	0.20	0.20	0.24	0.30	0.36
VELOCITY	0.29	0.40	0.40	0.66	0.36	0.83	0.40	1.01	1.02	1.09
TIME	1.50	5.16	5.14	5.01	5.05	5.05	5.06	4.66	4.68	4.75
MAX VEL	0.29	0.40	0.81	0.78	0.36	0.83	0.81	1.01	1.02	1.10
DEPTH	0.11	0.17	0.20	0.20	0.15	0.20	0.20	0.23	0.30	0.35
TIME	1.51	5.16	5.11	5.23	5.05	5.04	5.49	4.66	4.68	4.78

NODE	1571	1572	1573	1574	1575	1576	1577	1578	1579	1580
ELEVATION	2539.32	2533.97	2530.28	2525.38	2521.02	2518.62	2515.16	2510.20	2505.24	2500.33
MAX DEPTH	0.29	0.41	0.28	0.38	0.39	0.23	0.16	0.20	0.24	0.33
VELOCITY	1.18	1.09	1.10	1.28	1.23	0.95	0.42	0.45	1.00	1.02
TIME	4.83	4.84	4.93	4.96	5.03	5.06	6.53	5.46	5.56	5.23
MAX VEL	1.18	1.09	1.10	1.29	1.23	0.96	0.42	0.90	1.01	1.02
DEPTH	0.29	0.40	0.28	0.38	0.39	0.23	0.16	0.20	0.24	0.33
TIME	4.83	4.88	4.93	4.98	5.04	5.11	6.53	4.98	5.56	5.24

NODE	1581	1582	1583	1584	1585	1586	1587	1588	1589	1590
ELEVATION	2496.84	2492.56	2485.62	2483.58	2479.96	2475.31	2470.34	2465.37	2461.29	2458.22
MAX DEPTH	0.26	0.24	0.62	0.34	0.34	0.31	0.34	0.37	0.40	0.26
VELOCITY	0.95	1.20	1.01	1.06	1.18	1.19	1.28	1.22	1.03	1.11
TIME	5.13	5.17	5.20	5.93	5.37	5.72	5.42	5.45	5.51	5.47
MAX VEL	0.95	1.20	2.45	1.06	1.18	1.19	1.28	1.22	1.04	1.11
DEPTH	0.25	0.24	0.58	0.34	0.34	0.31	0.34	0.37	0.40	0.26
TIME	5.17	5.17	5.21	5.94	5.38	5.72	5.42	5.45	5.60	5.47

NODE	1591	1592	1593	1594	1595	1596	1597	1598	1599	1600
ELEVATION	2452.66	2450.27	2446.79	2440.38	2436.63	2435.20	2429.95	2425.83	2422.55	2765.11
MAX DEPTH	0.37	0.27	0.20	0.38	0.48	0.20	0.24	0.28	0.88	0.11
VELOCITY	0.84	0.92	0.51	1.20	0.95	0.46	0.90	0.92	4.45	0.00
TIME	5.60	5.73	5.75	5.88	5.91	5.86	6.07	6.12	3.84	1.42
MAX VEL	0.85	0.92	1.03	1.20	0.96	0.92	0.90	0.92	4.50	0.24
DEPTH	0.37	0.27	0.20	0.38	0.48	0.20	0.24	0.28	0.88	0.10
TIME	5.63	5.71	5.56	5.89	5.91	5.93	6.07	6.11	3.88	1.43

NODE	1601	1602	1603	1604	1605	1606	1607	1608	1609	1610
ELEVATION	2763.38	2759.02	2754.62	2750.27	2746.61	2742.84	2739.05	2734.29	2729.19	2724.24
MAX DEPTH	0.11	0.12	0.13	0.15	0.14	0.11	0.12	0.13	0.14	0.21
VELOCITY	0.00	0.31	0.35	0.42	0.35	0.31	0.31	0.34	0.35	0.42
TIME	1.39	1.49	1.50	1.55	1.63	1.50	1.50	1.50	1.64	1.62
MAX VEL	0.28	0.32	0.35	0.42	0.35	0.31	0.31	0.34	0.35	0.86
DEPTH	0.10	0.12	0.13	0.15	0.14	0.11	0.12	0.13	0.14	0.20
TIME	1.49	1.50	1.51	1.56	1.63	1.52	1.51	1.53	1.60	1.78

NODE	1611	1612	1613	1614	1615	1616	1617	1618	1619	1620
ELEVATION	2719.84	2715.32	2711.95	2710.16	2706.56	2702.26	2698.91	2695.23	2690.67	2689.08
MAX DEPTH	0.28	0.27	0.23	0.12	0.11	0.22	0.19	0.23	0.32	0.16
VELOCITY	1.02	0.86	0.91	0.31	0.29	0.39	0.38	0.95	1.01	0.38
TIME	1.65	1.70	1.88	1.89	1.93	1.83	2.09	2.01	2.02	2.17
MAX VEL	1.04	0.87	0.92	0.31	0.29	0.80	0.38	0.95	1.02	0.38
DEPTH	0.27	0.27	0.23	0.12	0.11	0.20	0.19	0.23	0.32	0.16
TIME	1.69	1.72	1.89	1.90	1.93	1.87	2.12	2.02	2.08	2.18

NODE	1621	1622	1623	1624	1625	1626	1627	1628	1629	1630
ELEVATION	2685.45	2682.09	2679.66	2676.50	2673.11	2669.91	2666.39	2663.14	2658.79	2655.26
MAX DEPTH	0.15	0.20	0.13	0.11	0.12	0.20	0.27	0.22	0.24	0.31
VELOCITY	0.30	0.43	0.32	0.29	0.32	0.38	0.81	0.89	0.91	1.23
TIME	1.58	1.80	1.50	1.50	1.50	4.58	4.49	4.30	4.26	4.58
MAX VEL	0.31	0.43	0.32	0.29	0.32	0.76	0.85	0.90	0.94	1.23
DEPTH	0.14	0.19	0.13	0.11	0.12	0.20	0.24	0.22	0.23	0.31
TIME	2.11	1.81	1.51	1.51	1.52	4.83	4.67	4.30	4.58	4.58

NODE	1631	1632	1633	1634	1635	1636	1637	1638	1639	1640
ELEVATION	2650.55	2648.86	2645.15	2641.07	2637.62	2634.80	2629.54	2625.29	2622.55	2618.55
MAX DEPTH	0.55	0.23	0.15	0.15	0.15	0.11	0.21	0.29	0.22	0.23
VELOCITY	1.29	0.99	0.33	0.31	0.37	0.00	0.86	0.93	0.96	0.99
TIME	4.57	4.62	4.75	4.85	4.93	1.38	4.62	4.52	4.58	4.66
MAX VEL	1.29	0.99	0.33	0.32	0.37	0.30	0.86	0.94	0.96	1.00
DEPTH	0.55	0.23	0.15	0.15	0.15	0.11	0.21	0.29	0.22	0.23
TIME	4.59	4.62	4.80	4.93	4.95	1.41	4.63	4.57	4.58	4.66

NODE	1641	1642	1643	1644	1645	1646	1647	1648	1649	1650
ELEVATION	2615.13	2610.17	2606.43	2601.93	2597.87	2595.11	2590.11	2585.12	2581.17	2575.16
MAX DEPTH	0.13	0.17	0.13	0.17	0.15	0.11	0.11	0.12	0.12	0.16
VELOCITY	0.33	0.37	0.32	0.39	0.39	0.00	0.00	0.29	0.35	0.36
TIME	4.79	4.86	5.15	5.22	5.42	1.41	1.38	1.50	1.50	1.50
MAX VEL	0.33	0.37	0.32	0.39	0.39	0.32	0.30	0.29	0.35	0.36
DEPTH	0.13	0.17	0.13	0.17	0.15	0.10	0.11	0.12	0.12	0.16
TIME	4.79	4.87	5.15	5.23	5.42	1.42	1.39	1.52	1.53	1.53

NODE	1651	1652	1653	1654	1655	1656	1657	1658	1659	1660
EVATION	2570.87	2567.97	2563.70	2560.11	2555.89	2550.20	2545.31	2543.30	2538.74	2535.20
DEPTH	0.19	0.17	0.21	0.11	0.12	0.20	0.31	0.20	0.28	0.20
OCITY	0.35	0.38	0.40	0.28	0.33	0.44	0.67	0.43	0.93	0.45
ME	5.33	5.46	1.85	1.50	5.75	5.59	4.86	4.80	4.72	4.88
MAX VEL	0.35	0.38	0.80	0.28	0.33	0.90	0.67	0.86	0.93	0.90
DEPTH	0.19	0.17	0.20	0.11	0.12	0.20	0.31	0.20	0.28	0.20
TIME	5.33	5.46	1.88	1.53	5.76	5.90	4.88	5.70	4.73	4.76

NODE	1661	1662	1663	1664	1665	1666	1667	1668	1669	1670

ELEVATION	2530.22	2525.25	2520.72	2515.58	2511.89	2506.86	2505.15	2500.31	2495.66	2491.88
MAX DEPTH	0.22	0.25	0.34	0.58	0.52	0.70	0.46	0.31	0.36	0.37
VELOCITY	0.96	0.99	1.29	1.43	1.65	0.99	1.33	1.16	1.15	1.26
TIME	4.91	5.09	5.21	4.89	5.46	5.57	5.06	5.10	5.25	5.20
MAX VEL	0.96	0.99	1.30	3.86	4.59	2.62	1.34	1.16	1.15	1.27
DEPTH	0.22	0.25	0.34	0.54	0.48	0.61	0.44	0.31	0.36	0.37
TIME	4.91	5.09	5.11	6.01	5.06	5.04	5.07	5.10	5.26	5.24

NODE	1671	1672	1673	1674	1675	1676	1677	1678	1679	1680
ELEVATION	2489.65	2483.40	2480.22	2475.31	2471.55	2466.26	2460.92	2456.74	2452.39	2450.25
X DEPTH	0.20	0.53	0.22	0.31	0.22	0.23	0.33	0.30	0.55	0.36
LOCITY	0.50	1.06	0.95	1.01	1.00	1.03	1.11	1.09	1.01	1.23
IME	5.28	5.24	5.36	5.48	5.41	5.44	5.56	5.60	5.65	6.10
MAX VEL	0.83	1.08	0.95	1.01	1.00	1.03	1.11	1.09	1.01	1.24
DEPTH	0.20	0.52	0.22	0.31	0.22	0.23	0.33	0.30	0.55	0.35
TIME	5.29	5.29	5.37	5.48	5.42	5.44	5.60	5.60	5.68	5.85

NODE	1681	1682	1683	1684	1685	1686	1687	1688	1689	1690
ELEVATION	2445.31	2440.34	2439.20	2434.10	2430.20	2425.22	2425.10	2418.99	2762.54	2760.45
MAX DEPTH	0.31	0.34	0.20	0.30	0.20	0.22	0.10	0.87	0.10	0.11
VELOCITY	1.19	0.92	0.45	0.92	0.53	0.94	0.00	4.50	0.00	0.29
TIME	5.86	5.76	5.81	6.08	5.99	6.07	1.41	3.90	1.43	1.38
MAX VEL	1.19	0.92	0.64	0.92	1.07	0.94	0.33	4.50	0.27	0.29
DEPTH	0.31	0.34	0.20	0.30	0.20	0.22	0.10	0.87	0.10	0.10
TIME	5.87	5.76	5.81	5.99	6.00	6.07	1.46	3.90	1.44	1.39

NODE	1691	1692	1693	1694	1695	1696	1697	1698	1699	1700
ELEVATION	2756.82	2751.88	2747.00	2741.74	2739.98	2735.42	2732.59	2727.89	2722.76	2719.06
MAX DEPTH	0.11	0.13	0.16	0.22	0.12	0.12	0.11	0.12	0.15	0.15
VELOCITY	0.00	0.33	0.39	0.42	0.38	0.33	0.00	0.32	0.32	0.37
TIME	1.41	1.50	1.53	1.48	1.50	1.50	1.36	1.50	1.66	1.85
MAX VEL	0.30	0.33	0.39	0.87	0.38	0.33	0.28	0.32	0.33	0.37
DEPTH	0.11	0.13	0.16	0.21	0.12	0.12	0.10	0.12	0.15	0.15
TIME	1.42	1.52	1.57	1.51	1.51	1.52	1.47	1.51	1.52	1.86

NODE	1701	1702	1703	1704	1705	1706	1707	1708	1709	1710
ELEVATION	2714.81	2710.54	2705.83	2703.78	2700.99	2696.82	2693.13	2688.63	2685.28	2682.29
MAX DEPTH	0.20	0.25	0.32	0.20	0.12	0.21	0.17	0.24	0.28	0.21
VELOCITY	0.41	0.99	0.88	0.43	0.30	0.44	0.38	0.89	0.93	0.63
TIME	1.73	1.76	1.82	1.82	1.91	1.89	2.15	2.08	2.14	2.05
MAX VEL	0.84	0.99	0.89	0.87	0.30	0.44	0.38	0.90	0.93	0.86
DEPTH	0.20	0.24	0.32	0.20	0.12	0.21	0.17	0.24	0.28	0.21
TIME	1.87	1.78	1.86	1.97	1.92	1.90	2.18	2.03	2.15	2.06

NODE	1711	1712	1713	1714	1715	1716	1717	1718	1719	1720
ELEVATION	2679.93	2675.21	2673.15	2669.87	2666.01	2664.35	2660.76	2656.51	2652.45	2647.99
MAX DEPTH	0.13	0.21	0.13	0.13	0.18	0.12	0.20	0.23	0.24	0.41
VELOCITY	0.34	0.37	0.30	0.34	0.36	0.30	0.41	0.89	1.02	1.40
TIME	1.88	1.61	1.50	1.50	1.93	4.81	4.73	4.73	4.73	4.66
MAX VEL	0.34	0.67	0.30	0.34	0.36	0.30	0.83	0.89	1.02	1.40
DEPTH	0.13	0.20	0.13	0.13	0.18	0.11	0.20	0.23	0.24	0.41
TIME	1.88	1.71	1.52	1.51	1.94	4.87	4.73	4.74	4.73	4.66

NODE	1721	1722	1723	1724	1725	1726	1727	1728	1729	1730
ELEVATION	2645.33	2641.48	2638.57	2635.12	2630.69	2627.46	2624.40	2620.02	2615.57	2611.17
MAX DEPTH	0.33	0.24	0.12	0.12	0.16	0.13	0.17	0.25	0.28	0.30
VELOCITY	1.30	0.94	0.33	0.31	0.31	0.33	0.37	0.99	1.05	0.86
TIME	4.63	4.68	4.87	5.00	5.07	1.50	4.83	4.59	4.59	4.68
X VEL	1.30	0.94	0.33	0.31	0.31	0.33	0.37	0.99	1.05	0.88
PTH	0.33	0.24	0.12	0.12	0.16	0.13	0.17	0.25	0.28	0.29
IE	4.63	4.68	4.88	5.00	5.07	1.51	4.84	4.59	4.60	4.72

NODE	1731	1732	1733	1734	1735	1736	1737	1738	1739	1740
ELEVATION	2607.84	2604.12	2600.18	2595.20	2590.32	2586.79	2583.96	2580.12	2575.14	2570.19
MAX DEPTH	0.24	0.18	0.18	0.20	0.26	0.16	0.12	0.12	0.14	0.19
VELOCITY	0.81	0.36	0.42	0.44	0.37	0.35	0.29	0.31	0.34	0.39
TIME	4.72	4.97	5.32	1.93	5.08	1.64	1.50	1.50	1.50	1.65
MAX VEL	0.88	0.36	0.42	0.89	0.78	0.35	0.30	0.31	0.34	0.39
DEPTH	0.23	0.18	0.18	0.20	0.24	0.16	0.12	0.11	0.13	0.19
TIME	4.78	5.14	5.32	1.87	5.23	1.65	1.51	1.52	1.52	1.66

NODE	1741	1742	1743	1744	1745	1746	1747	1748	1749	1750
ELEVATION	2566.14	2563.40	2558.01	2554.82	2550.13	2545.18	2542.64	2538.56	2535.19	2530.07
MAX DEPTH	0.23	0.12	0.20	0.13	0.12	0.18	0.18	0.18	0.19	0.20
VELOCITY	0.39	0.32	0.33	0.32	0.33	0.35	0.38	0.34	0.44	0.44
TIME	1.69	1.50	1.91	1.50	1.50	5.40	5.32	6.28	5.33	5.59
MAX VEL	0.53	0.32	0.33	0.32	0.32	0.35	0.38	0.34	0.44	0.89
DEPTH	0.22	0.12	0.20	0.13	0.12	0.18	0.18	0.18	0.19	0.20
TIME	1.73	1.52	1.94	1.53	1.53	5.40	5.38	6.28	5.34	5.66

NODE	1751	1752	1753	1754	1755	1756	1757	1758	1759	1760
ELEVATION	2525.20	2520.70	2517.59	2514.95	2510.20	2505.24	2501.64	2495.51	2493.01	2487.04
MAX DEPTH	0.20	0.20	0.19	0.14	0.20	0.24	0.20	0.26	0.21	0.29
VELOCITY	0.86	0.78	0.39	0.38	0.45	0.84	0.50	0.77	1.01	0.87
TIME	5.60	5.13	5.37	6.26	5.19	5.06	5.21	5.16	5.25	5.29
MAX VEL	0.86	0.78	0.39	0.38	0.90	0.84	1.00	0.77	1.01	0.87
DEPTH	0.20	0.20	0.19	0.14	0.20	0.24	0.20	0.26	0.21	0.29
TIME	5.63	5.13	5.45	6.27	5.19	5.07	5.33	5.17	5.25	5.27

NODE	1761	1762	1763	1764	1765	1766	1767	1768	1769	1770
ELEVATION	2483.93	2480.07	2475.23	2471.62	2466.22	2461.91	2456.41	2453.15	2450.25	2445.24
MAX DEPTH	0.20	0.27	0.23	0.20	0.20	0.14	0.33	0.26	0.25	0.24
VELOCITY	0.39	1.02	0.80	0.47	0.41	0.38	0.94	0.76	0.99	1.00
TIME	5.36	5.36	5.31	5.60	6.00	5.85	5.68	6.07	5.86	5.67
MAX VEL	0.79	1.02	0.82	0.94	0.84	0.38	0.94	0.80	1.00	1.00
DEPTH	0.20	0.27	0.23	0.20	0.20	0.14	0.33	0.26	0.24	0.24
TIME	5.83	5.32	5.38	5.53	6.01	5.85	5.70	5.86	5.68	5.67

NODE	1771	1772	1773	1774	1775	1776	1777	1778	1779	1780
ELEVATION	2440.26	2436.57	2433.89	2430.11	2420.36	2420.15	2416.45	2760.60	2756.45	2753.37
MAX DEPTH	0.26	0.24	0.20	0.11	0.36	0.15	0.88	0.10	0.11	0.11
VELOCITY	0.90	1.03	0.55	0.43	1.08	0.36	2.97	0.00	0.32	0.00
TIME	5.71	5.79	5.95	5.88	6.07	6.28	3.94	1.42	1.49	1.36
MAX VEL	0.90	1.03	1.11	0.43	1.09	0.36	2.98	0.30	0.32	0.30
DEPTH	0.26	0.24	0.20	0.11	0.36	0.15	0.88	0.10	0.11	0.11
TIME	5.71	5.79	5.95	5.88	6.07	6.28	3.90	1.43	1.50	1.41

NODE	1781	1782	1783	1784	1785	1786	1787	1788	1789	1790
VATION	2749.30	2745.03	2740.57	2735.50	2730.27	2728.60	2726.04	2721.73	2716.43	2711.92
.. DEPTH	0.11	0.12	0.15	0.21	0.26	0.16	0.11	0.11	0.13	0.16
VELOCITY	0.30	0.33	0.37	0.95	0.83	0.43	0.00	0.00	0.32	0.37
TIME	1.34	1.50	1.58	1.59	1.58	1.69	1.42	1.36	1.50	1.91
MAX VEL	0.30	0.33	0.37	0.93	0.84	0.43	0.32	0.31	0.32	0.37
DEPTH	0.11	0.12	0.15	0.20	0.26	0.16	0.11	0.10	0.13	0.16
TIME	1.50	1.51	1.59	1.71	1.59	1.70	1.43	1.38	1.52	1.92

NODE	1791	1792	1793	1794	1795	1796	1797	1798	1799	1800
ELEVATION	2708.29	2705.20	2701.29	2697.29	2694.80	2690.61	2686.70	2682.73	2679.87	2676.11
MAX DEPTH	0.19	0.20	0.24	0.25	0.14	0.17	0.20	0.22	0.25	0.21
VELOCITY	0.44	0.41	0.89	0.82	0.36	0.35	0.41	0.84	0.91	0.41
TIME	1.90	1.83	1.85	1.75	1.98	2.17	2.07	2.02	2.23	1.76
MAX VEL	0.44	0.83	0.86	0.88	0.36	0.35	0.83	0.86	0.92	0.85
DEPTH	0.19	0.20	0.22	0.25	0.14	0.17	0.20	0.22	0.24	0.21
TIME	1.91	1.92	1.91	1.83	1.98	2.18	2.08	2.06	2.25	2.15

NODE	1801	1802	1803	1804	1805	1806	1807	1808	1809	1810
EVATION	2672.43	2669.82	2666.91	2662.96	2660.15	2657.39	2654.23	2650.15	2645.29	2641.31
AX DEPTH	0.21	0.18	0.11	0.15	0.15	0.11	0.11	0.15	0.29	0.41
VELOCITY	0.93	0.44	0.29	0.35	0.38	0.30	0.30	0.36	1.03	1.27
TIME	1.69	2.38	1.50	1.53	1.97	1.50	4.89	4.85	4.56	4.58
MAX VEL	0.94	0.44	0.29	0.35	0.38	0.30	0.30	0.36	1.03	1.28
DEPTH	0.21	0.18	0.11	0.15	0.15	0.11	0.11	0.15	0.29	0.41
TIME	1.70	2.39	1.51	1.54	1.98	1.51	4.88	4.86	4.56	4.67

NODE	1811	1812	1813	1814	1815	1816	1817	1818	1819	1820
ELEVATION	2637.52	2635.24	2630.81	2629.23	2625.18	2620.54	2618.11	2614.47	2610.61	2606.52
MAX DEPTH	0.51	0.24	0.25	0.11	0.12	0.16	0.11	0.18	0.20	0.23
VELOCITY	1.21	0.95	0.93	0.00	0.35	0.35	0.00	0.42	0.41	0.92
TIME	4.63	4.74	4.85	1.30	1.50	5.08	1.30	4.79	4.72	4.75
MAX VEL	1.21	0.95	0.93	0.27	0.35	0.35	0.28	0.42	0.86	0.92
DEPTH	0.51	0.24	0.25	0.11	0.12	0.16	0.10	0.18	0.20	0.23
TIME	4.68	4.74	4.84	1.51	1.51	5.08	1.58	4.80	4.86	4.75

NODE	1821	1822	1823	1824	1825	1826	1827	1828	1829	1830
ELEVATION	2602.16	2599.27	2595.11	2590.13	2585.85	2580.89	2577.77	2575.11	2570.49	2566.59
MAX DEPTH	0.26	0.17	0.11	0.13	0.22	0.21	0.15	0.11	0.11	0.11
VELOCITY	0.84	0.44	0.00	0.31	0.45	0.82	0.30	0.00	0.26	0.32
TIME	4.83	5.09	1.30	1.62	5.23	5.32	1.91	1.42	1.49	1.50
MAX VEL	0.88	0.44	0.29	0.31	0.91	0.82	0.30	0.28	0.26	0.32
DEPTH	0.26	0.17	0.10	0.13	0.21	0.21	0.14	0.10	0.11	0.10
TIME	4.87	5.09	1.85	1.56	5.26	5.32	1.91	1.43	1.50	1.51

NODE	1831	1832	1833	1834	1835	1836	1837	1838	1839	1840
ELEVATION	2560.67	2556.90	2553.47	2549.78	2545.13	2540.21	2537.23	2533.81	2530.16	2525.27
MAX DEPTH	0.16	0.15	0.16	0.12	0.12	0.21	0.20	0.20	0.16	0.16
VELOCITY	0.34	0.34	0.30	0.30	0.32	0.34	0.37	0.35	0.38	0.33
TIME	1.58	1.59	2.01	1.50	1.50	1.81	6.14	6.24	5.75	5.89
MAX VEL	0.34	0.34	0.30	0.30	0.32	0.69	0.74	0.65	0.38	0.33
DEPTH	0.16	0.15	0.16	0.12	0.12	0.20	0.20	0.20	0.16	0.16
TIME	1.69	1.60	2.01	1.53	1.53	5.31	5.61	5.62	5.74	5.89

NODE	1841	1842	1843	1844	1845	1846	1847	1848	1849	1850
ELEVATION	2521.26	2516.60	2512.82	2510.11	2505.13	2500.20	2495.24	2492.08	2487.45	2483.00
MAX DEPTH	0.14	0.21	0.21	0.11	0.13	0.20	0.20	0.20	0.17	0.29
VELOCITY	0.33	0.79	0.55	0.00	0.34	0.45	0.51	0.40	0.38	0.71
TIME	1.51	5.66	5.21	1.35	5.60	5.68	5.22	5.69	5.93	5.26
MAX VEL	0.33	0.79	0.82	0.29	0.34	0.89	0.74	0.80	0.38	0.72
DEPTH	0.13	0.21	0.20	0.10	0.13	0.20	0.20	0.20	0.17	0.28
TIME	1.53	5.70	5.23	1.38	5.56	5.64	5.92	5.69	5.92	5.38

NODE	1851	1852	1853	1854	1855	1856	1857	1858	1859	1860
ELEVATION	2480.19	2475.20	2470.24	2465.24	2460.25	2457.84	2454.97	2450.13	2445.20	2440.20
AX DEPTH	0.19	0.20	0.24	0.24	0.25	0.11	0.11	0.13	0.20	0.20
LOCITY	0.43	0.90	1.00	0.98	0.88	0.00	0.29	0.33	0.45	0.89
E	5.60	5.94	5.78	5.47	5.82	1.35	5.92	5.92	6.03	6.05
VEL	0.43	0.90	1.01	1.00	0.88	0.28	0.29	0.33	0.90	0.89
PTH	0.19	0.20	0.24	0.24	0.25	0.11	0.11	0.13	0.20	0.20
TIME	5.60	5.94	5.79	5.75	5.83	1.36	5.92	5.92	6.08	6.62

NODE	1861	1862	1863	1864	1865	1866	1867	1868	1869	1870
ELEVATION	2435.28	2429.40	2423.14	2420.18	2415.61	2420.10	2414.62	2755.11	2752.97	2748.44
MAX DEPTH	0.28	0.31	0.21	0.18	0.61	0.10	2.63	0.11	0.11	0.16
VELOCITY	1.22	1.35	0.95	0.40	2.86	0.00	2.64	0.00	0.30	0.39
TIME	6.09	6.10	5.99	6.22	6.22	1.26	3.96	1.41	1.49	1.50
MAX VEL	1.22	1.36	0.95	0.40	2.88	0.36	2.64	0.24	0.30	0.39
DEPTH	0.28	0.31	0.21	0.18	0.60	0.09	2.63	0.10	0.11	0.16
TIME	6.09	6.10	5.99	6.22	6.03	1.34	3.98	1.42	1.50	1.51

NODE	1871	1872	1873	1874	1875	1876	1877	1878	1879	1880
ELEVATION	2746.20	2741.91	2737.75	2734.24	2729.70	2725.21	2720.23	2719.11	2713.96	2710.01
MAX DEPTH	0.11	0.11	0.13	0.11	0.14	0.21	0.23	0.11	0.13	0.13
VELOCITY	0.00	0.30	0.34	0.33	0.33	0.46	0.69	0.00	0.32	0.34
TIME	1.34	1.50	1.50	1.50	1.66	1.56	1.72	1.32	1.50	1.50
MAX VEL	0.31	0.30	0.34	0.33	0.33	0.94	0.76	0.30	0.32	0.34
DEPTH	0.10	0.11	0.13	0.11	0.14	0.20	0.20	0.10	0.13	0.13
TIME	1.36	1.51	1.52	1.51	1.67	1.57	1.83	1.45	1.51	1.52

NODE	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890
ELEVATION	2705.17	2700.93	2698.63	2695.36	2691.55	2687.00	2685.25	2680.78	2676.99	2673.60
MAX DEPTH	0.17	0.21	0.14	0.21	0.21	0.23	0.11	0.21	0.25	0.21
VELOCITY	0.40	0.41	0.33	0.79	0.43	0.62	0.29	0.39	1.00	0.77
TIME	1.97	1.84	1.98	1.95	1.95	2.00	2.32	2.17	2.21	1.71
MAX VEL	0.40	0.85	0.33	0.80	0.89	0.73	0.29	0.80	1.00	0.84
DEPTH	0.17	0.20	0.14	0.21	0.21	0.20	0.11	0.21	0.25	0.21
TIME	1.97	2.03	1.98	1.95	1.95	2.14	2.32	2.18	2.25	2.25

NODE	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
ELEVATION	2670.06	2665.31	2662.27	2660.12	2656.41	2652.67	2650.36	2647.02	2643.46	2638.98
MAX DEPTH	0.23	0.31	0.21	0.12	0.15	0.20	0.13	0.11	0.16	0.22
VELOCITY	0.96	1.09	0.86	0.31	0.33	0.45	0.33	0.30	0.41	0.96
TIME	2.29	2.29	2.36	1.50	1.59	2.03	1.50	1.49	4.91	4.75
MAX VEL	0.96	1.09	0.86	0.32	0.33	0.45	0.34	0.30	0.41	0.96
DEPTH	0.23	0.31	0.21	0.12	0.15	0.20	0.13	0.11	0.16	0.22
TIME	2.19	2.30	2.36	1.52	1.60	2.04	1.52	1.50	4.91	4.76

NODE	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910
ELEVATION	2635.37	2632.47	2629.13	2625.31	2623.16	2616.45	2615.35	2611.90	2607.40	2604.19
MAX DEPTH	0.37	0.30	0.27	0.31	0.16	0.37	0.24	0.20	0.22	0.22
VELOCITY	1.21	0.94	0.96	0.91	0.44	0.59	0.37	0.43	0.36	0.83
TIME	4.71	4.72	4.83	4.88	5.06	5.14	1.91	4.85	4.77	4.86
AX VEL	1.21	0.94	0.96	0.93	0.44	0.59	0.75	0.85	0.74	0.83
TH	0.37	0.30	0.27	0.30	0.16	0.37	0.21	0.20	0.21	0.21
E	4.75	4.72	4.83	4.69	5.05	5.14	4.83	4.85	4.79	4.88

NODE	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920
ELEVATION	2600.30	2596.82	2590.89	2588.58	2585.11	2580.15	2575.26	2572.77	2569.31	2565.11
MAX DEPTH	0.30	0.23	0.25	0.13	0.11	0.15	0.26	0.20	0.11	0.11
VELOCITY	0.85	1.02	0.93	0.37	0.00	0.36	0.83	0.45	0.28	0.31
TIME	4.83	4.87	4.96	5.22	1.35	5.37	1.70	1.90	1.49	1.50
MAX VEL	0.89	1.05	0.94	0.37	0.31	0.36	0.83	0.45	0.28	0.31

DEPTH	0.29	0.22	0.25	0.13	0.11	0.15	0.25	0.19	0.11	0.11
TIME	4.87	4.89	4.97	5.23	1.36	5.37	1.72	1.91	1.50	1.52
NODE	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
ELEVATION	2560.13	2555.18	2550.74	2548.46	2544.31	2540.13	2536.44	2533.30	2530.11	2525.12
MAX DEPTH	0.13	0.18	0.20	0.13	0.12	0.13	0.14	0.12	0.11	0.12
VELOCITY	0.34	0.39	0.40	0.33	0.29	0.29	0.32	0.30	0.00	0.27
TIME	1.50	1.60	1.67	2.09	1.50	1.50	1.87	1.92	1.36	1.50
MAX VEL	0.34	0.39	0.80	0.33	0.29	0.29	0.32	0.30	0.29	0.27
[illegible]PTH	0.13	0.17	0.20	0.13	0.12	0.13	0.14	0.12	0.10	0.12
[illegible]ME	1.53	1.72	1.77	2.09	1.52	1.53	1.88	1.93	1.38	1.51
NODE	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
ELEVATION	2521.36	2516.96	2513.36	2507.14	2504.30	2500.11	2495.14	2490.40	2486.52	2483.70
MAX DEPTH	0.11	0.11	0.11	0.26	0.12	0.11	0.14	0.20	0.22	0.11
VELOCITY	0.28	0.26	0.00	0.36	0.29	0.31	0.35	0.79	0.68	0.27
TIME	1.50	1.50	1.42	5.48	1.50	1.50	5.89	5.91	5.92	1.50
MAX VEL	0.28	0.26	0.33	0.75	0.29	0.30	0.35	0.79	0.68	0.27
DEPTH	0.11	0.11	0.11	0.22	0.12	0.11	0.14	0.20	0.22	0.11
TIME	1.52	1.51	1.43	5.62	1.51	1.52	5.90	5.74	5.92	1.51
NODE	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
ELEVATION	2479.65	2475.15	2471.15	2465.14	2460.20	2455.26	2451.56	2448.91	2445.11	2441.28
MAX DEPTH	0.19	0.15	0.11	0.14	0.20	0.26	0.20	0.13	0.11	0.11
VELOCITY	0.38	0.31	0.00	0.36	0.45	0.86	0.37	0.32	0.00	0.00
TIME	5.90	6.13	1.29	6.23	5.73	5.97	5.86	6.00	1.31	1.39
MAX VEL	0.38	0.31	0.32	0.36	0.90	0.88	0.74	0.32	0.29	0.28
DEPTH	0.19	0.15	0.10	0.14	0.20	0.25	0.20	0.13	0.10	0.10
TIME	6.06	6.13	1.31	6.23	7.39	5.66	5.59	6.01	1.32	1.42
NODE	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
ELEVATION	2436.59	2431.24	2420.43	2415.51	2413.74	2416.42	2413.69	2751.61	2750.11	2745.41
MAX DEPTH	0.11	0.11	0.43	0.51	1.38	0.10	0.53	0.11	0.11	0.13
VELOCITY	0.00	0.00	1.48	1.22	2.09	0.00	2.13	0.28	0.00	0.33
TIME	1.41	1.39	6.21	6.13	6.24	1.36	3.93	1.39	1.39	1.49
MAX VEL	0.30	0.45	1.48	2.52	2.14	0.31	2.67	0.28	0.30	0.34
DEPTH	0.11	0.10	0.43	0.48	0.48	0.09	0.49	0.10	0.10	0.13
TIME	1.42	1.41	6.20	2.55	1.57	1.50	3.75	1.41	1.46	1.50
NODE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
ELEVATION	2741.10	2738.61	2734.61	2730.40	2725.99	2723.26	2717.68	2715.20	2711.88	2707.34
MAX DEPTH	0.19	0.12	0.14	0.14	0.15	0.11	0.25	0.20	0.11	0.13
VELOCITY	0.38	0.30	0.34	0.36	0.36	0.00	1.05	0.90	0.00	0.33
TIME	1.54	1.50	1.50	1.50	1.60	1.30	1.72	1.83	1.39	1.50
MAX VEL	0.38	0.30	0.34	0.36	0.36	0.31	1.05	0.90	0.28	0.33
DEPTH	0.19	0.12	0.14	0.14	0.15	0.11	0.24	0.20	0.11	0.13
TIME	1.58	1.51	1.52	1.60	1.60	1.51	1.72	1.83	1.41	1.52
NODE	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
ELEVATION	2702.62	2698.08	2694.90	2692.50	2689.52	2684.94	2682.36	2679.51	2675.10	2670.26
MAX DEPTH	0.15	0.21	0.22	0.16	0.12	0.26	0.20	0.11	0.12	0.25
VELOCITY	0.36	0.38	0.90	0.36	0.30	0.90	0.47	0.00	0.32	0.83
TIME	1.54	1.51	1.98	2.16	2.27	1.96	2.17	1.35	2.32	2.30
MAX VEL	0.36	0.80	0.91	0.36	0.30	0.92	0.48	0.30	0.32	0.83
DEPTH	0.15	0.20	0.22	0.16	0.12	0.26	0.20	0.10	0.12	0.25
TIME	1.59	1.77	1.99	2.20	2.27	1.97	2.18	1.45	2.32	2.28
[illegible]NODE	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
[illegible]VATION	2667.73	2665.01	2659.35	2656.06	2653.25	2650.51	2645.38	2644.15	2639.71	2635.51
[illegible] DEPTH	0.22	0.15	0.32	0.23	0.20	0.11	0.23	0.11	0.12	0.17
[illegible]LOCITY	0.68	0.40	1.07	0.95	0.48	0.32	0.38	0.31	0.31	0.36
TIME	1.78	2.35	2.34	1.93	2.36	2.17	2.19	1.50	1.50	4.99
MAX VEL	0.84	0.40	1.07	0.95	0.95	0.32	0.38	0.31	0.31	0.36
DEPTH	0.20	0.15	0.32	0.23	0.19	0.11	0.23	0.11	0.12	0.17
TIME	1.88	2.35	2.35	1.94	2.11	2.17	2.19	1.51	1.52	5.00
NODE	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
ELEVATION	2632.04	2629.22	2627.18	2623.12	2620.13	2617.54	2614.27	2610.13	2606.45	2603.10
MAX DEPTH	0.29	0.34	0.20	0.25	0.25	0.11	0.15	0.13	0.12	0.14
VELOCITY	1.12	1.23	0.44	0.39	0.76	0.00	0.37	0.32	0.31	0.28
TIME	4.62	4.78	4.78	4.32	4.57	1.39	4.86	5.23	5.40	5.52
MAX VEL	1.12	1.23	0.90	0.84	0.89	0.30	0.39	0.32	0.31	0.28
DEPTH	0.29	0.34	0.20	0.23	0.21	0.10	0.15	0.13	0.12	0.14
TIME	4.62	4.78	4.79	4.97	4.82	1.41	5.15	5.23	5.40	5.69
NODE	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
ELEVATION	2600.11	2595.21	2590.41	2585.32	2580.39	2577.69	2574.64	2570.23	2565.48	2563.68
MAX DEPTH	0.11	0.21	0.27	0.32	0.39	0.27	0.21	0.23	0.27	0.12
VELOCITY	0.00	0.73	1.09	1.23	0.89	0.76	0.86	0.96	0.93	0.30
TIME	1.36	4.88	5.05	5.09	5.24	5.13	5.24	5.25	5.44	1.98
MAX VEL	0.29	0.92	1.09	1.23	0.91	0.77	0.86	0.96	0.93	0.30
DEPTH	0.11	0.21	0.27	0.32	0.38	0.26	0.21	0.23	0.27	0.12
TIME	1.38	4.90	5.04	5.08	5.14	5.17	5.24	5.25	5.50	1.98
NODE	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
ELEVATION	2559.60	2555.11	2550.18	2545.21	2541.20	2540.11	2535.13	2530.58	2527.36	2523.59
MAX DEPTH	0.11	0.11	0.18	0.21	0.22	0.11	0.13	0.18	0.14	0.13
VELOCITY	0.30	0.30	0.42	0.40	0.42	0.00	0.32	0.36	0.35	0.33
TIME	5.56	1.50	2.00	1.91	1.93	1.36	1.50	1.91	1.91	1.50
MAX VEL	0.30	0.30	0.42	0.82	0.42	0.29	0.32	0.36	0.35	0.33
DEPTH	0.11	0.11	0.18	0.20	0.22	0.10	0.13	0.18	0.13	0.12
TIME	5.56	1.53	1.99	1.91	1.94	1.38	1.58	1.92	1.92	1.51
NODE	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
ELEVATION	2520.11	2515.59	2511.71	2507.00	2502.56	2498.66	2495.11	2490.15	2486.48	2482.51
MAX DEPTH	0.11	0.12	0.11	0.12	0.22	0.14	0.11	0.15	0.13	0.14
VELOCITY	0.00	0.28	0.29	0.30	0.38	0.29	0.30	0.30	0.31	0.32
TIME	1.30	1.50	1.50	1.50	5.77	1.50	1.50	1.61	1.50	1.66
MAX VEL	0.32	0.28	0.29	0.30	0.39	0.29	0.30	0.30	0.31	0.32
DEPTH	0.10	0.12	0.11	0.12	0.22	0.14	0.11	0.15	0.13	0.14
TIME	1.34	1.51	1.51	1.51	5.78	1.58	1.53	1.61	1.52	1.67
NODE	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
ELEVATION	2478.31	2473.79	2470.12	2465.15	2461.02	2455.14	2450.26	2446.76	2442.39	2438.48
MAX DEPTH	0.14	0.18	0.12	0.15	0.11	0.14	0.26	0.25	0.30	0.29
[illegible]LOCITY	0.34	0.37	0.32	0.31	0.32	0.35	0.88	0.99	1.01	0.79
[illegible]E	1.59	6.20	1.50	1.64	1.50	1.50	5.68	5.73	5.84	5.86
VEL	0.34	0.37	0.32	0.31	0.33	0.35	0.88	0.99	1.01	0.79
TH	0.14	0.18	0.12	0.15	0.11	0.14	0.26	0.25	0.29	0.29
TIME	1.68	6.20	1.52	1.65	1.51	1.53	5.69	5.74	5.86	5.88
NODE	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
ELEVATION	2435.76	2430.18	2425.14	2420.26	2415.20	2413.20	2412.46	2411.12	2748.62	2745.12
MAX DEPTH	0.18	0.18	0.14	0.11	0.20	3.20	0.69	5.78	0.10	0.12
VELOCITY	0.43	0.49	0.41	0.31	0.30	2.47	2.85	0.84	0.00	0.32

TIME	6.18	6.35	6.36	1.50	2.93	6.20	6.28	6.29	1.41	1.49
MAX VEL	0.43	0.49	0.41	0.31	0.64	2.48	3.69	1.64	0.31	0.32
DEPTH	0.18	0.18	0.14	0.11	0.20	3.19	0.46	5.66	0.10	0.12
TIME	6.22	6.36	6.35	1.51	2.30	6.27	2.58	6.28	1.42	1.50

NODE	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060
ELEVATION	2742.57	2738.58	2734.89	2731.94	2727.27	2723.02	2719.23	2716.35	2710.28	2708.76
MAX DEPTH	0.11	0.13	0.15	0.11	0.12	0.17	0.16	0.12	0.28	0.17
VELOCITY	0.00	0.34	0.42	0.33	0.31	0.35	0.36	0.34	1.07	0.40
TIME	1.41	1.53	1.59	1.50	1.50	1.62	1.73	1.50	1.84	1.96
X VEL	0.30	0.34	0.42	0.33	0.31	0.35	0.36	0.34	1.07	0.41
PTH	0.11	0.13	0.15	0.11	0.12	0.17	0.16	0.11	0.27	0.16
IME	1.42	1.51	1.60	1.51	1.51	1.62	1.73	1.53	1.85	1.97

NODE	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070
ELEVATION	2705.16	2701.16	2696.98	2692.62	2688.60	2686.12	2683.13	2678.86	2674.37	2672.24
MAX DEPTH	0.11	0.12	0.13	0.21	0.25	0.15	0.11	0.21	0.21	0.11
VELOCITY	0.00	0.30	0.32	0.82	0.93	0.36	0.28	0.46	0.71	0.29
TIME	1.31	1.50	1.55	1.99	2.08	2.22	1.50	2.00	2.06	1.50
MAX VEL	0.29	0.30	0.32	0.84	0.95	0.36	0.28	0.93	0.78	0.29
DEPTH	0.10	0.12	0.13	0.20	0.23	0.15	0.11	0.20	0.20	0.11
TIME	1.35	1.51	1.54	2.12	1.73	2.22	1.51	2.01	2.11	1.51

NODE	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080
ELEVATION	2668.90	2665.25	2661.87	2658.75	2653.52	2649.44	2645.26	2643.81	2639.56	2636.41
MAX DEPTH	0.12	0.25	0.21	0.18	0.28	0.27	0.26	0.12	0.13	0.11
VELOCITY	0.30	0.88	0.72	0.42	0.99	1.03	1.16	0.37	0.37	0.33
TIME	2.46	1.81	1.90	2.40	2.25	2.49	2.49	2.43	1.50	1.50
MAX VEL	0.30	0.91	0.71	0.42	1.00	1.03	1.17	0.37	0.37	0.33
DEPTH	0.12	0.22	0.21	0.18	0.28	0.27	0.26	0.11	0.13	0.11
TIME	1.51	1.88	1.91	2.40	2.41	2.46	2.50	1.51	1.51	1.53

NODE	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090
ELEVATION	2632.88	2630.12	2625.36	2622.57	2620.22	2617.42	2613.29	2610.23	2606.60	2603.48
MAX DEPTH	0.11	0.17	0.36	0.37	0.22	0.20	0.20	0.14	0.16	0.16
VELOCITY	0.32	0.40	1.03	1.31	0.98	0.45	0.47	0.34	0.30	0.31
TIME	1.50	5.04	4.88	4.91	4.62	4.72	4.99	5.33	5.39	5.47
MAX VEL	0.32	0.40	1.04	1.32	0.99	0.91	0.95	0.34	0.30	0.31
DEPTH	0.11	0.17	0.35	0.37	0.22	0.20	0.20	0.14	0.16	0.16
TIME	1.52	5.04	4.75	4.91	4.62	4.65	4.99	5.35	5.40	5.59

NODE	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
ELEVATION	2600.20	2597.89	2595.11	2590.99	2587.35	2582.65	2578.53	2573.93	2569.09	2565.25
MAX DEPTH	0.20	0.12	0.11	0.10	0.11	0.13	0.16	0.20	0.21	0.25
VELOCITY	0.33	0.30	0.00	0.00	0.00	0.30	0.38	0.44	0.66	1.02
TIME	5.63	1.50	1.42	1.39	1.31	5.24	5.39	5.36	5.27	5.45
MAX VEL	0.33	0.30	0.29	0.28	0.30	0.30	0.38	0.88	0.81	1.02
DEPTH	0.20	0.12	0.10	0.10	0.10	0.13	0.16	0.20	0.21	0.24
TIME	5.74	1.51	1.43	1.41	1.32	5.25	5.40	5.36	5.30	5.45

NODE	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110
ELEVATION	2560.31	2557.49	2552.86	2550.11	2545.13	2540.23	2537.15	2533.49	2529.79	2525.17
MAX DEPTH	0.31	0.20	0.17	0.11	0.13	0.23	0.16	0.13	0.13	0.17
VELOCITY	0.93	0.45	0.29	0.00	0.35	0.79	0.35	0.29	0.33	0.41
TIME	5.45	1.98	2.19	1.36	1.50	1.93	2.01	1.50	1.50	1.91
MAX VEL	0.93	0.91	0.29	0.29	0.34	0.79	0.35	0.29	0.33	0.40
DEPTH	0.30	0.20	0.17	0.10	0.13	0.22	0.16	0.13	0.13	0.17
TIME	5.50	1.98	2.19	1.38	1.51	1.61	2.01	1.55	1.54	2.01

NODE	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120
EVATION	2520.27	2516.41	2511.88	2510.23	2505.95	2501.22	2496.66	2493.65	2490.11	2485.44
AX DEPTH	0.21	0.20	0.25	0.23	0.13	0.14	0.17	0.13	0.11	0.14
VELOCITY	0.39	0.43	0.53	0.39	0.32	0.33	0.36	0.27	0.29	0.35
TIME	1.51	1.54	1.58	1.91	1.50	1.50	1.66	1.67	1.50	1.50
MAX VEL	0.80	0.87	0.54	0.39	0.33	0.33	0.36	0.27	0.29	0.35
DEPTH	0.20	0.20	0.22	0.23	0.13	0.14	0.17	0.13	0.11	0.14
TIME	1.55	1.80	1.74	1.92	1.52	1.53	1.67	1.72	1.53	1.53

NODE	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130
ELEVATION	2480.36	2477.85	2473.27	2468.11	2465.12	2460.75	2455.14	2450.15	2446.25	2444.16
MAX DEPTH	0.18	0.12	0.13	0.22	0.12	0.12	0.14	0.15	0.20	0.11
VELOCITY	0.36	0.31	0.35	0.76	0.29	0.33	0.34	0.33	0.67	0.00
TIME	1.67	1.50	1.85	1.55	1.50	1.72	1.50	1.53	5.86	1.39
MAX VEL	0.36	0.31	0.35	0.78	0.29	0.33	0.35	0.33	0.67	0.30
DEPTH	0.18	0.12	0.13	0.22	0.12	0.12	0.14	0.15	0.20	0.10
TIME	1.68	1.52	1.86	1.60	1.51	1.73	1.52	1.54	6.69	1.41

NODE	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140
ELEVATION	2438.80	2434.60	2430.24	2428.12	2423.51	2420.11	2415.11	2412.64	2410.92	2744.90
MAX DEPTH	0.17	0.24	0.24	0.11	0.11	0.11	0.11	0.30	3.14	0.10
VELOCITY	0.36	0.42	0.36	0.00	0.00	0.00	0.00	0.76	3.76	0.00
TIME	6.30	5.88	6.05	1.41	1.39	1.42	1.32	6.28	6.33	1.35
MAX VEL	0.36	0.87	0.68	0.31	0.32	0.35	0.29	0.76	3.81	0.30
DEPTH	0.16	0.21	0.21	0.10	0.10	0.10	0.10	0.30	3.09	0.10
TIME	6.30	5.97	6.20	1.42	1.41	1.32	1.35	6.27	6.33	1.36

NODE	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150
ELEVATION	2740.56	2738.32	2735.31	2731.65	2725.94	2724.23	2720.36	2716.63	2712.11	2708.90
MAX DEPTH	0.13	0.12	0.11	0.13	0.23	0.12	0.12	0.13	0.13	0.12
VELOCITY	0.39	0.39	0.00	0.37	0.40	0.33	0.34	0.34	0.32	0.34
TIME	1.50	1.50	1.31	1.50	1.61	1.50	1.50	1.50	1.50	1.88
MAX VEL	0.39	0.39	0.30	0.37	0.81	0.33	0.34	0.34	0.32	0.34
DEPTH	0.13	0.12	0.11	0.13	0.21	0.12	0.12	0.13	0.13	0.12
TIME	1.51	1.51	1.32	1.52	1.67	1.51	1.52	1.52	1.52	1.88

NODE	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160
ELEVATION	2703.53	2702.30	2698.21	2694.57	2690.70	2686.55	2682.14	2679.58	2676.70	2671.42
MAX DEPTH	0.27	0.11	0.11	0.11	0.12	0.20	0.25	0.20	0.11	0.25
VELOCITY	1.00	0.00	0.00	0.29	0.30	0.85	0.89	0.44	0.00	0.94
TIME	1.68	1.36	1.30	1.50	1.50	1.84	1.73	2.13	1.30	2.02
MAX VEL	1.00	0.32	0.30	0.29	0.30	0.86	0.90	0.87	0.30	0.96
DEPTH	0.27	0.11	0.11	0.11	0.12	0.20	0.23	0.19	0.10	0.25
TIME	1.68	1.39	1.32	1.52	1.52	2.08	1.89	2.05	1.51	2.12

NODE	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170
LEVATION	2669.20	2665.58	2662.38	2658.88	2655.93	2652.81	2648.80	2643.16	2636.79	2635.97
DEPTH	0.21	0.12	0.12	0.26	0.16	0.16	0.20	0.29	0.59	0.20
OCITY	0.46	0.31	0.31	0.85	0.32	0.34	0.48	1.30	1.28	0.48
E	2.10	1.50	1.50	1.93	2.40	2.55	2.48	1.99	2.56	2.23
X VEL	0.92	0.31	0.31	0.89	0.32	0.34	0.96	1.31	1.28	0.96
DEPTH	0.20	0.12	0.12	0.22	0.16	0.16	0.20	0.29	0.59	0.19
TIME	2.22	1.51	1.52	2.09	2.51	2.60	2.48	2.00	2.56	2.19

NODE	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180
ELEVATION	2630.45	2630.50	2625.20	2624.58	2620.30	2615.73	2612.84	2610.27	2605.46	2605.30

MAX DEPTH	0.25	0.11	0.20	0.13	0.30	0.48	0.52	0.27	0.34	0.11
VELOCITY	0.85	0.00	0.35	0.33	1.11	1.21	1.06	1.08	1.08	0.00
TIME	2.55	1.31	5.12	5.07	4.75	4.94	4.99	5.02	5.02	1.35
MAX VEL	0.85	0.32	0.35	0.33	1.11	1.21	1.06	1.08	1.08	0.30
DEPTH	0.24	0.10	0.20	0.13	0.30	0.47	0.52	0.27	0.34	0.10
TIME	2.61	1.36	5.13	5.07	4.75	4.93	4.99	5.02	5.03	1.41
NODE	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190
ELEVATION	2602.14	2598.13	2595.08	2591.56	2588.20	2584.31	2581.10	2577.32	2573.54	2569.42
AX DEPTH	0.11	0.13	0.13	0.11	0.12	0.12	0.11	0.10	0.11	0.11
LOCITY	0.00	0.35	0.33	0.29	0.28	0.32	0.28	0.26	0.28	0.00
ME	1.34	1.49	1.57	1.50	1.50	1.51	1.48	1.31	1.50	1.30
AX VEL	0.29	0.35	0.33	0.29	0.28	0.32	0.28	0.27	0.28	0.28
DEPTH	0.11	0.13	0.13	0.11	0.12	0.12	0.11	0.10	0.11	0.10
TIME	1.42	1.50	1.51	1.51	1.51	1.52	1.49	1.50	1.51	1.88
NODE	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200
ELEVATION	2564.70	2560.03	2555.05	2550.26	2548.46	2545.11	2540.12	2535.21	2531.56	2528.47
MAX DEPTH	0.13	0.20	0.23	0.26	0.12	0.11	0.12	0.21	0.18	0.14
VELOCITY	0.32	0.45	0.96	0.90	0.31	0.00	0.31	0.76	0.34	0.34
TIME	1.50	5.55	5.52	5.59	2.31	1.32	1.50	1.60	1.80	1.85
MAX VEL	0.32	0.90	0.97	0.90	0.31	0.29	0.31	0.78	0.35	0.34
DEPTH	0.12	0.20	0.23	0.26	0.12	0.10	0.11	0.21	0.18	0.14
TIME	1.52	5.65	5.52	5.57	2.32	1.39	1.51	1.63	1.83	1.87
NODE	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210
ELEVATION	2524.06	2520.15	2516.48	2511.23	2510.05	2505.11	2500.01	2495.18	2490.78	2489.04
MAX DEPTH	0.14	0.15	0.12	0.21	0.11	0.11	0.13	0.18	0.22	0.12
VELOCITY	0.32	0.29	0.32	0.39	0.00	0.31	0.33	0.39	0.35	0.29
TIME	1.97	2.11	1.50	1.58	1.59	1.97	1.50	1.66	1.54	1.50
MAX VEL	0.32	0.29	0.32	0.81	0.30	0.31	0.33	0.39	0.73	0.30
DEPTH	0.14	0.15	0.12	0.20	0.10	0.11	0.13	0.18	0.21	0.12
TIME	1.98	2.17	1.51	1.63	1.60	1.98	1.52	1.71	1.59	1.52
NODE	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220
ELEVATION	2485.11	2480.15	2475.20	2470.82	2469.56	2463.29	2459.18	2455.12	2450.61	2445.20
MAX DEPTH	0.11	0.15	0.20	0.21	0.11	0.25	0.14	0.12	0.11	0.20
VELOCITY	0.30	0.37	0.42	0.57	0.00	0.40	0.31	0.29	0.31	0.39
TIME	1.50	1.72	1.69	1.84	1.38	1.66	1.77	1.92	1.50	2.03
MAX VEL	0.30	0.37	0.84	0.58	0.33	0.81	0.32	0.29	0.31	0.39
DEPTH	0.11	0.15	0.20	0.21	0.10	0.21	0.14	0.12	0.11	0.20
TIME	1.53	1.72	1.70	1.85	1.39	1.85	1.86	1.93	1.51	1.97
NODE	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230
ELEVATION	2441.07	2436.95	2434.05	2429.90	2426.27	2422.94	2420.02	2415.13	2411.13	2409.68
MAX DEPTH	0.18	0.16	0.13	0.20	0.20	0.13	0.11	0.13	0.20	0.83
VELOCITY	0.38	0.28	0.30	0.37	0.38	0.32	0.00	0.31	0.26	4.81
TIME	1.91	1.91	6.63	1.91	6.22	2.30	1.42	2.44	6.23	6.33
MAX VEL	0.38	0.28	0.30	0.74	0.76	0.32	0.29	0.31	0.50	4.81
DEPTH	0.18	0.16	0.13	0.20	0.20	0.13	0.11	0.13	0.20	0.83
TIME	1.91	1.95	6.63	1.92	6.22	2.30	1.43	2.50	7.11	6.33
NODE	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240
ELEVATION	2739.62	2737.76	2731.00	2731.54	2728.02	2724.39	2720.20	2716.70	2711.99	2708.98
MAX DEPTH	0.11	0.11	0.27	0.11	0.11	0.12	0.20	0.13	0.16	0.13
VELOCITY	0.00	0.00	0.33	0.00	0.00	0.33	0.39	0.35	0.41	0.37
TIME	1.34	1.34	1.59	1.39	1.30	1.50	1.70	1.50	1.59	1.59
AX VEL	0.33	0.34	0.33	0.30	0.31	0.33	0.39	0.36	0.41	0.37
PTH	0.10	0.10	0.27	0.10	0.10	0.12	0.20	0.13	0.16	0.13
ME	1.43	1.35	1.60	1.41	1.51	1.51	1.71	1.51	1.60	1.60
NODE	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250
ELEVATION	2705.10	2701.27	2696.53	2694.38	2690.67	2687.83	2684.30	2680.34	2676.23	2672.90
MAX DEPTH	0.11	0.16	0.20	0.11	0.13	0.11	0.12	0.21	0.25	0.21
VELOCITY	0.35	0.45	0.43	0.30	0.30	0.31	0.30	0.41	0.86	0.42
TIME	1.50	1.95	1.75	1.50	1.50	1.50	1.50	1.91	2.01	2.16
MAX VEL	0.35	0.45	0.87	0.30	0.31	0.30	0.30	0.83	0.87	0.86
DEPTH	0.11	0.16	0.20	0.11	0.13	0.11	0.12	0.20	0.24	0.20
TIME	1.51	1.95	1.76	1.51	1.51	1.53	1.52	1.91	2.07	2.16
NODE	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260
ELEVATION	2669.96	2665.19	2661.82	2658.76	2655.57	2652.72	2650.06	2646.55	2642.33	2638.15
MAX DEPTH	0.14	0.24	0.21	0.13	0.14	0.22	0.12	0.13	0.16	0.18
VELOCITY	0.35	0.95	0.94	0.34	0.34	0.39	0.29	0.31	0.39	0.46
TIME	2.17	2.13	2.11	1.50	2.50	2.08	2.64	2.71	2.61	2.56
MAX VEL	0.35	0.95	0.95	0.34	0.34	0.80	0.29	0.31	0.39	0.46
DEPTH	0.14	0.24	0.21	0.13	0.14	0.21	0.12	0.13	0.16	0.18
TIME	2.22	2.14	2.12	1.52	2.50	2.13	2.62	2.72	2.62	2.57
NODE	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270
ELEVATION	2632.15	2627.97	2625.22	2621.94	2620.25	2617.70	2615.20	2612.18	2608.70	2603.41
MAX DEPTH	0.35	0.38	0.22	0.20	0.11	0.16	0.20	0.26	0.28	0.38
VELOCITY	1.19	1.15	1.10	0.50	0.31	0.38	0.43	0.90	1.15	1.14
TIME	2.62	2.63	2.64	2.30	5.25	5.11	4.81	4.73	4.70	5.04
MAX VEL	1.19	1.15	1.10	1.02	0.31	0.38	0.85	0.90	1.15	1.14
DEPTH	0.35	0.38	0.22	0.20	0.11	0.16	0.20	0.26	0.28	0.38
TIME	2.62	2.64	2.68	2.31	5.25	5.11	4.91	4.74	4.70	5.10
NODE	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280
ELEVATION	2600.40	2599.15	2595.14	2590.78	2588.66	2585.13	2582.65	2577.34	2575.11	2571.24
MAX DEPTH	0.40	0.14	0.14	0.23	0.13	0.13	0.11	0.16	0.11	0.10
VELOCITY	1.13	0.38	0.34	0.40	0.37	0.33	0.00	0.38	0.30	0.27
TIME	4.94	5.07	5.33	1.67	1.50	1.50	1.36	1.49	1.50	1.49
MAX VEL	1.15	0.39	0.34	0.81	0.37	0.33	0.31	0.38	0.30	0.27
DEPTH	0.39	0.14	0.14	0.21	0.13	0.13	0.11	0.16	0.11	0.10
TIME	5.03	5.05	5.33	5.08	1.52	1.53	1.38	1.50	1.51	1.50
NODE	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290
ELEVATION	2567.25	2563.54	2559.55	2553.96	2549.42	2545.26	2541.94	2539.36	2535.11	2530.26
MAX DEPTH	0.12	0.12	0.10	0.13	0.22	0.26	0.20	0.11	0.11	0.26
VELOCITY	0.30	0.31	0.00	0.32	0.86	0.83	0.43	0.00	0.29	0.37
TIME	1.50	1.50	1.58	1.50	5.66	5.57	5.73	1.30	1.50	1.73
MAX VEL	0.30	0.31	0.31	0.32	0.86	0.83	0.87	0.27	0.29	0.78
DEPTH	0.12	0.11	0.10	0.13	0.22	0.26	0.20	0.10	0.11	0.23
TIME	1.51	1.51	1.59	1.53	5.66	5.57	5.70	1.32	1.51	1.88
NODE	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300
VATION	2526.85	2522.00	2518.67	2515.11	2510.16	2505.71	2502.61	2498.22	2495.05	2490.47
X DEPTH	0.22	0.18	0.16	0.11	0.16	0.21	0.12	0.13	0.11	0.14
VELOCITY	0.43	0.38	0.39	0.30	0.37	0.81	0.33	0.31	0.00	0.32
TIME	1.94	2.06	2.22	1.50	1.91	1.66	1.50	1.50	1.35	1.63
MAX VEL	0.85	0.38	0.39	0.30	0.37	0.82	0.33	0.31	0.28	0.32
DEPTH	0.20	0.18	0.16	0.11	0.16	0.21	0.12	0.13	0.10	0.14
TIME	1.98	2.09	2.26	1.52	1.94	1.67	1.51	1.51	1.36	1.93

NODE	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310
ELEVATION	2486.40	2482.75	2479.90	2475.11	2471.06	2467.63	2463.96	2457.98	2453.68	2449.01
MAX DEPTH	0.24	0.15	0.11	0.11	0.12	0.12	0.11	0.22	0.15	0.18
VELOCITY	0.38	0.35	0.00	0.28	0.29	0.28	0.00	0.43	0.36	0.33
TIME	1.66	1.72	1.30	1.50	1.50	1.52	1.39	1.91	1.94	2.03
MAX VEL	0.79	0.35	0.29	0.27	0.29	0.28	0.32	0.86	0.36	0.33
DEPTH	0.21	0.15	0.11	0.11	0.12	0.12	0.10	0.21	0.15	0.18
TIME	1.77	1.72	1.31	1.53	1.51	1.51	1.41	1.94	1.95	2.04

NODE	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320
[illegible]EVATION	2445.13	2440.38	2435.21	2432.99	2429.55	2425.24	2421.24	2416.59	2414.54	2410.23
[illegible]X DEPTH	0.13	0.16	0.21	0.15	0.19	0.24	0.26	0.30	0.19	0.23
[illegible]LOCITY	0.33	0.39	0.65	0.31	0.40	0.91	1.04	0.67	0.40	0.78
TIME	1.50	1.91	1.91	1.92	1.86	1.97	2.05	2.05	2.25	2.46
MAX VEL	0.33	0.39	0.65	0.31	0.40	0.92	1.04	0.68	0.40	0.78
DEPTH	0.13	0.16	0.21	0.15	0.18	0.24	0.26	0.30	0.19	0.23
TIME	1.53	1.93	1.93	2.01	1.95	1.98	2.11	2.06	2.25	2.48

NODE	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330
ELEVATION	2408.75	2405.40	2733.27	2732.00	2728.63	2727.10	2724.12	2720.27	2716.78	2713.32
MAX DEPTH	0.47	1.90	0.11	0.11	0.13	0.12	0.11	0.13	0.15	0.13
VELOCITY	1.30	3.20	0.32	0.00	0.37	0.38	0.31	0.30	0.37	0.36
TIME	6.36	6.41	1.50	1.35	1.51	1.51	1.50	1.50	1.58	1.79
MAX VEL	1.30	3.21	0.32	0.34	0.37	0.38	0.31	0.30	0.37	0.36
DEPTH	0.47	1.90	0.11	0.10	0.13	0.12	0.11	0.13	0.15	0.13
TIME	6.38	6.36	1.51	1.39	1.52	1.52	1.51	1.52	1.58	1.77

NODE	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340
ELEVATION	2709.05	2704.18	2701.04	2695.81	2691.94	2690.03	2687.54	2684.49	2680.58	2677.96
MAX DEPTH	0.14	0.21	0.15	0.20	0.22	0.22	0.13	0.12	0.15	0.13
VELOCITY	0.38	0.37	0.38	0.39	0.87	0.86	0.32	0.28	0.31	0.32
TIME	1.58	1.77	1.91	1.91	1.92	1.95	1.50	1.50	1.53	1.50
MAX VEL	0.38	0.37	0.38	0.80	0.88	0.86	0.32	0.28	0.31	0.32
DEPTH	0.14	0.21	0.15	0.20	0.22	0.22	0.13	0.12	0.15	0.13
TIME	1.51	1.83	1.92	1.91	1.93	1.96	1.51	1.52	1.57	1.52

NODE	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350
ELEVATION	2674.50	2670.80	2666.61	2663.27	2658.51	2654.34	2651.51	2648.89	2646.94	2643.80
MAX DEPTH	0.14	0.22	0.24	0.20	0.22	0.23	0.20	0.21	0.13	0.11
VELOCITY	0.34	0.87	0.43	0.45	0.95	0.93	0.42	0.38	0.31	0.30
TIME	2.10	2.09	1.77	2.30	2.24	2.27	2.14	2.14	2.73	1.50
MAX VEL	0.34	0.87	0.84	0.91	0.95	0.93	0.85	0.78	0.31	0.30
DEPTH	0.14	0.22	0.22	0.19	0.22	0.23	0.20	0.20	0.13	0.10
TIME	2.11	2.10	2.18	2.23	2.25	2.27	2.14	2.15	2.72	1.52

NODE	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360
ELEVATION	2639.90	2635.42	2632.10	2627.51	2622.11	2615.72	2616.38	2612.94	2610.70	2609.60
MAX DEPTH	0.12	0.17	0.11	0.20	0.29	0.59	0.11	0.14	0.21	0.11
VELOCITY	0.30	0.30	0.29	0.47	1.31	1.34	0.32	0.35	0.86	0.31
TIME	1.50	2.79	2.77	2.22	2.68	1.80	1.50	5.24	5.10	4.84
MAX VEL	0.29	0.30	0.29	0.95	1.31	3.62	0.32	0.35	0.87	0.31
DEPTH	0.11	0.17	0.10	0.20	0.29	0.53	0.11	0.14	0.20	0.11
TIME	1.52	2.79	2.78	2.23	2.68	2.28	1.51	5.25	5.10	4.83

NODE	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370
ELEVATION	2606.61	2603.10	2598.61	2595.37	2591.08	2590.15	2585.20	2580.26	2579.82	2575.13
MAX DEPTH	0.20	0.20	0.42	0.37	0.33	0.15	0.20	0.26	0.10	0.13
VELOCITY	0.37	0.86	1.11	1.19	1.12	0.36	0.45	0.89	0.00	0.33
[illegible]ME	4.82	4.89	4.95	5.07	5.15	5.23	5.62	5.55	1.30	1.49
[illegible]X VEL	0.75	0.86	1.12	1.19	1.12	0.36	0.90	0.89	0.28	0.34
[illegible]PTH	0.20	0.20	0.42	0.37	0.33	0.14	0.20	0.26	0.10	0.13
[illegible]ME	4.97	5.20	5.01	5.07	5.14	5.24	5.09	5.55	1.63	1.50

NODE	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380
ELEVATION	2570.22	2567.91	2565.11	2560.89	2556.40	2551.76	2548.36	2543.73	2540.24	2535.30
MAX DEPTH	0.22	0.14	0.11	0.13	0.14	0.14	0.13	0.21	0.24	0.30
VELOCITY	0.37	0.35	0.28	0.32	0.33	0.32	0.32	0.38	0.99	0.93
TIME	1.59	1.55	1.50	1.50	1.50	1.50	1.50	1.86	2.08	5.80
MAX VEL	0.37	0.35	0.28	0.32	0.33	0.32	0.32	0.76	1.00	0.93
DEPTH	0.21	0.14	0.11	0.13	0.14	0.14	0.13	0.20	0.23	0.29
TIME	1.64	1.56	1.51	1.53	1.53	1.52	1.52	1.91	2.08	5.96

NODE	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390
ELEVATION	2534.42	2530.11	2525.13	2520.63	2516.08	2511.50	2509.05	2505.14	2500.21	2495.24
MAX DEPTH	0.11	0.11	0.13	0.21	0.20	0.21	0.13	0.14	0.21	0.24
VELOCITY	0.33	0.00	0.33	0.43	0.43	0.46	0.32	0.35	0.91	0.81
TIME	2.39	1.36	1.92	1.98	2.02	2.27	2.37	2.50	1.70	1.97
MAX VEL	0.33	0.31	0.33	0.86	0.87	0.47	0.32	0.35	0.91	0.84
DEPTH	0.11	0.10	0.13	0.20	0.20	0.21	0.13	0.14	0.21	0.23
TIME	2.39	1.38	1.93	2.15	2.23	2.27	2.37	2.48	1.71	1.76

NODE	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400
ELEVATION	2492.40	2488.55	2486.08	2481.29	2476.59	2473.11	2469.48	2465.15	2461.77	2457.49
MAX DEPTH	0.14	0.15	0.11	0.22	0.22	0.14	0.13	0.15	0.11	0.11
VELOCITY	0.32	0.34	0.00	0.43	0.38	0.30	0.36	0.32	0.29	0.33
TIME	1.92	1.92	1.29	1.80	1.93	2.05	1.50	1.62	1.50	1.50
MAX VEL	0.32	0.34	0.29	0.89	0.38	0.30	0.36	0.32	0.29	0.33
DEPTH	0.14	0.15	0.10	0.20	0.21	0.14	0.13	0.15	0.11	0.11
TIME	1.93	1.88	1.60	1.84	1.99	2.14	1.52	1.63	1.51	1.51

NODE	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410
ELEVATION	2451.61	2448.99	2445.13	2440.15	2435.19	2431.74	2429.29	2425.17	2421.69	2417.76
MAX DEPTH	0.20	0.12	0.13	0.15	0.19	0.26	0.20	0.17	0.11	0.12
VELOCITY	0.47	0.29	0.34	0.36	0.36	0.65	0.37	0.34	0.28	0.28
TIME	1.96	2.05	2.15	1.51	1.84	1.59	1.70	1.97	2.04	2.20
MAX VEL	0.48	0.29	0.34	0.36	0.36	0.67	0.69	0.34	0.28	0.28
DEPTH	0.20	0.12	0.13	0.15	0.19	0.24	0.20	0.17	0.11	0.12
TIME	1.98	2.05	2.16	1.55	1.85	2.36	1.71	1.98	2.05	2.22

NODE	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420
ELEVATION	2413.70	2410.20	2405.92	2404.42	2729.99	2725.36	2725.11	2720.18	2720.11	2716.69
MAX DEPTH	0.25	0.20	0.37	0.99	0.10	0.17	0.11	0.18	0.11	0.12
VELOCITY	0.70	0.42	0.73	5.61	0.00	0.46	0.00	0.32	0.00	0.34
TIME	1.70	2.01	6.53	6.42	1.36	1.52	1.36	1.53	1.36	1.49
MAX VEL	0.77	0.85	0.73	5.66	0.29	0.46	0.39	0.32	0.31	0.34
[illegible]DEPTH	0.22	0.19	0.36	0.99	0.10	0.17	0.11	0.18	0.11	0.11
[illegible]ME	1.87	2.02	6.60	6.42	1.38	1.53	1.39	1.57	1.38	1.50

NODE	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430
[illegible]EVATION	2713.73	2709.07	2705.13	2700.81	2698.01	2694.08	2690.16	2685.94	2684.05	2680.88
MAX DEPTH	0.11	0.13	0.13	0.18	0.13	0.11	0.16	0.22	0.14	0.13
VELOCITY	0.32	0.36	0.35	0.45	0.34	0.29	0.44	0.99	0.34	0.30
TIME	1.50	1.50	1.50	1.83	1.91	1.50	1.98	1.99	2.03	1.50
MAX VEL	0.32	0.36	0.35	0.45	0.34	0.29	0.44	0.99	0.34	0.30
DEPTH	0.11	0.13	0.13	0.18	0.13	0.11	0.15	0.22	0.14	0.13

TIME	1.51	1.52	1.52	1.83	1.92	1.51	1.98	2.00	2.04	1.52
NODE	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440
ELEVATION	2678.60	2675.12	2671.35	2667.96	2665.08	2660.76	2656.07	2651.54	2647.90	2645.22
MAX DEPTH	0.11	0.12	0.14	0.15	0.14	0.20	0.22	0.27	0.26	0.22
VELOCITY	0.29	0.29	0.34	0.35	0.33	0.43	0.90	1.03	1.08	1.03
TIME	1.50	1.50	1.50	1.76	2.21	1.83	2.24	2.28	2.32	2.32
MAX VEL	0.29	0.29	0.34	0.35	0.33	0.88	0.90	1.03	1.09	1.04
DEPTH	0.11	0.12	0.14	0.15	0.14	0.20	0.22	0.27	0.26	0.21
TIME	1.53	1.53	1.52	1.76	2.22	2.19	2.25	2.28	2.33	2.33
NODE	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450
ELEVATION	2643.50	2640.11	2636.24	2633.60	2630.11	2625.27	2620.97	2617.04	2611.16	2610.07
MAX DEPTH	0.12	0.11	0.14	0.12	0.11	0.13	0.20	0.20	0.54	0.20
VELOCITY	0.38	0.28	0.32	0.28	0.30	0.32	0.40	0.49	1.46	0.43
TIME	2.72	1.50	1.50	1.50	1.50	1.50	2.71	2.77	2.30	1.83
MAX VEL	0.38	0.28	0.32	0.28	0.30	0.32	0.80	0.99	4.03	0.87
DEPTH	0.12	0.11	0.13	0.12	0.11	0.13	0.20	0.20	0.48	0.20
TIME	2.73	1.52	1.52	1.51	1.51	1.52	2.77	2.77	2.30	5.14
NODE	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460
ELEVATION	2606.20	2605.39	2602.71	2600.68	2597.43	2593.74	2590.25	2585.36	2583.87	2580.16
MAX DEPTH	0.23	0.16	0.15	0.11	0.20	0.26	0.25	0.36	0.18	0.16
VELOCITY	0.85	0.38	0.35	0.29	0.38	0.94	1.02	1.07	0.42	0.38
TIME	5.14	5.13	5.23	5.32	5.04	5.07	5.17	5.18	5.28	5.51
MAX VEL	0.85	0.38	0.35	0.29	0.77	0.95	1.02	1.07	0.42	0.38
DEPTH	0.22	0.16	0.15	0.11	0.20	0.25	0.25	0.36	0.18	0.16
TIME	5.22	5.13	5.34	5.32	5.20	5.04	5.17	5.22	5.28	5.51
NODE	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470
ELEVATION	2575.28	2573.24	2569.09	2565.18	2561.26	2558.76	2555.11	2550.15	2546.18	2541.73
MAX DEPTH	0.28	0.12	0.15	0.18	0.18	0.11	0.11	0.15	0.15	0.16
VELOCITY	0.86	0.29	0.33	0.44	0.36	0.00	0.30	0.33	0.35	0.35
TIME	5.44	1.54	1.74	1.77	1.64	1.31	1.50	1.58	1.59	1.62
MAX VEL	0.86	0.29	0.33	0.44	0.36	0.32	0.30	0.33	0.35	0.35
DEPTH	0.28	0.12	0.15	0.18	0.18	0.11	0.11	0.15	0.15	0.16
TIME	5.44	1.55	1.75	1.78	1.70	1.51	1.51	1.59	1.60	1.63
NODE	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480
ELEVATION	2538.47	2535.19	2530.26	2526.48	2522.18	2519.73	2515.14	2510.23	2506.95	2502.43
MAX DEPTH	0.16	0.19	0.26	0.20	0.21	0.13	0.14	0.23	0.16	0.18
VELOCITY	0.32	0.44	0.39	0.42	0.37	0.37	0.35	0.38	0.38	0.41
TIME	1.98	2.18	5.60	2.18	1.79	2.30	2.36	1.92	2.38	2.48
MAX VEL	0.33	0.44	0.89	0.83	0.42	0.37	0.35	0.81	0.38	0.41
DEPTH	0.16	0.19	0.24	0.19	0.20	0.13	0.14	0.23	0.16	0.18
TIME	2.03	2.19	5.84	2.26	2.20	2.31	2.43	2.32	2.39	2.49
NODE	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490
ELEVATION	2500.11	2495.11	2490.24	2486.62	2482.29	2480.11	2475.14	2471.33	2467.96	2461.37
MAX DEPTH	0.11	0.11	0.24	0.20	0.19	0.11	0.14	0.19	0.14	0.25
VELOCITY	0.00	0.30	0.38	0.43	0.43	0.00	0.31	0.36	0.41	0.76
TIME	1.36	2.30	1.70	1.83	2.03	1.36	2.02	2.14	2.30	1.51
MAX VEL	0.29	0.30	0.80	0.86	0.43	0.29	0.31	0.37	0.41	0.80
DEPTH	0.10	0.11	0.23	0.20	0.19	0.10	0.14	0.19	0.14	0.24
TIME	1.43	2.30	1.78	1.84	2.04	1.39	2.03	2.28	2.30	1.60
NODE	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500
ELEVATION	2460.12	2455.13	2450.20	2447.82	2445.11	2440.11	2437.50	2431.84	2429.35	2425.11
X DEPTH	0.12	0.13	0.20	0.14	0.11	0.11	0.11	0.12	0.11	0.11
OCITY	0.32	0.34	0.75	0.32	0.00	0.25	0.00	0.27	0.00	0.31
IE	1.50	1.50	1.97	2.08	1.39	1.50	1.41	1.51	1.38	1.50
AX VEL	0.32	0.34	0.75	0.32	0.30	0.25	0.31	0.27	0.27	0.31
DEPTH	0.12	0.13	0.20	0.14	0.10	0.11	0.10	0.12	0.11	0.11
TIME	1.51	1.53	1.98	2.04	1.41	1.51	1.42	1.52	1.39	1.51
NODE	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510
ELEVATION	2420.17	2415.45	2414.66	2410.11	2405.40	2404.66	2399.70	2726.00	2722.76	2716.48
MAX DEPTH	0.17	0.22	0.11	0.11	0.20	0.13	2.48	0.10	0.12	0.22
VELOCITY	0.40	0.31	0.00	0.29	0.42	0.34	3.53	0.00	0.35	0.90
TIME	1.98	1.52	1.41	1.49	2.02	6.67	6.44	1.38	1.48	1.52
MAX VEL	0.40	0.48	0.28	0.29	0.73	0.35	3.56	0.27	0.35	0.90
DEPTH	0.17	0.22	0.10	0.11	0.20	0.10	2.47	0.10	0.12	0.22
TIME	1.98	1.58	1.51	1.50	1.92	1.36	6.45	1.39	1.49	1.53
NODE	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520
ELEVATION	2716.49	2715.15	2712.42	2708.44	2705.58	2701.02	2697.86	2692.92	2690.96	2687.25
MAX DEPTH	0.13	0.12	0.12	0.14	0.11	0.14	0.18	0.20	0.13	0.11
VELOCITY	0.37	0.29	0.35	0.37	0.31	0.29	0.41	0.47	0.35	0.00
TIME	1.49	1.49	1.49	1.50	1.50	1.54	1.87	1.84	1.50	1.30
MAX VEL	0.37	0.30	0.35	0.37	0.31	0.29	0.41	0.95	0.35	0.34
DEPTH	0.13	0.12	0.12	0.14	0.11	0.14	0.18	0.20	0.13	0.10
TIME	1.51	1.50	1.50	1.51	1.52	1.53	1.84	1.85	1.53	1.35
NODE	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530
ELEVATION	2680.61	2679.50	2678.08	2674.94	2671.96	2669.20	2665.01	2661.82	2659.25	2655.27
MAX DEPTH	0.27	0.22	0.12	0.13	0.14	0.11	0.16	0.16	0.11	0.11
VELOCITY	0.92	0.87	0.29	0.30	0.34	0.30	0.34	0.37	0.00	0.28
TIME	2.01	1.64	1.50	1.50	1.50	1.50	1.61	1.91	1.30	2.24
MAX VEL	0.92	0.88	0.29	0.31	0.34	0.30	0.34	0.37	0.29	0.28
DEPTH	0.27	0.22	0.12	0.13	0.13	0.11	0.15	0.16	0.11	0.11
TIME	2.07	1.65	1.53	1.52	1.52	1.52	1.67	1.92	1.51	2.25
NODE	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540
ELEVATION	2651.03	2645.33	2640.40	2636.56	2636.92	2633.83	2630.15	2627.77	2624.29	2618.99
MAX DEPTH	0.17	0.29	0.40	0.47	0.11	0.11	0.15	0.11	0.11	0.14
VELOCITY	0.42	1.14	1.25	1.45	0.00	0.00	0.34	0.00	0.00	0.31
TIME	2.43	2.00	2.36	2.45	1.32	1.30	1.54	1.31	1.35	1.51
MAX VEL	0.42	1.14	1.25	1.46	0.34	0.28	0.34	0.31	0.30	0.30
DEPTH	0.17	0.29	0.40	0.47	0.10	0.10	0.15	0.11	0.10	0.14
TIME	2.43	2.01	2.37	2.45	1.39	1.38	1.51	1.35	1.45	1.53
NODE	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550
ELEVATION	2615.14	2610.67	2605.57	2605.17	2600.34	2598.96	2596.30	2593.82	2591.10	2587.30
MAX DEPTH	0.14	0.20	0.57	0.17	0.20	0.14	0.15	0.13	0.13	0.22
VELOCITY	0.33	0.46	1.36	0.44	0.43	0.35	0.33	0.33	0.33	0.77
IME	2.91	2.94	2.48	2.81	2.07	5.42	5.43	5.31	5.29	5.04
VEL	0.33	0.92	1.40	0.44	0.86	0.35	0.33	0.33	0.33	0.84
TH	0.14	0.20	0.56	0.17	0.19	0.14	0.15	0.13	0.13	0.21
E	2.87	2.95	2.48	2.82	2.08	5.43	5.50	5.29	5.29	5.07
NODE	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560
ELEVATION	2583.98	2580.32	2576.93	2574.28	2570.20	2567.25	2563.13	2557.45	2556.46	2550.65
MAX DEPTH	0.26	0.32	0.20	0.20	0.20	0.12	0.11	0.26	0.11	0.19
VELOCITY	0.92	1.03	0.43	0.43	0.45	0.32	0.32	0.38	0.33	0.36
TIME	4.95	5.28	5.46	5.54	1.72	1.92	1.50	1.54	1.50	1.80

MAX VEL	0.92	1.03	0.88	0.86	0.92	0.32	0.32	0.72	0.33	0.36
DEPTH	0.26	0.32	0.20	0.20	0.20	0.12	0.11	0.22	0.11	0.19
TIME	4.95	5.28	5.15	5.57	5.47	1.93	1.53	1.95	1.53	1.81
NODE	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570
ELEVATION	2548.85	2545.00	2540.13	2535.80	2532.77	2528.75	2524.86	2521.39	2518.01	2511.62
MAX DEPTH	0.11	0.11	0.13	0.17	0.13	0.16	0.25	0.26	0.14	0.20
VELOCITY	0.33	0.32	0.33	0.32	0.34	0.34	0.57	0.40	0.39	0.33
TIME	1.50	1.50	1.50	1.83	2.22	2.25	5.82	6.10	1.99	2.19
MAX VEL	0.33	0.32	0.33	0.32	0.34	0.34	0.77	0.82	0.39	0.67
PTH	0.11	0.11	0.13	0.17	0.13	0.16	0.21	0.21	0.14	0.20
ME	1.51	1.32	1.51	2.02	2.23	2.27	5.91	2.27	2.01	2.19
NODE	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580
ELEVATION	2509.74	2505.22	2500.25	2495.29	2493.67	2489.75	2485.18	2480.21	2475.26	2473.45
MAX DEPTH	0.12	0.22	0.25	0.29	0.16	0.14	0.18	0.21	0.26	0.18
VELOCITY	0.31	0.94	1.04	0.92	0.34	0.33	0.41	0.91	0.90	0.34
TIME	2.45	2.33	2.32	2.14	2.50	2.69	2.72	1.80	1.88	2.24
MAX VEL	0.31	0.94	1.04	0.94	0.34	0.33	0.41	0.91	0.90	0.34
DEPTH	0.12	0.22	0.25	0.28	0.16	0.14	0.18	0.20	0.26	0.18
TIME	2.49	2.47	2.32	2.36	2.50	2.69	2.72	1.81	1.88	2.25
NODE	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590
ELEVATION	2470.19	2466.07	2462.28	2457.03	2454.01	2450.12	2445.38	2442.17	2437.64	2435.12
MAX DEPTH	0.19	0.19	0.11	0.26	0.19	0.12	0.22	0.14	0.17	0.12
VELOCITY	0.39	0.35	0.00	0.36	0.39	0.31	0.38	0.33	0.34	0.27
TIME	2.27	2.39	1.31	1.63	1.90	1.95	1.64	1.66	1.94	1.50
MAX VEL	0.39	0.35	0.31	0.72	0.39	0.31	0.78	0.33	0.34	0.27
DEPTH	0.19	0.19	0.11	0.24	0.19	0.12	0.20	0.14	0.17	0.12
TIME	2.35	2.40	1.34	1.72	1.93	1.97	1.95	1.66	1.95	1.51
NODE	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600
ELEVATION	2431.34	2426.73	2423.76	2420.12	2416.34	2411.81	2408.39	2405.14	2400.77	2398.58
MAX DEPTH	0.12	0.15	0.13	0.12	0.12	0.17	0.14	0.14	0.20	1.03
VELOCITY	0.30	0.27	0.28	0.27	0.29	0.31	0.28	0.32	0.33	5.51
TIME	1.50	1.50	1.50	1.50	1.50	1.64	1.52	1.58	2.14	6.48
MAX VEL	0.30	0.27	0.28	0.27	0.29	0.31	0.28	0.32	0.69	5.64
DEPTH	0.12	0.15	0.13	0.12	0.11	0.16	0.13	0.14	0.20	1.03
TIME	1.51	1.56	1.51	1.52	1.52	1.65	1.50	1.54	1.92	6.44
NODE	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610
ELEVATION	2721.75	2719.82	2715.62	2710.28	2710.60	2708.44	2703.95	2700.83	2697.95	2695.32
MAX DEPTH	0.11	0.11	0.12	0.28	0.11	0.11	0.15	0.15	0.12	0.11
VELOCITY	0.00	0.00	0.33	1.07	0.00	0.00	0.38	0.36	0.33	0.30
TIME	1.36	1.32	1.50	1.57	1.32	1.31	1.50	1.57	1.50	1.50
MAX VEL	0.28	0.30	0.33	1.07	0.35	0.30	0.38	0.36	0.33	0.30
DEPTH	0.10	0.10	0.12	0.27	0.11	0.11	0.15	0.15	0.12	0.11
TIME	1.38	1.50	1.51	1.59	1.35	1.32	1.52	1.59	1.52	1.51
NODE	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620
ELEVATION	2692.44	2685.29	2683.85	2680.11	2675.24	2673.98	2672.44	2669.18	2665.17	2662.52
MAX DEPTH	0.11	0.29	0.12	0.11	0.24	0.21	0.11	0.13	0.17	0.14
VELOCITY	0.00	0.89	0.33	0.34	0.89	0.56	0.00	0.30	0.32	0.33
TIME	1.38	1.98	1.56	1.50	1.57	1.82	1.31	1.50	1.59	1.50
MAX VEL	0.36	0.92	0.34	0.34	0.91	0.80	0.28	0.30	0.32	0.33
DEPTH	0.11	0.27	0.12	0.11	0.24	0.20	0.11	0.13	0.17	0.14
TIME	1.39	1.64	1.57	1.51	2.06	1.72	1.34	1.52	1.60	1.52
NODE	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630
EVATION	2659.17	2655.18	2652.36	2649.76	2645.11	2640.57	2635.99	2630.59	2631.07	2627.26
DEPTH	0.15	0.18	0.13	0.11	0.11	0.19	0.29	0.59	0.11	0.12
LOCITY	0.36	0.43	0.32	0.00	0.00	0.41	1.21	1.40	0.00	0.31
TIME	1.71	1.92	1.50	1.38	1.30	2.48	2.50	2.16	1.41	1.50
MAX VEL	0.36	0.43	0.32	0.29	0.28	0.41	1.21	3.78	0.31	0.31
DEPTH	0.15	0.18	0.12	0.10	0.10	0.18	0.29	0.55	0.10	0.11
TIME	1.71	1.93	1.52	1.39	1.49	2.49	2.49	2.75	1.45	1.51
NODE	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640
ELEVATION	2623.85	2620.13	2617.51	2613.22	2609.08	2603.90	2600.44	2596.31	2593.97	2593.60
MAX DEPTH	0.14	0.13	0.11	0.12	0.12	0.30	0.44	0.33	0.24	0.11
VELOCITY	0.37	0.30	0.00	0.29	0.33	0.97	1.24	1.12	1.04	0.00
TIME	1.50	1.50	1.36	1.50	1.50	2.81	2.77	3.02	2.82	1.39
MAX VEL	0.37	0.30	0.29	0.29	0.33	0.98	1.25	1.13	1.05	0.36
DEPTH	0.14	0.12	0.10	0.12	0.12	0.30	0.44	0.33	0.24	0.11
TIME	1.51	1.51	1.39	1.51	1.53	2.81	2.92	3.03	2.83	1.41
NODE	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650
ELEVATION	2590.13	2587.27	2584.27	2581.36	2578.86	2574.66	2570.33	2567.80	2562.91	2560.17
MAX DEPTH	0.13	0.14	0.15	0.21	0.20	0.27	0.33	0.20	0.26	0.17
VELOCITY	0.26	0.34	0.33	0.64	0.46	1.00	0.97	0.46	0.96	0.37
TIME	1.50	5.58	5.59	5.10	5.21	5.20	5.40	5.48	5.55	5.72
MAX VEL	0.26	0.34	0.33	0.64	0.94	1.01	0.97	0.93	0.96	0.37
DEPTH	0.13	0.14	0.15	0.21	0.20	0.26	0.33	0.20	0.26	0.17
TIME	1.51	5.58	5.59	5.11	5.16	5.20	5.44	5.49	5.55	5.72
NODE	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660
ELEVATION	2556.56	2553.19	2549.97	2545.16	2540.92	2536.63	2533.15	2530.12	2525.85	2523.76
MAX DEPTH	0.20	0.20	0.12	0.16	0.15	0.15	0.16	0.12	0.14	0.11
VELOCITY	0.42	0.44	0.32	0.37	0.34	0.35	0.40	0.30	0.32	0.29
TIME	5.64	1.81	1.92	1.82	1.51	1.55	1.71	1.50	2.30	1.50
MAX VEL	0.85	0.89	0.32	0.37	0.34	0.35	0.40	0.30	0.32	0.29
DEPTH	0.20	0.20	0.11	0.16	0.15	0.15	0.16	0.12	0.14	0.11
TIME	5.65	1.82	1.95	1.83	1.52	1.57	1.83	1.52	2.30	1.51
NODE	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670
ELEVATION	2520.13	2515.66	2510.26	2507.73	2503.81	2500.14	2495.40	2490.28	2488.10	2484.23
MAX DEPTH	0.12	0.20	0.26	0.22	0.16	0.14	0.20	0.28	0.20	0.13
VELOCITY	0.31	0.47	0.32	0.37	0.31	0.34	0.45	0.83	0.45	0.34
TIME	2.00	2.22	6.32	6.54	2.49	2.35	2.52	2.41	2.61	2.76
MAX VEL	0.31	0.94	0.68	0.54	0.31	0.34	0.91	0.83	0.45	0.34
DEPTH	0.12	0.20	0.24	0.20	0.16	0.14	0.20	0.28	0.20	0.13
TIME	2.00	2.08	2.38	2.07	2.36	2.36	2.53	2.43	2.61	2.76
NODE	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680
ELEVATION	2479.19	2475.15	2470.33	2469.92	2464.55	2460.12	2455.99	2452.44	2447.98	2445.11
AX DEPTH	0.20	0.15	0.33	0.10	0.13	0.12	0.13	0.15	0.17	0.11
LOCITY	0.44	0.36	0.92	0.00	0.35	0.29	0.31	0.35	0.35	0.30
E	2.72	1.95	2.86	1.86	2.49	2.58	1.66	1.84	1.98	1.50
VEL	0.67	0.36	0.92	0.34	0.35	0.29	0.31	0.35	0.35	0.30
TH	0.20	0.15	0.33	0.10	0.13	0.12	0.13	0.15	0.17	0.11
TIME	2.72	1.96	2.81	1.87	2.50	2.59	1.66	1.85	1.98	1.54
NODE	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690
ELEVATION	2440.22	2435.97	2432.58	2430.11	2425.89	2422.91	2418.92	2415.13	2411.21	2407.38
MAX DEPTH	0.22	0.20	0.19	0.11	0.14	0.14	0.16	0.13	0.14	0.20

VELOCITY	0.41	0.40	0.37	0.27	0.28	0.32	0.31	0.30	0.31	0.39
TIME	1.72	1.76	1.94	1.50	1.54	1.62	1.81	1.50	1.56	1.82
MAX VEL	0.84	0.82	0.37	0.27	0.28	0.32	0.31	0.30	0.31	0.39
DEPTH	0.20	0.20	0.19	0.11	0.14	0.14	0.16	0.13	0.14	0.20
TIME	2.05	1.77	1.95	1.51	1.59	1.63	1.61	1.53	1.55	1.77
NODE	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700
ELEVATION	2403.59	2400.20	2398.53	2394.14	2718.20	2715.11	2711.99	2708.83	2703.52	2703.56
MAX DEPTH	0.20	0.20	0.11	2.10	0.11	0.11	0.11	0.12	0.27	0.11
ELOCITY	0.37	0.51	0.00	3.99	0.00	0.32	0.00	0.38	1.13	0.00
ME	1.77	1.92	1.35	6.51	1.34	1.45	1.39	1.50	1.63	1.35
X VEL	0.74	0.52	0.33	3.99	0.31	0.32	0.32	0.39	1.14	0.28
PTH	0.20	0.20	0.11	2.10	0.10	0.11	0.11	0.12	0.27	0.11
TIME	1.77	1.78	1.36	6.52	1.35	1.46	1.41	1.51	1.64	1.38
NODE	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710
ELEVATION	2700.76	2696.37	2694.23	2690.38	2688.04	2685.43	2680.26	2676.31	2671.20	2670.12
MAX DEPTH	0.11	0.20	0.13	0.15	0.11	0.11	0.26	0.19	0.24	0.22
VELOCITY	0.32	0.39	0.35	0.36	0.28	0.00	0.80	0.45	0.92	0.94
TIME	1.50	1.62	1.58	1.51	1.50	1.41	1.64	1.90	2.02	1.73
MAX VEL	0.32	0.39	0.35	0.36	0.28	0.30	0.84	0.45	0.92	0.95
DEPTH	0.11	0.20	0.13	0.15	0.10	0.10	0.25	0.19	0.24	0.22
TIME	1.51	1.63	1.59	1.51	1.51	1.47	1.77	1.91	2.03	1.74
NODE	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720
ELEVATION	2668.86	2666.18	2663.30	2659.97	2656.11	2652.73	2647.60	2646.09	2642.90	2638.80
MAX DEPTH	0.12	0.11	0.12	0.13	0.16	0.17	0.23	0.12	0.11	0.11
VELOCITY	0.32	0.27	0.28	0.31	0.32	0.41	0.40	0.35	0.00	0.00
TIME	1.91	1.49	1.50	1.58	1.66	1.91	1.49	1.52	1.36	1.47
MAX VEL	0.32	0.27	0.28	0.31	0.32	0.41	0.83	0.35	0.30	0.28
DEPTH	0.12	0.11	0.11	0.13	0.16	0.17	0.22	0.12	0.11	0.11
TIME	1.91	1.50	1.52	1.52	1.65	1.93	1.54	1.53	1.47	1.48
NODE	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730
ELEVATION	2635.12	2630.23	2625.54	2624.13	2620.15	2615.96	2613.79	2610.62	2607.11	2603.48
MAX DEPTH	0.12	0.21	0.54	0.19	0.15	0.18	0.11	0.11	0.11	0.11
VELOCITY	0.31	0.45	1.21	0.43	0.36	0.45	0.33	0.00	0.00	0.00
TIME	2.58	2.17	2.19	2.52	2.62	1.58	1.50	1.38	1.39	1.29
MAX VEL	0.31	0.93	1.29	0.43	0.36	0.45	0.33	0.30	0.29	0.30
DEPTH	0.12	0.21	0.51	0.19	0.15	0.18	0.11	0.11	0.11	0.11
TIME	2.59	2.18	2.59	2.52	2.63	1.59	1.51	1.39	1.41	1.42
NODE	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740
ELEVATION	2599.79	2595.29	2590.45	2586.38	2588.12	2585.11	2581.04	2578.54	2575.20	2571.25
MAX DEPTH	0.20	0.29	0.45	0.50	0.11	0.11	0.17	0.19	0.20	0.23
VELOCITY	0.43	1.13	1.39	1.48	0.00	0.00	0.36	0.35	0.42	0.81
TIME	2.46	2.76	2.78	2.87	1.36	1.38	1.52	5.75	5.74	5.03
MAX VEL	0.87	1.13	1.39	4.01	0.36	0.27	0.36	0.35	0.42	0.83
DEPTH	0.20	0.29	0.45	0.46	0.10	0.11	0.17	0.19	0.20	0.22
TIME	2.98	2.76	2.79	2.78	1.50	1.39	1.53	5.75	5.75	5.33
NODE	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750
ELEVATION	2570.12	2565.25	2560.36	2557.18	2554.12	2550.23	2546.39	2542.59	2538.69	2534.60
MAX DEPTH	0.12	0.25	0.36	0.35	0.21	0.23	0.24	0.20	0.18	0.20
VELOCITY	0.31	1.02	1.04	0.92	0.81	0.85	0.82	0.41	0.37	0.42
TIME	5.45	5.53	5.56	5.61	5.86	2.05	1.75	2.11	1.99	1.99
MAX VEL	0.31	1.02	1.05	0.92	0.81	0.85	0.85	0.83	0.37	0.84
DEPTH	0.12	0.25	0.36	0.35	0.21	0.23	0.23	0.19	0.18	0.20
ME	5.44	5.53	5.58	5.62	5.86	2.06	5.55	2.11	2.03	2.02
NODE	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760
EVATION	2530.20	2525.92	2523.93	2520.15	2517.16	2515.10	2510.11	2506.45	2501.91	2498.42
MAX DEPTH	0.20	0.23	0.14	0.15	0.11	0.10	0.11	0.11	0.17	0.12
VELOCITY	0.83	0.84	0.37	0.35	0.30	0.00	0.00	0.29	0.38	0.34
TIME	1.96	2.04	2.11	1.91	1.50	1.41	1.38	2.49	2.54	2.56
MAX VEL	0.84	0.84	0.37	0.35	0.30	0.32	0.28	0.29	0.38	0.34
DEPTH	0.20	0.23	0.14	0.15	0.11	0.10	0.11	0.11	0.17	0.12
TIME	1.97	2.03	2.11	1.93	1.53	1.42	1.39	2.49	3.00	2.57
NODE	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770
ELEVATION	2494.37	2490.12	2485.69	2480.62	2477.83	2472.47	2470.17	2465.21	2460.23	2456.86
MAX DEPTH	0.11	0.12	0.22	0.27	0.16	0.20	0.17	0.21	0.23	0.23
VELOCITY	0.28	0.30	0.97	0.39	0.40	0.48	0.40	0.91	0.80	0.56
TIME	1.50	2.74	2.61	7.01	2.77	2.72	2.88	1.81	2.91	2.12
MAX VEL	0.28	0.30	0.97	0.86	0.40	0.49	0.40	0.91	0.81	0.71
DEPTH	0.11	0.12	0.22	0.26	0.16	0.20	0.17	0.21	0.23	0.21
TIME	1.52	2.74	2.62	2.70	2.77	2.73	2.89	1.93	2.80	2.16
NODE	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780
ELEVATION	2455.11	2450.16	2445.88	2442.59	2440.11	2435.14	2430.22	2427.25	2425.11	2421.86
MAX DEPTH	0.11	0.16	0.18	0.18	0.11	0.14	0.22	0.20	0.11	0.12
VELOCITY	0.00	0.35	0.38	0.29	0.00	0.36	0.79	0.36	0.25	0.30
TIME	1.30	2.50	1.96	2.05	1.35	1.93	1.86	1.99	1.50	1.50
MAX VEL	0.29	0.35	0.38	0.29	0.29	0.36	0.80	0.72	0.25	0.30
DEPTH	0.10	0.16	0.18	0.18	0.10	0.14	0.21	0.20	0.11	0.12
TIME	1.51	2.51	1.97	2.05	1.36	1.94	1.87	2.00	1.52	1.52
NODE	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790
ELEVATION	2418.67	2413.90	2410.15	2407.51	2404.16	2400.12	2395.32	2392.63	2713.88	2710.37
MAX DEPTH	0.11	0.13	0.15	0.11	0.11	0.12	0.16	0.79	0.10	0.12
VELOCITY	0.29	0.30	0.30	0.00	0.00	0.30	0.32	4.45	0.00	0.34
TIME	1.50	1.50	1.57	1.29	1.34	1.50	1.89	6.53	1.41	1.49
MAX VEL	0.29	0.30	0.30	0.28	0.26	0.31	0.32	4.46	0.31	0.34
DEPTH	0.11	0.13	0.15	0.10	0.10	0.12	0.15	0.79	0.10	0.12
TIME	1.51	1.53	1.58	1.31	1.44	1.51	1.90	6.48	1.42	1.50
NODE	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800
ELEVATION	2706.77	2703.69	2698.20	2699.52	2697.02	2693.28	2690.16	2686.70	2683.31	2681.74
MAX DEPTH	0.13	0.11	0.36	0.11	0.11	0.14	0.16	0.16	0.18	0.11
VELOCITY	0.35	0.32	0.76	0.00	0.00	0.37	0.39	0.32	0.42	0.00
TIME	1.50	1.50	1.67	1.42	1.36	1.50	1.67	1.67	1.64	1.35
MAX VEL	0.35	0.32	0.76	0.31	0.30	0.37	0.39	0.32	0.42	0.30
DEPTH	0.13	0.11	0.36	0.11	0.11	0.14	0.16	0.16	0.18	0.11
TIME	1.52	1.51	1.71	1.43	1.38	1.51	1.72	1.68	1.65	1.48
NODE	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810
VATION	2678.39	2673.63	2668.77	2665.24	2663.62	2662.71	2660.14	2657.39	2654.10	2650.45
DEPTH	0.11	0.15	0.21	0.24	0.21	0.11	0.11	0.11	0.13	0.13
OCITY	0.00	0.36	0.47	1.04	0.48	0.29	0.28	0.27	0.33	0.31
IE	1.32	1.90	1.81	2.03	2.01	1.50	1.50	1.50	1.50	1.50
MAX VEL	0.30	0.36	0.97	1.04	0.99	0.29	0.28	0.27	0.33	0.31
DEPTH	0.10	0.15	0.20	0.24	0.20	0.11	0.11	0.11	0.13	0.13
TIME	1.34	1.91	1.82	2.04	1.80	1.51	1.51	1.52	1.52	1.52
NODE	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820

ELEVATION	2646.57	2642.00	2637.72	2636.25	2632.20	2628.39	2622.95	2620.35	2617.30	2613.55
MAX DEPTH	0.15	0.21	0.20	0.11	0.11	0.12	0.33	0.35	0.20	0.18
VELOCITY	0.35	0.44	0.44	0.00	0.26	0.33	1.03	1.16	0.45	0.44
TIME	1.91	1.91	1.66	1.38	1.47	1.50	2.61	2.60	2.35	2.75
MAX VEL	0.35	0.89	0.89	0.31	0.26	0.33	1.04	1.16	0.91	0.44
DEPTH	0.15	0.20	0.20	0.11	0.11	0.12	0.32	0.35	0.20	0.18
TIME	1.91	1.56	1.66	1.39	1.45	1.52	2.42	2.62	2.36	2.76

NODE	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830
ELEVATION	2607.92	2605.88	2603.38	2600.11	2596.36	2593.17	2590.42	2585.86	2580.66	2582.35
X DEPTH	0.24	0.16	0.11	0.11	0.11	0.22	0.15	0.28	0.66	0.10
LOCITY	0.83	0.40	0.33	0.00	0.29	0.59	0.36	1.17	1.15	0.00
ME	2.52	1.51	1.50	1.30	1.50	2.77	3.09	2.99	5.18	1.44
MAX VEL	0.84	0.40	0.33	0.29	0.29	0.59	0.36	1.17	3.14	0.30
DEPTH	0.24	0.16	0.11	0.10	0.11	0.22	0.15	0.28	0.60	0.10
TIME	2.51	1.52	1.51	1.39	1.51	2.78	3.10	3.00	2.69	1.45

NODE	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840
ELEVATION	2580.11	2575.21	2573.14	2568.84	2565.99	2563.78	2560.40	2556.87	2552.37	2548.72
MAX DEPTH	0.11	0.21	0.11	0.23	0.26	0.13	0.11	0.20	0.21	0.21
VELOCITY	0.00	0.36	0.30	0.73	0.82	0.34	0.00	0.43	0.93	0.76
TIME	1.35	5.82	5.86	5.58	5.14	5.63	1.38	5.53	5.38	5.47
MAX VEL	0.31	0.37	0.30	0.73	0.91	0.34	0.26	0.85	0.94	0.81
DEPTH	0.10	0.21	0.11	0.23	0.25	0.13	0.10	0.20	0.21	0.20
TIME	1.36	5.91	5.86	5.58	5.31	5.64	1.44	5.54	5.38	5.68

NODE	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850
ELEVATION	2545.20	2540.86	2536.55	2532.90	2529.31	2525.20	2520.46	2516.31	2513.89	2510.24
MAX DEPTH	0.20	0.25	0.24	0.17	0.15	0.20	0.24	0.24	0.20	0.15
VELOCITY	0.42	0.92	0.48	0.37	0.35	0.43	0.91	0.82	0.43	0.32
TIME	5.76	5.70	1.88	2.05	2.13	2.18	1.87	1.85	2.14	1.67
MAX VEL	0.84	0.92	0.85	0.38	0.35	0.43	0.85	0.82	0.87	0.33
DEPTH	0.20	0.25	0.22	0.17	0.15	0.19	0.21	0.24	0.20	0.15
TIME	5.88	5.71	5.81	2.07	2.15	2.19	2.71	1.83	1.98	1.68

NODE	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860
ELEVATION	2506.53	2503.79	2500.11	2495.29	2490.46	2488.20	2485.11	2480.78	2475.20	2471.18
MAX DEPTH	0.16	0.12	0.11	0.17	0.20	0.13	0.11	0.11	0.20	0.20
VELOCITY	0.37	0.33	0.29	0.40	0.39	0.31	0.00	0.31	0.40	0.40
TIME	2.04	1.50	1.50	3.09	3.03	1.50	1.30	1.50	2.70	2.59
MAX VEL	0.37	0.33	0.29	0.40	0.77	0.31	0.27	0.32	0.80	0.72
DEPTH	0.16	0.12	0.11	0.17	0.20	0.13	0.10	0.10	0.20	0.20
TIME	2.05	1.51	1.52	3.10	3.03	1.52	1.32	1.51	2.78	2.79

NODE	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870
ELEVATION	2468.62	2462.86	2460.13	2455.24	2452.60	2449.56	2444.89	2440.24	2438.31	2433.78
MAX DEPTH	0.14	0.21	0.13	0.24	0.20	0.11	0.14	0.24	0.12	0.12
VELOCITY	0.38	0.32	0.34	0.83	0.44	0.29	0.34	0.38	0.33	0.33
TIME	1.99	1.95	2.94	1.73	2.46	1.50	2.27	1.57	1.50	1.50
MAX VEL	0.38	0.66	0.34	0.83	0.89	0.29	0.34	0.79	0.33	0.33
DEPTH	0.14	0.21	0.13	0.24	0.20	0.11	0.14	0.22	0.12	0.12
TIME	1.97	1.95	2.94	1.77	2.46	1.51	2.27	1.64	1.51	1.51

NODE	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880
ELEVATION	2430.11	2425.25	2422.71	2420.13	2415.68	2411.96	2408.94	2405.19	2400.90	2398.72
MAX DEPTH	0.11	0.25	0.24	0.13	0.15	0.14	0.15	0.19	0.18	0.12
VELOCITY	0.00	0.71	0.39	0.31	0.32	0.30	0.32	0.39	0.34	0.27
TIME	1.35	1.94	1.69	1.83	1.92	1.50	1.62	1.83	1.88	1.50
X VEL	0.29	0.72	0.83	0.31	0.32	0.30	0.32	0.39	0.34	0.27
PTH	0.10	0.25	0.23	0.13	0.15	0.14	0.15	0.19	0.18	0.12
IE	1.36	2.04	2.04	1.83	1.93	1.52	1.63	1.88	1.88	1.51

NODE	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890
ELEVATION	2395.13	2390.53	2388.74	2709.53	2705.76	2702.24	2698.99	2696.14	2694.82	2691.85
MAX DEPTH	0.13	0.53	2.10	0.10	0.13	0.16	0.12	0.20	0.19	0.13
VELOCITY	0.34	1.86	2.63	0.00	0.36	0.37	0.35	0.47	0.46	0.34
TIME	1.53	6.48	6.58	1.42	1.50	1.50	1.50	1.62	1.74	1.53
MAX VEL	0.34	2.63	2.64	0.29	0.36	0.37	0.35	0.94	0.46	0.34
DEPTH	0.13	0.49	2.09	0.10	0.13	0.15	0.12	0.20	0.19	0.13
TIME	1.53	3.90	6.55	1.43	1.51	1.55	1.51	1.66	1.75	1.54

NODE	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900
ELEVATION	2690.11	2685.22	2684.01	2680.84	2676.33	2674.47	2671.02	2666.77	2660.96	2657.76
MAX DEPTH	0.11	0.22	0.11	0.13	0.21	0.11	0.11	0.13	0.30	0.38
VELOCITY	0.00	0.39	0.31	0.33	0.40	0.29	0.27	0.37	1.03	1.16
TIME	1.31	1.79	1.50	1.50	1.88	1.50	1.31	1.52	1.97	1.98
MAX VEL	0.31	0.39	0.31	0.33	0.40	0.30	0.27	0.37	1.03	1.17
DEPTH	0.11	0.22	0.11	0.13	0.21	0.11	0.10	0.13	0.29	0.37
TIME	1.32	1.83	1.51	1.51	1.94	1.51	1.55	1.53	1.98	1.98

NODE	2901	2902	2903	2904	2905	2906	2907	2908	2909	2910
ELEVATION	2658.25	2655.97	2654.64	2651.48	2647.01	2644.12	2640.23	2635.22	2630.68	2630.31
MAX DEPTH	0.11	0.12	0.11	0.11	0.16	0.13	0.13	0.22	0.24	0.11
VELOCITY	0.00	0.30	0.00	0.00	0.32	0.35	0.33	0.89	0.88	0.00
TIME	1.42	1.50	1.42	1.31	1.53	1.50	1.59	1.60	1.63	1.49
MAX VEL	0.33	0.30	0.28	0.28	0.32	0.35	0.33	0.87	0.88	0.30
DEPTH	0.11	0.12	0.11	0.11	0.16	0.13	0.13	0.20	0.24	0.10
TIME	1.43	1.51	1.44	1.36	1.55	1.52	1.66	2.08	1.61	1.44

NODE	2911	2912	2913	2914	2915	2916	2917	2918	2919	2920
ELEVATION	2626.57	2622.50	2617.51	2613.73	2610.23	2606.55	2602.52	2598.03	2595.17	2593.11
MAX DEPTH	0.11	0.12	0.29	0.27	0.23	0.20	0.21	0.21	0.17	0.11
VELOCITY	0.00	0.31	1.06	1.16	0.92	0.43	0.89	0.84	0.38	0.31
TIME	1.34	2.64	2.42	2.63	2.55	2.73	2.61	1.60	1.56	1.50
MAX VEL	0.28	0.31	1.06	1.16	0.92	0.86	0.90	0.85	0.38	0.31
DEPTH	0.10	0.12	0.29	0.27	0.23	0.20	0.20	0.21	0.17	0.11
TIME	1.45	2.72	2.43	2.64	2.56	2.66	2.65	1.61	1.57	1.51

NODE	2921	2922	2923	2924	2925	2926	2927	2928	2929	2930
ELEVATION	2589.73	2586.35	2584.14	2580.24	2577.42	2575.99	2572.39	2569.38	2566.31	2564.10
MAX DEPTH	0.12	0.17	0.11	0.24	0.54	0.16	0.12	0.13	0.13	0.14
VELOCITY	0.32	0.32	0.27	0.83	1.62	0.41	0.31	0.30	0.31	0.35
TIME	1.50	3.15	3.16	2.89	2.71	3.10	1.50	5.91	5.95	5.74
MAX VEL	0.32	0.32	0.27	0.84	4.41	0.41	0.31	0.30	0.31	0.35
DEPTH	0.12	0.17	0.11	0.24	0.48	0.16	0.12	0.13	0.13	0.14
TIME	1.51	3.16	3.14	2.91	2.81	3.10	1.51	5.92	5.94	5.74

NODE	2931	2932	2933	2934	2935	2936	2937	2938	2939	2940
VATION	2560.23	2556.73	2554.85	2550.18	2545.30	2542.99	2539.42	2535.16	2530.82	2526.97
DEPTH	0.23	0.22	0.11	0.18	0.27	0.20	0.17	0.16	0.24	0.20
VELOCITY	0.41	0.65	0.00	0.41	0.85	0.47	0.40	0.37	0.39	0.42
TIME	5.30	5.38	1.42	6.02	5.51	5.79	5.81	5.85	5.59	2.13
MAX VEL	0.83	0.65	0.29	0.41	0.87	0.95	0.40	0.37	0.80	0.84
DEPTH	0.20	0.21	0.11	0.18	0.27	0.20	0.17	0.16	0.21	0.20
TIME	5.38	5.40	1.43	6.02	5.75	5.80	5.82	5.85	2.12	2.14

NODE	2941	2942	2943	2944	2945	2946	2947	2948	2949	2950
ELEVATION	2522.94	2520.13	2515.87	2511.17	2507.43	2505.13	2500.20	2496.08	2493.44	2490.11
MAX DEPTH	0.19	0.13	0.20	0.21	0.21	0.13	0.20	0.26	0.14	0.13
VELOCITY	0.36	0.31	0.43	0.84	0.80	0.33	0.41	0.35	0.34	0.33
TIME	2.40	2.45	1.96	2.01	2.16	1.91	1.69	1.75	1.90	1.98
MAX VEL	0.36	0.31	0.87	0.86	0.82	0.33	0.83	0.39	0.34	0.33
DEPTH	0.19	0.13	0.20	0.21	0.21	0.13	0.20	0.24	0.14	0.13
TIME	2.50	2.50	2.07	2.02	1.72	1.93	1.65	1.79	1.91	1.98

NODE	2951	2952	2953	2954	2955	2956	2957	2958	2959	2960
ELEVATION	2485.23	2482.00	2479.40	2472.57	2470.25	2466.63	2460.31	2459.12	2453.77	2450.26
MAX DEPTH	0.23	0.23	0.11	0.19	0.25	0.20	0.31	0.15	0.20	0.26
VELOCITY	0.36	0.42	0.00	0.30	0.38	0.50	0.79	0.39	0.38	0.98
TIME	1.60	1.91	1.81	2.87	1.81	2.00	2.05	2.96	2.04	2.16
MAX VEL	0.74	0.85	0.34	0.30	0.80	1.02	0.80	0.39	0.76	0.99
DEPTH	0.21	0.22	0.10	0.19	0.23	0.20	0.31	0.15	0.20	0.26
TIME	1.70	2.60	1.82	2.91	1.95	2.83	2.09	2.95	2.05	2.17

NODE	2961	2962	2963	2964	2965	2966	2967	2968	2969	2970
ELEVATION	2445.79	2442.96	2440.11	2435.21	2430.21	2425.95	2424.23	2421.35	2417.29	2414.60
MAX DEPTH	0.26	0.20	0.11	0.21	0.21	0.20	0.13	0.12	0.21	0.12
VELOCITY	0.87	0.44	0.00	0.45	0.77	0.40	0.29	0.31	0.58	0.30
TIME	2.08	2.36	1.35	1.80	1.85	2.05	1.95	2.10	1.79	2.00
MAX VEL	0.88	0.44	0.29	0.91	0.84	0.81	0.29	0.31	0.82	0.30
DEPTH	0.24	0.20	0.10	0.21	0.20	0.20	0.13	0.12	0.20	0.12
TIME	3.06	2.37	1.36	1.82	1.88	1.71	1.96	2.14	1.81	2.01

NODE	2971	2972	2973	2974	2975	2976	2977	2978	2979	2980
ELEVATION	2410.16	2406.97	2405.10	2400.15	2396.11	2395.10	2390.85	2388.18	2705.62	2702.52
MAX DEPTH	0.16	0.18	0.11	0.15	0.20	0.10	0.11	1.51	0.10	0.11
VELOCITY	0.32	0.27	0.00	0.34	0.36	0.00	0.00	4.89	0.00	0.00
TIME	1.96	1.95	1.41	1.95	1.89	1.41	1.38	6.60	1.29	1.39
MAX VEL	0.32	0.27	0.29	0.34	0.73	0.27	0.26	4.89	0.30	0.30
DEPTH	0.16	0.18	0.10	0.15	0.20	0.10	0.10	1.50	0.10	0.10
TIME	1.97	2.01	1.42	1.95	1.90	1.42	1.39	6.65	1.34	1.42

NODE	2981	2982	2983	2984	2985	2986	2987	2988	2989	2990
ELEVATION	2697.87	2695.35	2690.62	2689.64	2686.98	2685.90	2681.99	2679.47	2676.72	2673.83
MAX DEPTH	0.17	0.16	0.21	0.20	0.20	0.11	0.14	0.15	0.11	0.13
VELOCITY	0.42	0.39	0.45	0.50	0.39	0.00	0.34	0.40	0.31	0.31
TIME	1.52	1.60	1.66	1.84	1.85	1.36	1.50	1.91	1.50	1.50
MAX VEL	0.42	0.39	0.93	1.01	0.65	0.32	0.34	0.40	0.31	0.31
DEPTH	0.17	0.16	0.21	0.19	0.20	0.11	0.14	0.15	0.11	0.12
TIME	1.53	1.62	1.66	1.85	1.86	1.38	1.51	1.92	1.52	1.52

NODE	2991	2992	2993	2994	2995	2996	2997	2998	2999	3000
ELEVATION	2670.17	2667.51	2664.73	2661.15	2655.33	2652.31	2651.59	2650.13	2648.26	2645.26
MAX DEPTH	0.17	0.13	0.11	0.11	0.33	0.35	0.16	0.13	0.10	0.11
VELOCITY	0.34	0.31	0.00	0.00	1.01	1.27	0.42	0.27	0.00	0.29
TIME	1.94	1.50	1.31	1.39	1.98	2.01	2.14	1.50	1.31	1.49
MAX VEL	0.34	0.31	0.28	0.32	1.01	1.27	0.43	0.27	0.31	0.29
DEPTH	0.17	0.12	0.10	0.11	0.32	0.35	0.16	0.13	0.10	0.11
TIME	1.95	1.51	1.35	1.41	2.04	1.99	2.14	1.51	1.32	1.50

NODE	3001	3002	3003	3004	3005	3006	3007	3008	3009	3010
ELEVATION	2641.11	2636.39	2633.92	2629.30	2625.27	2623.91	2620.24	2616.15	2610.65	2605.92
MAX DEPTH	0.12	0.16	0.12	0.21	0.27	0.11	0.11	0.14	0.24	0.40
VELOCITY	0.31	0.34	0.32	0.45	0.82	0.00	0.29	0.38	0.99	1.25
TIME	1.50	1.57	1.50	1.64	1.66	1.35	1.50	2.71	2.72	2.64
MAX VEL	0.31	0.34	0.33	0.92	0.82	0.29	0.29	0.38	0.99	1.26
DEPTH	0.12	0.16	0.12	0.20	0.26	0.11	0.11	0.14	0.24	0.40
TIME	1.53	1.58	1.52	1.65	1.67	1.36	1.51	2.72	2.72	2.64

NODE	3011	3012	3013	3014	3015	3016	3017	3018	3019	3020
ELEVATION	2605.06	2600.02	2595.67	2592.06	2588.82	2585.80	2582.55	2580.29	2578.09	2575.23
MAX DEPTH	0.17	0.20	0.21	0.22	0.19	0.13	0.13	0.11	0.11	0.23
VELOCITY	0.43	0.44	0.41	0.91	0.47	0.35	0.34	0.31	0.00	0.97
TIME	2.74	2.62	2.03	1.66	1.66	1.50	1.49	1.49	1.35	3.09
MAX VEL	0.43	0.89	0.84	0.92	0.47	0.36	0.34	0.31	0.31	0.97
DEPTH	0.17	0.20	0.21	0.21	0.19	0.13	0.13	0.11	0.11	0.23
TIME	2.74	3.00	2.69	1.66	1.67	1.53	1.52	1.50	1.36	3.09

NODE	3021	3022	3023	3024	3025	3026	3027	3028	3029	3030
ELEVATION	2570.54	2569.30	2565.49	2564.13	2560.14	2556.93	2554.29	2551.52	2548.75	2545.11
MAX DEPTH	0.52	0.20	0.19	0.11	0.14	0.16	0.22	0.12	0.11	0.11
VELOCITY	1.28	0.41	0.36	0.30	0.28	0.37	0.83	0.30	0.00	0.00
TIME	2.81	2.64	2.81	1.50	1.50	6.00	5.49	5.73	1.36	1.42
MAX VEL	1.33	0.83	0.36	0.30	0.29	0.37	0.83	0.30	0.30	0.29
DEPTH	0.52	0.20	0.19	0.11	0.14	0.16	0.22	0.12	0.11	0.11
TIME	2.82	2.65	2.90	1.51	1.52	6.00	5.46	5.83	1.38	1.43

NODE	3031	3032	3033	3034	3035	3036	3037	3038	3039	3040
ELEVATION	2540.23	2535.26	2532.40	2528.56	2525.17	2520.86	2517.75	2514.67	2510.15	2505.27
MAX DEPTH	0.23	0.26	0.20	0.20	0.17	0.22	0.17	0.12	0.15	0.23
VELOCITY	0.97	0.84	0.44	0.42	0.37	0.83	0.37	0.30	0.37	0.80
TIME	5.75	5.75	5.80	5.80	5.96	6.00	2.56	2.50	2.42	1.61
MAX VEL	0.97	0.85	0.88	0.84	0.37	0.83	0.37	0.30	0.37	0.80
DEPTH	0.22	0.25	0.20	0.20	0.17	0.21	0.17	0.12	0.15	0.21
TIME	5.75	5.55	5.80	5.80	5.95	5.83	2.60	2.50	2.42	1.70

NODE	3041	3042	3043	3044	3045	3046	3047	3048	3049	3050
ELEVATION	2501.94	2499.32	2495.19	2491.57	2487.21	2485.11	2480.16	2475.67	2470.91	2470.10
MAX DEPTH	0.25	0.13	0.19	0.16	0.18	0.11	0.16	0.18	0.21	0.11
VELOCITY	0.57	0.35	0.38	0.36	0.41	0.00	0.36	0.41	0.32	0.00
TIME	1.68	1.77	2.16	2.03	2.11	1.32	1.98	2.87	1.60	1.34
MAX VEL	0.80	0.35	0.38	0.36	0.41	0.29	0.36	0.41	0.34	0.33
DEPTH	0.22	0.13	0.18	0.16	0.18	0.10	0.16	0.18	0.20	0.10
TIME	1.75	1.78	2.16	2.02	2.12	1.34	1.99	2.87	2.04	1.39

NODE	3051	3052	3053	3054	3055	3056	3057	3058	3059	3060
ELEVATION	2465.13	2460.52	2456.21	2451.42	2448.83	2445.20	2440.24	2436.10	2434.54	2430.15
MAX DEPTH	0.13	0.13	0.20	0.20	0.12	0.20	0.24	0.25	0.11	0.15
VELOCITY	0.32	0.32	0.47	0.40	0.32	0.45	0.88	0.35	0.28	0.37
TIME	1.97	2.95	2.15	2.92	2.23	2.36	2.37	1.75	1.50	2.57
MAX VEL	0.32	0.32	0.95	0.81	0.32	0.90	0.89	0.69	0.28	0.37
DEPTH	0.13	0.13	0.20	0.20	0.12	0.20	0.24	0.21	0.11	0.15
TIME	2.02	2.85	2.16	2.98	2.24	2.36	2.38	2.40	1.51	2.57

NODE	3061	3062	3063	3064	3065	3066	3067	3068	3069	3070
ELEVATION	2425.21	2420.43	2419.48	2415.21	2411.48	2408.94	2405.20	2403.16	2399.50	2395.20
MAX DEPTH	0.21	0.41	0.19	0.21	0.22	0.14	0.20	0.12	0.12	0.20
VELOCITY	0.90	0.71	0.40	0.79	0.89	0.31	0.38	0.27	0.29	0.39
TIME	1.88	2.58	2.59	1.81	1.88	1.98	1.98	2.32	1.49	1.63
MAX VEL	0.90	0.71	0.40	0.79	0.90	0.31	0.76	0.27	0.29	0.78

DEPTH	0.21	0.41	0.19	0.20	0.22	0.14	0.20	0.12	0.12	0.20
TIME	1.89	2.59	2.62	1.85	1.88	1.98	1.99	1.50	1.50	1.64
NODE	3071	3072	3073	3074	3075	3076	3077	3078	3079	3080
ELEVATION	2391.43	2389.82	2385.91	2700.18	2698.50	2695.32	2690.23	2689.65	2683.40	2683.60
MAX DEPTH	0.21	0.11	0.91	0.10	0.11	0.11	0.21	0.11	0.28	0.11
VELOCITY	0.39	0.28	5.08	0.29	0.00	0.34	0.38	0.00	1.19	0.00
TIME	2.15	1.50	6.63	1.31	1.46	1.50	1.49	1.41	1.87	1.38
MAX VEL	0.79	0.28	5.17	0.29	0.29	0.34	0.78	0.33	1.20	0.39
DEPTH	0.20	0.11	0.91	0.10	0.10	0.11	0.21	0.11	0.28	0.11
TIME	1.95	1.51	6.65	1.38	1.49	1.51	1.52	1.42	1.88	1.39
NODE	3081	3082	3083	3084	3085	3086	3087	3088	3089	3090
ELEVATION	2680.13	2678.37	2675.14	2671.67	2669.69	2667.42	2664.29	2661.31	2658.37	2655.02
MAX DEPTH	0.13	0.12	0.14	0.16	0.14	0.12	0.14	0.15	0.12	0.11
VELOCITY	0.34	0.33	0.34	0.35	0.32	0.30	0.28	0.31	0.29	0.29
TIME	1.50	1.50	1.50	1.91	1.50	1.50	1.57	1.53	1.50	1.50
MAX VEL	0.34	0.33	0.34	0.35	0.32	0.30	0.28	0.31	0.29	0.29
DEPTH	0.13	0.12	0.14	0.16	0.13	0.12	0.14	0.15	0.12	0.11
TIME	1.52	1.51	1.53	1.92	1.52	1.52	1.58	1.53	1.51	1.51
NODE	3091	3092	3093	3094	3095	3096	3097	3098	3099	3100
ELEVATION	2650.14	2645.55	2646.58	2645.11	2640.40	2638.65	2634.74	2630.52	2626.28	2622.17
MAX DEPTH	0.28	0.55	0.11	0.11	0.17	0.11	0.13	0.15	0.16	0.24
VELOCITY	1.08	1.22	0.00	0.00	0.32	0.28	0.31	0.34	0.35	0.99
TIME	2.04	2.08	1.30	1.30	1.52	1.50	1.50	1.58	1.72	1.71
MAX VEL	1.08	1.23	0.31	0.29	0.32	0.28	0.31	0.34	0.35	1.00
DEPTH	0.28	0.55	0.10	0.11	0.17	0.11	0.13	0.15	0.16	0.24
TIME	2.05	2.15	1.34	1.45	1.52	1.51	1.53	1.61	1.72	1.72
NODE	3101	3102	3103	3104	3105	3106	3107	3108	3109	3110
ELEVATION	2620.55	2617.20	2613.71	2609.52	2605.10	2600.41	2596.89	2593.23	2589.76	2585.13
MAX DEPTH	0.20	0.11	0.12	0.12	0.26	0.41	0.21	0.21	0.21	0.23
VELOCITY	0.46	0.28	0.30	0.31	1.03	1.06	0.83	0.39	0.90	1.04
TIME	1.89	1.50	1.50	1.50	2.38	2.61	2.69	2.69	2.05	2.75
MAX VEL	0.93	0.28	0.30	0.30	1.03	1.06	0.84	0.81	0.90	1.04
DEPTH	0.20	0.11	0.12	0.12	0.26	0.41	0.21	0.20	0.20	0.23
TIME	1.78	1.53	1.51	1.53	2.39	2.69	2.69	1.86	2.05	2.77
NODE	3111	3112	3113	3114	3115	3116	3117	3118	3119	3120
ELEVATION	2580.31	2578.95	2575.31	2572.50	2571.96	2568.97	2565.42	2563.36	2560.16	2557.02
MAX DEPTH	0.28	0.13	0.15	0.16	0.11	0.21	0.42	0.22	0.16	0.13
VELOCITY	0.93	0.36	0.35	0.35	0.00	0.81	1.09	0.91	0.38	0.30
TIME	2.81	1.50	2.99	3.21	1.39	2.93	2.95	2.95	3.00	1.50
MAX VEL	0.93	0.36	0.36	0.35	0.31	0.82	1.09	0.91	0.38	0.30
DEPTH	0.28	0.13	0.14	0.16	0.10	0.21	0.42	0.22	0.16	0.13
TIME	2.84	1.52	1.52	3.21	1.35	2.95	2.96	2.96	3.01	1.52
NODE	3121	3122	3123	3124	3125	3126	3127	3128	3129	3130
ELEVATION	2554.91	2550.44	2548.56	2545.13	2541.66	2538.56	2534.33	2530.22	2525.67	2522.48
MAX DEPTH	0.11	0.26	0.18	0.13	0.12	0.11	0.14	0.22	0.20	0.21
VELOCITY	0.00	0.78	0.35	0.33	0.31	0.00	0.32	0.43	0.79	0.62
TIME	1.30	5.50	5.62	1.50	1.50	1.41	5.86	5.55	5.70	5.87
MAX VEL	0.29	0.82	0.36	0.34	0.31	0.28	0.32	0.86	0.80	0.62
DEPTH	0.11	0.23	0.17	0.13	0.12	0.11	0.14	0.21	0.20	0.21
TIME	1.51	5.60	5.77	1.51	1.51	1.42	5.94	5.59	5.70	5.87
NODE	3131	3132	3133	3134	3135	3136	3137	3138	3139	3140
EVATION	2519.76	2515.22	2511.59	2508.07	2504.55	2500.23	2496.74	2491.76	2489.45	2485.23
DEPTH	0.14	0.22	0.24	0.16	0.13	0.23	0.21	0.24	0.22	0.23
OCITY	0.34	0.38	0.40	0.37	0.33	0.73	0.44	0.65	0.88	0.99
ME	6.08	5.85	2.30	2.50	2.56	1.72	1.74	1.81	2.06	2.10
MAX VEL	0.34	0.79	0.80	0.37	0.33	0.78	0.91	0.65	0.88	0.99
DEPTH	0.14	0.21	0.23	0.16	0.13	0.21	0.20	0.22	0.22	0.23
TIME	6.09	2.23	2.35	2.50	2.54	1.75	2.02	1.92	2.08	2.12
NODE	3141	3142	3143	3144	3145	3146	3147	3148	3149	3150
ELEVATION	2480.26	2478.12	2474.98	2470.23	2466.71	2461.04	2460.11	2454.92	2448.40	2445.69
MAX DEPTH	0.26	0.20	0.12	0.23	0.16	0.23	0.11	0.13	0.27	0.22
VELOCITY	0.89	0.35	0.32	0.38	0.40	0.38	0.00	0.38	0.75	0.82
TIME	1.96	2.40	2.50	2.28	2.35	2.60	1.41	2.87	2.01	3.94
MAX VEL	0.89	0.35	0.32	0.76	0.40	0.39	0.30	0.38	0.75	0.82
DEPTH	0.26	0.20	0.12	0.21	0.16	0.23	0.10	0.12	0.27	0.22
TIME	1.97	2.43	2.45	2.33	2.35	2.46	1.42	2.87	3.86	2.09
NODE	3151	3152	3153	3154	3155	3156	3157	3158	3159	3160
ELEVATION	2441.98	2440.11	2435.22	2432.23	2430.11	2425.11	2421.26	2417.90	2414.36	2410.21
MAX DEPTH	0.20	0.11	0.22	0.21	0.11	0.11	0.11	0.20	0.16	0.21
VELOCITY	0.44	0.00	0.72	0.93	0.00	0.00	0.27	0.40	0.35	0.44
TIME	2.29	1.36	2.39	2.39	1.39	1.36	1.50	2.16	2.84	2.05
MAX VEL	0.88	0.29	0.76	0.93	0.29	0.26	0.27	0.81	0.35	0.90
DEPTH	0.20	0.10	0.20	0.21	0.10	0.10	0.11	0.20	0.16	0.20
TIME	2.30	1.38	2.42	2.40	1.41	1.38	1.51	1.98	2.76	2.05
NODE	3161	3162	3163	3164	3165	3166	3167	3168	3169	3170
ELEVATION	2405.39	2404.86	2400.24	2398.19	2395.11	2391.05	2386.08	2385.36	2381.49	2695.12
MAX DEPTH	0.34	0.14	0.24	0.12	0.11	0.12	0.20	0.36	1.49	0.12
VELOCITY	0.84	0.34	0.84	0.28	0.00	0.32	0.37	1.17	3.87	0.31
TIME	2.33	2.49	2.19	2.50	1.36	1.50	1.84	6.66	6.67	1.50
MAX VEL	0.86	0.34	0.85	0.28	0.28	0.33	0.76	1.17	3.87	0.31
DEPTH	0.33	0.14	0.24	0.12	0.10	0.12	0.20	0.36	1.49	0.12
TIME	2.02	2.49	2.19	2.50	1.38	1.51	1.85	6.66	6.63	1.51
NODE	3171	3172	3173	3174	3175	3176	3177	3178	3179	3180
ELEVATION	2694.81	2691.33	2686.60	2685.31	2682.35	2675.39	2675.17	2673.55	2670.39	2668.59
MAX DEPTH	0.11	0.10	0.23	0.11	0.11	0.39	0.17	0.12	0.15	0.13
VELOCITY	0.00	0.31	0.43	0.31	0.36	1.02	0.40	0.33	0.35	0.34
TIME	1.41	1.38	1.58	1.50	1.50	1.95	2.01	1.50	1.51	1.59
MAX VEL	0.29	0.31	0.86	0.31	0.36	1.02	0.40	0.33	0.35	0.34
DEPTH	0.10	0.10	0.22	0.11	0.11	0.39	0.17	0.12	0.14	0.13
TIME	1.43	1.35	1.60	1.51	1.51	2.01	2.02	1.53	1.57	1.60
NODE	3181	3182	3183	3184	3185	3186	3187	3188	3189	3190
ELEVATION	2665.79	2663.46	2661.24	2659.45	2655.51	2652.31	2649.20	2644.22	2640.99	2640.51
MAX DEPTH	0.15	0.15	0.13	0.11	0.12	0.12	0.11	0.28	0.35	0.11
VELOCITY	0.32	0.33	0.31	0.00	0.27	0.29	0.31	1.26	1.35	0.00
ME	1.70	1.66	1.50	1.36	1.50	1.50	1.50	2.16	2.16	1.34
VEL	0.32	0.33	0.31	0.30	0.27	0.29	0.31	1.26	1.36	0.31
TH	0.15	0.15	0.13	0.11	0.12	0.12	0.11	0.29	0.35	0.11
E	1.68	1.62	1.52	1.38	1.51	1.52	1.51	2.16	2.17	1.35
NODE	3191	3192	3193	3194	3195	3196	3197	3198	3199	3200
ELEVATION	2638.16	2634.84	2632.25	2628.93	2624.54	2620.20	2615.26	2614.80	2610.93	2607.23
MAX DEPTH	0.11	0.12	0.11	0.11	0.13	0.20	0.26	0.11	0.11	0.13
VELOCITY	0.30	0.31	0.29	0.00	0.31	0.45	1.12	0.00	0.00	0.29

TIME	1.50	1.50	1.49	1.30	1.50	1.72	1.86	1.38	1.30	1.50
MAX VEL	0.30	0.31	0.29	0.29	0.31	0.90	1.12	0.37	0.27	0.29
DEPTH	0.11	0.12	0.11	0.10	0.13	0.19	0.26	0.10	0.11	0.13
TIME	1.51	1.51	1.50	1.35	1.52	1.72	1.87	1.39	1.31	1.52
NODE	3201	3202	3203	3204	3205	3206	3207	3208	3209	3210
ELEVATION	2604.16	2600.20	2595.25	2591.25	2587.84	2583.14	2577.07	2575.48	2570.66	2569.12
MAX DEPTH	0.11	0.20	0.25	0.26	0.25	0.31	0.64	0.48	0.66	0.27
VELOCITY	0.31	0.45	0.90	0.83	1.01	1.31	0.96	1.55	1.10	0.90
TIME	1.50	2.68	2.68	1.83	2.75	2.79	2.27	2.76	2.79	3.02
[illegible]X VEL	0.31	0.60	0.90	0.84	1.01	1.32	2.43	1.57	2.76	0.90
[illegible]PTH	0.11	0.19	0.25	0.25	0.25	0.30	0.57	0.47	0.62	0.27
[illegible]ME	1.51	2.68	2.69	1.95	2.75	2.77	2.28	2.77	2.80	3.02
NODE	3211	3212	3213	3214	3215	3216	3217	3218	3219	3220
ELEVATION	2566.45	2565.72	2563.27	2560.26	2556.52	2553.67	2551.07	2547.89	2545.21	2541.97
MAX DEPTH	0.29	0.15	0.21	0.26	0.22	0.20	0.12	0.14	0.21	0.14
VELOCITY	0.86	0.31	0.47	1.06	0.89	0.41	0.29	0.35	0.42	0.33
TIME	3.05	2.99	2.94	3.02	5.68	2.64	1.50	1.53	5.60	5.99
MAX VEL	0.86	0.31	0.96	1.06	0.89	0.83	0.29	0.35	0.86	0.33
DEPTH	0.29	0.15	0.20	0.26	0.22	0.20	0.12	0.14	0.21	0.14
TIME	3.05	3.00	2.84	3.02	5.68	2.65	1.51	1.51	5.65	6.12
NODE	3221	3222	3223	3224	3225	3226	3227	3228	3229	3230
ELEVATION	2538.02	2535.12	2532.15	2527.65	2523.55	2520.27	2517.73	2513.21	2510.21	2505.98
MAX DEPTH	0.16	0.12	0.11	0.13	0.19	0.27	0.18	0.20	0.21	0.19
VELOCITY	0.40	0.32	0.00	0.30	0.36	0.65	0.42	0.64	0.93	0.41
TIME	1.50	1.50	1.39	1.50	6.24	5.68	5.93	5.94	6.05	2.39
MAX VEL	0.40	0.32	0.30	0.30	0.36	0.81	0.42	0.70	0.93	0.41
DEPTH	0.16	0.12	0.10	0.13	0.19	0.24	0.18	0.20	0.21	0.19
TIME	1.51	1.51	1.41	1.52	6.37	5.86	5.94	6.00	6.05	2.40
NODE	3231	3232	3233	3234	3235	3236	3237	3238	3239	3240
ELEVATION	2501.31	2497.42	2494.80	2490.72	2488.37	2484.61	2480.15	2475.28	2473.23	2468.71
MAX DEPTH	0.20	0.24	0.17	0.24	0.14	0.13	0.15	0.28	0.18	0.17
VELOCITY	0.40	0.78	0.37	0.87	0.34	0.34	0.37	0.86	0.43	0.34
TIME	2.48	6.17	2.74	1.81	2.06	2.40	2.14	1.95	2.44	2.57
MAX VEL	0.80	0.82	0.37	0.87	0.34	0.34	0.37	0.87	0.43	0.34
DEPTH	0.20	0.23	0.17	0.23	0.14	0.13	0.15	0.27	0.18	0.17
TIME	2.48	6.27	3.06	1.84	2.07	2.40	2.15	2.25	2.45	2.56
NODE	3241	3242	3243	3244	3245	3246	3247	3248	3249	3250
ELEVATION	2465.20	2460.27	2457.79	2453.61	2448.75	2445.18	2440.21	2435.27	2433.91	2430.20
MAX DEPTH	0.20	0.24	0.14	0.11	0.12	0.18	0.21	0.27	0.13	0.20
VELOCITY	0.44	0.81	0.37	0.30	0.27	0.42	0.91	0.91	0.31	0.44
TIME	2.45	2.75	2.87	1.50	1.50	3.03	2.18	2.19	2.44	2.41
MAX VEL	0.89	0.81	0.37	0.30	0.27	0.42	0.91	0.91	0.31	0.90
DEPTH	0.20	0.24	0.14	0.11	0.12	0.18	0.20	0.26	0.13	0.20
TIME	2.45	2.77	2.96	1.51	1.52	3.03	2.19	2.20	2.45	2.42
NODE	3251	3252	3253	3254	3255	3256	3257	3258	3259	3260
ELEVATION	2425.28	2423.45	2420.14	2415.72	2412.19	2408.60	2405.21	2401.43	2399.77	2395.28
MAX DEPTH	0.28	0.20	0.14	0.19	0.23	0.21	0.21	0.25	0.13	0.28
VELOCITY	0.78	0.33	0.34	0.37	0.38	0.62	0.81	0.94	0.31	0.36
TIME	1.97	2.53	2.77	2.93	1.77	1.88	2.01	2.06	2.58	1.70
MAX VEL	0.80	0.58	0.34	0.37	0.78	0.75	0.81	0.94	0.31	0.80
DEPTH	0.27	0.20	0.14	0.19	0.21	0.20	0.21	0.25	0.13	0.28
TIME	2.48	2.40	2.78	2.99	1.85	2.08	2.02	2.05	2.59	3.71
[illegible]NODE	3261	3262	3263	3264	3265	3266	3267	3268	3269	3270
[illegible]VATION	2393.17	2388.88	2385.28	2381.38	2379.87	2690.13	2690.24	2687.65	2683.42	2680.21
[illegible] DEPTH	0.18	0.14	0.17	0.48	1.02	0.13	0.11	0.11	0.14	0.21
VELOCITY	0.36	0.30	0.36	0.88	5.54	0.32	0.00	0.00	0.36	0.43
TIME	2.52	2.52	2.59	6.65	6.71	1.50	1.34	1.34	1.52	1.66
MAX VEL	0.36	0.30	0.36	0.88	5.64	0.32	0.34	0.32	0.36	0.44
DEPTH	0.18	0.14	0.17	0.48	1.02	0.13	0.11	0.11	0.14	0.21
TIME	2.52	2.52	2.61	6.66	6.68	1.51	1.35	1.35	1.53	1.66
NODE	3271	3272	3273	3274	3275	3276	3277	3278	3279	3280
ELEVATION	2679.05	2675.11	2670.26	2668.50	2666.43	2663.73	2662.45	2660.00	2657.41	2655.13
MAX DEPTH	0.11	0.11	0.26	0.18	0.13	0.15	0.12	0.13	0.14	0.13
VELOCITY	0.00	0.32	1.03	0.46	0.36	0.35	0.33	0.33	0.33	0.30
TIME	1.36	1.93	1.76	1.87	1.50	1.61	1.50	1.50	1.51	1.50
MAX VEL	0.33	0.32	1.06	0.46	0.36	0.35	0.33	0.34	0.33	0.30
DEPTH	0.10	0.11	0.25	0.18	0.13	0.15	0.12	0.13	0.14	0.13
TIME	1.43	1.94	1.63	1.88	1.53	1.64	1.52	1.52	1.58	1.51
NODE	3281	3282	3283	3284	3285	3286	3287	3288	3289	3290
ELEVATION	2652.18	2650.11	2646.10	2643.32	2635.57	2635.25	2633.69	2631.37	2628.36	2625.57
MAX DEPTH	0.14	0.11	0.11	0.11	0.57	0.25	0.12	0.12	0.13	0.11
VELOCITY	0.34	0.00	0.29	0.00	1.28	0.92	0.31	0.31	0.35	0.30
TIME	1.50	1.30	1.50	1.32	2.39	2.27	1.50	1.50	1.50	1.50
MAX VEL	0.35	0.29	0.29	0.37	3.45	0.92	0.31	0.31	0.35	0.30
DEPTH	0.14	0.10	0.11	0.11	0.53	0.25	0.12	0.12	0.13	0.11
TIME	1.51	1.34	1.50	1.42	2.27	2.27	1.51	1.52	1.51	1.51
NODE	3291	3292	3293	3294	3295	3296	3297	3298	3299	3300
ELEVATION	2622.00	2618.31	2613.09	2607.56	2608.35	2605.11	2601.58	2597.03	2593.47	2590.45
MAX DEPTH	0.11	0.12	0.24	0.67	0.11	0.11	0.12	0.14	0.20	0.20
VELOCITY	0.30	0.33	1.05	1.19	0.00	0.26	0.30	0.30	0.40	0.38
TIME	1.49	1.50	1.84	1.98	1.32	1.31	1.50	1.49	2.99	2.88
MAX VEL	0.30	0.33	1.06	1.19	0.28	0.26	0.30	0.30	0.40	0.73
DEPTH	0.11	0.12	0.24	0.67	0.10	0.10	0.12	0.13	0.20	0.20
TIME	1.50	1.51	1.85	1.98	1.39	1.38	1.51	1.51	3.06	2.50
NODE	3301	3302	3303	3304	3305	3306	3307	3308	3309	3310
ELEVATION	2587.22	2583.56	2579.84	2575.23	2570.92	2567.48	2564.28	2562.46	2560.62	2555.43
MAX DEPTH	0.24	0.12	0.15	0.23	0.23	0.38	0.42	0.35	0.20	0.43
VELOCITY	0.75	0.31	0.35	0.87	0.81	1.05	1.03	0.96	0.46	1.23
TIME	2.80	2.90	2.99	3.39	2.98	2.80	2.85	3.06	3.22	2.96
MAX VEL	0.76	0.31	0.35	0.89	0.81	1.10	1.03	0.96	0.92	1.24
DEPTH	0.23	0.12	0.15	0.22	0.23	0.38	0.42	0.34	0.20	0.42
TIME	2.81	2.96	2.99	2.95	2.98	2.81	2.87	2.96	3.22	2.96
NODE	3311	3312	3313	3314	3315	3316	3317	3318	3319	3320
[illegible]EVATION	2555.20	2550.32	2547.81	2545.13	2540.87	2539.88	2535.14	2530.23	2528.48	2525.07
[illegible] DEPTH	0.20	0.32	0.23	0.13	0.22	0.11	0.14	0.23	0.13	0.12
[illegible]OCITY	0.44	0.87	0.96	0.36	0.79	0.00	0.35	0.38	0.32	0.28
[illegible]	2.96	2.98	3.05	3.00	5.76	1.41	1.50	1.58	1.50	1.50
[illegible] VEL	0.89	0.87	0.96	0.36	0.80	0.29	0.35	0.76	0.32	0.28
DEPTH	0.20	0.32	0.23	0.13	0.20	0.10	0.14	0.20	0.13	0.12
TIME	2.62	3.00	3.06	3.01	6.12	1.42	1.51	1.66	1.51	1.51
NODE	3321	3322	3323	3324	3325	3326	3327	3328	3329	3330
ELEVATION	2521.88	2518.68	2515.20	2510.70	2508.88	2502.96	2500.20	2496.34	2492.31	2489.70

MAX DEPTH	0.12	0.13	0.20	0.26	0.12	0.27	0.20	0.16	0.21	0.14
VELOCITY	0.30	0.34	0.43	0.81	0.34	0.46	0.56	0.37	0.44	0.34
TIME	1.50	6.82	5.89	5.92	6.08	6.08	6.22	6.41	6.27	2.76
MAX VEL	0.30	0.34	0.85	0.84	0.34	0.69	0.56	0.37	0.81	0.34
DEPTH	0.12	0.13	0.20	0.25	0.12	0.26	0.20	0.16	0.20	0.14
TIME	1.52	6.82	5.88	6.00	6.07	6.13	6.23	6.42	3.03	2.75
NODE	3331	3332	3333	3334	3335	3336	3337	3338	3339	3340
ELEVATION	2485.26	2482.22	2477.62	2475.07	2470.22	2465.52	2464.02	2460.13	2455.21	2450.26
MAX DEPTH	0.26	0.20	0.18	0.11	0.22	0.26	0.13	0.13	0.20	0.26
VELOCITY	0.60	0.44	0.35	0.29	0.92	0.90	0.30	0.33	0.45	0.77
TIME	6.43	2.04	2.30	2.35	2.37	2.38	2.63	2.80	2.40	2.87
MAX VEL	0.72	0.90	0.35	0.29	0.92	0.90	0.30	0.33	0.90	0.78
DEPTH	0.24	0.20	0.18	0.11	0.22	0.26	0.13	0.13	0.20	0.25
TIME	1.91	2.05	2.30	1.38	2.37	2.39	2.63	2.81	2.41	2.66
NODE	3341	3342	3343	3344	3345	3346	3347	3348	3349	3350
ELEVATION	2447.37	2443.57	2439.10	2435.08	2430.30	2427.76	2425.17	2421.25	2419.54	2415.12
MAX DEPTH	0.17	0.13	0.15	0.20	0.30	0.20	0.17	0.25	0.11	0.12
VELOCITY	0.37	0.36	0.33	0.44	0.77	0.53	0.35	0.94	0.29	0.26
TIME	2.96	3.03	3.08	2.20	2.48	2.43	2.60	2.50	2.84	2.99
MAX VEL	0.37	0.36	0.33	0.89	0.77	0.71	0.35	0.94	0.29	0.26
DEPTH	0.17	0.13	0.15	0.20	0.30	0.20	0.17	0.24	0.11	0.12
TIME	2.97	3.03	3.07	2.22	2.49	2.93	2.61	2.50	2.86	2.93
NODE	3351	3352	3353	3354	3355	3356	3357	3358	3359	3360
ELEVATION	2412.16	2408.10	2404.00	2400.20	2395.63	2395.10	2390.75	2387.58	2383.97	2380.98
MAX DEPTH	0.11	0.12	0.14	0.20	0.28	0.10	0.20	0.16	0.14	0.20
VELOCITY	0.00	0.30	0.35	0.43	0.97	0.00	0.39	0.35	0.29	0.40
TIME	1.30	1.50	2.83	2.14	2.15	1.49	2.08	2.74	2.84	4.29
MAX VEL	0.29	0.30	0.35	0.86	0.97	0.29	0.79	0.35	0.29	0.81
DEPTH	0.10	0.12	0.14	0.19	0.28	0.10	0.20	0.16	0.14	0.20
TIME	1.31	1.51	2.93	2.28	2.16	1.41	2.35	2.69	2.84	4.18
NODE	3361	3362	3363	3364	3365	3366	3367	3368	3369	3370
ELEVATION	2380.15	2375.39	2685.11	2683.85	2683.18	2679.19	2676.02	2672.85	2671.25	2666.89
MAX DEPTH	0.15	1.57	0.11	0.13	0.11	0.12	0.15	0.17	0.11	0.19
VELOCITY	0.36	3.63	0.35	0.36	0.00	0.36	0.40	0.40	0.00	0.45
TIME	6.81	6.76	1.48	1.48	1.35	1.49	1.57	1.77	1.34	2.12
MAX VEL	0.36	3.67	0.35	0.37	0.37	0.36	0.40	0.40	0.31	0.45
DEPTH	0.15	1.56	0.11	0.13	0.11	0.12	0.15	0.17	0.10	0.19
TIME	6.81	6.66	1.49	1.49	1.36	1.50	1.58	1.78	1.71	2.11
NODE	3371	3372	3373	3374	3375	3376	3377	3378	3379	3380
ELEVATION	2662.58	2660.47	2659.19	2657.70	2655.15	2652.88	2651.96	2649.12	2645.17	2642.92
MAX DEPTH	0.24	0.24	0.16	0.14	0.15	0.17	0.11	0.13	0.17	0.13
VELOCITY	0.77	0.38	0.37	0.35	0.35	0.38	0.32	0.29	0.42	0.35
TIME	1.59	1.63	1.66	1.66	1.59	1.66	1.50	1.50	1.51	1.50
MAX VEL	0.79	0.73	0.37	0.35	0.35	0.38	0.32	0.29	0.42	0.35
DEPTH	0.22	0.22	0.16	0.14	0.15	0.17	0.11	0.13	0.17	0.12
TIME	1.68	1.68	1.67	1.66	1.60	1.69	1.54	1.52	1.52	1.51
NODE	3381	3382	3383	3384	3385	3386	3387	3388	3389	3390
ELEVATION	2639.44	2636.73	2631.37	2629.79	2626.92	2625.11	2620.61	2619.78	2615.12	2612.54
MAX DEPTH	0.11	0.11	0.53	0.25	0.14	0.11	0.18	0.11	0.12	0.11
VELOCITY	0.00	0.00	1.36	1.05	0.35	0.30	0.34	0.00	0.29	0.00
TIME	1.42	1.36	2.41	2.44	1.62	1.50	1.59	1.41	1.48	1.39
MAX VEL	0.29	0.31	1.39	1.05	0.35	0.30	0.34	0.33	0.29	0.28
DEPTH	0.11	0.10	0.52	0.25	0.14	0.11	0.18	0.11	0.12	0.10
TIME	1.47	1.46	2.41	2.19	1.63	1.54	1.56	1.42	1.49	1.47
NODE	3391	3392	3393	3394	3395	3396	3397	3398	3399	3400
ELEVATION	2608.91	2603.73	2601.72	2599.45	2595.12	2591.50	2587.41	2584.58	2580.74	2577.55
MAX DEPTH	0.11	0.31	0.16	0.11	0.12	0.13	0.18	0.16	0.14	0.11
VELOCITY	0.00	1.05	0.35	0.00	0.31	0.31	0.41	0.41	0.33	0.00
TIME	1.41	1.94	2.16	1.35	1.49	1.50	3.08	3.07	3.00	1.30
MAX VEL	0.32	1.07	0.36	0.30	0.31	0.31	0.41	0.41	0.33	0.28
DEPTH	0.11	0.30	0.16	0.11	0.12	0.13	0.18	0.16	0.14	0.10
TIME	1.42	2.03	2.16	1.36	1.50	1.52	3.09	3.09	3.00	1.47
NODE	3401	3402	3403	3404	3405	3406	3407	3408	3409	3410
ELEVATION	2575.10	2570.12	2566.22	2562.94	2560.22	2557.14	2554.98	2550.47	2550.10	2545.67
MAX DEPTH	0.11	0.12	0.20	0.25	0.33	0.21	0.20	0.47	0.17	0.20
VELOCITY	0.00	0.29	0.36	0.97	1.26	0.85	0.42	1.26	0.38	0.43
TIME	1.41	3.10	2.02	2.85	2.93	2.05	2.96	3.07	3.09	3.15
MAX VEL	0.29	0.29	0.77	0.97	1.26	0.85	0.86	1.26	0.38	0.88
DEPTH	0.10	0.12	0.20	0.25	0.33	0.21	0.20	0.47	0.17	0.20
TIME	1.47	3.11	2.86	2.85	2.93	2.06	2.96	3.07	3.09	2.31
NODE	3411	3412	3413	3414	3415	3416	3417	3418	3419	3420
ELEVATION	2540.98	2537.43	2535.20	2532.81	2528.84	2525.21	2521.92	2519.42	2515.75	2511.50
MAX DEPTH	0.30	0.27	0.20	0.11	0.12	0.21	0.17	0.12	0.12	0.16
VELOCITY	0.95	1.68	0.76	0.00	0.27	0.35	0.39	0.31	0.29	0.37
TIME	3.08	5.71	5.95	1.35	1.51	1.68	1.77	1.50	1.50	1.66
MAX VEL	0.95	1.68	1.52	0.40	0.27	0.35	0.40	0.31	0.29	0.37
DEPTH	0.29	0.27	0.20	0.10	0.12	0.21	0.17	0.12	0.12	0.16
TIME	3.11	5.71	5.95	1.36	1.52	1.69	1.78	1.52	1.54	1.67
NODE	3421	3422	3423	3424	3425	3426	3427	3428	3429	3430
ELEVATION	2509.73	2505.20	2501.70	2498.23	2494.23	2490.23	2486.55	2483.33	2480.14	2475.25
MAX DEPTH	0.12	0.20	0.17	0.16	0.19	0.23	0.21	0.20	0.14	0.25
VELOCITY	0.30	0.51	0.37	0.34	0.39	0.39	0.42	0.39	0.36	0.38
TIME	6.37	6.07	6.18	6.37	6.47	6.34	1.85	1.95	2.08	6.67
MAX VEL	0.30	0.51	0.38	0.34	0.39	0.80	0.87	0.83	0.36	0.79
DEPTH	0.12	0.20	0.16	0.16	0.19	0.22	0.20	0.20	0.14	0.22
TIME	6.38	6.05	6.22	6.37	6.48	6.39	1.86	3.18	2.48	2.12
NODE	3431	3432	3433	3434	3435	3436	3437	3438	3439	3440
ELEVATION	2472.19	2469.09	2465.17	2460.65	2458.45	2453.86	2450.13	2445.93	2441.34	2435.37
MAX DEPTH	0.16	0.12	0.15	0.28	0.16	0.16	0.14	0.24	0.20	0.21
VELOCITY	0.38	0.32	0.36	0.89	0.37	0.33	0.32	0.43	0.49	0.78
TIME	2.32	2.50	2.76	2.20	2.64	2.79	2.91	2.46	2.96	2.98
MAX VEL	0.38	0.32	0.36	0.90	0.37	0.33	0.32	0.86	0.98	0.78
DEPTH	0.16	0.12	0.15	0.28	0.16	0.15	0.14	0.23	0.20	0.21
TIME	2.35	2.52	2.76	2.21	2.70	2.92	2.93	2.50	2.97	2.98
NODE	3441	3442	3443	3444	3445	3446	3447	3448	3449	3450
ELEVATION	2434.12	2430.13	2426.43	2423.34	2420.20	2415.26	2412.95	2410.16	2405.22	2401.58
MAX DEPTH	0.11	0.13	0.20	0.20	0.20	0.26	0.21	0.16	0.22	0.16
VELOCITY	0.29	0.28	0.39	0.42	0.45	0.85	0.61	0.38	0.38	0.36
TIME	1.50	2.49	3.10	3.11	2.93	2.88	1.97	3.23	3.23	3.25
MAX VEL	0.29	0.28	0.79	0.85	0.90	0.85	0.68	0.38	0.76	0.36
DEPTH	0.11	0.13	0.20	0.20	0.20	0.26	0.20	0.16	0.21	0.16
TIME	1.51	2.50	3.11	2.47	2.93	2.86	2.45	3.23	3.25	3.25

NODE	3451	3452	3453	3454	3455	3456	3457	3458	3459	3460
ELEVATION	2397.09	2395.20	2390.43	2389.07	2385.22	2381.57	2379.56	2375.24	2374.00	2678.72
MAX DEPTH	0.21	0.20	0.35	0.20	0.22	0.20	0.16	0.24	1.77	0.16
VELOCITY	0.41	0.44	0.95	0.39	0.38	0.82	0.36	0.69	4.54	0.39
TIME	2.15	2.25	2.62	2.82	2.17	2.45	4.33	4.50	6.78	1.53
MAX VEL	0.55	0.89	0.95	0.79	0.78	0.82	0.36	0.69	4.59	0.39
DEPTH	0.20	0.20	0.35	0.20	0.21	0.20	0.16	0.24	1.76	0.16
TIME	2.25	2.25	2.62	2.82	2.21	2.42	4.32	4.49	6.66	1.54

NODE	3461	3462	3463	3464	3465	3466	3467	3468	3469	3470
[illegible]EVATION	2680.11	2675.21	2675.85	2670.46	2670.22	2665.67	2663.62	2659.34	2657.42	2655.17
[illegible]X DEPTH	0.11	0.21	0.11	0.23	0.11	0.18	0.11	0.21	0.21	0.17
[illegible]LOCITY	0.00	0.40	0.00	0.36	0.00	0.33	0.00	1.02	0.52	0.41
[illegible]IME	1.42	1.53	1.39	1.75	1.29	1.92	1.31	1.64	1.70	1.86
MAX VEL	0.34	0.40	0.33	0.36	0.32	0.33	0.32	1.02	1.06	0.41
DEPTH	0.10	0.21	0.10	0.23	0.11	0.18	0.10	0.21	0.20	0.17
TIME	1.38	1.54	1.41	1.72	1.51	1.93	1.32	1.65	1.72	1.86

NODE	3471	3472	3473	3474	3475	3476	3477	3478	3479	3480
ELEVATION	2652.62	2652.38	2648.76	2646.41	2646.30	2642.98	2637.11	2635.20	2632.79	2630.42
MAX DEPTH	0.20	0.11	0.15	0.20	0.11	0.11	0.20	0.16	0.11	0.18
VELOCITY	0.42	0.33	0.39	0.48	0.00	0.32	0.41	0.35	0.26	0.39
TIME	1.91	1.50	1.60	1.67	1.41	1.50	1.50	1.54	1.49	2.44
MAX VEL	0.42	0.33	0.39	0.95	0.30	0.33	0.82	0.35	0.26	0.39
DEPTH	0.20	0.11	0.15	0.20	0.10	0.11	0.20	0.16	0.11	0.18
TIME	1.91	1.51	1.60	1.88	1.42	1.51	1.51	1.55	1.50	2.44

NODE	3481	3482	3483	3484	3485	3486	3487	3488	3489	3490
ELEVATION	2625.98	2622.53	2620.22	2618.80	2615.14	2611.03	2608.94	2605.93	2600.82	2597.58
MAX DEPTH	0.43	0.31	0.22	0.12	0.14	0.17	0.13	0.11	0.21	0.28
VELOCITY	1.12	1.21	0.92	0.27	0.33	0.36	0.34	0.00	0.43	0.96
TIME	2.46	2.49	1.83	1.50	1.52	1.51	1.50	1.42	1.80	2.10
MAX VEL	1.12	1.21	0.93	0.27	0.33	0.37	0.34	0.30	0.86	0.96
DEPTH	0.43	0.31	0.21	0.12	0.14	0.17	0.13	0.11	0.20	0.28
TIME	2.46	2.48	1.84	1.51	1.53	1.52	1.51	1.43	1.81	2.11

NODE	3491	3492	3493	3494	3495	3496	3497	3498	3499	3500
ELEVATION	2595.69	2592.12	2588.62	2585.19	2580.27	2576.31	2574.56	2571.12	2567.87	2564.60
MAX DEPTH	0.11	0.11	0.14	0.14	0.20	0.20	0.15	0.11	0.11	0.12
VELOCITY	0.28	0.28	0.29	0.35	0.40	0.42	0.34	0.27	0.29	0.29
TIME	2.25	1.49	1.50	1.56	3.06	2.88	3.06	1.50	1.50	1.50
MAX VEL	0.28	0.28	0.29	0.35	0.80	0.84	0.34	0.27	0.29	0.29
DEPTH	0.11	0.11	0.14	0.14	0.20	0.20	0.14	0.11	0.11	0.12
TIME	2.24	1.50	1.53	1.57	3.06	2.89	3.06	1.51	1.51	1.52

NODE	3501	3502	3503	3504	3505	3506	3507	3508	3509	3510
ELEVATION	2561.04	2556.97	2553.04	2551.59	2550.15	2545.39	2543.80	2539.95	2540.14	2520.92
MAX DEPTH	0.20	0.27	0.40	0.21	0.15	0.39	0.20	0.28	0.10	0.92
VELOCITY	0.42	0.99	1.27	0.42	0.36	1.00	0.43	0.83	0.00	0.51
TIME	2.86	2.91	2.99	3.13	3.08	3.11	3.12	3.15	1.31	3.26
MAX VEL	0.85	0.99	1.27	0.86	0.36	1.00	0.55	0.83	0.56	0.86
DEPTH	0.20	0.27	0.39	0.20	0.15	0.39	0.19	0.28	0.09	0.89
TIME	3.05	2.92	2.99	2.67	3.08	3.10	3.13	3.15	1.77	3.34

NODE	3511	3512	3513	3514	3515	3516	3517	3518	3519	3520
ELEVATION	2528.33	2525.19	2523.18	2519.42	2515.19	2512.71	2509.94	2505.19	2503.90	2500.11
MAX DEPTH	0.11	0.11	0.11	0.12	0.19	0.13	0.12	0.19	0.11	0.11
[illegible]VELOCITY	0.00	0.00	0.00	0.31	0.34	0.32	0.31	0.37	0.00	0.30
[illegible]ME	1.36	1.30	1.38	1.50	1.91	1.50	1.50	1.72	1.38	1.50
[illegible]X VEL	0.37	0.29	0.32	0.31	0.34	0.32	0.31	0.37	0.27	0.30
[illegible]TH	0.10	0.10	0.11	0.12	0.19	0.13	0.12	0.19	0.11	0.11
[illegible]ME	1.50	1.32	1.39	1.51	1.92	1.52	1.52	1.72	1.39	1.52

NODE	3521	3522	3523	3524	3525	3526	3527	3528	3529	3530
ELEVATION	2495.22	2493.27	2489.01	2485.13	2480.25	2477.38	2474.25	2470.21	2465.41	2461.63
MAX DEPTH	0.18	0.11	0.12	0.13	0.25	0.21	0.14	0.21	0.22	0.21
VELOCITY	0.28	0.32	0.31	0.35	0.37	0.51	0.34	0.44	0.38	0.42
TIME	6.46	1.50	1.50	1.95	6.48	6.67	3.48	6.79	6.91	2.16
MAX VEL	0.28	0.32	0.31	0.35	0.70	0.51	0.34	0.89	0.81	0.84
DEPTH	0.17	0.11	0.12	0.13	0.22	0.21	0.14	0.20	0.21	0.20
TIME	1.66	1.51	1.51	1.95	6.59	3.42	3.48	6.80	2.17	2.19

NODE	3531	3532	3533	3534	3535	3536	3537	3538	3539	3540
ELEVATION	2460.11	2455.21	2451.81	2448.05	2444.67	2440.15	2435.19	2430.23	2427.66	2425.23
MAX DEPTH	0.11	0.21	0.14	0.14	0.11	0.15	0.19	0.23	0.20	0.23
VELOCITY	0.00	0.83	0.31	0.37	0.29	0.37	0.43	0.79	0.31	0.90
TIME	1.41	2.35	2.84	3.00	1.50	2.53	2.88	2.48	2.61	3.08
MAX VEL	0.34	0.83	0.31	0.37	0.29	0.37	0.43	0.79	0.61	0.90
DEPTH	0.11	0.20	0.14	0.14	0.11	0.15	0.19	0.23	0.20	0.23
TIME	1.42	2.35	2.93	2.99	3.11	2.53	2.89	2.47	2.62	3.08

NODE	3541	3542	3543	3544	3545	3546	3547	3548	3549	3550
ELEVATION	2421.10	2417.23	2414.54	2410.81	2408.87	2405.12	2400.20	2396.88	2393.17	2390.19
MAX DEPTH	0.28	0.25	0.21	0.27	0.20	0.12	0.20	0.14	0.18	0.19
VELOCITY	0.90	0.54	0.39	0.90	0.42	0.31	0.35	0.31	0.32	0.43
TIME	2.32	1.76	2.88	1.90	3.00	3.09	3.28	3.39	3.00	2.99
MAX VEL	0.93	0.75	0.79	0.90	0.84	0.31	0.60	0.31	0.32	0.43
DEPTH	0.26	0.21	0.20	0.27	0.20	0.12	0.20	0.14	0.18	0.19
TIME	1.77	2.35	3.13	1.91	2.77	3.10	3.29	3.39	3.45	3.00

NODE	3551	3552	3553	3554	3555	3556	3557	3558	3559	3560
ELEVATION	2385.63	2383.55	2380.15	2375.80	2374.92	2371.91	2673.51	2675.20	2670.85	2671.12
MAX DEPTH	0.24	0.14	0.15	0.25	0.11	0.80	0.15	0.11	0.16	0.11
VELOCITY	0.87	0.32	0.34	0.75	0.24	5.20	0.40	0.00	0.35	0.00
TIME	2.66	2.84	3.00	2.50	4.50	6.78	1.50	1.39	1.54	1.38
MAX VEL	0.88	0.32	0.34	0.75	0.25	5.25	0.41	0.41	0.35	0.32
DEPTH	0.24	0.14	0.15	0.25	0.10	0.80	0.15	0.10	0.16	0.10
TIME	2.66	2.85	3.00	2.50	1.51	6.78	1.51	1.41	1.55	1.39

NODE	3561	3562	3563	3564	3565	3566	3567	3568	3569	3570
ELEVATION	2667.14	2665.13	2662.00	2659.73	2655.21	2650.73	2649.87	2650.11	2646.17	2646.20
MAX DEPTH	0.14	0.13	0.14	0.11	0.21	0.37	0.25	0.11	0.20	0.11
VELOCITY	0.34	0.34	0.33	0.29	0.42	0.85	0.96	0.00	0.38	0.00
TIME	1.49	1.85	1.93	1.50	1.86	1.98	2.01	1.35	1.82	1.38
MAX VEL	0.34	0.34	0.34	0.29	0.86	0.85	0.97	0.34	0.53	0.32
[illegible]EPTH	0.13	0.13	0.14	0.11	0.20	0.37	0.25	0.11	0.20	0.10
[illegible]ME	1.50	1.86	1.54	1.51	1.87	1.98	2.01	1.36	1.65	1.39

NODE	3571	3572	3573	3574	3575	3576	3577	3578	3579	3580
[illegible]VATION	2640.78	2642.13	2638.98	2635.35	2631.20	2630.12	2627.37	2625.46	2621.01	2615.45
MAX DEPTH	0.24	0.11	0.11	0.12	0.22	0.12	0.11	0.13	0.30	0.61
VELOCITY	0.68	0.00	0.00	0.33	0.40	0.30	0.29	0.33	1.24	1.22
TIME	1.51	1.38	1.39	1.50	1.54	1.50	1.50	2.35	2.21	1.84
MAX VEL	0.71	0.29	0.30	0.33	0.80	0.30	0.29	0.33	1.25	3.28
DEPTH	0.23	0.11	0.11	0.12	0.20	0.12	0.11	0.13	0.29	0.57

TIME	1.61	1.39	1.41	1.51	1.59	1.51	1.51	2.35	2.22	2.93
NODE	3581	3582	3583	3584	3585	3586	3587	3588	3589	3590
ELEVATION	2615.20	2612.92	2608.93	2605.19	2601.59	2599.59	2594.40	2591.33	2589.18	2586.08
MAX DEPTH	0.20	0.11	0.16	0.19	0.17	0.11	0.21	0.21	0.11	0.11
VELOCITY	0.38	0.00	0.34	0.37	0.31	0.00	0.48	0.47	0.00	0.27
TIME	1.88	1.30	1.91	1.66	1.66	1.29	1.83	1.84	1.30	1.50
MAX VEL	0.77	0.28	0.34	0.37	0.31	0.30	1.00	0.96	0.31	0.27
DEPTH	0.20	0.10	0.16	0.19	0.16	0.10	0.21	0.20	0.10	0.11
TIME	1.97	1.85	1.92	1.67	1.56	1.44	1.84	1.61	1.56	1.50
NODE	3591	3592	3593	3594	3595	3596	3597	3598	3599	3600
ELEVATION	2583.17	2578.98	2575.03	2570.23	2568.42	2565.16	2561.50	2558.34	2554.67	2551.08
MAX DEPTH	0.11	0.13	0.16	0.23	0.14	0.12	0.13	0.12	0.20	0.30
VELOCITY	0.00	0.30	0.37	0.82	0.34	0.30	0.31	0.32	0.38	1.03
TIME	1.30	1.50	1.66	3.13	1.57	1.50	1.50	1.50	3.15	3.03
MAX VEL	0.27	0.30	0.37	0.82	0.34	0.30	0.31	0.32	0.77	1.04
DEPTH	0.10	0.13	0.16	0.23	0.13	0.11	0.12	0.12	0.20	0.30
TIME	1.57	1.51	1.70	3.13	1.58	1.52	1.52	1.52	2.67	3.04
NODE	3601	3602	3603	3604	3605	3606	3607	3608	3609	3610
ELEVATION	2547.24	2545.46	2543.52	2540.21	2537.19	2544.81	2520.82	2520.80	2522.12	2518.53
MAX DEPTH	0.43	0.21	0.20	0.21	0.30	0.10	0.82	0.80	0.11	0.14
VELOCITY	1.36	0.85	0.45	0.38	0.82	0.00	0.64	0.54	0.00	0.32
TIME	3.15	3.00	2.93	3.03	3.14	1.38	3.27	3.21	1.32	1.50
MAX VEL	1.36	0.85	0.90	0.79	0.82	0.62	0.75	1.22	0.29	0.32
DEPTH	0.42	0.21	0.20	0.21	0.29	0.09	0.80	0.77	0.10	0.14
TIME	3.16	2.99	2.93	3.04	3.26	1.87	3.34	3.31	1.39	1.51
NODE	3611	3612	3613	3614	3615	3616	3617	3618	3619	3620
ELEVATION	2515.15	2512.68	2510.04	2506.08	2503.09	2500.20	2497.73	2493.46	2490.83	2485.56
MAX DEPTH	0.15	0.14	0.15	0.16	0.20	0.20	0.11	0.15	0.12	0.17
VELOCITY	0.30	0.30	0.33	0.30	0.36	0.40	0.28	0.36	0.32	0.33
TIME	1.50	1.60	1.91	1.66	1.75	1.91	1.50	1.59	1.50	1.66
MAX VEL	0.30	0.30	0.33	0.30	0.37	0.40	0.28	0.36	0.32	0.33
DEPTH	0.14	0.14	0.15	0.16	0.19	0.20	0.11	0.15	0.12	0.17
TIME	1.53	1.90	1.92	1.68	1.84	1.93	1.51	1.60	1.52	1.68
NODE	3621	3622	3623	3624	3625	3626	3627	3628	3629	3630
ELEVATION	2482.51	2477.63	2475.18	2471.40	2467.67	2464.75	2460.18	2455.52	2451.05	2450.11
MAX DEPTH	0.13	0.20	0.18	0.18	0.17	0.12	0.18	0.20	0.28	0.11
VELOCITY	0.34	0.40	0.35	0.39	0.36	0.33	0.41	0.42	0.87	0.30
TIME	1.50	2.56	2.79	3.42	3.57	2.84	2.84	2.62	2.51	2.89
MAX VEL	0.34	0.81	0.35	0.39	0.36	0.33	0.41	0.86	0.87	0.30
DEPTH	0.13	0.20	0.17	0.18	0.17	0.12	0.18	0.20	0.27	0.11
TIME	1.52	1.91	3.13	3.43	3.55	2.84	2.84	2.63	2.64	2.89
NODE	3631	3632	3633	3634	3635	3636	3637	3638	3639	3640
ELEVATION	2445.98	2440.27	2438.92	2434.50	2430.12	2425.59	2425.84	2424.92	2416.49	2412.52
MAX DEPTH	0.13	0.27	0.11	0.12	0.12	0.59	0.10	0.10	0.18	0.20
VELOCITY	0.35	0.36	0.29	0.30	0.32	0.38	0.24	0.00	0.38	0.43
TIME	3.00	2.62	1.50	2.94	1.50	3.03	1.49	1.32	2.89	2.75
MAX VEL	0.35	0.72	0.29	0.30	0.32	0.38	0.24	0.38	0.38	0.70
DEPTH	0.13	0.27	0.11	0.12	0.12	0.59	0.10	0.10	0.18	0.20
TIME	2.99	2.62	1.51	1.53	1.51	3.04	1.32	1.43	3.33	3.11
NODE	3641	3642	3643	3644	3645	3646	3647	3648	3649	3650
ELEVATION	2409.55	2405.75	2402.67	2398.99	2395.16	2391.35	2389.08	2383.43	2380.26	2377.58
X DEPTH	0.21	0.26	0.20	0.15	0.16	0.18	0.12	0.26	0.26	0.20
OCITY	0.80	0.87	0.42	0.32	0.34	0.37	0.34	0.84	0.88	0.31
E	2.41	1.95	2.64	2.99	3.41	3.46	3.00	2.13	2.14	2.32
X VEL	0.81	0.87	0.86	0.32	0.34	0.37	0.34	0.84	0.88	0.61
DEPTH	0.21	0.26	0.20	0.15	0.16	0.18	0.12	0.25	0.25	0.20
TIME	2.41	1.96	2.64	2.99	3.42	3.45	3.03	2.14	2.14	2.53
NODE	3651	3652	3653	3654	3655	3656	3657	3658	3659	3660
ELEVATION	2375.18	2371.64	2370.43	2366.52	2670.60	2665.20	2666.79	2665.86	2662.80	2660.14
MAX DEPTH	0.18	0.21	0.43	1.52	0.11	0.20	0.11	0.11	0.12	0.14
VELOCITY	0.36	0.41	1.41	3.27	0.00	0.90	0.00	0.00	0.32	0.35
TIME	2.82	1.73	4.54	4.53	1.41	1.46	1.41	1.36	1.49	1.50
MAX VEL	0.36	0.83	1.41	3.32	0.31	0.90	0.39	0.34	0.33	0.35
DEPTH	0.18	0.20	0.43	1.49	0.11	0.20	0.11	0.10	0.12	0.14
TIME	2.83	2.41	4.55	5.01	1.42	1.62	1.42	1.38	1.50	1.53
NODE	3661	3662	3663	3664	3665	3666	3667	3668	3669	3670
ELEVATION	2658.06	2655.13	2652.94	2650.17	2646.78	2643.70	2643.74	2640.16	2638.14	2638.15
MAX DEPTH	0.13	0.13	0.11	0.17	0.21	0.29	0.11	0.16	0.22	0.11
VELOCITY	0.35	0.33	0.00	0.40	1.03	1.18	0.00	0.34	0.41	0.00
TIME	1.50	1.50	1.30	2.13	1.79	1.92	1.34	1.89	1.60	1.39
MAX VEL	0.35	0.33	0.27	0.40	1.03	1.19	0.29	0.34	0.84	0.32
DEPTH	0.12	0.13	0.10	0.16	0.21	0.28	0.10	0.16	0.21	0.11
TIME	1.52	1.52	1.51	2.17	1.80	1.93	1.35	1.90	1.66	1.41
NODE	3671	3672	3673	3674	3675	3676	3677	3678	3679	3680
ELEVATION	2635.11	2631.93	2627.83	2625.66	2624.36	2620.71	2619.53	2616.75	2611.70	2610.21
MAX DEPTH	0.11	0.12	0.19	0.20	0.11	0.18	0.14	0.11	0.55	0.21
VELOCITY	0.30	0.28	0.44	0.46	0.28	0.34	0.34	0.30	1.31	0.57
TIME	1.50	1.50	1.60	1.57	1.50	2.40	2.60	2.23	2.12	2.24
MAX VEL	0.30	0.28	0.44	0.93	0.28	0.35	0.34	0.30	1.36	1.17
DEPTH	0.11	0.12	0.19	0.20	0.11	0.18	0.14	0.11	0.51	0.20
TIME	1.51	1.51	1.60	1.80	1.51	2.56	2.60	2.24	2.28	2.25
NODE	3681	3682	3683	3684	3685	3686	3687	3688	3689	3690
ELEVATION	2606.39	2602.69	2598.72	2595.82	2593.33	2586.27	2583.66	2582.23	2580.11	2576.92
MAX DEPTH	0.11	0.11	0.13	0.11	0.11	0.35	0.26	0.18	0.11	0.12
VELOCITY	0.00	0.00	0.32	0.33	0.00	0.84	1.12	0.46	0.25	0.28
TIME	1.39	1.35	1.85	1.50	1.39	2.25	1.98	2.45	1.49	1.50
MAX VEL	0.38	0.36	0.32	0.33	0.35	0.84	1.12	0.46	0.25	0.28
DEPTH	0.11	0.11	0.13	0.11	0.10	0.34	0.26	0.18	0.11	0.12
TIME	1.42	1.36	1.86	1.51	1.46	2.25	1.99	2.46	1.49	1.52
NODE	3691	3692	3693	3694	3695	3696	3697	3698	3699	3700
ELEVATION	2573.21	2568.68	2565.06	2561.56	2558.59	2555.14	2551.56	2549.36	2545.57	2541.28
MAX DEPTH	0.13	0.20	0.23	0.20	0.14	0.14	0.15	0.17	0.24	0.45
VELOCITY	0.32	0.38	0.88	0.42	0.30	0.32	0.34	0.39	0.98	1.35
TIME	1.50	1.64	1.57	1.63	1.63	1.50	1.59	3.00	2.97	3.02
X VEL	0.32	0.77	0.88	0.85	0.30	0.32	0.34	0.39	0.98	1.35
TH	0.13	0.20	0.23	0.19	0.14	0.14	0.15	0.17	0.24	0.45
E	1.53	1.65	1.57	1.64	1.66	1.52	1.60	3.01	2.97	3.09
NODE	3701	3702	3703	3704	3705	3706	3707	3708	3709	3710
ELEVATION	2540.21	2536.53	2535.23	2532.74	2535.18	2520.70	2520.24	2515.30	2512.51	2510.13
MAX DEPTH	0.21	0.22	0.23	0.21	0.10	0.70	0.24	0.22	0.17	0.13
VELOCITY	0.44	0.87	0.96	1.19	0.00	1.09	0.95	0.60	0.41	0.34
TIME	3.02	3.15	3.16	3.25	1.31	3.25	3.31	2.88	2.91	1.66

MAX VEL	0.89	0.88	0.96	1.19	0.49	1.10	0.96	0.77	0.41	0.34
DEPTH	0.20	0.21	0.23	0.21	0.09	0.68	0.23	0.21	0.17	0.13
TIME	3.02	3.15	3.16	3.25	1.50	3.25	3.31	2.91	2.92	1.68
NODE	3711	3712	3713	3714	3715	3716	3717	3718	3719	3720
ELEVATION	2506.95	2504.30	2501.45	2497.77	2494.38	2491.59	2487.06	2484.16	2480.14	2475.32
MAX DEPTH	0.12	0.12	0.11	0.17	0.20	0.12	0.16	0.13	0.14	0.20
VELOCITY	0.29	0.30	0.29	0.34	0.35	0.31	0.30	0.33	0.35	0.38
TIME	1.50	1.50	1.50	1.91	2.00	1.50	1.66	1.50	1.59	1.91
[illegible]AX VEL	0.29	0.30	0.29	0.34	0.35	0.31	0.30	0.33	0.35	0.77
[illegible]PTH	0.12	0.12	0.11	0.17	0.19	0.12	0.16	0.13	0.14	0.20
[illegible]ME	1.52	1.53	1.51	1.93	2.05	1.51	1.68	1.52	1.65	1.92
NODE	3721	3722	3723	3724	3725	3726	3727	3728	3729	3730
ELEVATION	2471.93	2469.77	2465.19	2461.80	2457.61	2454.40	2450.21	2446.39	2443.34	2440.11
MAX DEPTH	0.21	0.13	0.19	0.16	0.17	0.15	0.21	0.25	0.16	0.11
VELOCITY	0.54	0.33	0.40	0.37	0.34	0.34	0.39	0.97	0.41	0.00
TIME	2.76	2.98	2.85	2.87	2.84	3.75	2.27	2.61	2.96	1.36
MAX VEL	0.76	0.33	0.40	0.37	0.34	0.34	0.80	0.97	0.41	0.31
DEPTH	0.20	0.13	0.19	0.16	0.17	0.15	0.21	0.25	0.16	0.10
TIME	2.04	2.99	2.85	2.93	2.81	3.75	2.28	2.61	2.97	1.38
NODE	3731	3732	3733	3734	3735	3736	3737	3738	3739	3740
ELEVATION	2435.77	2433.18	2429.15	2425.26	2430.10	2429.90	2414.56	2410.16	2406.76	2404.60
MAX DEPTH	0.17	0.11	0.12	0.26	0.10	0.10	0.11	0.16	0.19	0.20
VELOCITY	0.36	0.00	0.28	0.88	0.00	0.00	0.27	0.33	0.41	0.41
TIME	2.99	1.39	1.50	3.09	1.43	1.47	1.36	3.33	3.03	2.77
MAX VEL	0.36	0.28	0.28	0.88	0.40	0.49	0.28	0.33	0.41	0.83
DEPTH	0.17	0.11	0.12	0.26	0.09	0.09	0.10	0.16	0.19	0.20
TIME	2.99	1.41	1.51	3.10	1.49	1.90	1.38	3.33	3.03	2.78
NODE	3741	3742	3743	3744	3745	3746	3747	3748	3749	3750
ELEVATION	2400.32	2396.30	2393.80	2390.18	2386.03	2383.35	2379.50	2375.27	2373.55	2369.86
MAX DEPTH	0.22	0.23	0.15	0.18	0.20	0.11	0.20	0.27	0.18	0.20
VELOCITY	0.84	0.87	0.31	0.38	0.37	0.29	0.41	0.88	0.35	0.41
TIME	2.79	2.96	3.00	3.05	2.75	3.01	3.08	2.39	3.00	2.93
MAX VEL	0.84	0.87	0.31	0.38	0.54	0.29	0.83	0.88	0.35	0.83
DEPTH	0.21	0.22	0.15	0.18	0.20	0.11	0.20	0.27	0.18	0.20
TIME	2.80	2.97	3.00	3.08	2.80	2.98	3.09	2.39	3.02	2.93
NODE	3751	3752	3753	3754	3755	3756	3757	3758	3759	3760
ELEVATION	2365.96	2364.72	2665.80	2663.60	2658.26	2659.24	2657.62	2655.33	2652.85	2650.17
MAX DEPTH	0.52	0.59	0.10	0.11	0.27	0.11	0.13	0.13	0.14	0.17
VELOCITY	1.44	4.16	0.00	0.32	0.76	0.29	0.34	0.37	0.38	0.30
TIME	4.46	4.67	1.31	1.48	1.50	1.34	1.50	1.50	1.53	1.66
MAX VEL	3.98	4.82	0.31	0.32	0.76	0.29	0.34	0.37	0.38	0.30
DEPTH	0.50	0.52	0.10	0.11	0.25	0.11	0.12	0.13	0.14	0.17
TIME	4.71	3.38	1.43	1.49	1.55	1.50	1.51	1.52	1.58	1.60
NODE	3761	3762	3763	3764	3765	3766	3767	3768	3769	3770
ELEVATION	2649.77	2646.73	2642.98	2638.26	2639.52	2637.08	2634.54	2632.39	2631.97	2628.18
MAX DEPTH	0.11	0.11	0.20	0.48	0.11	0.12	0.16	0.23	0.11	0.12
VELOCITY	0.29	0.31	0.47	1.06	0.00	0.31	0.36	0.40	0.00	0.32
TIME	1.50	1.50	2.08	2.03	1.38	1.50	1.71	1.70	1.41	1.50
MAX VEL	0.28	0.31	0.95	1.07	0.29	0.31	0.36	0.81	0.30	0.32
DEPTH	0.11	0.11	0.20	0.48	0.11	0.12	0.16	0.21	0.11	0.11
TIME	1.51	1.51	2.09	2.04	1.39	1.52	1.69	1.78	1.42	1.51
[illegible]NODE	3771	3772	3773	3774	3775	3776	3777	3778	3779	3780
[illegible]VATION	2625.81	2620.40	2620.13	2618.31	2615.15	2613.24	2610.74	2606.27	2598.67	2595.89
[illegible]DEPTH	0.11	0.24	0.13	0.11	0.15	0.11	0.20	0.39	0.51	0.89
[illegible]LOCITY	0.31	0.84	0.33	0.31	0.34	0.00	0.42	1.71	1.24	1.31
TIME	1.50	1.60	1.87	1.50	2.66	1.41	2.43	2.30	2.19	2.48
MAX VEL	0.31	0.85	0.33	0.31	0.34	0.27	0.85	1.73	3.39	1.45
DEPTH	0.11	0.24	0.13	0.11	0.15	0.10	0.20	0.39	0.47	0.86
TIME	1.34	1.65	1.88	1.51	2.67	1.42	2.24	2.31	1.99	2.30
NODE	3781	3782	3783	3784	3785	3786	3787	3788	3789	3790
ELEVATION	2595.61	2592.46	2587.96	2587.32	2582.31	2575.99	2578.05	2574.99	2571.51	2567.70
MAX DEPTH	0.61	0.21	0.20	0.10	0.20	0.58	0.10	0.11	0.11	0.12
VELOCITY	1.33	1.21	0.55	0.00	0.50	1.28	0.00	0.00	0.27	0.31
TIME	2.50	2.14	2.16	1.41	1.98	2.33	1.36	1.38	1.50	1.50
MAX VEL	1.33	1.22	1.11	0.39	1.02	1.29	0.36	0.28	0.27	0.31
DEPTH	0.61	0.21	0.20	0.10	0.20	0.58	0.10	0.10	0.11	0.12
TIME	2.50	2.14	2.33	1.42	1.99	2.32	1.50	1.41	1.51	1.51
NODE	3791	3792	3793	3794	3795	3796	3797	3798	3799	3800
ELEVATION	2563.54	2558.89	2555.22	2553.09	2549.02	2545.65	2542.93	2538.98	2535.41	2534.50
MAX DEPTH	0.14	0.21	0.22	0.12	0.21	0.20	0.20	0.25	0.41	0.21
VELOCITY	0.33	0.41	0.63	0.29	0.39	0.40	0.46	0.98	1.12	0.43
TIME	1.58	1.75	1.62	1.67	1.81	1.88	3.27	3.19	3.19	2.96
MAX VEL	0.33	0.83	0.78	0.29	0.74	0.40	0.46	0.98	1.12	0.87
DEPTH	0.13	0.20	0.21	0.12	0.21	0.19	0.20	0.25	0.41	0.20
TIME	1.61	1.59	1.66	1.67	1.87	3.06	3.27	3.19	3.19	2.58
NODE	3801	3802	3803	3804	3805	3806	3807	3808	3809	3810
ELEVATION	2530.41	2535.37	2550.10	2522.44	2517.32	2513.30	2510.20	2505.22	2504.10	2501.06
MAX DEPTH	0.41	0.10	0.10	0.10	0.25	0.23	0.20	0.22	0.13	0.13
VELOCITY	1.04	0.00	0.00	0.29	1.05	0.82	0.45	0.80	0.30	0.30
TIME	3.26	1.44	1.43	1.27	3.32	2.86	2.91	3.38	1.50	1.50
MAX VEL	1.05	0.41	0.60	0.29	1.05	0.82	0.90	0.80	0.30	0.31
DEPTH	0.41	0.10	0.09	0.10	0.25	0.22	0.20	0.22	0.13	0.13
TIME	3.26	3.25	5.62	1.45	3.33	2.87	2.98	3.41	1.52	1.51
NODE	3811	3812	3813	3814	3815	3816	3817	3818	3819	3820
ELEVATION	2497.68	2495.12	2491.88	2488.58	2485.13	2482.03	2477.33	2475.11	2470.24	2467.01
MAX DEPTH	0.15	0.12	0.14	0.12	0.13	0.12	0.15	0.11	0.24	0.21
VELOCITY	0.33	0.32	0.34	0.27	0.32	0.32	0.34	0.00	0.37	0.42
TIME	1.50	1.50	2.00	2.05	1.50	1.50	1.58	1.35	1.77	1.88
MAX VEL	0.33	0.32	0.34	0.27	0.32	0.32	0.34	0.29	0.74	0.85
DEPTH	0.15	0.12	0.14	0.12	0.13	0.12	0.15	0.11	0.23	0.20
TIME	1.51	1.52	2.01	2.05	1.52	1.52	1.60	1.36	1.80	1.89
NODE	3821	3822	3823	3824	3825	3826	3827	3828	3829	3830
ELEVATION	2463.16	2459.48	2455.24	2452.58	2449.09	2445.20	2440.26	2435.48	2432.34	2430.12
[illegible]X DEPTH	0.18	0.20	0.24	0.20	0.15	0.20	0.26	0.30	0.30	0.20
[illegible]OCITY	0.36	0.41	0.37	0.36	0.34	0.90	1.03	0.91	0.91	0.38
	2.57	2.11	2.07	2.22	2.73	2.34	2.64	2.68	3.02	3.02
[illegible]/EL	0.36	0.83	0.66	0.52	0.34	0.90	1.03	0.92	0.91	0.77
[illegible]H	0.18	0.20	0.21	0.20	0.15	0.20	0.25	0.30	0.30	0.20
TIME	2.57	2.26	2.19	2.23	2.74	2.35	2.65	2.98	3.01	3.02
NODE	3831	3832	3833	3834	3835	3836	3837	3838	3839	3840
ELEVATION	2426.91	2424.75	2420.36	2420.10	2410.20	2409.98	2405.17	2400.34	2400.11	2395.22
MAX DEPTH	0.17	0.12	0.36	0.10	0.20	0.11	0.17	0.34	0.11	0.22

VELOCITY	0.33	0.30	0.70	0.00	0.21	0.00	0.39	0.73	0.31	0.92
TIME	3.08	1.50	3.30	1.89	3.39	1.39	3.41	2.95	3.05	2.43
MAX VEL	0.33	0.30	0.70	0.41	0.21	0.29	0.40	0.73	0.31	0.93
DEPTH	0.17	0.12	0.36	0.10	0.20	0.10	0.17	0.34	0.11	0.22
TIME	3.09	1.52	3.22	1.90	3.36	1.41	3.41	2.96	3.06	2.44

NODE	3841	3842	3843	3844	3845	3846	3847	3848	3849	3850
ELEVATION	2390.62	2388.70	2385.02	2380.98	2376.84	2373.43	2370.02	2367.64	2363.98	2360.54
MAX DEPTH	0.28	0.20	0.21	0.18	0.20	0.21	0.23	0.13	0.24	0.54
VELOCITY	0.69	0.38	0.41	0.38	0.43	0.82	0.93	0.35	0.88	1.34
TIME	2.49	2.74	2.19	3.01	2.69	3.16	2.81	3.05	4.53	5.69
MAX VEL	0.69	0.77	0.83	0.38	0.87	0.82	0.93	0.35	0.88	3.83
DEPTH	0.27	0.19	0.20	0.18	0.20	0.20	0.23	0.13	0.24	0.51
TIME	2.52	3.10	2.72	2.98	2.69	3.12	2.82	3.05	4.53	5.69

NODE	3851	3852	3853	3854	3855	3856	3857	3858	3859	3860
ELEVATION	2357.37	2660.11	2659.38	2655.20	2654.32	2653.12	2650.17	2647.01	2647.22	2645.12
MAX DEPTH	1.47	0.11	0.11	0.20	0.18	0.11	0.14	0.23	0.11	0.12
VELOCITY	2.91	0.29	0.00	0.53	0.56	0.33	0.36	0.40	0.00	0.34
TIME	6.85	1.48	1.36	1.53	1.65	1.50	1.50	1.55	1.30	1.50
MAX VEL	3.10	0.29	0.28	1.06	0.57	0.33	0.36	0.82	0.30	0.34
DEPTH	1.40	0.11	0.10	0.20	0.18	0.11	0.14	0.21	0.10	0.12
TIME	4.61	1.49	1.39	1.71	1.66	1.51	1.52	1.63	1.51	1.52

NODE	3861	3862	3863	3864	3865	3866	3867	3868	3869	3870
ELEVATION	2643.08	2639.32	2635.29	2634.80	2632.56	2631.75	2628.44	2626.66	2625.11	2620.68
MAX DEPTH	0.10	0.12	0.29	0.21	0.16	0.11	0.20	0.15	0.11	0.15
VELOCITY	0.00	0.32	1.06	0.48	0.31	0.29	0.46	0.40	0.28	0.33
TIME	1.55	1.50	2.03	1.86	1.97	1.50	1.77	1.93	1.50	1.52
MAX VEL	0.28	0.32	1.07	0.99	0.31	0.29	0.93	0.40	0.28	0.33
DEPTH	0.10	0.11	0.28	0.21	0.16	0.11	0.20	0.15	0.11	0.15
TIME	1.56	1.53	2.04	1.87	1.98	1.53	1.78	1.94	1.51	1.53

NODE	3871	3872	3873	3874	3875	3876	3877	3878	3879	3880
ELEVATION	2618.77	2615.23	2614.50	2611.05	2609.35	2607.17	2606.78	2603.30	2600.10	2595.53
MAX DEPTH	0.14	0.23	0.11	0.17	0.13	0.11	0.10	0.14	0.10	0.11
VELOCITY	0.39	0.98	0.29	0.35	0.34	0.31	0.00	0.36	0.00	0.30
TIME	1.52	1.71	1.50	1.52	2.77	2.73	1.36	2.53	1.42	2.54
MAX VEL	0.39	0.98	0.29	0.35	0.34	0.31	0.32	0.36	0.28	0.30
DEPTH	0.14	0.23	0.11	0.17	0.13	0.11	0.10	0.14	0.10	0.10
TIME	1.52	1.72	1.52	1.53	2.77	2.73	1.38	2.51	17.32	1.41

NODE	3881	3882	3883	3884	3885	3886	3887	3888	3889	3890
ELEVATION	2590.37	2580.56	2578.73	2580.10	2576.70	2570.57	2571.46	2568.68	2565.56	2560.95
MAX DEPTH	0.30	0.56	0.55	0.10	0.11	0.27	0.10	0.11	0.11	0.14
VELOCITY	1.65	1.02	1.44	0.00	0.00	1.09	0.00	0.00	0.29	0.30
TIME	2.33	1.93	2.22	2.08	1.39	2.44	1.42	1.39	1.36	1.51
MAX VEL	1.65	2.65	4.08	0.35	0.37	1.09	0.37	0.26	0.28	0.30
DEPTH	0.30	0.50	0.48	0.10	0.10	0.27	0.10	0.10	0.11	0.14
TIME	2.33	2.84	2.20	1.43	1.41	2.49	1.43	1.42	1.46	1.52

NODE	3891	3892	3893	3894	3895	3896	3897	3898	3899	3900
ELEVATION	2557.47	2553.01	2550.21	2547.66	2543.52	2539.66	2535.26	2532.54	2530.30	2528.08
MAX DEPTH	0.13	0.22	0.21	0.11	0.18	0.20	0.26	0.34	0.30	0.21
VELOCITY	0.33	0.95	0.86	0.28	0.37	0.42	0.91	1.18	1.03	0.44
TIME	1.51	1.62	1.70	1.91	2.00	3.34	3.28	3.24	3.12	2.88
MAX VEL	0.33	0.95	0.84	0.28	0.37	0.42	0.91	1.18	1.04	0.90
DEPTH	0.13	0.22	0.20	0.11	0.18	0.20	0.26	0.34	0.30	0.21
TIME	1.57	1.63	1.79	1.92	2.01	3.34	3.29	3.25	3.34	2.96

NODE	3901	3902	3903	3904	3905	3906	3907	3908	3909	3910
ELEVATION	2525.25	2525.10	2518.50	2515.11	2510.28	2507.85	2503.49	2500.23	2498.23	2495.15
MAX DEPTH	0.25	0.10	0.10	0.11	0.28	0.20	0.21	0.23	0.12	0.15
VELOCITY	0.86	0.00	0.27	0.00	0.40	0.46	0.40	0.65	0.29	0.30
TIME	2.43	1.32	1.27	1.32	2.14	3.07	2.92	1.60	1.63	1.66
MAX VEL	0.98	0.35	0.28	0.29	0.92	0.94	0.81	0.79	0.29	0.30
DEPTH	0.23	0.10	0.10	0.10	0.28	0.20	0.20	0.22	0.12	0.15
TIME	3.38	1.39	1.41	1.39	3.40	2.92	3.37	3.44	1.71	1.66

NODE	3911	3912	3913	3914	3915	3916	3917	3918	3919	3920
ELEVATION	2491.84	2488.14	2485.18	2483.27	2478.63	2475.14	2471.38	2469.20	2465.15	2460.84
MAX DEPTH	0.16	0.17	0.18	0.11	0.13	0.14	0.15	0.11	0.15	0.23
VELOCITY	0.38	0.38	0.34	0.00	0.32	0.30	0.34	0.28	0.35	0.41
TIME	1.66	1.60	2.02	1.38	1.50	1.50	1.66	1.50	1.94	1.97
MAX VEL	0.38	0.38	0.34	0.32	0.33	0.30	0.34	0.28	0.35	0.41
DEPTH	0.16	0.17	0.18	0.11	0.13	0.14	0.15	0.11	0.15	0.23
TIME	1.67	1.60	2.03	1.39	1.51	1.51	1.66	1.52	1.91	1.98

NODE	3921	3922	3923	3924	3925	3926	3927	3928	3929	3930
ELEVATION	2458.23	2453.64	2450.16	2446.81	2442.90	2439.49	2435.20	2432.43	2427.59	2425.00
MAX DEPTH	0.13	0.17	0.16	0.15	0.15	0.13	0.20	0.11	0.26	0.27
VELOCITY	0.36	0.38	0.37	0.35	0.38	0.34	0.41	0.30	0.73	0.39
TIME	2.16	2.11	2.29	2.73	2.77	2.81	2.58	2.79	2.70	7.52
MAX VEL	0.36	0.38	0.37	0.35	0.38	0.34	0.82	0.30	0.74	0.83
DEPTH	0.13	0.17	0.16	0.15	0.15	0.13	0.20	0.11	0.26	0.25
TIME	2.18	2.12	2.50	2.74	2.78	2.81	2.59	2.80	2.71	3.92

NODE	3931	3932	3933	3934	3935	3936	3937	3938	3939	3940
ELEVATION	2421.86	2418.50	2420.10	2410.12	2407.94	2405.10	2400.46	2397.21	2395.11	2390.20
MAX DEPTH	0.20	0.23	0.10	0.12	0.12	0.10	0.13	0.20	0.11	0.20
VELOCITY	0.43	0.84	0.00	0.26	0.27	0.00	0.27	0.43	0.00	0.35
TIME	1.96	3.22	1.34	2.05	1.50	1.29	1.50	1.76	1.42	2.67
MAX VEL	0.87	0.84	0.40	0.27	0.27	0.28	0.28	0.87	0.29	0.68
DEPTH	0.19	0.23	0.09	0.12	0.12	0.10	0.13	0.20	0.10	0.20
TIME	1.97	3.10	1.98	2.05	1.51	1.35	1.51	1.68	1.43	2.90

NODE	3941	3942	3943	3944	3945	3946	3947	3948	3949	3950
ELEVATION	2387.38	2383.65	2379.05	2375.20	2370.23	2367.67	2363.71	2360.44	2358.71	2356.41
MAX DEPTH	0.23	0.21	0.23	0.20	0.23	0.21	0.25	0.28	0.34	1.41
VELOCITY	0.38	0.88	0.82	0.45	0.79	0.92	0.84	0.83	0.87	5.02
TIME	2.11	2.63	2.59	3.15	2.70	3.06	2.57	4.79	4.50	6.88
MAX VEL	0.79	0.88	0.82	0.91	0.79	0.92	0.84	0.83	0.87	5.40
DEPTH	0.21	0.21	0.22	0.20	0.23	0.21	0.25	0.28	0.33	1.32
TIME	2.56	2.63	2.60	3.16	2.70	3.06	2.57	4.75	4.37	4.61

NODE	3951	3952	3953	3954	3955	3956	3957	3958	3959	3960
ELEVATION	2655.26	2654.91	2652.81	2645.30	2647.21	2646.52	2643.05	2641.84	2639.73	2638.29
MAX DEPTH	0.11	0.11	0.11	0.30	0.11	0.11	0.22	0.14	0.13	0.12
VELOCITY	0.32	0.00	0.00	0.89	0.30	0.34	0.44	0.38	0.34	0.33
TIME	1.50	1.38	1.38	1.62	1.50	1.50	1.66	1.60	1.50	1.50
MAX VEL	0.32	0.32	0.36	0.90	0.30	0.34	0.89	0.38	0.34	0.33
DEPTH	0.11	0.11	0.11	0.29	0.11	0.11	0.21	0.14	0.13	0.12
TIME	1.51	1.39	1.39	1.72	1.52	1.52	1.69	1.66	1.53	1.51

NODE	3961	3962	3963	3964	3965	3966	3967	3968	3969	3970

ELEVATION	2636.39	2631.65	2629.00	2628.85	2627.02	2625.12	2620.97	2621.90	2619.20	2615.16
MAX DEPTH	0.11	0.22	0.36	0.12	0.12	0.12	0.27	0.10	0.11	0.16
VELOCITY	0.00	0.90	1.19	0.37	0.36	0.32	0.74	0.00	0.00	0.38
TIME	1.42	2.09	2.07	2.15	1.50	1.50	1.94	1.47	1.30	1.56
MAX VEL	0.29	0.91	1.19	0.37	0.36	0.32	0.75	0.28	0.27	0.38
DEPTH	0.11	0.22	0.36	0.12	0.12	0.12	0.26	0.10	0.10	0.16
TIME	1.43	2.10	2.12	2.16	2.01	1.52	1.87	1.47	1.35	1.57

NODE	3971	3972	3973	3974	3975	3976	3977	3978	3979	3980
ELEVATION	2610.33	2611.21	2608.11	2605.15	2602.26	2603.05	2600.80	2597.43	2594.51	2590.71
X DEPTH	0.33	0.11	0.13	0.15	0.19	0.11	0.11	0.11	0.10	0.10
LOCITY	1.03	0.00	0.33	0.36	0.37	0.00	0.00	0.00	0.00	0.00
IME	1.77	1.38	1.50	1.54	2.87	1.38	1.39	1.42	1.46	1.47
MAX VEL	1.04	0.32	0.33	0.36	0.38	0.27	0.26	0.30	0.27	0.35
DEPTH	0.33	0.10	0.13	0.15	0.19	0.10	0.10	0.10	0.10	0.10
TIME	1.81	1.39	1.51	1.55	2.87	1.39	1.41	1.43	1.47	1.48

NODE	3981	3982	3983	3984	3985	3986	3987	3988	3989	3990
ELEVATION	2586.91	2582.38	2573.29	2570.55	2565.63	2563.63	2565.11	2563.03	2560.13	2555.70
MAX DEPTH	0.11	0.10	0.62	0.55	0.63	0.55	0.11	0.11	0.11	0.12
VELOCITY	0.34	0.00	1.25	1.65	2.87	1.57	0.00	0.00	0.00	0.30
TIME	2.63	1.32	1.98	2.12	2.02	2.10	1.35	1.32	1.39	1.50
MAX VEL	0.34	0.40	3.47	4.62	3.12	4.49	0.38	0.28	0.28	0.30
DEPTH	0.11	0.10	0.54	0.45	0.58	0.53	0.10	0.10	0.10	0.12
TIME	2.59	1.45	2.38	2.16	2.32	2.11	1.42	1.34	1.41	1.51

NODE	3991	3992	3993	3994	3995	3996	3997	3998	3999	4000
ELEVATION	2551.42	2546.01	2546.34	2541.84	2537.66	2534.22	2530.03	2526.57	2524.57	2521.34
MAX DEPTH	0.14	0.34	0.11	0.11	0.13	0.13	0.27	0.44	0.28	0.22
VELOCITY	0.37	0.92	0.00	0.00	0.31	0.32	0.91	1.32	1.21	0.97
TIME	1.52	1.74	1.36	1.42	1.50	3.47	3.38	3.38	3.39	2.27
MAX VEL	0.37	0.93	0.30	0.30	0.31	0.32	0.91	1.32	1.21	0.98
DEPTH	0.14	0.33	0.10	0.11	0.13	0.13	0.27	0.44	0.28	0.22
TIME	1.57	1.76	1.46	1.43	1.51	3.48	3.40	3.41	3.40	2.25

NODE	4001	4002	4003	4004	4005	4006	4007	4008	4009	4010
ELEVATION	2517.70	2515.11	2511.96	2508.50	2504.44	2500.31	2497.83	2495.23	2492.73	2489.96
MAX DEPTH	0.20	0.11	0.11	0.11	0.21	0.22	0.21	0.23	0.13	0.11
VELOCITY	0.46	0.29	0.29	0.31	0.41	0.64	0.37	0.71	0.33	0.31
TIME	3.09	1.39	1.41	1.48	2.32	2.36	1.64	3.45	1.85	1.50
MAX VEL	0.93	0.29	0.29	0.31	0.87	0.80	0.79	0.71	0.33	0.31
DEPTH	0.20	0.11	0.10	0.11	0.20	0.21	0.21	0.23	0.13	0.11
TIME	3.10	1.41	1.42	1.49	3.66	2.76	6.33	3.51	1.86	1.51

NODE	4011	4012	4013	4014	4015	4016	4017	4018	4019	4020
ELEVATION	2485.16	2481.77	2479.62	2475.13	2471.95	2469.63	2465.56	2463.34	2459.47	2455.17
MAX DEPTH	0.16	0.20	0.11	0.13	0.17	0.13	0.16	0.10	0.13	0.17
VELOCITY	0.38	0.46	0.31	0.27	0.29	0.34	0.32	0.00	0.31	0.40
TIME	1.90	1.90	1.50	1.50	1.66	1.66	1.66	1.30	1.50	2.16
MAX VEL	0.38	0.92	0.31	0.27	0.29	0.34	0.32	0.29	0.31	0.40
DEPTH	0.16	0.20	0.11	0.13	0.17	0.13	0.16	0.10	0.13	0.17
TIME	1.91	1.91	1.51	1.52	1.63	1.67	1.79	1.65	1.52	2.18

NODE	4021	4022	4023	4024	4025	4026	4027	4028	4029	4030
ELEVATION	2450.23	2447.41	2443.55	2440.20	2435.21	2431.86	2429.27	2425.48	2423.96	2419.83
MAX DEPTH	0.23	0.17	0.19	0.20	0.21	0.26	0.20	0.20	0.11	0.20
VELOCITY	0.38	0.39	0.36	0.45	0.75	0.71	0.43	0.39	0.00	0.43
TIME	2.14	2.50	2.50	2.52	2.71	2.68	2.47	3.11	1.38	2.46
X VEL	0.76	0.39	0.36	0.90	0.76	0.71	0.87	0.78	0.33	0.86
PTH	0.22	0.17	0.19	0.20	0.21	0.26	0.20	0.20	0.10	0.20
IE	2.16	2.50	2.53	2.71	2.72	2.68	2.48	2.54	1.39	4.28

NODE	4031	4032	4033	4034	4035	4036	4037	4038	4039	4040
ELEVATION	2415.27	2412.95	2409.63	2405.24	2402.58	2399.90	2395.83	2390.55	2388.55	2385.16
MAX DEPTH	0.27	0.24	0.12	0.24	0.15	0.11	0.14	0.21	0.13	0.16
VELOCITY	0.62	0.38	0.29	0.32	0.28	0.28	0.36	0.79	0.30	0.29
TIME	1.58	8.06	2.05	3.77	1.50	1.50	1.59	1.77	3.00	3.01
MAX VEL	0.81	0.78	0.30	0.65	0.28	0.28	0.36	0.80	0.30	0.29
DEPTH	0.26	0.20	0.12	0.23	0.14	0.11	0.14	0.20	0.13	0.16
TIME	3.15	2.07	2.05	2.32	2.45	1.51	1.59	1.78	3.01	3.01

NODE	4041	4042	4043	4044	4045	4046	4047	4048	4049	4050
ELEVATION	2382.37	2377.58	2374.40	2369.30	2365.21	2360.59	2360.20	2356.43	2357.11	2351.83
MAX DEPTH	0.13	0.17	0.14	0.20	0.20	0.36	0.20	0.27	0.10	0.93
VELOCITY	0.34	0.33	0.35	0.42	0.43	1.03	0.43	1.00	0.00	4.87
TIME	3.01	3.11	3.00	3.17	2.81	3.01	3.71	4.58	1.35	4.57
MAX VEL	0.34	0.33	0.35	0.84	0.88	1.03	0.43	1.00	0.34	4.95
DEPTH	0.13	0.17	0.14	0.20	0.20	0.36	0.20	0.27	0.10	0.93
TIME	3.01	3.09	3.00	3.17	2.81	3.02	3.72	4.58	1.45	4.57

NODE	4051	4052	4053	4054	4055	4056	4057	4058	4059	4060
ELEVATION	2649.81	2649.04	2647.82	2642.03	2643.57	2640.17	2640.11	2636.18	2634.74	2633.12
MAX DEPTH	0.12	0.12	0.11	0.26	0.11	0.17	0.11	0.20	0.16	0.14
VELOCITY	0.33	0.33	0.00	1.03	0.00	0.34	0.00	0.40	0.36	0.32
TIME	1.50	1.50	1.31	1.77	1.38	1.67	1.30	1.71	1.60	1.51
MAX VEL	0.33	0.33	0.33	1.03	0.38	0.34	0.31	0.41	0.36	0.32
DEPTH	0.12	0.12	0.11	0.26	0.11	0.17	0.11	0.20	0.16	0.14
TIME	1.51	1.51	1.43	1.77	1.39	1.68	1.60	1.72	1.61	1.53

NODE	4061	4062	4063	4064	4065	4066	4067	4068	4069	4070
ELEVATION	2631.76	2629.17	2625.25	2622.21	2620.80	2621.63	2618.15	2618.09	2615.27	2613.27
MAX DEPTH	0.11	0.11	0.25	0.28	0.20	0.11	0.20	0.11	0.11	0.11
VELOCITY	0.00	0.00	1.05	1.01	0.38	0.00	0.55	0.00	0.28	0.00
TIME	1.30	1.59	2.19	2.20	2.05	1.38	1.88	1.39	1.49	1.34
MAX VEL	0.31	0.30	1.05	1.01	0.77	0.37	1.12	0.31	0.28	0.28
DEPTH	0.11	0.10	0.25	0.28	0.20	0.10	0.20	0.10	0.11	0.11
TIME	1.51	1.60	2.20	2.20	2.06	1.39	1.75	1.41	1.50	1.35

NODE	4071	4072	4073	4074	4075	4076	4077	4078	4079	4080
ELEVATION	2610.12	2605.32	2605.11	2601.05	2598.47	2599.08	2596.82	2595.10	2590.14	2588.59
MAX DEPTH	0.12	0.32	0.11	0.16	0.23	0.11	0.11	0.10	0.14	0.11
VELOCITY	0.30	0.96	0.00	0.35	0.35	0.00	0.00	0.00	0.34	0.00
TIME	1.83	1.86	1.42	1.59	1.49	1.32	1.34	1.47	1.51	1.41
MAX VEL	0.31	0.96	0.29	0.35	0.74	0.30	0.25	0.29	0.34	0.28
DEPTH	0.12	0.31	0.10	0.16	0.22	0.10	0.11	0.10	0.14	0.10
ME	1.88	1.91	1.43	1.60	1.59	1.39	1.36	1.48	1.52	1.42

NODE	4081	4082	4083	4084	4085	4086	4087	4088	4089	4090
VATION	2585.24	2581.54	2578.01	2575.10	2570.10	2565.06	2557.35	2559.01	2557.03	2553.72
X DEPTH	0.11	0.11	0.11	0.10	0.10	0.17	0.92	0.11	0.11	0.11
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.50	2.92	0.31	0.00	0.00
TIME	1.32	1.34	1.42	1.41	1.38	2.44	2.44	1.44	1.39	1.41
MAX VEL	0.26	0.32	0.31	0.34	0.29	0.50	2.96	0.31	0.31	0.29
DEPTH	0.10	0.10	0.10	0.09	0.10	0.17	0.88	0.11	0.10	0.11
TIME	1.38	1.35	1.43	1.42	2.10	2.44	2.45	1.45	1.45	1.42

NODE	4091	4092	4093	4094	4095	4096	4097	4098	4099	4100
ELEVATION	2550.34	2545.37	2541.63	2538.96	2534.67	2531.37	2527.76	2524.62	2520.35	2516.25
MAX DEPTH	0.11	0.20	0.27	0.12	0.14	0.13	0.18	0.24	0.35	0.40
VELOCITY	0.00	0.38	0.95	0.30	0.32	0.33	0.39	0.96	1.28	1.28
TIME	1.36	1.88	1.76	1.88	1.50	1.50	3.54	3.15	3.45	3.42
MAX VEL	0.30	0.39	0.97	0.30	0.32	0.34	0.39	0.96	1.29	1.28
DEPTH	0.11	0.20	0.25	0.12	0.14	0.13	0.18	0.23	0.35	0.40
TIME	1.39	1.88	1.67	1.88	1.52	1.52	3.54	3.16	3.41	3.43

NODE	4101	4102	4103	4104	4105	4106	4107	4108	4109	4110
ELEVATION	2514.92	2510.24	2509.77	2505.12	2501.18	2497.88	2495.01	2492.60	2490.04	2485.55
MAX DEPTH	0.21	0.24	0.11	0.12	0.14	0.20	0.21	0.25	0.14	0.16
VELOCITY	0.46	0.74	0.00	0.30	0.32	0.41	0.78	0.74	0.35	0.30
TIME	3.16	2.59	1.42	1.50	1.50	2.89	3.02	2.77	2.81	2.00
MAX VEL	0.93	0.80	0.30	0.30	0.32	0.83	0.79	0.86	0.35	0.30
DEPTH	0.20	0.23	0.10	0.11	0.14	0.20	0.21	0.22	0.14	0.15
TIME	3.17	3.43	1.43	1.51	1.52	3.01	3.55	3.50	2.81	1.52

NODE	4111	4112	4113	4114	4115	4116	4117	4118	4119	4120
ELEVATION	2482.36	2478.50	2474.30	2472.40	2470.11	2466.91	2462.43	2460.13	2456.28	2454.29
MAX DEPTH	0.15	0.20	0.24	0.14	0.11	0.11	0.18	0.13	0.14	0.11
VELOCITY	0.34	0.41	0.84	0.36	0.29	0.29	0.40	0.31	0.31	0.00
TIME	1.59	1.73	1.91	1.58	1.50	1.50	1.83	1.50	1.50	1.41
MAX VEL	0.34	0.83	0.85	0.36	0.29	0.29	0.40	0.31	0.31	0.32
DEPTH	0.14	0.20	0.23	0.14	0.11	0.11	0.18	0.13	0.14	0.11
TIME	1.91	1.74	1.94	1.58	1.51	1.51	1.84	1.53	1.52	1.42

NODE	4121	4122	4123	4124	4125	4126	4127	4128	4129	4130
ELEVATION	2448.95	2445.20	2441.09	2438.97	2435.11	2431.01	2428.14	2422.78	2420.21	2415.30
MAX DEPTH	0.13	0.20	0.20	0.14	0.11	0.20	0.14	0.24	0.21	0.30
VELOCITY	0.30	0.41	0.82	0.30	0.28	0.43	0.37	0.74	0.44	0.98
TIME	1.50	2.22	2.23	2.58	3.00	2.81	2.76	2.84	1.91	2.90
MAX VEL	0.30	0.40	0.82	0.31	0.28	0.45	0.37	0.74	0.91	0.99
DEPTH	0.13	0.20	0.20	0.14	0.11	0.20	0.14	0.24	0.20	0.30
TIME	1.52	2.24	2.23	2.52	3.00	2.82	2.76	2.92	1.91	2.90

NODE	4131	4132	4133	4134	4135	4136	4137	4138	4139	4140
ELEVATION	2415.07	2410.55	2407.77	2405.11	2401.61	2398.09	2394.60	2390.16	2385.23	2382.79
MAX DEPTH	0.11	0.21	0.20	0.11	0.20	0.15	0.13	0.16	0.23	0.20
VELOCITY	0.29	0.80	0.40	0.00	0.42	0.28	0.31	0.39	0.80	0.39
TIME	2.98	1.76	2.76	1.38	2.37	3.06	1.50	1.67	1.80	1.90
MAX VEL	0.29	0.80	0.81	0.25	0.85	0.28	0.31	0.39	0.80	0.39
DEPTH	0.11	0.21	0.20	0.10	0.20	0.15	0.13	0.16	0.23	0.19
TIME	3.03	1.77	2.76	1.39	2.38	3.06	1.52	1.68	1.81	1.91

NODE	4141	4142	4143	4144	4145	4146	4147	4148	4149	4150
ELEVATION	2380.11	2375.20	2372.52	2368.29	2363.13	2360.13	2356.24	2353.43	2350.51	2348.44
MAX DEPTH	0.11	0.20	0.15	0.20	0.22	0.29	0.38	0.25	0.51	1.02
VELOCITY	0.30	0.38	0.35	0.46	0.73	0.99	1.25	0.89	1.12	5.17
TIME	1.50	1.57	3.00	2.90	3.06	2.45	3.11	3.83	4.61	4.59
MAX VEL	0.30	0.76	0.35	0.91	0.73	1.00	1.25	0.89	2.59	5.33
DEPTH	0.11	0.20	0.15	0.20	0.22	0.28	0.38	0.25	0.48	1.01
TIME	1.53	1.62	3.01	3.21	3.06	2.45	3.11	3.84	5.16	4.65

NODE	4151	4152	4153	4154	4155	4156	4157	4158	4159	4160
ELEVATION	2644.24	2644.51	2641.56	2640.77	2635.47	2637.03	2634.43	2632.88	2630.18	2629.07
MAX DEPTH	0.14	0.11	0.15	0.11	0.28	0.11	0.14	0.13	0.21	0.13
VELOCITY	0.37	0.00	0.29	0.32	0.89	0.00	0.33	0.36	0.44	0.34
TIME	1.50	1.41	1.51	1.50	1.67	1.39	1.53	1.77	1.82	1.50
MAX VEL	0.37	0.29	0.29	0.32	0.90	0.34	0.33	0.36	0.44	0.34
DEPTH	0.14	0.11	0.15	0.11	0.28	0.11	0.14	0.13	0.21	0.13
TIME	1.51	1.43	1.52	1.51	1.78	1.41	1.54	1.77	1.85	1.52

NODE	4161	4162	4163	4164	4165	4166	4167	4168	4169	4170
ELEVATION	2626.87	2623.87	2622.51	2618.02	2617.24	2617.30	2610.56	2613.78	2611.27	2609.07
MAX DEPTH	0.12	0.14	0.11	0.28	0.28	0.11	0.44	0.11	0.13	0.13
VELOCITY	0.33	0.34	0.00	1.10	1.22	0.00	0.54	0.00	0.31	0.31
TIME	1.50	1.50	1.38	2.24	2.24	1.49	2.15	1.38	1.50	1.50
MAX VEL	0.33	0.34	0.31	1.10	1.22	0.34	0.55	0.27	0.31	0.31
DEPTH	0.12	0.14	0.11	0.28	0.28	0.10	0.44	0.10	0.13	0.13
TIME	1.52	1.51	1.39	2.25	2.25	1.50	2.16	1.39	1.51	1.51

NODE	4171	4172	4173	4174	4175	4176	4177	4178	4179	4180
ELEVATION	2606.67	2604.17	2600.27	2599.36	2595.38	2593.76	2593.18	2591.63	2588.26	2583.89
MAX DEPTH	0.11	0.15	0.27	0.11	0.22	0.17	0.11	0.11	0.11	0.17
VELOCITY	0.28	0.34	0.82	0.00	0.39	0.35	0.31	0.00	0.28	0.38
TIME	1.50	1.98	1.57	1.29	1.59	1.65	1.50	1.38	1.32	1.50
MAX VEL	0.28	0.34	0.87	0.28	0.81	0.35	0.31	0.32	0.28	0.38
DEPTH	0.10	0.15	0.26	0.10	0.21	0.17	0.11	0.10	0.11	0.17
TIME	1.34	1.98	1.67	1.59	1.65	1.57	1.47	1.39	1.51	1.51

NODE	4181	4182	4183	4184	4185	4186	4187	4188	4189	4190
ELEVATION	2582.01	2579.43	2575.13	2572.22	2569.47	2565.11	2560.26	2555.46	2551.36	2550.27
MAX DEPTH	0.11	0.11	0.13	0.11	0.11	0.11	0.11	0.52	0.31	0.12
VELOCITY	0.29	0.00	0.28	0.26	0.00	0.00	0.00	1.70	1.00	0.28
TIME	1.50	1.39	1.50	1.50	1.39	1.42	1.39	2.81	2.49	2.75
MAX VEL	0.29	0.27	0.28	0.26	0.28	0.32	0.30	4.69	1.00	0.28
DEPTH	0.11	0.11	0.13	0.11	0.10	0.10	0.11	0.47	0.31	0.12
TIME	1.51	1.41	1.51	1.51	1.41	1.35	1.41	2.19	2.46	2.65

NODE	4191	4192	4193	4194	4195	4196	4197	4198	4199	4200
ELEVATION	2546.91	2543.40	2539.69	2535.24	2532.21	2528.40	2524.42	2521.69	2517.67	2513.46
MAX DEPTH	0.12	0.12	0.18	0.24	0.12	0.13	0.20	0.20	0.22	0.40
VELOCITY	0.30	0.32	0.43	0.70	0.33	0.33	0.38	0.40	0.94	1.18
TIME	1.48	1.50	2.04	1.66	1.91	1.50	2.98	3.31	3.45	3.48
MAX VEL	0.30	0.32	0.43	0.88	0.33	0.33	0.38	0.81	0.95	1.18
DEPTH	0.12	0.12	0.18	0.22	0.12	0.13	0.20	0.20	0.22	0.40
TIME	1.51	1.51	2.05	1.91	1.92	1.52	2.99	3.31	3.45	3.50

NODE	4201	4202	4203	4204	4205	4206	4207	4208	4209	4210
ELEVATION	2510.39	2507.56	2505.20	2502.24	2498.42	2495.15	2491.92	2489.76	2486.56	2483.15
MAX DEPTH	0.39	0.27	0.20	0.11	0.12	0.15	0.22	0.22	0.20	0.16
VELOCITY	1.18	1.10	0.44	0.00	0.30	0.29	0.91	0.89	0.39	0.40
TIME	3.50	3.49	3.13	1.39	1.50	1.58	3.51	2.80	2.92	3.90
MAX VEL	1.18	1.11	0.90	0.30	0.30	0.29	0.91	0.89	0.85	0.40
DEPTH	0.39	0.27	0.20	0.11	0.12	0.15	0.22	0.22	0.20	0.16
TIME	3.50	2.52	2.88	1.41	1.51	1.57	3.52	2.83	3.52	3.89

NODE	4211	4212	4213	4214	4215	4216	4217	4218	4219	4220
ELEVATION	2480.11	2475.81	2473.12	2468.60	2465.21	2464.65	2460.40	2456.00	2455.11	2450.12
MAX DEPTH	0.11	0.14	0.14	0.20	0.21	0.11	0.11	0.22	0.11	0.12
VELOCITY	0.30	0.30	0.37	0.44	0.38	0.00	0.29	0.40	0.00	0.36
TIME	1.50	1.91	1.92	1.57	1.60	1.36	1.49	1.55	1.41	1.50
MAX VEL	0.30	0.30	0.37	0.90	0.77	0.32	0.29	0.83	0.30	0.36

DEPTH	0.11	0.14	0.14	0.20	0.20	0.10	0.11	0.21	0.11	0.12
TIME	1.52	1.61	1.93	1.94	1.60	1.38	1.50	1.59	1.50	1.51
NODE	4221	4222	4223	4224	4225	4226	4227	4228	4229	4230
ELEVATION	2445.85	2442.96	2440.11	2435.25	2434.00	2428.90	2425.17	2421.98	2418.60	2415.20
MAX DEPTH	0.14	0.11	0.11	0.25	0.11	0.15	0.17	0.15	0.20	0.20
VELOCITY	0.34	0.29	0.30	0.38	0.00	0.31	0.32	0.35	0.37	0.44
TIME	1.50	1.50	1.50	3.32	1.41	2.85	2.91	2.95	2.84	2.92
MAX VEL	0.34	0.29	0.30	0.78	0.30	0.31	0.32	0.35	0.74	0.89
DEPTH	0.14	0.11	0.11	0.22	0.10	0.14	0.17	0.15	0.20	0.20
TIME	1.52	1.51	1.51	2.30	1.42	2.86	2.94	2.96	2.80	2.92
NODE	4231	4232	4233	4234	4235	4236	4237	4238	4239	4240
ELEVATION	2410.37	2409.16	2405.25	2402.16	2400.13	2395.26	2393.19	2390.11	2385.13	2380.22
MAX DEPTH	0.37	0.20	0.25	0.27	0.18	0.21	0.12	0.11	0.13	0.22
VELOCITY	0.92	0.40	0.81	0.62	0.40	0.76	0.29	0.00	0.33	0.69
TIME	2.85	2.99	3.53	2.55	3.36	2.41	1.50	1.42	1.50	1.49
MAX VEL	0.93	0.80	0.82	0.62	0.40	0.77	0.29	0.29	0.33	0.71
DEPTH	0.37	0.20	0.24	0.27	0.18	0.20	0.12	0.10	0.13	0.21
TIME	2.86	2.99	2.93	2.55	3.37	2.41	1.52	1.43	1.51	1.54
NODE	4241	4242	4243	4244	4245	4246	4247	4248	4249	4250
ELEVATION	2377.27	2375.19	2370.23	2368.05	2364.19	2360.11	2356.28	2350.47	2348.33	2349.01
MAX DEPTH	0.21	0.19	0.23	0.11	0.11	0.11	0.16	0.47	0.79	0.14
VELOCITY	0.50	0.43	0.81	0.29	0.00	0.27	0.42	1.05	3.08	0.37
TIME	1.57	1.97	1.98	2.00	1.36	1.50	3.13	3.79	4.60	4.74
MAX VEL	0.50	0.43	0.81	0.29	0.27	0.27	0.42	1.05	3.09	0.37
DEPTH	0.21	0.19	0.23	0.11	0.11	0.11	0.16	0.47	0.79	0.14
TIME	1.58	2.01	2.04	2.01	1.38	1.51	3.14	3.63	4.61	4.85
NODE	4251	4252	4253	4254	4255	4256	4257	4258	4259	4260
ELEVATION	2344.12	2638.92	2639.53	2638.09	2636.28	2633.00	2630.46	2630.14	2630.06	2625.19
MAX DEPTH	1.07	0.16	0.11	0.12	0.11	0.20	0.24	0.14	0.10	0.19
VELOCITY	5.23	0.34	0.00	0.31	0.00	0.46	1.03	0.33	0.00	0.43
TIME	4.65	1.59	1.42	1.50	1.31	1.88	1.83	1.53	1.41	1.92
MAX VEL	5.31	0.34	0.32	0.31	0.29	0.47	1.04	0.34	0.34	0.43
DEPTH	1.07	0.15	0.11	0.12	0.10	0.20	0.24	0.14	0.10	0.19
TIME	4.67	1.56	1.43	1.51	1.84	1.88	1.83	1.73	1.42	1.93
NODE	4261	4262	4263	4264	4265	4266	4267	4268	4269	4270
ELEVATION	2623.69	2621.84	2620.13	2617.21	2616.16	2611.30	2611.22	2609.56	2610.10	2607.87
MAX DEPTH	0.16	0.14	0.13	0.18	0.20	0.62	0.11	0.20	0.11	0.12
VELOCITY	0.38	0.36	0.33	0.32	0.44	1.14	0.28	0.42	0.00	0.29
TIME	1.89	1.55	1.50	1.97	2.18	2.30	2.34	1.92	1.31	1.50
MAX VEL	0.38	0.36	0.33	0.33	0.89	1.14	0.28	0.84	0.28	0.29
DEPTH	0.16	0.14	0.13	0.17	0.20	0.62	0.11	0.20	0.10	0.12
TIME	1.90	1.56	1.53	2.30	2.19	2.31	2.35	1.93	1.47	1.51
NODE	4271	4272	4273	4274	4275	4276	4277	4278	4279	4280
ELEVATION	2605.14	2602.70	2600.14	2598.35	2595.23	2592.93	2589.96	2587.96	2585.98	2585.11
MAX DEPTH	0.14	0.14	0.14	0.18	0.23	0.15	0.22	0.14	0.13	0.11
VELOCITY	0.32	0.31	0.30	0.41	0.79	0.37	0.42	0.33	0.32	0.00
TIME	1.50	1.50	1.61	2.02	1.68	1.85	1.66	1.51	1.50	1.32
MAX VEL	0.32	0.31	0.31	0.41	0.80	0.37	0.85	0.33	0.32	0.30
DEPTH	0.14	0.14	0.13	0.18	0.23	0.15	0.21	0.13	0.13	0.10
TIME	1.52	1.52	1.62	2.03	1.77	1.93	1.67	1.54	1.52	1.34
NODE	4281	4282	4283	4284	4285	4286	4287	4288	4289	4290
EVATION	2581.89	2577.46	2575.29	2573.74	2569.94	2566.88	2563.13	2559.58	2554.30	2547.95
DEPTH	0.11	0.17	0.13	0.11	0.12	0.11	0.11	0.11	0.20	0.58
OCITY	0.30	0.40	0.32	0.00	0.28	0.27	0.29	0.00	0.51	1.66
ME	1.48	1.55	1.50	1.32	1.50	1.43	1.50	1.31	2.27	2.22
MAX VEL	0.30	0.40	0.32	0.31	0.28	0.27	0.29	0.30	1.02	4.73
DEPTH	0.11	0.17	0.13	0.10	0.12	0.11	0.11	0.10	0.20	0.50
TIME	1.49	1.56	1.51	1.34	1.51	1.51	1.51	1.36	2.33	2.14
NODE	4291	4292	4293	4294	4295	4296	4297	4298	4299	4300
ELEVATION	2547.41	2544.09	2540.11	2536.03	2532.28	2528.82	2525.03	2521.71	2518.69	2515.38
MAX DEPTH	0.20	0.11	0.11	0.14	0.20	0.20	0.15	0.15	0.16	0.16
VELOCITY	0.58	0.00	0.27	0.33	0.45	0.45	0.34	0.34	0.32	0.37
TIME	2.14	1.42	1.50	1.50	1.96	1.74	1.93	1.91	3.00	3.47
MAX VEL	1.18	0.39	0.27	0.33	0.90	0.91	0.34	0.34	0.32	0.37
DEPTH	0.20	0.11	0.11	0.14	0.20	0.20	0.15	0.15	0.16	0.16
TIME	2.11	1.35	1.51	1.53	1.97	1.93	1.94	1.90	3.00	3.47
NODE	4301	4302	4303	4304	4305	4306	4307	4308	4309	4310
ELEVATION	2510.76	2507.83	2504.64	2500.36	2498.22	2495.17	2492.27	2490.11	2485.69	2483.27
MAX DEPTH	0.27	0.33	0.32	0.36	0.21	0.12	0.12	0.11	0.25	0.23
VELOCITY	0.92	1.19	1.20	1.17	0.43	0.30	0.32	0.29	0.85	0.76
TIME	3.21	3.22	3.50	3.50	2.93	1.50	1.50	1.50	3.51	2.55
MAX VEL	0.92	1.19	1.20	1.18	0.87	0.30	0.32	0.29	0.85	0.91
DEPTH	0.27	0.33	0.32	0.36	0.20	0.12	0.12	0.11	0.24	0.23
TIME	3.22	3.22	3.51	3.51	3.04	1.51	1.52	1.51	3.52	3.13
NODE	4311	4312	4313	4314	4315	4316	4317	4318	4319	4320
ELEVATION	2480.20	2475.54	2473.62	2470.12	2465.42	2461.63	2460.20	2456.16	2455.11	2450.23
MAX DEPTH	0.20	0.23	0.12	0.12	0.20	0.26	0.20	0.17	0.11	0.23
VELOCITY	0.43	0.39	0.31	0.31	0.39	0.82	0.43	0.35	0.00	0.35
TIME	3.38	2.63	1.50	1.50	1.71	1.61	1.95	1.92	1.36	1.79
MAX VEL	0.87	0.80	0.31	0.31	0.79	0.84	0.88	0.35	0.30	0.64
DEPTH	0.20	0.22	0.12	0.12	0.20	0.26	0.19	0.17	0.11	0.22
TIME	3.38	3.58	1.53	1.54	1.88	1.68	1.95	1.93	1.38	1.86
NODE	4321	4322	4323	4324	4325	4326	4327	4328	4329	4330
ELEVATION	2447.89	2441.06	2440.15	2436.51	2433.64	2430.20	2427.44	2423.47	2420.14	2415.43
MAX DEPTH	0.11	0.26	0.15	0.14	0.17	0.20	0.11	0.13	0.14	0.20
VELOCITY	0.34	0.68	0.31	0.33	0.39	0.37	0.00	0.28	0.34	0.38
TIME	1.50	1.50	1.55	1.60	1.99	2.36	1.30	1.50	3.01	2.24
MAX VEL	0.34	0.72	0.31	0.33	0.39	0.38	0.28	0.28	0.34	0.78
DEPTH	0.11	0.23	0.15	0.14	0.17	0.20	0.10	0.13	0.14	0.20
TIME	1.51	1.64	1.58	1.61	2.00	2.45	1.84	1.53	3.02	3.38
NODE	4331	4332	4333	4334	4335	4336	4337	4338	4339	4340
ELEVATION	2414.38	2410.16	2406.24	2404.59	2400.23	2397.85	2395.11	2390.27	2387.65	2384.85
MAX DEPTH	0.11	0.16	0.28	0.16	0.23	0.13	0.11	0.27	0.22	0.11
ELOCITY	0.00	0.34	0.93	0.41	0.89	0.31	0.00	0.66	0.41	0.00
E	1.42	2.98	2.45	3.02	2.02	2.62	1.41	2.41	2.83	1.30
VEL	0.27	0.34	0.93	0.41	0.89	0.31	0.29	0.68	0.82	0.28
H	0.11	0.16	0.28	0.16	0.23	0.13	0.10	0.23	0.21	0.10
E	1.43	2.99	2.45	3.02	2.03	2.62	1.42	2.64	2.90	1.55
NODE	4341	4342	4343	4344	4345	4346	4347	4348	4349	4350
ELEVATION	2380.13	2376.56	2375.11	2370.13	2365.22	2361.82	2358.91	2354.91	2350.20	2348.91
MAX DEPTH	0.13	0.27	0.11	0.13	0.22	0.17	0.13	0.20	0.20	0.20
VELOCITY	0.29	0.66	0.00	0.33	0.76	0.36	0.30	0.43	0.38	0.47

TIME	1.50	1.60	1.34	1.99	2.05	2.20	1.99	2.72	3.07	4.07
MAX VEL	0.29	0.72	0.29	0.33	0.76	0.36	0.30	0.43	0.76	0.47
DEPTH	0.13	0.26	0.10	0.13	0.22	0.17	0.13	0.20	0.20	0.20
TIME	1.52	3.11	1.35	2.00	2.05	2.21	2.00	2.72	3.17	4.04
NODE	4351	4352	4353	4354	4355	4356	4357	4358	4359	4360
ELEVATION	2345.42	2341.26	2634.03	2633.65	2633.36	2631.25	2630.11	2625.31	2625.45	2624.44
MAX DEPTH	0.42	1.26	0.12	0.13	0.11	0.13	0.11	0.31	0.14	0.11
VELOCITY	1.37	2.05	0.37	0.38	0.31	0.36	0.29	1.18	0.43	0.00
TIME	4.66	4.69	1.50	1.50	1.34	1.50	1.50	1.88	1.92	1.42
X VEL	1.37	3.59	0.37	0.38	0.32	0.36	0.29	1.18	0.43	0.34
PTH	0.42	0.50	0.12	0.13	0.11	0.13	0.11	0.30	0.14	0.11
IME	4.66	1.99	1.51	1.51	1.35	1.51	1.51	1.89	1.93	1.43
NODE	4361	4362	4363	4364	4365	4366	4367	4368	4369	4370
ELEVATION	2620.20	2620.12	2616.88	2615.18	2614.01	2611.66	2610.21	2607.32	2605.23	2605.38
MAX DEPTH	0.20	0.12	0.18	0.18	0.12	0.13	0.21	0.26	0.23	0.11
VELOCITY	0.45	0.27	0.41	0.42	0.35	0.36	0.42	1.04	0.94	0.27
TIME	1.77	1.91	1.74	1.90	1.50	2.46	2.27	2.30	1.84	1.50
MAX VEL	0.90	0.27	0.41	0.42	0.35	0.36	0.86	1.04	0.95	0.27
DEPTH	0.20	0.11	0.18	0.18	0.12	0.13	0.20	0.26	0.23	0.11
TIME	1.77	1.51	1.83	1.88	1.51	2.47	2.28	2.31	1.85	1.51
NODE	4371	4372	4373	4374	4375	4376	4377	4378	4379	4380
ELEVATION	2604.61	2601.84	2599.45	2597.13	2594.63	2591.80	2589.95	2585.61	2583.56	2581.43
MAX DEPTH	0.11	0.13	0.14	0.14	0.15	0.23	0.13	0.21	0.19	0.15
VELOCITY	0.00	0.33	0.34	0.33	0.36	0.91	0.33	0.38	0.38	0.35
TIME	1.30	1.50	1.50	1.65	1.92	2.07	2.00	1.71	1.70	1.54
MAX VEL	0.27	0.33	0.34	0.32	0.36	0.93	0.33	0.77	0.38	0.35
DEPTH	0.10	0.13	0.14	0.14	0.15	0.22	0.13	0.20	0.19	0.15
TIME	1.51	1.51	1.52	1.67	1.94	1.78	2.01	1.86	1.73	1.55
NODE	4381	4382	4383	4384	4385	4386	4387	4388	4389	4390
ELEVATION	2580.03	2577.71	2575.03	2570.62	2569.87	2565.87	2564.35	2560.81	2556.54	2553.74
MAX DEPTH	0.12	0.11	0.11	0.21	0.11	0.13	0.11	0.10	0.14	0.11
VELOCITY	0.32	0.29	0.30	0.36	0.00	0.31	0.00	0.27	0.30	0.00
TIME	1.50	1.31	1.50	1.61	1.39	1.50	1.39	1.50	1.50	1.32
MAX VEL	0.32	0.30	0.30	0.36	0.32	0.31	0.28	0.27	0.30	0.28
DEPTH	0.12	0.10	0.11	0.21	0.11	0.13	0.10	0.10	0.14	0.10
TIME	1.51	1.49	1.51	1.62	1.41	1.52	1.41	1.51	1.51	1.36
NODE	4391	4392	4393	4394	4395	4396	4397	4398	4399	4400
ELEVATION	2548.99	2540.58	2535.61	2537.86	2533.98	2529.85	2525.21	2521.61	2518.82	2515.57
MAX DEPTH	0.11	0.58	0.61	0.11	0.11	0.16	0.21	0.23	0.20	0.15
VELOCITY	0.00	1.62	3.96	0.00	0.00	0.37	0.77	0.92	0.44	0.34
TIME	1.31	2.14	2.16	1.31	1.30	1.51	1.97	1.82	2.08	2.08
MAX VEL	0.39	4.59	3.98	0.36	0.26	0.37	0.79	0.93	0.89	0.34
DEPTH	0.10	0.50	0.55	0.10	0.10	0.16	0.21	0.22	0.20	0.15
TIME	1.34	2.20	2.13	1.41	1.57	1.56	1.98	1.83	1.93	2.18
NODE	4401	4402	4403	4404	4405	4406	4407	4408	4409	4410
ELEVATION	2512.52	2509.32	2505.24	2501.32	2497.89	2494.52	2491.67	2489.12	2485.27	2483.36
MAX DEPTH	0.11	0.17	0.24	0.33	0.38	0.33	0.20	0.13	0.18	0.20
VELOCITY	0.30	0.38	0.90	1.04	1.39	1.26	0.43	0.29	0.31	0.35
TIME	1.50	3.63	2.37	3.56	3.57	3.63	3.50	1.50	1.64	3.76
MAX VEL	0.30	0.38	0.90	1.04	1.39	1.26	0.87	0.29	0.31	0.35
DEPTH	0.11	0.17	0.24	0.33	0.37	0.33	0.20	0.12	0.18	0.20
TIME	1.52	3.73	2.37	3.59	3.57	3.63	3.50	1.54	1.66	3.77
NODE	4411	4412	4413	4414	4415	4416	4417	4418	4419	4420
EVATION	2480.23	2476.71	2473.49	2470.20	2466.73	2464.81	2460.72	2456.81	2453.49	2450.63
AX DEPTH	0.23	0.21	0.17	0.20	0.14	0.11	0.19	0.23	0.23	0.17
VELOCITY	1.00	0.41	0.39	0.40	0.28	0.00	0.39	0.80	0.88	0.35
TIME	2.56	3.41	3.63	3.54	1.61	1.36	1.98	1.74	1.73	1.91
MAX VEL	1.00	0.84	0.39	0.81	0.28	0.27	0.39	0.77	0.89	0.35
DEPTH	0.23	0.20	0.17	0.20	0.14	0.11	0.19	0.21	0.23	0.17
TIME	2.56	3.57	3.63	2.83	1.61	1.38	1.98	1.79	1.74	1.92
NODE	4421	4422	4423	4424	4425	4426	4427	4428	4429	4430
ELEVATION	2447.68	2445.12	2441.81	2437.36	2434.79	2430.20	2427.05	2424.45	2420.93	2418.36
MAX DEPTH	0.19	0.12	0.11	0.24	0.13	0.20	0.22	0.17	0.15	0.12
VELOCITY	0.41	0.29	0.00	0.40	0.32	0.38	0.35	0.34	0.32	0.30
TIME	1.95	1.92	1.36	1.66	1.72	1.78	1.71	2.50	2.62	1.50
MAX VEL	0.41	0.29	0.28	0.84	0.32	0.76	0.56	0.34	0.32	0.30
DEPTH	0.19	0.12	0.10	0.21	0.13	0.20	0.21	0.17	0.15	0.12
TIME	1.96	1.93	1.43	1.73	1.72	1.79	1.83	2.54	2.84	1.52
NODE	4431	4432	4433	4434	4435	4436	4437	4438	4439	4440
ELEVATION	2414.44	2410.23	2408.33	2405.12	2400.21	2396.15	2395.20	2391.54	2389.86	2386.29
MAX DEPTH	0.14	0.23	0.11	0.12	0.21	0.27	0.20	0.14	0.11	0.12
VELOCITY	0.32	0.38	0.30	0.32	0.85	0.98	0.44	0.26	0.00	0.31
TIME	1.59	1.80	1.50	3.05	1.70	1.93	2.08	3.02	1.42	2.84
MAX VEL	0.32	0.76	0.30	0.32	0.85	0.98	0.89	0.26	0.28	0.31
DEPTH	0.14	0.21	0.11	0.12	0.21	0.27	0.20	0.14	0.11	0.12
TIME	1.60	1.85	1.51	3.05	1.71	1.94	2.08	2.99	1.43	2.84
NODE	4441	4442	4443	4444	4445	4446	4447	4448	4449	4450
ELEVATION	2381.71	2379.66	2376.58	2373.06	2368.89	2364.74	2360.70	2356.52	2355.11	2350.17
MAX DEPTH	0.20	0.11	0.11	0.23	0.14	0.16	0.22	0.30	0.11	0.17
VELOCITY	0.34	0.24	0.26	0.38	0.32	0.34	0.89	0.64	0.30	0.40
TIME	2.94	1.50	1.50	3.26	3.31	2.08	2.15	2.14	2.18	2.30
MAX VEL	0.34	0.25	0.26	0.38	0.32	0.34	0.89	0.64	0.30	0.40
DEPTH	0.19	0.11	0.11	0.23	0.14	0.16	0.22	0.30	0.11	0.17
TIME	3.01	1.51	1.51	3.25	3.31	2.09	2.19	2.14	2.19	2.31
NODE	4451	4452	4453	4454	4455	4456	4457	4458	4459	4460
ELEVATION	2345.25	2341.06	2340.94	2340.80	2627.07	2627.06	2627.69	2625.61	2625.56	2624.65
MAX DEPTH	0.25	1.06	1.00	5.80	0.14	0.15	0.11	0.17	0.11	0.11
VELOCITY	0.99	1.34	1.61	0.57	0.41	0.36	0.30	0.33	0.00	0.00
TIME	3.68	4.71	4.72	4.71	1.50	1.50	1.50	1.56	1.35	1.38
MAX VEL	0.99	1.35	1.96	1.28	0.42	0.36	0.30	0.33	0.31	0.34
DEPTH	0.25	1.06	0.48	5.68	0.14	0.15	0.11	0.17	0.11	0.10
TIME	3.68	4.68	2.36	4.74	1.52	1.51	1.50	1.54	1.36	1.39
NODE	4461	4462	4463	4464	4465	4466	4467	4468	4469	4470
EVATION	2618.35	2619.88	2615.21	2616.23	2614.44	2610.23	2609.70	2605.88	2605.72	2604.05
DEPTH	0.34	0.11	0.21	0.11	0.11	0.23	0.11	0.20	0.20	0.21
OCITY	1.15	0.00	0.36	0.00	0.31	0.43	0.34	0.45	0.39	0.95
E	1.88	1.41	1.56	1.35	1.50	1.76	1.50	2.58	2.48	2.30
X VEL	1.15	0.37	0.58	0.33	0.31	0.87	0.35	0.45	0.76	0.95
DEPTH	0.34	0.10	0.20	0.11	0.11	0.21	0.11	0.20	0.20	0.21
TIME	1.93	1.42	1.81	1.36	1.51	1.79	1.51	2.58	2.49	2.31
NODE	4471	4472	4473	4474	4475	4476	4477	4478	4479	4480
ELEVATION	2600.73	2601.25	2600.59	2598.42	2595.38	2592.84	2592.07	2588.15	2585.23	2583.04

MAX DEPTH	0.34	0.11	0.11	0.12	0.15	0.16	0.11	0.17	0.23	0.17
VELOCITY	1.04	0.33	0.30	0.33	0.35	0.36	0.00	0.38	0.81	0.31
TIME	2.33	1.50	1.50	1.50	1.55	1.67	1.36	2.05	1.76	1.98
MAX VEL	1.04	0.33	0.30	0.34	0.35	0.36	0.31	0.38	0.83	0.31
DEPTH	0.34	0.11	0.11	0.12	0.15	0.16	0.11	0.17	0.22	0.17
TIME	2.34	1.51	1.51	1.51	1.58	1.74	1.38	2.05	1.78	2.01

NODE	4481	4482	4483	4484	4485	4486	4487	4488	4489	4490
ELEVATION	2580.44	2577.97	2575.15	2573.00	2570.52	2568.19	2565.13	2561.87	2559.99	2558.07
MAX DEPTH	0.21	0.18	0.15	0.13	0.12	0.13	0.13	0.15	0.13	0.11
VELOCITY	0.41	0.42	0.36	0.32	0.31	0.33	0.34	0.35	0.32	0.00
TIME	1.95	1.90	1.55	1.50	1.50	1.50	1.54	1.50	1.50	1.41
MAX VEL	0.42	0.42	0.36	0.32	0.31	0.33	0.34	0.35	0.32	0.27
DEPTH	0.20	0.18	0.15	0.13	0.12	0.13	0.13	0.15	0.13	0.10
TIME	1.95	1.91	1.59	1.52	1.51	1.52	1.55	1.51	1.51	1.42

NODE	4491	4492	4493	4494	4495	4496	4497	4498	4499	4500
ELEVATION	2554.94	2551.06	2547.12	2544.95	2540.32	2530.57	2532.35	2529.62	2525.11	2520.55
MAX DEPTH	0.11	0.13	0.12	0.10	0.10	0.57	0.11	0.11	0.11	0.18
VELOCITY	0.00	0.30	0.31	0.00	0.00	3.97	0.00	0.00	0.00	0.42
TIME	1.31	1.50	1.50	1.42	1.41	2.16	1.36	1.42	1.41	2.30
MAX VEL	0.28	0.30	0.31	0.34	0.41	4.01	0.34	0.31	0.28	0.42
DEPTH	0.11	0.13	0.12	0.10	0.10	0.57	0.10	0.10	0.10	0.18
TIME	1.34	1.51	1.51	1.43	1.48	2.17	1.48	1.43	1.42	2.31

NODE	4501	4502	4503	4504	4505	4506	4507	4508	4509	4510
ELEVATION	2515.25	2511.92	2509.73	2505.86	2502.72	2499.89	2495.38	2490.47	2487.43	2485.21
MAX DEPTH	0.25	0.22	0.15	0.12	0.15	0.20	0.24	0.47	0.41	0.21
VELOCITY	0.82	0.90	0.37	0.31	0.34	0.46	1.00	1.25	1.42	0.99
TIME	1.96	2.03	2.27	1.50	3.80	3.26	3.66	3.63	3.63	3.63
MAX VEL	0.84	0.91	0.37	0.31	0.34	0.93	1.01	1.26	1.42	0.99
DEPTH	0.24	0.22	0.15	0.12	0.15	0.20	0.24	0.47	0.41	0.20
TIME	2.17	2.04	2.28	1.52	3.82	3.64	3.66	3.63	3.63	2.99

NODE	4511	4512	4513	4514	4515	4516	4517	4518	4519	4520
ELEVATION	2483.42	2480.12	2477.52	2472.81	2470.67	2466.77	2464.48	2461.72	2458.86	2455.15
MAX DEPTH	0.11	0.12	0.12	0.26	0.20	0.22	0.24	0.12	0.12	0.15
VELOCITY	0.00	0.29	0.31	0.86	0.40	0.84	0.78	0.28	0.28	0.31
TIME	1.41	1.58	3.88	4.04	2.80	3.65	3.74	1.50	1.50	1.98
MAX VEL	0.35	0.30	0.31	0.86	0.80	0.84	0.78	0.28	0.28	0.31
DEPTH	0.11	0.12	0.12	0.26	0.20	0.22	0.23	0.12	0.11	0.15
TIME	1.42	1.51	3.88	4.05	3.03	3.66	3.51	1.51	1.51	2.01

NODE	4521	4522	4523	4524	4525	4526	4527	4528	4529	4530
ELEVATION	2451.88	2447.76	2445.20	2441.28	2439.21	2435.70	2431.63	2428.42	2425.21	2422.06
MAX DEPTH	0.21	0.25	0.20	0.24	0.12	0.11	0.22	0.16	0.21	0.15
VELOCITY	0.84	0.82	0.40	0.89	0.30	0.27	0.41	0.37	0.74	0.37
TIME	1.87	1.86	1.86	1.82	1.50	1.50	1.76	2.11	1.83	1.93
MAX VEL	0.84	0.82	0.80	0.90	0.30	0.27	0.81	0.37	0.75	0.37
DEPTH	0.21	0.25	0.20	0.23	0.11	0.11	0.21	0.16	0.21	0.15
TIME	1.91	1.88	1.87	1.83	1.51	1.51	1.78	2.11	1.83	1.94

NODE	4531	4532	4533	4534	4535	4536	4537	4538	4539	4540
ELEVATION	2418.79	2415.13	2411.60	2408.61	2405.23	2401.57	2399.82	2395.20	2390.40	2390.17
MAX DEPTH	0.15	0.13	0.13	0.16	0.23	0.18	0.11	0.20	0.40	0.17
VELOCITY	0.39	0.31	0.27	0.35	0.38	0.40	0.00	0.44	1.18	0.39
TIME	2.59	1.50	1.50	1.82	2.98	3.06	1.35	2.14	3.07	3.19
MAX VEL	0.39	0.31	0.27	0.35	0.77	0.40	0.29	0.89	1.18	0.39
DEPTH	0.15	0.13	0.13	0.16	0.22	0.18	0.11	0.20	0.40	0.17
TIME	2.60	1.54	1.53	1.83	3.06	3.06	1.36	1.97	3.14	3.19

NODE	4541	4542	4543	4544	4545	4546	4547	4548	4549	4550
ELEVATION	2387.08	2383.43	2380.15	2377.33	2375.12	2371.35	2367.65	2364.25	2360.69	2356.92
MAX DEPTH	0.11	0.13	0.15	0.19	0.12	0.13	0.14	0.12	0.11	0.11
VELOCITY	0.28	0.27	0.28	0.32	0.27	0.29	0.31	0.27	0.27	0.28
TIME	1.50	1.50	3.07	3.26	1.50	1.50	3.43	1.50	1.50	1.50
MAX VEL	0.28	0.27	0.28	0.32	0.27	0.29	0.31	0.27	0.27	0.28
DEPTH	0.11	0.13	0.15	0.19	0.11	0.12	0.14	0.12	0.11	0.11
TIME	1.51	1.52	3.07	3.44	1.52	1.52	3.56	1.52	1.51	1.51

NODE	4551	4552	4553	4554	4555	4556	4557	4558	4559	4560
ELEVATION	2353.73	2350.11	2345.15	2342.07	2340.72	2340.62	2620.21	2622.36	2622.53	2621.81
MAX DEPTH	0.19	0.11	0.15	0.20	0.72	5.62	0.21	0.13	0.12	0.12
VELOCITY	0.35	0.29	0.30	0.24	2.33	3.78	0.35	0.37	0.33	0.30
TIME	2.13	1.50	2.40	4.50	4.76	4.78	1.50	1.50	1.50	1.50
MAX VEL	0.35	0.29	0.30	0.43	2.33	3.89	0.71	0.37	0.33	0.30
DEPTH	0.19	0.11	0.15	0.20	0.72	5.53	0.21	0.12	0.11	0.12
TIME	2.19	1.31	2.41	4.69	4.77	4.72	1.53	1.52	1.51	1.51

NODE	4561	4562	4563	4564	4565	4566	4567	4568	4569	4570
ELEVATION	2620.14	2618.92	2617.13	2612.39	2612.91	2610.17	2609.37	2606.47	2603.59	2600.65
MAX DEPTH	0.14	0.11	0.14	0.33	0.11	0.17	0.11	0.14	0.20	0.23
VELOCITY	0.32	0.29	0.44	1.37	0.00	0.40	0.31	0.34	0.48	1.00
TIME	1.50	1.41	1.96	1.94	1.32	1.93	1.50	1.58	1.82	2.49
MAX VEL	0.32	0.29	0.44	1.37	0.31	0.40	0.31	0.34	0.48	1.00
DEPTH	0.14	0.11	0.14	0.33	0.11	0.17	0.11	0.14	0.20	0.23
TIME	1.52	1.42	1.97	1.95	1.34	1.98	1.51	1.59	2.05	2.49

NODE	4571	4572	4573	4574	4575	4576	4577	4578	4579	4580
ELEVATION	2602.16	2600.20	2596.81	2595.27	2595.72	2595.11	2590.75	2589.49	2586.75	2585.57
MAX DEPTH	0.11	0.20	0.24	0.27	0.11	0.11	0.18	0.15	0.16	0.11
VELOCITY	0.00	0.45	0.95	1.09	0.27	0.00	0.38	0.34	0.37	0.00
TIME	1.41	2.46	2.38	2.38	1.50	1.31	1.60	1.69	1.91	1.38
MAX VEL	0.29	0.90	0.96	1.10	0.27	0.29	0.38	0.34	0.37	0.31
DEPTH	0.11	0.20	0.23	0.27	0.11	0.10	0.18	0.15	0.16	0.11
TIME	1.42	2.46	2.39	2.39	1.52	1.59	1.61	1.70	1.92	1.39

NODE	4581	4582	4583	4584	4585	4586	4587	4588	4589	4590
ELEVATION	2581.66	2579.93	2577.96	2574.23	2570.58	2568.40	2566.67	2563.60	2561.30	2558.16
MAX DEPTH	0.20	0.23	0.13	0.19	0.20	0.15	0.13	0.14	0.13	0.16
VELOCITY	0.41	0.88	0.31	0.49	0.46	0.36	0.34	0.33	0.31	0.33
TIME	1.84	1.87	2.05	2.03	1.92	1.59	1.50	1.50	1.50	1.59
MAX VEL	0.83	0.88	0.31	0.49	0.93	0.36	0.34	0.33	0.31	0.33
DEPTH	0.20	0.22	0.13	0.19	0.20	0.15	0.13	0.14	0.13	0.16
TIME	1.85	1.92	2.13	2.04	1.93	1.60	1.52	1.52	1.53	1.60

NODE	4591	4592	4593	4594	4595	4596	4597	4598	4599	4600
ELEVATION	2555.19	2553.69	2552.00	2548.70	2545.13	2540.65	2538.24	2534.21	2525.79	2524.47
MAX DEPTH	0.19	0.14	0.11	0.11	0.13	0.16	0.11	0.11	0.79	0.69
VELOCITY	0.39	0.33	0.00	0.28	0.32	0.32	0.00	0.00	2.66	1.25
TIME	1.60	1.50	1.42	1.49	1.50	1.55	1.41	1.42	2.57	2.11
MAX VEL	0.39	0.33	0.28	0.28	0.32	0.32	0.31	0.39	2.68	3.43
DEPTH	0.19	0.13	0.11	0.11	0.13	0.16	0.10	0.10	0.78	0.55
TIME	1.61	1.54	1.43	1.50	1.52	1.53	1.42	1.51	2.58	2.54

NODE	4601	4602	4603	4604	4605	4606	4607	4608	4609	4610
ELEVATION	2522.90	2520.07	2515.82	2510.49	2505.60	2502.93	2499.47	2496.40	2492.35	2488.98
MAX DEPTH	0.21	0.14	0.11	0.24	0.34	0.20	0.20	0.14	0.21	0.21
VELOCITY	0.54	0.42	0.00	1.01	1.03	0.46	0.42	0.33	0.45	0.88
TIME	2.11	2.75	1.34	2.25	2.25	2.08	2.53	3.86	3.08	3.09
MAX VEL	1.10	0.42	0.30	1.01	1.03	0.92	0.85	0.33	0.91	0.89
DEPTH	0.21	0.14	0.10	0.24	0.34	0.20	0.20	0.14	0.20	0.21
TIME	2.12	2.76	1.52	2.25	2.27	1.86	2.35	3.93	3.17	3.10

NODE	4611	4612	4613	4614	4615	4616	4617	4618	4619	4620
EVATION	2485.28	2480.49	2477.00	2477.11	2473.66	2470.84	2467.45	2464.99	2461.30	2459.20
X DEPTH	0.37	0.49	0.55	0.11	0.11	0.12	0.21	0.13	0.25	0.14
LOCITY	1.32	1.36	1.35	0.00	0.28	0.31	0.87	0.32	0.92	0.34
IME	3.70	3.73	3.76	1.34	1.50	1.50	2.61	3.83	3.41	3.76
MAX VEL	1.32	1.36	1.35	0.30	0.28	0.30	0.89	0.32	0.93	0.34
DEPTH	0.37	0.49	0.55	0.10	0.11	0.11	0.21	0.13	0.25	0.14
TIME	3.71	3.73	3.76	1.36	1.51	1.52	2.65	3.83	3.34	3.74

NODE	4621	4622	4623	4624	4625	4626	4627	4628	4629	4630
ELEVATION	2455.92	2452.97	2449.81	2446.40	2442.82	2439.74	2435.39	2432.54	2430.20	2425.97
MAX DEPTH	0.11	0.11	0.13	0.20	0.22	0.21	0.24	0.26	0.20	0.21
VELOCITY	0.28	0.28	0.28	0.40	0.44	0.43	0.75	0.33	0.41	0.40
TIME	1.50	1.50	2.01	2.13	1.77	2.01	2.05	3.54	2.10	2.05
MAX VEL	0.28	0.27	0.29	0.40	0.87	0.87	0.76	0.64	0.83	0.82
DEPTH	0.11	0.11	0.12	0.19	0.20	0.20	0.24	0.23	0.20	0.20
TIME	1.53	1.53	1.52	2.19	1.90	2.01	2.01	2.05	2.11	2.05

NODE	4631	4632	4633	4634	4635	4636	4637	4638	4639	4640
ELEVATION	2421.96	2419.95	2415.19	2410.75	2410.11	2406.64	2402.49	2400.17	2395.22	2394.15
MAX DEPTH	0.24	0.14	0.19	0.25	0.11	0.11	0.18	0.17	0.22	0.11
VELOCITY	0.99	0.35	0.40	0.88	0.29	0.28	0.32	0.40	0.80	0.27
TIME	1.92	2.18	2.07	2.52	1.50	1.50	1.95	3.06	3.10	1.50
MAX VEL	0.99	0.35	0.40	0.88	0.29	0.28	0.32	0.40	0.80	0.27
DEPTH	0.24	0.14	0.19	0.25	0.11	0.11	0.18	0.17	0.22	0.11
TIME	1.93	2.19	2.08	2.54	1.50	1.53	1.95	3.06	3.11	1.51

NODE	4641	4642	4643	4644	4645	4646	4647	4648	4649	4650
ELEVATION	2390.18	2385.58	2385.14	2380.56	2378.78	2375.60	2372.58	2369.61	2365.76	2362.36
MAX DEPTH	0.18	0.40	0.14	0.13	0.11	0.13	0.14	0.13	0.14	0.15
VELOCITY	0.40	1.22	0.34	0.28	0.28	0.29	0.26	0.29	0.30	0.32
TIME	2.93	3.18	3.07	1.50	1.50	1.50	1.66	1.50	1.50	1.59
MAX VEL	0.40	1.22	0.34	0.28	0.28	0.29	0.27	0.29	0.30	0.32
DEPTH	0.18	0.40	0.14	0.13	0.11	0.13	0.14	0.13	0.14	0.15
TIME	2.94	3.06	3.07	1.51	1.52	1.52	1.52	1.53	1.52	1.60

NODE	4651	4652	4653	4654	4655	4656	4657	4658	4659	4660
ELEVATION	2359.29	2355.14	2351.15	2348.58	2345.12	2341.78	2340.28	2339.20	2618.76	2615.85
MAX DEPTH	0.13	0.14	0.23	0.17	0.12	0.16	0.28	0.87	0.10	0.20
VELOCITY	0.30	0.32	0.34	0.33	0.26	0.22	0.88	4.72	0.00	0.47
TIME	1.50	1.50	2.08	2.25	1.50	2.50	4.80	4.76	1.30	1.64
MAX VEL	0.30	0.32	0.34	0.33	0.26	0.22	0.88	4.80	0.32	0.95
DEPTH	0.13	0.14	0.23	0.17	0.12	0.16	0.28	0.87	0.10	0.20
TIME	1.53	1.60	2.11	2.26	1.51	2.52	4.84	4.96	1.31	1.65

NODE	4661	4662	4663	4664	4665	4666	4667	4668	4669	4670
ELEVATION	2616.98	2617.32	2615.69	2614.09	2612.67	2606.42	2609.97	2605.16	2604.75	2602.03
MAX DEPTH	0.12	0.11	0.13	0.13	0.11	0.42	0.11	0.16	0.12	0.14
VELOCITY	0.37	0.00	0.35	0.33	0.00	0.99	0.00	0.36	0.34	0.34
ME	1.50	1.30	1.50	1.50	1.32	2.01	1.70	1.97	1.50	1.58
VEL	0.37	0.30	0.35	0.33	0.34	0.99	0.37	0.36	0.34	0.34
TH	0.12	0.11	0.13	0.13	0.10	0.42	0.11	0.16	0.12	0.14
ME	1.52	1.32	1.51	1.51	1.35	2.02	1.71	1.98	1.51	1.60

NODE	4671	4672	4673	4674	4675	4676	4677	4678	4679	4680
ELEVATION	2600.38	2595.30	2597.75	2595.69	2593.10	2590.33	2591.67	2590.12	2588.97	2585.20
MAX DEPTH	0.11	0.30	0.11	0.16	0.24	0.33	0.11	0.12	0.11	0.20
VELOCITY	0.36	1.10	0.00	0.33	1.03	1.22	0.00	0.30	0.29	0.40
TIME	1.50	2.55	1.42	2.62	2.52	2.44	1.29	1.50	1.50	1.77
MAX VEL	0.36	1.10	0.29	0.33	1.04	1.22	0.34	0.30	0.29	0.40
DEPTH	0.11	0.30	0.10	0.16	0.24	0.32	0.10	0.12	0.11	0.20
TIME	1.51	2.56	1.35	2.63	2.53	2.45	1.35	1.51	1.52	1.85

NODE	4681	4682	4683	4684	4685	4686	4687	4688	4689	4690
ELEVATION	2583.44	2580.17	2579.47	2575.75	2574.39	2571.13	2565.24	2564.89	2561.81	2559.33
MAX DEPTH	0.14	0.17	0.11	0.25	0.13	0.11	0.24	0.14	0.17	0.15
VELOCITY	0.35	0.39	0.00	0.52	0.33	0.00	0.90	0.35	0.37	0.35
TIME	1.91	1.95	1.39	1.88	2.12	1.32	2.05	1.72	1.62	1.58
MAX VEL	0.35	0.39	0.32	0.86	0.33	0.36	0.91	0.35	0.37	0.35
DEPTH	0.14	0.17	0.11	0.22	0.13	0.11	0.24	0.14	0.17	0.15
TIME	1.91	1.95	1.41	2.03	2.18	1.34	2.06	1.73	1.63	1.58

NODE	4691	4692	4693	4694	4695	4696	4697	4698	4699	4700
ELEVATION	2557.12	2555.35	2552.34	2549.03	2548.25	2545.51	2542.51	2539.46	2535.13	2530.34
MAX DEPTH	0.15	0.11	0.13	0.17	0.11	0.11	0.11	0.11	0.13	0.15
VELOCITY	0.36	0.31	0.34	0.37	0.31	0.28	0.29	0.30	0.34	0.32
TIME	1.61	1.50	1.57	1.62	1.50	1.49	1.50	1.50	1.53	1.53
MAX VEL	0.36	0.31	0.34	0.37	0.31	0.28	0.29	0.30	0.34	0.32
DEPTH	0.15	0.11	0.13	0.17	0.11	0.11	0.11	0.11	0.13	0.15
TIME	1.61	1.51	1.58	1.60	1.52	1.50	1.51	1.51	1.53	1.54

NODE	4701	4702	4703	4704	4705	4706	4707	4708	4709	4710
ELEVATION	2528.74	2524.38	2520.51	2512.77	2513.71	2510.10	2507.01	2500.37	2495.62	2493.27
MAX DEPTH	0.11	0.21	0.51	0.70	0.11	0.10	0.11	0.29	0.42	0.21
VELOCITY	0.00	0.83	2.05	1.10	0.00	0.00	0.00	1.10	0.96	0.97
TIME	1.38	2.65	2.35	2.09	1.35	1.39	1.29	2.39	2.55	2.47
MAX VEL	0.29	0.84	5.65	3.03	0.27	0.24	0.34	1.11	0.96	0.97
DEPTH	0.10	0.21	0.46	0.64	0.10	0.10	0.10	0.29	0.42	0.21
TIME	1.39	2.64	2.36	2.62	1.43	1.41	1.41	2.40	2.49	2.48

NODE	4711	4712	4713	4714	4715	4716	4717	4718	4719	4720
ELEVATION	2489.80	2485.21	2482.26	2479.72	2475.33	2471.89	2470.20	2467.51	2464.02	2460.88
MAX DEPTH	0.20	0.21	0.21	0.21	0.33	0.40	0.20	0.12	0.16	0.22
VELOCITY	0.48	0.40	0.45	0.48	1.22	1.10	0.34	0.31	0.36	0.75
TIME	2.95	2.99	3.05	2.95	3.73	3.79	3.61	1.50	4.08	2.78
MAX VEL	0.98	0.83	0.92	0.97	1.23	1.10	0.69	0.31	0.36	0.80
EPTH	0.19	0.21	0.21	0.20	0.33	0.40	0.20	0.12	0.16	0.20
ME	2.95	3.00	3.05	2.96	3.73	3.79	2.84	1.52	4.08	2.93

ODE	4721	4722	4723	4724	4725	4726	4727	4728	4729	4730
VATION	2458.72	2455.24	2452.58	2449.95	2447.24	2444.17	2440.21	2436.41	2433.26	2431.42
MAX DEPTH	0.19	0.24	0.25	0.14	0.12	0.12	0.18	0.21	0.21	0.12
VELOCITY	0.40	0.71	0.39	0.30	0.31	0.29	0.36	0.41	0.40	0.31
TIME	3.84	3.13	2.81	1.55	1.50	1.50	2.25	2.01	1.93	2.03
MAX VEL	0.40	0.71	0.79	0.30	0.31	0.29	0.36	0.85	0.81	0.31
DEPTH	0.19	0.24	0.22	0.14	0.12	0.12	0.18	0.20	0.20	0.12

TIME	3.84	3.13	2.90	1.59	1.52	1.52	2.27	2.02	1.94	2.04
NODE	4731	4732	4733	4734	4735	4736	4737	4738	4739	4740
ELEVATION	2428.24	2425.11	2420.76	2415.28	2413.95	2411.21	2405.74	2405.09	2401.23	2398.14
MAX DEPTH	0.12	0.11	0.16	0.28	0.19	0.11	0.28	0.11	0.14	0.18
VELOCITY	0.30	0.00	0.40	0.88	0.37	0.00	0.86	0.00	0.31	0.30
TIME	2.13	1.42	2.16	1.96	2.28	1.41	2.32	1.30	1.84	1.98
MAX VEL	0.30	0.28	0.40	0.88	0.37	0.31	0.86	0.25	0.31	0.30
DEPTH	0.12	0.11	0.16	0.28	0.19	0.10	0.27	0.10	0.14	0.18
TIME	2.14	1.44	2.19	1.97	2.31	1.42	2.33	1.57	1.85	2.08
NODE	4741	4742	4743	4744	4745	4746	4747	4748	4749	4750
EVATION	2395.16	2390.29	2388.88	2385.20	2380.41	2378.94	2375.62	2372.78	2370.26	2368.03
X DEPTH	0.16	0.29	0.18	0.20	0.41	0.20	0.14	0.16	0.16	0.12
VELOCITY	0.38	0.51	0.36	0.44	1.19	0.39	0.30	0.27	0.31	0.30
TIME	2.50	1.57	2.85	2.25	3.02	2.90	3.05	1.66	1.81	1.50
MAX VEL	0.38	0.63	0.36	0.89	1.19	0.78	0.30	0.27	0.31	0.30
DEPTH	0.16	0.28	0.18	0.20	0.40	0.20	0.14	0.16	0.16	0.12
TIME	2.50	2.84	2.85	1.79	3.02	2.63	3.06	1.71	1.83	1.51
NODE	4751	4752	4753	4754	4755	4756	4757	4758	4759	4760
ELEVATION	2364.25	2360.86	2357.06	2354.00	2350.87	2346.97	2343.67	2340.24	2339.38	2335.90
MAX DEPTH	0.13	0.16	0.19	0.17	0.15	0.17	0.18	0.24	0.12	0.90
VELOCITY	0.28	0.34	0.32	0.30	0.33	0.33	0.35	0.80	0.28	2.09
TIME	1.50	1.71	1.91	1.91	1.91	2.14	2.36	2.01	4.95	4.81
MAX VEL	0.28	0.34	0.32	0.30	0.33	0.33	0.35	0.81	0.28	2.12
DEPTH	0.13	0.16	0.19	0.17	0.15	0.17	0.18	0.22	0.12	0.89
TIME	1.53	1.73	1.92	1.92	1.92	2.13	2.45	2.61	4.95	4.77
NODE	4761	4762	4763	4764	4765	4766	4767	4768	4769	4770
ELEVATION	2335.77	2614.96	2610.33	2610.43	2612.28	2610.15	2609.32	2607.98	2604.37	2602.26
MAX DEPTH	2.55	0.10	0.23	0.20	0.11	0.15	0.13	0.11	0.20	0.28
VELOCITY	2.80	0.00	0.82	0.45	0.00	0.36	0.33	0.00	0.48	1.21
TIME	4.75	1.35	1.57	1.57	1.35	1.51	1.50	1.34	2.14	1.81
MAX VEL	2.83	0.28	0.83	0.92	0.30	0.36	0.33	0.31	0.97	1.22
DEPTH	2.54	0.10	0.23	0.20	0.11	0.15	0.13	0.11	0.20	0.27
TIME	4.89	1.36	1.58	1.58	1.36	1.52	1.52	1.43	1.81	1.82
NODE	4771	4772	4773	4774	4775	4776	4777	4778	4779	4780
ELEVATION	2602.23	2598.95	2597.70	2596.15	2590.94	2594.06	2592.72	2590.15	2585.44	2585.25
MAX DEPTH	0.11	0.17	0.15	0.11	0.41	0.11	0.11	0.15	0.44	0.25
VELOCITY	0.00	0.33	0.33	0.00	0.76	0.00	0.00	0.37	0.93	0.76
TIME	1.34	1.91	1.68	1.30	2.53	1.39	1.30	2.62	2.53	2.58
MAX VEL	0.30	0.33	0.33	0.30	0.76	0.31	0.29	0.37	0.93	0.77
DEPTH	0.10	0.17	0.15	0.10	0.40	0.10	0.10	0.15	0.44	0.25
TIME	1.35	1.92	1.90	1.35	2.60	1.41	1.55	2.63	2.55	2.59
NODE	4781	4782	4783	4784	4785	4786	4787	4788	4789	4790
ELEVATION	2585.55	2585.02	2582.55	2579.28	2576.63	2573.68	2572.51	2569.88	2567.65	2561.25
MAX DEPTH	0.11	0.11	0.12	0.19	0.16	0.20	0.13	0.22	0.11	0.35
VELOCITY	0.29	0.00	0.31	0.39	0.38	0.40	0.33	0.48	0.00	0.91
TIME	1.50	1.30	1.50	1.91	1.98	1.90	1.98	2.04	1.34	2.16
MAX VEL	0.29	0.32	0.32	0.39	0.38	0.81	0.33	0.49	0.33	0.92
DEPTH	0.11	0.10	0.12	0.19	0.16	0.20	0.13	0.21	0.10	0.34
TIME	1.51	1.32	1.51	1.92	1.99	2.25	1.99	2.08	1.44	2.17
NODE	4791	4792	4793	4794	4795	4796	4797	4798	4799	4800
ELEVATION	2562.29	2557.86	2555.82	2552.87	2550.38	2547.84	2545.16	2542.96	2542.14	2539.26
X DEPTH	0.11	0.18	0.18	0.20	0.17	0.15	0.16	0.16	0.11	0.12
OCITY	0.00	0.29	0.40	0.38	0.34	0.36	0.37	0.36	0.30	0.29
E	1.38	1.74	1.77	1.72	1.72	1.65	1.60	1.58	1.50	1.50
VEL	0.31	0.29	0.40	0.38	0.34	0.36	0.37	0.36	0.30	0.29
PTH	0.10	0.17	0.18	0.20	0.17	0.15	0.16	0.16	0.11	0.12
TIME	1.47	1.82	1.77	1.82	1.82	1.66	1.64	1.60	1.51	1.51
NODE	4801	4802	4803	4804	4805	4806	4807	4808	4809	4810
ELEVATION	2535.96	2532.50	2530.07	2526.19	2521.57	2519.75	2515.23	2509.76	2508.31	2506.63
MAX DEPTH	0.12	0.13	0.11	0.11	0.13	0.16	0.20	0.52	0.20	0.10
VELOCITY	0.29	0.34	0.00	0.00	0.32	0.39	0.47	1.85	0.56	0.00
TIME	1.50	1.50	1.29	1.39	1.51	2.76	2.45	2.16	2.76	1.42
MAX VEL	0.29	0.34	0.29	0.29	0.32	0.39	0.95	5.14	1.12	0.39
DEPTH	0.12	0.13	0.10	0.11	0.13	0.16	0.20	0.47	0.20	0.10
TIME	1.51	1.51	1.62	1.41	1.52	2.76	3.06	2.40	2.89	1.43
NODE	4811	4812	4813	4814	4815	4816	4817	4818	4819	4820
ELEVATION	2501.79	2497.75	2491.59	2485.67	2481.49	2479.46	2475.23	2471.71	2468.55	2467.27
MAX DEPTH	0.11	0.11	0.26	0.31	0.38	0.21	0.23	0.25	0.35	0.27
VELOCITY	0.00	0.00	1.15	1.08	1.19	0.99	0.97	0.98	1.38	1.26
TIME	1.30	1.34	2.48	2.52	2.65	2.82	3.73	3.73	3.76	3.81
MAX VEL	0.28	0.33	1.16	1.09	1.19	1.00	0.97	0.98	1.38	1.26
DEPTH	0.10	0.10	0.26	0.31	0.38	0.21	0.23	0.25	0.35	0.27
TIME	1.34	1.43	2.48	2.52	2.65	2.82	3.73	3.73	3.76	3.82
NODE	4821	4822	4823	4824	4825	4826	4827	4828	4829	4830
ELEVATION	2464.73	2460.80	2457.70	2455.25	2452.68	2450.13	2447.20	2444.39	2440.17	2438.05
MAX DEPTH	0.13	0.15	0.21	0.20	0.20	0.15	0.20	0.12	0.17	0.12
VELOCITY	0.29	0.33	0.82	0.41	0.42	0.35	0.38	0.29	0.36	0.34
TIME	4.01	4.12	2.87	2.97	3.81	3.51	2.96	1.50	1.59	1.50
MAX VEL	0.29	0.33	0.82	0.83	0.85	0.35	0.76	0.29	0.36	0.34
DEPTH	0.13	0.15	0.21	0.20	0.20	0.15	0.20	0.12	0.17	0.12
TIME	4.01	4.12	2.87	2.98	3.82	3.52	3.10	1.52	1.60	1.52
NODE	4831	4832	4833	4834	4835	4836	4837	4838	4839	4840
ELEVATION	2435.11	2430.24	2427.74	2424.88	2422.17	2419.07	2414.72	2410.23	2408.17	2405.16
MAX DEPTH	0.11	0.24	0.24	0.25	0.14	0.11	0.15	0.23	0.12	0.16
VELOCITY	0.00	0.69	0.75	0.64	0.36	0.30	0.36	0.38	0.26	0.33
TIME	1.38	2.06	1.90	1.91	2.15	1.50	2.26	1.54	2.46	2.78
MAX VEL	0.30	0.76	0.81	0.67	0.36	0.30	0.36	0.81	0.27	0.33
DEPTH	0.11	0.23	0.22	0.24	0.14	0.11	0.15	0.23	0.12	0.16
TIME	1.39	2.09	1.98	1.97	2.16	1.51	2.27	2.29	2.52	2.79
NODE	4841	4842	4843	4844	4845	4846	4847	4848	4849	4850
ELEVATION	2401.52	2400.17	2396.05	2394.20	2390.11	2387.28	2384.51	2380.18	2375.49	2373.64
MAX DEPTH	0.31	0.17	0.20	0.11	0.11	0.16	0.11	0.18	0.49	0.22
VELOCITY	0.58	0.37	0.41	0.00	0.29	0.38	0.28	0.40	0.87	0.84
TIME	2.40	1.91	1.84	1.29	1.50	2.84	2.58	3.00	3.09	2.98
X VEL	0.58	0.37	0.82	0.33	0.29	0.38	0.28	0.40	0.87	0.85
TH	0.31	0.17	0.20	0.10	0.10	0.16	0.11	0.18	0.49	0.22
	2.41	1.91	1.85	1.31	1.51	2.58	2.54	3.01	2.99	2.99
NODE	4851	4852	4853	4854	4855	4856	4857	4858	4859	4860
ELEVATION	2370.24	2369.46	2365.13	2361.61	2360.04	2356.70	2353.61	2350.34	2345.22	2343.05
MAX DEPTH	0.24	0.11	0.13	0.17	0.11	0.12	0.14	0.12	0.22	0.21
VELOCITY	0.83	0.00	0.29	0.31	0.25	0.25	0.27	0.33	0.30	0.58
TIME	3.07	1.38	3.77	2.01	1.50	1.50	1.92	1.50	1.57	1.65

MAX VEL	0.83	0.27	0.29	0.31	0.25	0.25	0.27	0.33	0.60	0.58
DEPTH	0.24	0.10	0.13	0.17	0.11	0.12	0.14	0.12	0.21	0.20
TIME	3.06	1.39	1.83	2.01	1.51	1.51	1.93	1.51	1.61	1.66
NODE	4861	4862	4863	4864	4865	4866	4867	4868	4869	4870
ELEVATION	2340.16	2335.46	2335.50	2334.77	2610.16	2609.76	2605.32	2607.74	2605.29	2604.90
MAX DEPTH	0.16	0.46	0.50	0.75	0.10	0.11	0.32	0.11	0.15	0.12
VELOCITY	0.40	1.16	1.36	4.34	0.28	0.00	0.69	0.00	0.33	0.32
TIME	1.92	4.83	4.81	4.81	1.50	1.38	1.63	1.38	1.52	1.50
MAX VEL	0.40	1.16	3.72	4.49	0.28	0.29	0.70	0.31	0.33	0.32
EPTH	0.16	0.46	0.47	0.74	0.10	0.11	0.31	0.11	0.15	0.12
ME	1.93	4.83	5.59	4.83	1.51	1.39	1.68	1.39	1.56	1.51
NODE	4871	4872	4873	4874	4875	4876	4877	4878	4879	4880
ELEVATION	2602.40	2600.38	2596.20	2597.87	2595.04	2593.78	2592.50	2589.02	2588.77	2587.61
MAX DEPTH	0.13	0.16	0.38	0.11	0.14	0.15	0.11	0.26	0.22	0.14
VELOCITY	0.33	0.39	0.87	0.00	0.37	0.43	0.00	0.70	0.39	0.33
TIME	1.50	2.14	2.11	1.38	1.52	1.95	1.41	1.60	1.72	2.71
MAX VEL	0.33	0.39	0.87	0.30	0.37	0.43	0.29	0.73	0.56	0.33
DEPTH	0.13	0.16	0.38	0.11	0.14	0.15	0.11	0.24	0.21	0.14
TIME	1.52	2.15	2.11	1.39	1.56	1.90	1.42	2.23	2.45	2.71
NODE	4881	4882	4883	4884	4885	4886	4887	4888	4889	4890
ELEVATION	2587.20	2582.95	2582.59	2581.38	2579.09	2579.23	2575.76	2573.28	2569.66	2567.89
MAX DEPTH	0.11	0.28	0.27	0.13	0.18	0.11	0.15	0.19	0.21	0.21
VELOCITY	0.00	1.13	1.29	0.31	0.35	0.00	0.31	0.38	0.94	0.94
TIME	1.38	2.61	2.62	1.50	1.60	1.38	1.67	2.00	1.98	2.08
MAX VEL	0.28	1.13	1.29	0.31	0.35	0.29	0.31	0.38	0.94	0.95
DEPTH	0.10	0.28	0.27	0.12	0.18	0.10	0.15	0.19	0.21	0.21
TIME	1.47	2.16	2.59	2.59	1.54	1.39	1.54	2.04	1.98	2.26
NODE	4891	4892	4893	4894	4895	4896	4897	4898	4899	4900
ELEVATION	2565.55	2563.24	2560.80	2556.88	2555.20	2553.06	2549.13	2547.62	2544.51	2541.35
MAX DEPTH	0.17	0.11	0.13	0.27	0.13	0.11	0.19	0.13	0.14	0.19
VELOCITY	0.35	0.28	0.34	0.86	0.35	0.31	0.45	0.37	0.31	0.36
TIME	2.30	2.44	2.30	1.68	1.91	1.50	1.86	1.89	1.88	1.82
MAX VEL	0.35	0.29	0.34	0.86	0.35	0.31	0.45	0.37	0.31	0.36
DEPTH	0.17	0.11	0.13	0.26	0.13	0.11	0.19	0.13	0.14	0.19
TIME	2.45	1.51	2.30	2.77	1.91	1.51	1.90	1.89	1.91	1.82
NODE	4901	4902	4903	4904	4905	4906	4907	4908	4909	4910
ELEVATION	2538.67	2537.85	2535.13	2533.75	2530.06	2525.20	2523.26	2520.11	2515.16	2512.04
MAX DEPTH	0.20	0.12	0.13	0.11	0.12	0.20	0.12	0.11	0.16	0.14
VELOCITY	0.48	0.38	0.29	0.00	0.32	0.35	0.31	0.30	0.35	0.35
TIME	1.69	1.50	1.50	1.38	1.49	1.57	1.50	1.50	1.52	2.83
MAX VEL	0.97	0.38	0.29	0.27	0.32	0.35	0.31	0.30	0.35	0.35
DEPTH	0.20	0.12	0.13	0.11	0.12	0.20	0.12	0.11	0.16	0.14
TIME	1.70	1.52	1.51	1.39	1.50	1.58	1.51	1.51	1.53	2.84
NODE	4911	4912	4913	4914	4915	4916	4917	4918	4919	4920
ELEVATION	2508.72	2500.58	2498.30	2500.11	2496.60	2492.03	2486.90	2481.61	2475.85	2471.48
MAX DEPTH	0.21	0.58	0.78	0.11	0.11	0.11	0.11	0.20	0.35	0.46
VELOCITY	0.57	1.19	2.20	0.00	0.00	0.00	0.00	0.48	1.20	1.18
TIME	2.49	2.25	2.26	1.36	1.34	1.39	1.36	2.62	2.75	2.84
MAX VEL	1.17	3.07	2.56	0.27	0.28	0.29	0.30	0.96	1.20	1.18
DEPTH	0.20	0.54	0.70	0.10	0.10	0.10	0.11	0.20	0.34	0.46
TIME	2.52	2.63	2.72	1.41	1.49	1.38	1.38	2.54	2.75	2.87
NODE	4921	4922	4923	4924	4925	4926	4927	4928	4929	4930
EVATION	2468.40	2465.33	2460.51	2461.12	2458.63	2455.13	2452.07	2449.40	2446.38	2443.66
DEPTH	0.33	0.33	0.51	0.11	0.11	0.16	0.23	0.24	0.23	0.21
LOCITY	1.21	1.47	1.62	0.00	0.00	0.36	0.70	0.74	0.70	0.83
IME	3.59	3.75	3.68	1.39	1.36	4.12	2.93	3.08	2.92	2.96
MAX VEL	1.21	1.48	4.46	0.30	0.28	0.36	0.80	0.74	0.80	0.84
DEPTH	0.33	0.33	0.47	0.10	0.11	0.16	0.21	0.24	0.22	0.21
TIME	3.60	3.74	3.04	1.41	1.38	4.12	3.24	3.08	2.98	2.96
NODE	4931	4932	4933	4934	4935	4936	4937	4938	4939	4940
ELEVATION	2441.12	2438.36	2434.29	2430.23	2428.75	2425.19	2422.59	2420.12	2415.16	2412.29
MAX DEPTH	0.15	0.12	0.18	0.23	0.12	0.19	0.22	0.12	0.16	0.13
VELOCITY	0.32	0.29	0.37	0.38	0.32	0.39	0.73	0.32	0.30	0.31
TIME	3.43	1.50	1.63	1.61	1.50	2.16	2.02	2.15	2.27	1.50
MAX VEL	0.32	0.29	0.37	0.77	0.32	0.39	0.73	0.32	0.30	0.31
DEPTH	0.15	0.11	0.18	0.21	0.12	0.19	0.22	0.12	0.16	0.13
TIME	3.79	1.52	1.69	1.68	1.51	2.17	2.14	2.15	2.45	1.51
NODE	4941	4942	4943	4944	4945	4946	4947	4948	4949	4950
ELEVATION	2408.00	2405.22	2402.91	2401.50	2399.02	2395.14	2390.21	2385.35	2385.13	2380.61
MAX DEPTH	0.20	0.22	0.11	0.10	0.14	0.14	0.21	0.35	0.13	0.22
VELOCITY	0.46	0.92	0.28	0.00	0.30	0.35	0.44	0.77	0.32	0.35
TIME	2.14	2.35	1.50	1.35	2.52	2.58	1.93	2.51	2.52	1.70
MAX VEL	0.94	0.93	0.28	0.28	0.31	0.35	0.90	0.77	0.32	0.74
DEPTH	0.19	0.22	0.11	0.10	0.14	0.14	0.20	0.35	0.13	0.21
TIME	1.66	2.36	1.51	1.41	2.52	2.59	1.94	2.52	2.53	1.77
NODE	4951	4952	4953	4954	4955	4956	4957	4958	4959	4960
ELEVATION	2378.87	2375.20	2372.39	2368.15	2365.30	2363.41	2360.14	2357.09	2355.12	2353.00
MAX DEPTH	0.11	0.20	0.23	0.30	0.31	0.19	0.14	0.16	0.12	0.11
VELOCITY	0.27	0.35	0.90	0.89	0.90	0.40	0.30	0.33	0.26	0.00
TIME	1.50	2.74	2.37	3.08	3.11	3.23	3.75	3.85	1.50	1.36
MAX VEL	0.27	0.68	0.90	0.89	0.90	0.40	0.30	0.33	0.26	0.25
DEPTH	0.11	0.20	0.23	0.30	0.30	0.19	0.14	0.16	0.11	0.10
TIME	1.51	2.50	2.38	3.06	3.11	3.24	3.76	3.85	1.52	1.38
NODE	4961	4962	4963	4964	4965	4966	4967	4968	4969	4970
ELEVATION	2349.49	2345.32	2343.00	2340.12	2332.71	2332.07	2335.10	2329.55	2605.32	2604.79
MAX DEPTH	0.12	0.14	0.14	0.12	0.62	2.07	0.10	1.77	0.12	0.12
VELOCITY	0.29	0.24	0.25	0.39	1.69	3.43	0.00	2.53	0.28	0.32
TIME	1.50	1.50	1.61	1.50	4.84	4.84	1.39	4.78	1.50	1.53
MAX VEL	0.29	0.24	0.25	0.39	1.71	3.44	0.34	2.63	0.28	0.32
DEPTH	0.12	0.14	0.14	0.12	0.50	2.06	0.09	1.74	0.12	0.12
TIME	1.51	1.54	1.63	1.52	3.85	4.83	1.66	4.82	1.51	1.54
NODE	4971	4972	4973	4974	4975	4976	4977	4978	4979	4980
ELEVATION	2603.75	2602.22	2601.01	2600.12	2597.65	2595.75	2593.33	2592.74	2591.34	2587.15
MAX DEPTH	0.15	0.20	0.13	0.12	0.14	0.17	0.21	0.20	0.11	0.21
LOCITY	0.39	0.51	0.32	0.33	0.32	0.36	0.46	0.52	0.31	0.31
IE	1.72	1.69	1.50	1.50	1.50	2.13	2.10	2.00	1.50	1.50
VEL	0.39	1.02	0.32	0.33	0.32	0.36	0.94	1.06	0.31	0.63
TH	0.15	0.19	0.13	0.12	0.14	0.17	0.20	0.20	0.11	0.21
IME	1.72	1.70	1.51	1.53	1.52	2.14	2.11	2.01	1.51	1.54
NODE	4981	4982	4983	4984	4985	4986	4987	4988	4989	4990
ELEVATION	2587.88	2586.08	2585.18	2583.29	2583.09	2580.67	2575.77	2578.36	2575.15	2574.50
MAX DEPTH	0.11	0.20	0.18	0.19	0.11	0.20	0.46	0.11	0.15	0.13

VELOCITY	0.27	0.41	0.41	0.34	0.00	0.49	1.27	0.00	0.32	0.32
TIME	1.50	2.17	2.48	2.70	1.35	2.65	2.69	1.41	1.51	1.51
MAX VEL	0.27	0.83	0.42	0.34	0.28	0.98	1.28	0.30	0.32	0.32
DEPTH	0.10	0.20	0.18	0.19	0.11	0.19	0.46	0.10	0.15	0.12
TIME	1.51	2.18	2.49	2.71	1.36	2.35	2.69	1.42	1.52	1.52
NODE	4991	4992	4993	4994	4995	4996	4997	4998	4999	5000
ELEVATION	2573.35	2569.82	2567.03	2562.56	2561.83	2559.34	2556.82	2553.13	2552.01	2547.91
MAX DEPTH	0.11	0.12	0.15	0.25	0.15	0.13	0.11	0.20	0.17	0.18
VELOCITY	0.00	0.31	0.36	0.92	0.37	0.34	0.30	0.39	0.39	0.40
TIME	1.41	1.50	2.08	2.11	2.40	2.51	1.50	1.70	1.82	2.00
MAX VEL	0.30	0.31	0.36	0.93	0.37	0.34	0.30	0.78	0.39	0.40
DEPTH	0.11	0.12	0.15	0.25	0.15	0.13	0.11	0.20	0.17	0.18
TIME	1.42	1.51	2.08	2.11	2.40	2.52	1.51	1.71	1.83	2.00
NODE	5001	5002	5003	5004	5005	5006	5007	5008	5009	5010
ELEVATION	2545.74	2541.29	2541.04	2538.58	2535.66	2530.41	2530.93	2529.45	2527.81	2524.05
MAX DEPTH	0.14	0.22	0.12	0.12	0.15	0.27	0.11	0.11	0.11	0.11
VELOCITY	0.34	0.75	0.30	0.29	0.39	0.91	0.32	0.31	0.00	0.28
TIME	1.95	1.99	1.50	1.91	1.74	1.70	1.49	1.49	1.34	1.50
MAX VEL	0.34	0.76	0.30	0.29	0.39	0.92	0.32	0.31	0.28	0.28
DEPTH	0.14	0.22	0.12	0.12	0.15	0.27	0.11	0.11	0.10	0.11
TIME	1.95	1.54	1.52	1.52	1.89	1.71	1.50	1.50	1.35	1.51
NODE	5011	5012	5013	5014	5015	5016	5017	5018	5019	5020
ELEVATION	2520.16	2516.67	2513.69	2509.44	2505.20	2502.95	2497.85	2496.10	2495.06	2490.12
MAX DEPTH	0.16	0.15	0.14	0.20	0.20	0.11	0.32	0.47	0.12	0.11
VELOCITY	0.34	0.31	0.32	0.41	0.74	0.00	1.36	1.90	0.31	0.27
TIME	1.59	1.54	1.57	1.72	2.28	1.32	2.29	2.73	2.82	1.36
MAX VEL	0.34	0.31	0.32	0.41	0.74	0.31	1.38	1.90	0.31	0.27
DEPTH	0.16	0.15	0.14	0.20	0.20	0.10	0.31	0.46	0.12	0.10
TIME	1.60	1.56	1.60	1.81	2.28	1.34	2.30	2.73	2.82	1.38
NODE	5021	5022	5023	5024	5025	5026	5027	5028	5029	5030
ELEVATION	2486.01	2481.02	2475.87	2472.35	2466.75	2461.77	2455.66	2455.88	2455.61	2452.14
MAX DEPTH	0.11	0.12	0.13	0.20	0.37	0.46	0.66	0.22	0.11	0.11
VELOCITY	0.30	0.32	0.27	0.47	1.34	1.73	4.10	0.94	0.00	0.00
TIME	1.42	1.50	1.50	2.88	2.94	3.50	3.59	3.74	1.38	1.30
MAX VEL	0.30	0.32	0.28	0.47	1.34	1.73	4.27	0.94	0.35	0.29
DEPTH	0.11	0.12	0.13	0.20	0.37	0.46	0.65	0.22	0.10	0.10
TIME	1.43	1.51	1.52	2.88	2.94	3.10	3.59	3.75	1.43	1.35
NODE	5031	5032	5033	5034	5035	5036	5037	5038	5039	5040
ELEVATION	2448.94	2446.58	2444.55	2441.10	2437.80	2435.13	2432.07	2429.63	2425.20	2421.65
MAX DEPTH	0.16	0.20	0.11	0.20	0.21	0.13	0.15	0.12	0.20	0.21
VELOCITY	0.42	0.50	0.29	0.41	0.78	0.29	0.35	0.31	0.38	0.87
TIME	4.53	3.25	3.27	3.00	3.01	1.50	4.02	1.65	1.69	1.71
MAX VEL	0.42	1.01	0.29	0.83	0.78	0.29	0.35	0.31	0.76	0.87
DEPTH	0.16	0.20	0.11	0.20	0.20	0.13	0.15	0.12	0.20	0.20
TIME	4.53	3.26	3.28	3.00	3.02	1.52	4.05	1.65	1.72	1.72
NODE	5041	5042	5043	5044	5045	5046	5047	5048	5049	5050
ELEVATION	2419.54	2416.13	2412.95	2410.13	2405.93	2400.42	2400.20	2396.79	2395.12	2392.69
MAX DEPTH	0.21	0.15	0.19	0.13	0.18	0.42	0.20	0.15	0.12	0.11
VELOCITY	0.41	0.32	0.40	0.31	0.44	1.13	0.40	0.34	0.29	0.00
TIME	2.16	2.24	2.36	2.50	2.60	2.42	2.50	2.71	2.89	1.42
MAX VEL	0.84	0.32	0.40	0.31	0.44	1.13	0.40	0.34	0.29	0.26
DEPTH	0.20	0.15	0.19	0.13	0.18	0.41	0.20	0.15	0.12	0.11
TIME	2.17	2.25	2.37	2.50	2.63	2.43	2.50	2.63	1.51	1.43
NODE	5051	5052	5053	5054	5055	5056	5057	5058	5059	5060
ELEVATION	2390.11	2386.57	2381.99	2380.12	2376.25	2373.56	2370.16	2367.03	2364.41	2360.23
MAX DEPTH	0.11	0.11	0.23	0.12	0.23	0.15	0.16	0.20	0.20	0.23
VELOCITY	0.00	0.00	0.41	0.28	0.75	0.37	0.35	0.43	0.46	0.82
TIME	1.34	1.35	1.63	2.50	1.83	2.54	3.00	3.02	3.00	2.56
MAX VEL	0.25	0.28	0.67	0.28	0.77	0.37	0.35	0.87	0.92	0.83
DEPTH	0.10	0.10	0.20	0.12	0.22	0.15	0.16	0.19	0.20	0.23
TIME	1.35	1.36	2.08	2.50	1.87	2.92	3.00	2.47	3.01	2.56
NODE	5061	5062	5063	5064	5065	5066	5067	5068	5069	5070
ELEVATION	2357.50	2355.19	2351.70	2350.59	2348.52	2345.12	2342.65	2340.11	2335.99	2332.09
MAX DEPTH	0.20	0.19	0.21	0.13	0.11	0.12	0.11	0.11	0.11	0.22
VELOCITY	0.32	0.36	0.25	0.25	0.27	0.26	0.21	0.00	0.00	0.51
TIME	3.10	4.22	1.50	1.50	1.50	1.50	1.50	1.41	1.30	4.95
MAX VEL	0.64	0.36	0.54	0.25	0.27	0.26	0.21	0.31	0.27	0.51
DEPTH	0.20	0.19	0.20	0.13	0.11	0.12	0.11	0.10	0.11	0.22
TIME	4.47	4.22	2.08	1.51	1.51	1.52	1.49	1.42	1.31	4.94
NODE	5071	5072	5073	5074	5075	5076	5077	5078	5079	5080
ELEVATION	2330.64	2329.06	2601.68	2599.86	2599.30	2595.72	2596.42	2594.90	2594.21	2591.67
MAX DEPTH	0.64	4.06	0.14	0.20	0.17	0.34	0.15	0.21	0.17	0.21
VELOCITY	2.76	2.21	0.26	0.32	0.37	0.47	0.29	0.34	0.29	0.30
TIME	4.87	3.77	1.50	1.63	1.85	1.66	1.68	1.68	1.66	1.58
MAX VEL	2.86	3.39	0.26	0.31	0.37	0.98	0.29	0.34	0.29	0.55
DEPTH	0.62	3.97	0.13	0.20	0.17	0.34	0.15	0.21	0.17	0.21
TIME	4.93	4.81	1.54	1.68	1.77	1.71	1.73	1.72	1.69	1.63
NODE	5081	5082	5083	5084	5085	5086	5087	5088	5089	5090
ELEVATION	2589.91	2585.93	2585.98	2584.81	2584.16	2582.18	2580.16	2580.18	2579.43	2576.74
MAX DEPTH	0.24	0.46	0.18	0.23	0.20	0.24	0.35	0.18	0.17	0.13
VELOCITY	0.90	0.92	0.35	0.34	0.29	0.63	0.83	0.36	0.32	0.32
TIME	2.06	2.06	2.35	1.58	1.83	1.96	1.91	2.71	2.91	1.50
MAX VEL	0.91	0.93	0.35	0.33	0.57	0.64	0.85	0.37	0.32	0.32
DEPTH	0.24	0.45	0.18	0.22	0.20	0.24	0.34	0.18	0.17	0.11
TIME	2.07	2.07	2.25	1.63	1.77	1.97	2.91	2.73	2.90	2.91
NODE	5091	5092	5093	5094	5095	5096	5097	5098	5099	5100
ELEVATION	2572.36	2573.18	2571.87	2569.78	2568.58	2566.06	2563.19	2560.29	2556.87	2555.22
MAX DEPTH	0.63	0.24	0.20	0.21	0.16	0.17	0.16	0.22	0.34	0.22
VELOCITY	1.13	0.41	0.32	0.32	0.29	0.30	0.30	0.79	0.64	0.71
TIME	2.73	2.49	2.89	1.76	1.51	1.54	1.91	2.22	1.80	2.63
MAX VEL	1.13	0.46	0.32	0.32	0.29	0.30	0.30	0.79	0.90	0.71
DEPTH	0.63	0.23	0.20	0.21	0.16	0.17	0.16	0.22	0.34	0.22
TIME	2.73	2.53	2.88	1.77	1.58	1.60	1.92	2.23	2.23	2.64
NODE	5101	5102	5103	5104	5105	5106	5107	5108	5109	5110
ELEVATION	2552.34	2550.24	2547.85	2545.25	2541.73	2540.24	2537.00	2534.89	2533.07	2530.19
MAX DEPTH	0.23	0.24	0.27	0.25	0.29	0.24	0.32	0.29	0.20	0.19
VELOCITY	0.64	0.71	0.76	0.86	0.59	0.81	0.77	0.62	0.33	0.43
TIME	2.75	2.50	1.91	2.13	2.16	2.12	2.12	2.13	2.06	1.98
MAX VEL	0.64	0.71	0.77	0.86	0.59	0.81	0.77	0.62	0.33	0.43
DEPTH	0.23	0.24	0.27	0.25	0.29	0.24	0.32	0.29	0.20	0.19
TIME	2.76	2.50	2.01	2.14	2.15	2.14	2.15	2.16	2.18	1.98
NODE	5111	5112	5113	5114	5115	5116	5117	5118	5119	5120

ELEVATION	2525.35	2524.59	2523.41	2521.52	2518.11	2514.95	2511.74	2509.03	2505.13	2499.76
MAX DEPTH	0.35	0.25	0.17	0.12	0.15	0.17	0.18	0.13	0.13	0.17
VELOCITY	0.81	0.43	0.35	0.27	0.29	0.33	0.28	0.29	0.35	0.37
TIME	1.66	1.64	1.72	1.50	1.51	1.67	1.73	1.70	1.89	1.91
MAX VEL	0.81	0.44	0.35	0.26	0.29	0.33	0.28	0.29	0.35	0.38
DEPTH	0.35	0.24	0.17	0.12	0.15	0.17	0.18	0.13	0.13	0.17
TIME	1.66	1.66	1.73	1.53	1.55	1.70	1.76	1.83	1.90	1.92

NODE	5121	5122	5123	5124	5125	5126	5127	5128	5129	5130
ELEVATION	2495.43	2488.80	2490.25	2488.22	2484.26	2480.13	2475.15	2471.69	2468.76	2464.13
X DEPTH	0.26	0.91	0.25	0.11	0.13	0.13	0.15	0.14	0.11	0.16
LOCITY	1.23	1.32	0.55	0.26	0.30	0.33	0.30	0.29	0.00	0.42
ME	2.81	2.36	2.78	2.99	1.50	1.50	1.51	1.56	1.42	3.03
X VEL	1.23	3.68	1.05	0.26	0.30	0.33	0.30	0.29	0.30	0.42
DEPTH	0.26	0.85	0.25	0.11	0.13	0.13	0.15	0.14	0.10	0.16
TIME	2.76	2.32	2.79	1.43	1.51	1.52	1.56	1.51	1.30	3.01

NODE	5131	5132	5133	5134	5135	5136	5137	5138	5139	5140
ELEVATION	2460.17	2451.13	2449.51	2449.04	2445.20	2440.36	2441.08	2437.97	2435.23	2432.72
MAX DEPTH	0.17	0.87	1.28	0.20	0.20	0.36	0.10	0.13	0.23	0.27
VELOCITY	0.54	3.24	3.57	0.39	0.44	0.70	0.00	0.33	0.70	0.72
TIME	3.20	3.73	3.78	3.66	3.25	3.61	1.59	1.50	3.92	3.31
MAX VEL	0.54	3.27	3.57	0.79	0.89	1.30	0.43	0.35	0.71	0.72
DEPTH	0.17	0.86	1.28	0.20	0.20	0.34	0.10	0.12	0.23	0.27
TIME	3.21	3.74	3.81	3.79	3.49	4.02	4.33	3.49	3.92	3.31

NODE	5141	5142	5143	5144	5145	5146	5147	5148	5149	5150
ELEVATION	2430.11	2425.99	2422.86	2420.21	2415.34	2413.74	2410.77	2406.98	2404.14	2400.79
MAX DEPTH	0.21	0.21	0.21	0.21	0.34	0.27	0.22	0.25	0.20	0.13
VELOCITY	0.41	0.35	0.38	0.90	0.64	0.79	0.83	0.72	0.33	0.33
TIME	2.83	2.86	3.31	1.88	3.21	2.19	2.36	2.30	2.33	2.82
MAX VEL	0.82	0.72	0.66	0.89	0.80	0.79	0.83	0.73	0.66	0.33
DEPTH	0.20	0.20	0.20	0.20	0.33	0.27	0.22	0.25	0.20	0.13
TIME	2.85	3.69	3.40	1.89	2.09	2.27	2.37	2.30	4.44	2.83

NODE	5151	5152	5153	5154	5155	5156	5157	5158	5159	5160
ELEVATION	2396.13	2395.23	2391.06	2390.22	2387.13	2384.86	2380.37	2378.06	2375.17	2371.52
MAX DEPTH	0.49	0.22	0.34	0.22	0.16	0.12	0.17	0.20	0.17	0.20
VELOCITY	0.83	0.88	0.46	0.36	0.25	0.29	0.28	0.32	0.34	0.46
TIME	2.54	2.59	2.70	3.04	2.57	1.50	1.63	3.09	2.34	1.98
MAX VEL	0.83	0.89	0.84	0.37	0.25	0.29	0.28	0.46	0.34	0.94
DEPTH	0.49	0.22	0.34	0.22	0.16	0.11	0.17	0.20	0.17	0.20
TIME	2.54	2.63	2.72	2.90	2.56	1.52	1.70	3.34	2.35	1.89

NODE	5161	5162	5163	5164	5165	5166	5167	5168	5169	5170
ELEVATION	2366.25	2364.39	2360.48	2357.10	2355.33	2353.91	2350.63	2349.21	2346.43	2342.60
MAX DEPTH	0.32	0.24	0.28	0.33	0.33	0.20	0.26	0.26	0.20	0.20
VELOCITY	0.68	0.90	0.92	0.74	0.63	0.40	0.55	0.33	0.39	0.31
TIME	2.47	2.84	2.93	4.33	1.96	4.17	4.48	6.36	2.27	2.17
MAX VEL	0.69	0.90	0.93	1.21	1.32	0.73	0.55	0.69	0.79	0.62
DEPTH	0.32	0.24	0.28	0.33	0.32	0.20	0.26	0.22	0.20	0.20
TIME	2.52	2.85	2.94	3.10	5.07	4.47	4.48	4.34	2.28	1.99

NODE	5171	5172	5173	5174	5175	5176	5177	5178	5179	5180
ELEVATION	2340.30	2339.43	2335.79	2333.18	2330.23	2328.50	2596.14	2595.04	2593.93	2590.08
MAX DEPTH	0.30	0.11	0.13	0.10	0.23	1.80	0.03	0.04	0.05	0.08
VELOCITY	0.32	0.26	0.24	0.23	0.59	4.12	0.00	0.00	0.00	0.00
TIME	2.53	1.50	1.50	1.49	5.03	3.75	1.60	1.64	1.71	1.75
X VEL	0.37	0.26	0.24	0.23	0.60	7.23	0.00	0.00	0.00	0.00
TH	0.30	0.11	0.13	0.10	0.23	1.69	0.00	0.00	0.00	0.00
E	2.37	1.51	1.51	1.50	5.06	4.81	0.00	0.00	0.00	0.00

NODE	5181	5182	5183	5184	5185	5186	5187	5188	5189	5190
ELEVATION	2591.34	2589.55	2589.29	2587.44	2585.63	2582.52	2580.99	2580.05	2580.05	2578.80
MAX DEPTH	0.05	0.04	0.04	0.05	0.06	0.10	0.10	0.05	0.05	0.07
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	1.71	1.70	1.64	2.05	2.20	2.20	2.19	2.03	1.95	1.95
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	5191	5192	5193	5194	5195	5196	5197	5198	5199	5200
ELEVATION	2576.20	2574.11	2575.28	2571.78	2568.88	2570.12	2567.03	2565.04	2563.35	2561.74
MAX DEPTH	0.09	0.08	0.04	0.07	0.11	0.12	0.05	0.04	0.04	0.04
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	1.93	2.92	2.90	2.76	2.79	2.73	2.78	1.70	1.63	1.58
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	5201	5202	5203	5204	5205	5206	5207	5208	5209	5210
ELEVATION	2559.36	2556.55	2552.05	2550.26	2548.53	2546.69	2543.28	2542.13	2539.85	2536.34
MAX DEPTH	0.04	0.04	0.08	0.08	0.05	0.05	0.06	0.05	0.05	0.06
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	1.63	2.23	2.26	2.23	2.65	2.76	2.01	2.01	2.15	2.16
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	5211	5212	5213	5214	5215	5216	5217	5218	5219	5220
ELEVATION	2533.38	2530.07	2528.30	2526.68	2523.93	2520.20	2516.24	2517.33	2515.19	2511.95
MAX DEPTH	0.06	0.07	0.05	0.04	0.05	0.09	0.04	0.03	0.02	0.03
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	2.14	2.15	2.07	2.05	1.94	1.66	1.66	1.54	1.52	1.62
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	5221	5222	5223	5224	5225	5226	5227	5228	5229	5230
ELEVATION	2509.38	2505.33	2502.03	2498.65	2494.68	2488.42	2484.30	2485.00	2481.08	2478.58
MAX DEPTH	0.03	0.03	0.02	0.02	0.03	0.06	0.23	0.04	0.02	0.02
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	1.72	1.75	1.83	1.92	2.41	2.79	3.85	2.79	1.51	1.52
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	5231	5232	5233	5234	5235	5236	5237	5238	5239	5240
ATION	2473.81	2470.02	2466.45	2463.33	2459.35	2455.02	2450.48	2446.71	2439.09	2437.49
DEPTH	0.02	0.02	0.02	0.02	0.03	0.02	0.07	0.32	0.06	0.07
LOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	1.53	1.56	1.53	3.06	3.10	3.20	3.77	3.93	3.47	3.81
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	5241	5242	5243	5244	5245	5246	5247	5248	5249	5250
ELEVATION	2426.11	2433.86	2431.36	2429.98	2426.14	2423.96	2420.60	2416.77	2414.03	2410.09
MAX DEPTH	0.07	0.03	0.04	0.05	0.04	0.03	0.04	0.04	0.04	0.09
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.18	3.82	3.44	3.29	3.31	2.87	3.32	1.88	3.61	2.20
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	5251	5252	5253	5254	5255	5256	5257	5258	5259	5260
EVATION	2408.01	2405.04	2400.93	2398.33	2395.07	2392.58	2389.55	2385.08	2383.97	2380.85
X DEPTH	0.05	0.04	0.04	0.03	0.07	0.11	0.05	0.08	0.04	0.03
ELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	2.27	2.32	2.31	2.76	2.56	2.56	2.71	2.74	2.90	2.56
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	5261	5262	5263	5264	5265	5266	5267	5268	5269	5270
ELEVATION	2377.99	2375.04	2373.00	2369.86	2365.28	2360.74	2355.90	2355.33	2345.54	2351.04
MAX DEPTH	0.02	0.04	0.03	0.03	0.04	0.05	0.06	0.05	0.11	0.05
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	1.54	1.91	2.32	2.33	2.47	2.52	2.99	3.05	4.92	4.90
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	5271	5272	5273	5274	5275	5276	5277	5278	5279	5280
ELEVATION	2349.23	2346.21	2343.90	2341.85	2339.63	2335.86	2335.02	2332.28	2328.52	2327.76
MAX DEPTH	0.04	0.05	0.04	0.03	0.04	0.04	0.02	0.02	0.03	0.15
VELOCITY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	4.49	4.49	4.51	2.28	2.52	2.37	1.52	1.51	5.03	3.86
MAX VEL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DEPTH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TIME	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NODE	5281
ELEVATION	2322.41
MAX DEPTH	0.74
VELOCITY	0.00
TIME	4.81
MAX VEL	0.00
DEPTH	0.00
TIME	0.00

==========

MASS BALANCE INFLOW - OUTFLOW VOLUME

*** INFLOW (ACRE-FEET) ***

TOTAL RAINFALL 2.77 INCHES

	WATER
FALL VOLUME	1714.29
W HYDROGRAPH	475.84
INFLOW HYDROGRAPHS + RAINFALL	2190.13

*** OUTFLOW (ACRE-FT) ***

RAINFALL INTERCEPTION 0.20 INCHES

OVERLAND FLOW	WATER
WATER LOST TO INTERCEPTION	123.78
FLOODPLAIN STORAGE	895.95
FLOODPLAIN OUTFLOW HYDROGRAPH	1170.41
FLOODPLAIN OUTFLOW, INTERCEPTION & STORAGE	2190.13

*** TOTALS ***

TOTAL OUTFLOW FROM GRID SYSTEM 1170.41

TOTAL VOLUME OF OUTFLOW AND STORAGE 2190.13

THE MAXIMUM INUNDATED AREA IS: 7426.16 ACRES

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COMPUTER RUN TIME IS : 2931.32 SECS

ENTS:

HIS OUTPUT FILE WAS TERMINATED ON: 2/21/2000 AT: 16:23:18

Appendix IV: Hydraulic Calculations

HEC-RAS Analysis

HEC-RAS Version 2.0 April 1997
U.S. Army Corp of Engineers
Hydrologic Engineering Center
609 Second Street, Suite D
Davis, California 95616-4687
(916) 756-1104

```
X     X  XXXXXX    XXXX        XXXX       XX      XXXX
X     X  X        X    X       X   X     X  X     X
X     X  X        X            X   X    X    X    X
XXXXXXX  XXXX     X       XXX  XXXX     XXXXXX    XXXX
X     X  X        X            X  X     X    X        X
X     X  X        X    X       X   X    X    X        X
X     X  XXXXXX    XXXX        X    X   X    X   XXXXX
```

****

PROJECT DATA
Project Title: Blue Diamond Wash flow split
Project File : bdw.prj
Run Date and Time: 2/17/2000 4:38:04 PM

Project in English units

****

PLAN DATA

Plan Title: Plan 01
Plan File : c:\projects\clomr\ras\bdw.p01

Geometry Title: Geom 01
Geometry File : c:\projects\clomr\ras\bdw.g01

Flow Title : Flow 01
Flow File : c:\projects\clomr\ras\bdw.f01

Plan Summary Information:
Number of: Cross Sections = 18 Mulitple Openings = 0
Culverts = 0 Inline Weirs = 0
Bridges = 0

Computational Information
Water surface calculation tolerance = 0.01
Critical depth calculaton tolerance = 0.01
Maximum number of interations = 20
Maximum difference tolerance = 0.3
Flow tolerance factor = 0.001

Computational Flow Regime: Mixed Flow

****

FLOW DATA

Title: Flow 01
File : c:\projects\clomr\ras\bdw.f01

Data (cfs)

River	Reach	RS	PF#1
Wash1	Wash1	-1	1153
Wash1	DS Wash1	-12	630
Wash2	Wash2	-1	523

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
Wash1	Wash1	PF#1	Critical	
Wash1	DS Wash1	PF#1		Critical
Wash2	Wash2	PF#1		Critical

****

GEOMETRY DATA

Geometry Title: Geom 01
Geometry File : c:\projects\clomr\ras\bdw.g01

Reach Connection Table

River	Reach	Upstream Boundary	Downstream Boundary
Wash1	Wash1		split
Wash1	DS Wash1	split	
Wash2	Wash2	split	

JUNCTION INFORMATION

Name: split
Description:
Energy computation Method

Length across Junction River	Reach	Tributary River	Reach	Length	Angle
Wash1	Wash1	to Wash1	DS Wash1	68	
Wash1	Wash1	to Wash2	Wash2	97	

CROSS SECTION RIVER: Wash1
Wash1 RS: -1

Description:
Station Elevation Data num= 12

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
8.02	2716.67	16.96	2711.72	20.02	2711.23	42.57	2712.67	95.51	2711.71
115.74	2713.42	134.42	2713.24	166.8	2712.17	184.52	2712.45	241.33	2711.38
252.31	2710.41	293.42	2715.44						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
8.02	.03	8.02	.03	293.42	.03

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
8.020001	293.42	70	73	.1	.3

CROSS SECTION OUTPUT Profile #PF#1

W.S. Elev (ft)	2699.17	Element	Left OB	Channel / Right OB
Vel Head (ft)	0.47	Wt. n-Val.		0.030 /
E.G. Elev (ft)	2699.64	Reach Len. (ft)	91.00	101.00 / 117.00
Crit W.S. (ft)	2699.17	Flow Area (sq ft)		95.05 /
E.G. Slope (ft/ft)	0.013775	Area (sq ft)		95.05 /
Q Total (cfs)	523.00	Flow (cfs)		523.00 /
Top Width (ft)	102.84	Top Width (ft)		102.84 /
Vel Total (ft/s)	5.50	Avg. Vel. (ft/s)		5.50 /
Max Chl Dpth (ft)	1.96	Hydr. Depth (ft)		0.92 /
Conv. Total (cfs)	4456.1	Conv. (cfs)		4456.1 /
Length Wtd. (ft)	101.00	Wetted Per. (ft)		103.22 /
Min Ch El (ft)	2697.21	Shear (lb/sq ft)		0.79 /
Alpha	1.00	Stream Power (lb/ft s)		4.36 /
Frctn Loss (ft)	1.10	Cum Volume (acre-ft)		0.36 /
C & E Loss (ft)	0.04	Cum SA (acres)		0.41 /

Warning - The energy equation could not be balanced within the specified number of iterations. The program used critical depth for the water surface and continued on with the calculations.
Warning - The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
Warning - During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION RIVER: Wash1
REACH: Wash1 RS: -2

INPUT
Description:
Station Elevation Data num= 11

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2715.6	12.4	2715.57	39.25	2711.62	81.35	2710.49	115.32	2712.38
143.58	2711.27	182.21	2711.93	193.35	2710.91	235.91	2706.92	256.22	2707.01
279.82	2715.12								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.03	12.4	.03	279.82	.03

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
12.4	279.82	116	121	.1	.3

CROSS SECTION OUTPUT Profile #PF#1

W.S. Elev (ft)	2711.51	Element	Left OB	Channel / Right OB
Vel Head (ft)	0.29	Wt. n-Val.		0.030 /
E.G. Elev (ft)	2711.80	Reach Len. (ft)	116.00	121.00 / 127.00
Crit W.S. (ft)	2710.20	Flow Area (sq ft)		264.56 /
E.G. Slope (ft/ft)	0.003936	Area (sq ft)		264.56 /
Q Total (cfs)	1153.00	Flow (cfs)		1153.00 /
Top Width (ft)	158.26	Top Width (ft)		158.26 /
Vel Total (ft/s)	4.36	Avg. Vel. (ft/s)		4.36 /
Max Chl Dpth (ft)	4.59	Hydr. Depth (ft)		1.67 /
Conv. Total (cfs)	18378.8	Conv. (cfs)		18378.8 /
Length Wtd. (ft)	121.00	Wetted Per. (ft)		159.28 /
Min Ch El (ft)	2706.92	Shear (lb/sq ft)		0.41 /
Alpha	1.00	Stream Power (lb/ft s)		1.78 /
Frctn Loss (ft)	0.81	Cum Volume (acre-ft)		4.08 /
C & E Loss (ft)	0.02	Cum SA (acres)		3.82 /

Warning - Divided flow computed for this cross-section.
Warning - The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.
Note - Hydraulic jump has occurred between this cross section and the previous upstream section.

CROSS SECTION RIVER: Wash1
REACH: Wash1 RS: -3

INPUT
Description:
Station Elevation Data num= 12

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
5.6	2713.87	50	2710.15	78.39	2709.15	104.29	2709.36	117.05	2710.44
179.78	2708.63	184.07	2710.27	221.84	2709.98	240.06	2708.62	259.32	2708.81
288.31	2713.12	293.99	2714.31						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
5.6	.03	5.6	.03	288.31	.03

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
5.6	288.31	109	103	.1	.3

CROSS SECTION OUTPUT Profile #PF#1

W.S. Elev (ft)	2710.49	Element	Left OB	Channel / Right OB
Vel Head (ft)	0.48	Wt. n-Val.		0.030 /
E.G. Elev (ft)	2710.97	Reach Len. (ft)	109.00	103.00 / 97.00
Crit W.S. (ft)	2710.49	Flow Area (sq ft)		207.84 /
E.G. Slope (ft/ft)	0.013967	Area (sq ft)		207.84 /
Q Total (cfs)	1153.00	Flow (cfs)		1153.00 /
Top Width (ft)	224.70	Top Width (ft)		224.70 /
Vel Total (ft/s)	5.55	Avg. Vel. (ft/s)		5.55 /
Max Chl Dpth (ft)	1.87	Hydr. Depth (ft)		0.92 /
Conv. Total (cfs)	9756.3	Conv. (cfs)		9756.3 /
Length Wtd. (ft)	103.00	Wetted Per. (ft)		225.29 /
Min Ch El (ft)	2708.62	Shear (lb/sq ft)		0.80 /
Alpha	1.00	Stream Power (lb/ft s)		4.46 /
Frctn Loss (ft)	1.43	Cum Volume (acre-ft)		3.42 /
C & E Loss (ft)	0.01	Cum SA (acres)		3.29 /

Warning - The energy equation could not be balanced within the specified number of iterations. The

program selected the water surface that had the least amount of error between computed and assumed values.
Warning - The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
Warning - During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION RIVER: Wash1
REACH: Wash1 RS: -4

[illegible]T
[illegible]ription:
[illegible]ion Elevation Data num= 9

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
8.48	2711.9	29.97	2708.21	97.09	2707.5	126.76	2707.92	178.46	2707.52
225	2708.47	247.15	2706.97	275	2707.78	319.46	2712.37		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
8.48	.03	8.48	.03	319.46	.03

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
8.48 319.46 99 140 196 .1 .3

CROSS SECTION OUTPUT Profile #PF#1

W.S. Elev (ft)	2708.49	Element	Left OB	Channel / Right OB
Vel Head (ft)	0.64	Wt. n-Val.		0.030
E.G. Elev (ft)	2709.13	Reach Len. (ft)	99.00	140.00 / 196.00
Crit W.S. (ft)	2708.65	Flow Area (sq ft)		179.39
E.G. Slope (ft/ft)	0.026728	Area (sq ft)		179.39
Q Total (cfs)	1153.00	Flow (cfs)		1153.00
Top Width (ft)	253.54	Top Width (ft)		253.54
Vel Total (ft/s)	6.43	Avg. Vel. (ft/s)		6.43
Max Chl Dpth (ft)	1.52	Hydr. Depth (ft)		0.71
Conv. Total (cfs)	7052.6	Conv. (cfs)		7052.6
Length Wtd. (ft)	140.00	Wetted Per. (ft)		253.68
Min Ch El (ft)	2706.97	Shear (lb/sq ft)		1.18
Alpha	1.00	Stream Power (lb/ft s)		7.58
Frctn Loss (ft)	1.84	Cum Volume (acre-ft)		2.96
C & E Loss (ft)	0.02	Cum SA (acres)		2.73

Warning - The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.
Warning - The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
Warning - The parabolic search method failed to converge on critical depth. The program will try the cross section slice/secant method to find critical depth.
Note - Program found supercritical flow starting at this cross section.

CROSS SECTION RIVER: Wash1
REACH: Wash1 RS: -5

INPUT
[illegible]cription:
[illegible]ion Elevation Data num= 10

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
3.49	2710.61	17.81	2705.85	50	2706.7	60.43	2705.64	83.32	2704.97
136.73	2705.78	164.83	2706.75	171.89	2704.67	195.92	2704.34	287.5	2708.98

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
3.49	.03	3.49	.03	287.5	.03

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
3.49 287.5 82 78 78 .1 .3

CROSS SECTION OUTPUT Profile #PF#1

W.S. Elev (ft)	2706.48	Element	Left OB	Channel / Right OB
Vel Head (ft)	0.50	Wt. n-Val.		0.030
E.G. Elev (ft)	2706.98	Reach Len. (ft)	82.00	78.00 / 78.00
Crit W.S. (ft)	2706.48	Flow Area (sq ft)		202.85
E.G. Slope (ft/ft)	0.013228	Area (sq ft)		202.85
Q Total (cfs)	1153.00	Flow (cfs)		1153.00
Top Width (ft)	203.03	Top Width (ft)		203.03
Vel Total (ft/s)	5.68	Avg. Vel. (ft/s)		5.68
Max Chl Dpth (ft)	2.14	Hydr. Depth (ft)		1.00
Conv. Total (cfs)	10025.1	Conv. (cfs)		10025.1
Length Wtd. (ft)	78.00	Wetted Per. (ft)		203.53
Min Ch El (ft)	2704.34	Shear (lb/sq ft)		0.82
Alpha	1.00	Stream Power (lb/ft s)		4.68
Frctn Loss (ft)	1.02	Cum Volume (acre-ft)		2.35
C & E Loss (ft)	0.01	Cum SA (acres)		1.99

Warning - The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.
Warning - Divided flow computed for this cross-section.
Warning - The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
Warning - During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION RIVER: Wash1
REACH: Wash1 RS: -6

INPUT
[illegible]ription:
[illegible]on Elevation Data num= 11

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
6.6	2709.13	19.43	2704.23	41.63	2705.23	70.4	2703.74	87.35	2703.92
178.73	2703.38	185.94	2705.55	200	2705.31	205.14	2704.32	246.6	2707.78
279.03	2707.47								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
6.6	.03	6.6	.03	279.03	.03

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
6.6	279.03	130	141	159	.1	.3

CROSS SECTION OUTPUT Profile #PF#1

W.S. Elev (ft)	2704.95	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.76	Wt. n-Val.		0.030	
E.G. Elev (ft)	2705.70	Reach Len. (ft)	130.00	141.00	159.00
Crit W.S. (ft)	2705.11	Flow Area (sq ft)		165.08	
G. Slope (ft/ft)	0.019998	Area (sq ft)		165.08	
Total (cfs)	1153.00	Flow (cfs)		1153.00	
p Width (ft)	165.30	Top Width (ft)		165.30	
el Total (ft/s)	6.98	Avg. Vel. (ft/s)		6.98	
Max Chl Dpth (ft)	1.57	Hydr. Depth (ft)		1.00	
Conv. Total (cfs)	8153.3	Conv. (cfs)		8153.3	
Length Wtd. (ft)		Wetted Per. (ft)		165.79	
Min Ch El (ft)	2703.38	Shear (lb/sq ft)		1.24	
Alpha	1.00	Stream Power (lb/ft s)		8.68	
Frctn Loss (ft)	1.25	Cum Volume (acre-ft)		2.02	
C & E Loss (ft)	0.03	Cum SA (acres)		1.66	

Warning - Divided flow computed for this cross-section.
Warning - The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.

CROSS SECTION RIVER: Wash1
REACH: Wash1 RS: -7

INPUT
Description:
Station Elevation Data num= 16

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
6.3	2706.41	16.54	2702.58	50	2700.79	70.07	2703.27	92.11	2701.84
111.31	2701.68	137.65	2702.25	147.78	2703.61	192.36	2702.43	210.67	2703.67
226.69	2702.39	230.03	2703.13	254.3	2704.1	261.18	2704.55	292.28	2702.89
353.64	2704.31								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
6.3	.03	6.3	.03	353.64	.03

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
6.3	353.64	76	65	53	.1	.3

CROSS SECTION OUTPUT Profile #PF#1

W.S. Elev (ft)	2703.62	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.27	Wt. n-Val.		0.030	
E.G. Elev (ft)	2703.89	Reach Len. (ft)	76.00	65.00	53.00
Crit W.S. (ft)		Flow Area (sq ft)		276.76	
E.G. Slope (ft/ft)	0.006950	Area (sq ft)		276.76	
Q Total (cfs)	1153.00	Flow (cfs)		1153.00	
Top Width (ft)	272.32	Top Width (ft)		272.32	
Vel Total (ft/s)	4.17	Avg. Vel. (ft/s)		4.17	
Chl Dpth (ft)	2.83	Hydr. Depth (ft)		1.02	
v. Total (cfs)	13830.8	Conv. (cfs)		13830.8	
gth Wtd. (ft)	65.00	Wetted Per. (ft)		273.08	
Ch El (ft)	2700.79	Shear (lb/sq ft)		0.44	
Alpha	1.00	Stream Power (lb/ft s)		1.83	
Frctn Loss (ft)	0.61	Cum Volume (acre-ft)		1.31	
C & E Loss (ft)	0.02	Cum SA (acres)		0.95	

Warning - Divided flow computed for this cross-section.
Note - Hydraulic jump has occurred between this cross section and the previous upstream section.

CROSS SECTION RIVER: Wash1
REACH: Wash1 RS: -8

INPUT
Description:
Station Elevation Data num= 10

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
3.42	2705.45	37.14	2699.96	53.37	2702.41	81.16	2702.45	97.15	2701.3
187.13	2701.7	212.42	2703.03	221.85	2702.21	229.46	2702.19	235.37	2703.72

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
3.42	.03	3.42	.03	235.37	.03

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
3.42	235.37	37	39	45	.1	.3

CROSS SECTION OUTPUT Profile #PF#1

W.S. Elev (ft)	2702.76	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.50	Wt. n-Val.		0.030	
E.G. Elev (ft)	2703.26	Reach Len. (ft)	37.00	39.00	45.00
Crit W.S. (ft)	2702.75	Flow Area (sq ft)		203.16	
E.G. Slope (ft/ft)	0.013199	Area (sq ft)		203.16	
Q Total (cfs)	1153.00	Flow (cfs)		1153.00	
Top Width (ft)	203.38	Top Width (ft)		203.38	
Vel Total (ft/s)	5.68	Avg. Vel. (ft/s)		5.68	
Max Chl Dpth (ft)	2.80	Hydr. Depth (ft)		1.00	
Conv. Total (cfs)	10036.1	Conv. (cfs)		10036.1	
Length Wtd. (ft)	39.00	Wetted Per. (ft)		203.96	
Min Ch El (ft)	2699.96	Shear (lb/sq ft)		0.82	
Alpha	1.00	Stream Power (lb/ft s)		4.66	
Frctn Loss (ft)	0.52	Cum Volume (acre-ft)		0.95	
C & E Loss (ft)	0.00	Cum SA (acres)		0.60	

- Divided flow computed for this cross-section.

CROSS SECTION RIVER: Wash1
REACH: Wash1 RS: -9

INPUT
Description:
Station Elevation Data num= 16

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev

```
      0    2704    3.72 2704.09    8.98 2699.41   26.22 2699.64   47.37 2702.96
  60.67  2701.3   71.72 2701.27    87.7 2702.11   97.31 2700.74  116.53 2700.71
 134.54 2701.36  153.3 2700.88  210.31 2703.22  217.22 2701.86  226.67 2701.85
 233.15 2703.89

Manning's n Values        num=       3
     Sta   n Val     Sta   n Val     Sta   n Val
*****************************************
       0     .03    3.72     .03  233.15     .03

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
          3.72  233.15                 56      59       66             .1       .3

CROSS SECTION OUTPUT    Profile #PF#1
*****************************************************************************************
* W.S. Elev (ft)         *  2702.20 * Element               *  Left OB *  Channel * Right OB *
* Vel Head (ft)          *     0.54 * Wt. n-Val.            *          *    0.030 *          *
* E.G. Elev (ft)         *  2702.74 * Reach Len. (ft)       *    56.00 *    59.00 *    66.00 *
* Crit W.S. (ft)         *  2702.20 * Flow Area (sq ft)     *          *   194.83 *          *
* E.G. Slope (ft/ft)     * 0.013086 * Area (sq ft)          *          *   194.83 *          *
* Q Total (cfs)          *  1153.00 * Flow (cfs)            *          *  1153.00 *          *
* Top Width (ft)         *   180.96 * Top Width (ft)        *          *   180.96 *          *
* Vel Total (ft/s)       *     5.92 * Avg. Vel. (ft/s)      *          *     5.92 *          *
* Max Chl Dpth (ft)      *     2.79 * Hydr. Depth (ft)      *          *     1.08 *          *
* Conv. Total (cfs)      *  10079.2 * Conv. (cfs)           *          *  10079.2 *          *
* Length Wtd. (ft)       *    59.00 * Wetted Per. (ft)      *          *   182.53 *          *
* Min Ch El (ft)         *  2699.41 * Shear (lb/sq ft)      *          *     0.87 *          *
* Alpha                  *     1.00 * Stream Power (lb/ft s) *          *     5.16 *          *
* Frctn Loss (ft)        *     0.79 * Cum Volume (acre-ft)  *          *     0.77 *          *
* C & E Loss (ft)        *     0.01 * Cum SA (acres)        *          *     0.43 *          *
*****************************************************************************************

Warning - The energy equation could not be balanced within the specified number of iterations.  The
          program selected the water surface that had the least amount of error between computed
          and assumed values.
Warning - Divided flow computed for this cross-section.
Warning - The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross
          section.  This may indicate the need for additional cross sections.
Warning - During the standard step iterations, when the assumed water surface was set equal to
          critical depth, the calculated water surface came back below critical depth.  This indicates
          that there is not a valid subcritical answer.  The program defaulted to critical depth.

CROSS SECTION          RIVER: Wash1
REACH: Wash1             RS: -10

INPUT
Description:
Station Elevation Data    num=      14
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
*********************************************************************************
     4.1 2702.27   19.78 2698.84   22.56 2698.84    39.6 2701.17   53.84 2699.74
   84.91 2701.33  108.33 2699.64   131.2 2699.94  138.25 2700.85  183.68 2699.29
  202.43 2701.27     225 2701.12  229.02 2701.86  258.46 2701.87

Manning's n Values        num=       3
     Sta   n Val     Sta   n Val     Sta   n Val
*****************************************
     4.1     .03     4.1     .03  258.46     .03

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
          4.1  258.46                 52      56       57             .1       .3

CROSS SECTION OUTPUT    Profile #PF#1
*****************************************************************************************
* W.S. Elev (ft)         *  2701.06 * Element               *  Left OB *  Channel * Right OB *
* Vel Head (ft)          *     0.72 * Wt. n-Val.            *          *    0.030 *          *
* E.G. Elev (ft)         *  2701.78 * Reach Len. (ft)       *    52.00 *    56.00 *    57.00 *
* Crit W.S. (ft)         *  2701.24 * Flow Area (sq ft)     *          *   168.94 *          *
* E.G. Slope (ft/ft)     * 0.020770 * Area (sq ft)          *          *   168.94 *          *
* Q Total (cfs)          *  1153.00 * Flow (cfs)            *          *  1153.00 *          *
* Top Width (ft)         *   179.99 * Top Width (ft)        *          *   179.99 *          *
* Vel Total (ft/s)       *     6.82 * Avg. Vel. (ft/s)      *          *     6.82 *          *
* Max Chl Dpth (ft)      *     2.22 * Hydr. Depth (ft)      *          *     0.94 *          *
* Conv. Total (cfs)      *   8000.5 * Conv. (cfs)           *          *   8000.5 *          *
* Length Wtd. (ft)       *    56.00 * Wetted Per. (ft)      *          *   180.71 *          *
* Min Ch El (ft)         *  2698.84 * Shear (lb/sq ft)      *          *     1.21 *          *
* Alpha                  *     1.00 * Stream Power (lb/ft s) *          *     8.27 *          *
* Frctn Loss (ft)        *     0.96 * Cum Volume (acre-ft)  *          *     0.52 *          *
* C & E Loss (ft)        *     0.02 * Cum SA (acres)        *          *     0.18 *          *
*****************************************************************************************

Warning - Divided flow computed for this cross-section.
Note - Program found supercritical flow starting at this cross section.

CROSS SECTION          RIVER: Wash1
REACH: Wash1             RS: -11

INPUT
Description:
Station Elevation Data    num=      15
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
*********************************************************************************
    2.63 2701.93   12.37 2698.63   29.97 2698.17   40.56 2698.49   46.21 2699.94
   69.34  2700.5   84.27 2699.36  113.15 2698.24   122.1 2699.51  143.58 2700.12
  154.93  2700.2  202.88 2698.47  209.61 2700.76  228.43 2699.93  237.33  2701.1

Manning's n Values        num=       3
     Sta   n Val     Sta   n Val     Sta   n Val
*****************************************
    2.63     .03    2.63     .03  237.33     .03

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
          2.63  237.33                 67      68       69             .1       .3

CROSS SECTION OUTPUT    Profile #PF#1
*****************************************************************************************
* W.S. Elev (ft)         *  2700.28 * Element               *  Left OB *  Channel * Right OB *
* Vel Head (ft)          *     0.57 * Wt. n-Val.            *          *    0.030 *          *
* E.G. Elev (ft)         *  2700.85 * Reach Len. (ft)       *    68.00 *    68.00 *    68.00 *
* Crit W.S. (ft)         *  2700.34 * Flow Area (sq ft)     *          *   190.46 *          *
* E.G. Slope (ft/ft)     * 0.015984 * Area (sq ft)          *          *   190.46 *          *
* Q Total (cfs)          *  1153.00 * Flow (cfs)            *          *  1153.00 *          *
* Top Width (ft)         *   199.38 * Top Width (ft)        *          *   199.38 *          *
* Vel Total (ft/s)       *     6.05 * Avg. Vel. (ft/s)      *          *     6.05 *          *
* Max Chl Dpth (ft)      *     2.11 * Hydr. Depth (ft)      *          *     0.96 *          *
* Conv. Total (cfs)      *   9119.9 * Conv. (cfs)           *          *   9119.9 *          *
* Length Wtd. (ft)       *          * Wetted Per. (ft)      *          *   200.37 *          *
* Min Ch El (ft)         *  2698.17 * Shear (lb/sq ft)      *          *     0.95 *          *
```

* Alpha	*	1.00	* Stream Power (lb/ft s)	*	*	5.74	*
* Frctn Loss (ft)	*	0.93	* Cum Volume (acre-ft)	*	*	0.35	*
* C & E Loss (ft)	*	0.06	* Cum SA (acres)	*	*		*

Warning - The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.
Warning - Divided flow computed for this cross-section.

S SECTION RIVER: Wash1
H: DS Wash1 RS: -12

INPUT
Description:
Station Elevation Data num= 11

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2.25	2700.88	14.14	2697.73	39.43	2696.28	50	2698.64	65.08	2697.7
73.02	2698.34	78.37	2697.82	81.52	2698.43	89.43	2698.47	114.84	2699.79
130.98	2699.56								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
2.25	.03	2.25	.03	130.98	.03

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
2.25	130.98	53	61	69	.1	.3

CROSS SECTION OUTPUT Profile #PF#1

* W.S. Elev (ft)	* 2698.79	* Element	* Left OB	* Channel	* Right OB	*
* Vel Head (ft)	* 0.83	* Wt. n-Val.	*	* 0.030	*	*
* E.G. Elev (ft)	* 2699.62	* Reach Len. (ft)	* 53.00	* 61.00	* 69.00	*
* Crit W.S. (ft)	* 2698.98	* Flow Area (sq ft)	*	* 86.11	*	*
* E.G. Slope (ft/ft)	* 0.021774	* Area (sq ft)	*	* 86.11	*	*
* Q Total (cfs)	* 630.00	* Flow (cfs)	*	* 630.00	*	*
* Top Width (ft)	* 85.38	* Top Width (ft)	*	* 85.38	*	*
* Vel Total (ft/s)	* 7.32	* Avg. Vel. (ft/s)	*	* 7.32	*	*
* Max Chl Dpth (ft)	* 2.51	* Hydr. Depth (ft)	*	* 1.01	*	*
* Conv. Total (cfs)	* 4269.5	* Conv. (cfs)	*	* 4269.5	*	*
* Length Wtd. (ft)	* 61.00	* Wetted Per. (ft)	*	* 85.97	*	*
* Min Ch El (ft)	* 2696.28	* Shear (lb/sq ft)	*	* 1.36	*	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 9.96	*	*
* Frctn Loss (ft)	* 1.21	* Cum Volume (acre-ft)	*	* 0.48	*	*
* C & E Loss (ft)	* 0.03	* Cum SA (acres)	*	* 0.34	*	*

Warning - The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.
Warning - The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.

CROSS SECTION RIVER: Wash1
REACH: DS Wash1 RS: -13

UT
ription:
on Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
5.02	2699.9	21.6	2697.01	38.65	2695.85	62.59	2696.96	70.81	2695.98
94.06	2698.32	114.18	2698.51						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
5.02	.03	5.02	.03	114.18	.03

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
5.02	114.18	101	94	89	.1	.3

CROSS SECTION OUTPUT Profile #PF#1

* W.S. Elev (ft)	* 2697.92	* Element	* Left OB	* Channel	* Right OB	*
* Vel Head (ft)	* 0.68	* Wt. n-Val.	*	* 0.030	*	*
* E.G. Elev (ft)	* 2698.61	* Reach Len. (ft)	* 101.00	* 94.00	* 89.00	*
* Crit W.S. (ft)	* 2697.94	* Flow Area (sq ft)	*	* 94.96	*	*
* E.G. Slope (ft/ft)	* 0.012880	* Area (sq ft)	*	* 94.96	*	*
* Q Total (cfs)	* 630.00	* Flow (cfs)	*	* 630.00	*	*
* Top Width (ft)	* 73.77	* Top Width (ft)	*	* 73.77	*	*
* Vel Total (ft/s)	* 6.63	* Avg. Vel. (ft/s)	*	* 6.63	*	*
* Max Chl Dpth (ft)	* 2.07	* Hydr. Depth (ft)	*	* 1.29	*	*
* Conv. Total (cfs)	* 5551.1	* Conv. (cfs)	*	* 5551.1	*	*
* Length Wtd. (ft)	* 94.00	* Wetted Per. (ft)	*	* 74.07	*	*
* Min Ch El (ft)	* 2695.85	* Shear (lb/sq ft)	*	* 1.03	*	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 6.84	*	*
* Frctn Loss (ft)	* 0.98	* Cum Volume (acre-ft)	*	* 0.35	*	*
* C & E Loss (ft)	* 0.05	* Cum SA (acres)	*	* 0.23	*	*

Warning - The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.
Warning - The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.

CROSS SECTION RIVER: Wash1
REACH: DS Wash1 RS: -14

INPUT
Description:
Station Elevation Data num= 5

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
6.5	2697.84	25	2694.47	53.27	2694.48	103.97	2697.85	120.39	2697.73

ıg's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
6.5	.03	6.5	.03	120.39	.03

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
6.5	120.39	47	46	40	.1	.3

CROSS SECTION OUTPUT Profile #PF#1

W.S. Elev (ft)	2696.88	Element	Left OB	Channel	Right OB	
Vel Head (ft)	0.38	Wt. n-Val.		0.030		
E.G. Elev (ft)	2697.26	Reach Len. (ft)	47.00	46.00	40.00	
Crit W.S. (ft)		Flow Area (sq ft)		127.53		
E.G. Slope (ft/ft)	0.005162	Area (sq ft)		127.53		
Q Total (cfs)	630.00	Flow (cfs)		630.00		
Top Width (ft)	77.68	Top Width (ft)		77.68		
Vel Total (ft/s)	4.94	Avg. Vel. (ft/s)		4.94		
Max Chl Dpth (ft)	2.41	Hydr. Depth (ft)		1.64		
Conv. Total (cfs)	8768.9	Conv. (cfs)		8768.9		
ngth Wtd. (ft)	46.00	Wetted Per. (ft)		77.98		
n Ch El (ft)	2694.47	Shear (lb/sq ft)		0.53		
pha	1.00	Stream Power (lb/ft s)		2.60		
Frctn Loss (ft)	0.34	Cum Volume (acre-ft)		0.11		
C & E Loss (ft)	0.05	Cum SA (acres)		0.07		

Warning - The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.
Note - Hydraulic jump has occurred between this cross section and the previous upstream section.

CROSS SECTION RIVER: Wash1
REACH: DS Wash1 RS: -15

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
4.15	2697.24	20.7	2693.8	42.75	2693.91	61.1	2695.37

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
4.15	.03	4.15	.03	61.1	.03

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
4.15	61.1	0	0	.1	.3

CROSS SECTION OUTPUT Profile #PF#1

W.S. Elev (ft)	2696.03	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.85	Wt. n-Val.		0.030	
E.G. Elev (ft)	2696.87	Reach Len. (ft)			
Crit W.S. (ft)	2696.03	Flow Area (sq ft)		85.33	
E.G. Slope (ft/ft)	0.011499	Area (sq ft)		85.33	
Q Total (cfs)	630.00	Flow (cfs)		630.00	
Top Width (ft)	51.12	Top Width (ft)		51.12	
Vel Total (ft/s)	7.38	Avg. Vel. (ft/s)		7.38	
Max Chl Dpth (ft)	2.23	Hydr. Depth (ft)		1.67	
Conv. Total (cfs)	5875.0	Conv. (cfs)		5875.0	
Length Wtd. (ft)		Wetted Per. (ft)		52.06	
Min Ch El (ft)	2693.80	Shear (lb/sq ft)		1.18	
Alpha	1.00	Stream Power (lb/ft s)		8.69	
Frctn Loss (ft)		Cum Volume (acre-ft)			
C & E Loss (ft)		Cum SA (acres)			

S SECTION RIVER: Wash2
(: Wash2 RS: -1

JT
Description:
Station Elevation Data num= 10

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2699.4	11.26	2699.72	33.17	2697.78	57.93	2698.53	63.4	2698.42
81.67	2699.04	101.83	2697.21	116.05	2697.87	122.51	2699.85	135.71	2700.12

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.03	0	.03	135.71	.03

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	135.71	91	101	.1	.3

CROSS SECTION OUTPUT Profile #PF#1

W.S. Elev (ft)	2699.17	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.47	Wt. n-Val.		0.030	
E.G. Elev (ft)	2699.64	Reach Len. (ft)	91.00	101.00	117.00
Crit W.S. (ft)	2699.17	Flow Area (sq ft)		95.05	
E.G. Slope (ft/ft)	0.013775	Area (sq ft)		95.05	
Q Total (cfs)	523.00	Flow (cfs)		523.00	
Top Width (ft)	102.84	Top Width (ft)		102.84	
Vel Total (ft/s)	5.50	Avg. Vel. (ft/s)		5.50	
Max Chl Dpth (ft)	1.96	Hydr. Depth (ft)		0.92	
Conv. Total (cfs)	4456.1	Conv. (cfs)		4456.1	
Length Wtd. (ft)	101.00	Wetted Per. (ft)		103.22	
Min Ch El (ft)	2697.21	Shear (lb/sq ft)		0.79	
Alpha	1.00	Stream Power (lb/ft s)		4.36	
Frctn Loss (ft)	1.10	Cum Volume (acre-ft)		0.36	
C & E Loss (ft)	0.04	Cum SA (acres)		0.41	

Warning - The energy equation could not be balanced within the specified number of iterations. The program used critical depth for the water surface and continued on with the calculations.
Warning - The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
Warning - During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION RIVER: Wash2
REACH: Wash2 RS: -2

iption:
ion Elevation Data num= 8

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2697.85	2.37	2697.84	10.9	2695.74	52.8	2696.63	79.09	2697.88
91.94	2696.17	115.2	2696	128.1	2698.3				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val

```
       0      .03        0      .03    128.1      .03

 Bank Sta: Left   Right    Lengths: Left Channel   Right      Coeff Contr.    Expan.
              0   128.1                 95       80        60              .1       .3
```

CROSS SECTION OUTPUT Profile #PF#1

* W.S. Elev (ft)	* 2697.14	* Element	* Left OB	* Channel	* Right OB *
* Vel Head (ft)	* 0.70	* Wt. n-Val.	*	* 0.030	* *
* E.G. Elev (ft)	* 2697.83	* Reach Len. (ft)	* 95.00	* 80.00	* 60.00 *
* Crit W.S. (ft)	* 2697.31	* Flow Area (sq ft)	*	* 78.05	* *
* E.G. Slope (ft/ft)	* 0.023937	* Area (sq ft)	*	* 78.05	* *
* Total (cfs)	* 523.00	* Flow (cfs)	*	* 523.00	* *
* Top Width (ft)	* 95.10	* Top Width (ft)	*	* 95.10	* *
* Vel Total (ft/s)	* 6.70	* Avg. Vel. (ft/s)	*	* 6.70	* *
* Max Chl Dpth (ft)	* 1.40	* Hydr. Depth (ft)	*	* 0.82	* *
* Conv. Total (cfs)	* 3380.4	* Conv. (cfs)	*	* 3380.4	* *
* Length Wtd. (ft)	* 80.00	* Wetted Per. (ft)	*	* 95.45	* *
* Min Ch El (ft)	* 2695.74	* Shear (lb/sq ft)	*	* 1.22	* *
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 8.19	* *
* Frctn Loss (ft)	* 1.79	* Cum Volume (acre-ft)	*	* 0.16	* *
* C & E Loss (ft)	* 0.02	* Cum SA (acres)	*	* 0.18	* *

Warning - Divided flow computed for this cross-section.
Warning - The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.

CROSS SECTION RIVER: Wash2
REACH: Wash2 RS: -3

INPUT
Description:
Station Elevation Data num= 9

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2696.79	1.33	2696.79	10.58	2695.19	72.72	2695.98	85.97	2697.29
120.8	2697.44	135.15	2695.01	153.85	2695.07	160.5	2697.91		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.03	0	.03	160.5	.03

```
 Bank Sta: Left   Right    Lengths: Left Channel   Right      Coeff Contr.    Expan.
              0   160.5                  0        0         0              .1       .3
```

CROSS SECTION OUTPUT Profile #PF#1

* W.S. Elev (ft)	* 2696.47	* Element	* Left OB	* Channel	* Right OB *
* Vel Head (ft)	* 0.46	* Wt. n-Val.	*	* 0.030	* *
* E.G. Elev (ft)	* 2696.93	* Reach Len. (ft)	* 68.00	* 68.00	* 68.00 *
* Crit W.S. (ft)	* 2696.47	* Flow Area (sq ft)	*	* 96.02	* *
* E.G. Slope (ft/ft)	* 0.013727	* Area (sq ft)	*	* 96.02	* *
* Q Total (cfs)	* 523.00	* Flow (cfs)	*	* 523.00	* *
* Top Width (ft)	* 105.04	* Top Width (ft)	*	* 105.04	* *
* Vel Total (ft/s)	* 5.45	* Avg. Vel. (ft/s)	*	* 5.45	* *
* Max Chl Dpth (ft)	* 1.46	* Hydr. Depth (ft)	*	* 0.91	* *
* Conv. Total (cfs)	* 4463.9	* Conv. (cfs)	*	* 4463.9	* *
* Length Wtd. (ft)	* 68.00	* Wetted Per. (ft)	*	* 105.58	* *
* Min Ch El (ft)	* 2695.01	* Shear (lb/sq ft)	*	* 0.78	* *
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 4.24	* *
* Frctn Loss (ft)	*	* Cum Volume (acre-ft)	*	*	* *
* C & E Loss (ft)	*	* Cum SA (acres)	*	*	* *

Warning - Divided flow computed for this cross-section.

SUMMARY OF MANNING'S N VALUES

River:Wash1

Reach	River Sta.	n1	n2	n3
Wash1	-1	.03	.03	.03
Wash1	-2	.03	.03	.03
Wash1	-3	.03	.03	.03
Wash1	-4	.03	.03	.03
Wash1	-5	.03	.03	.03
Wash1	-6	.03	.03	.03
Wash1	-7	.03	.03	.03
Wash1	-8	.03	.03	.03
Wash1	-9	.03	.03	.03
Wash1	-10	.03	.03	.03
Wash1	-11	.03	.03	.03
DS Wash1	-12	.03	.03	.03
DS Wash1	-13	.03	.03	.03
DS Wash1	-14	.03	.03	.03
DS Wash1	-15	.03	.03	.03

River:Wash2

Reach	River Sta.	n1	n2	n3
Wash2	-1	.03	.03	.03
Wash2	-2	.03	.03	.03
Wash2	-3	.03	.03	.03

SUMMARY OF REACH LENGTHS

River: Wash1

Reach	River Sta.	Left	Channel	Right
Wash1	-1	70	73	75
Wash1	-2	116	121	127
Wash1	-3	109	103	97
Wash1	-4	99	140	196
Wash1	-5	82	78	78
Wash1	-6	130	141	159
Wash1	-7	76	65	53
Wash1	-8	37	39	45

*Wash1	-9	56*	59*	66*
*Wash1	-10	52*	56*	57*
*Wash1	-11	67*	68*	69*
*DS Wash1	-12	53*	61*	69*
*DS Wash1	-13	101*	94*	89*
*DS Wash1	-14	47*	46*	40*
*DS Wash1	-15	0*	0*	0*

River: Wash2

Reach	River Sta.	Left	Channel	Right
ash2	-1	91*	101*	117*
*Wash2	-2	95*	80*	60*
*Wash2	-3	0*	0*	0*

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: Wash1

Reach	River Sta.	Contr.	Expan.
*Wash1	-1	.1*	.3*
*Wash1	-2	.1*	.3*
*Wash1	-3	.1*	.3*
*Wash1	-4	.1*	.3*
*Wash1	-5	.1*	.3*
*Wash1	-6	.1*	.3*
*Wash1	-7	.1*	.3*
*Wash1	-8	.1*	.3*
*Wash1	-9	.1*	.3*
*Wash1	-10	.1*	.3*
*Wash1	-11	.1*	.3*
*DS Wash1	-12	.1*	.3*
*DS Wash1	-13	.1*	.3*
*DS Wash1	-14	.1*	.3*
*DS Wash1	-15	.1*	.3*

River: Wash2

Reach	River Sta.	Contr.	Expan.
*Wash2	-1	.1*	.3*
*Wash2	-2	.1*	.3*
*Wash2	-3	.1*	.3*

Profile Output Table - Standard Table 1

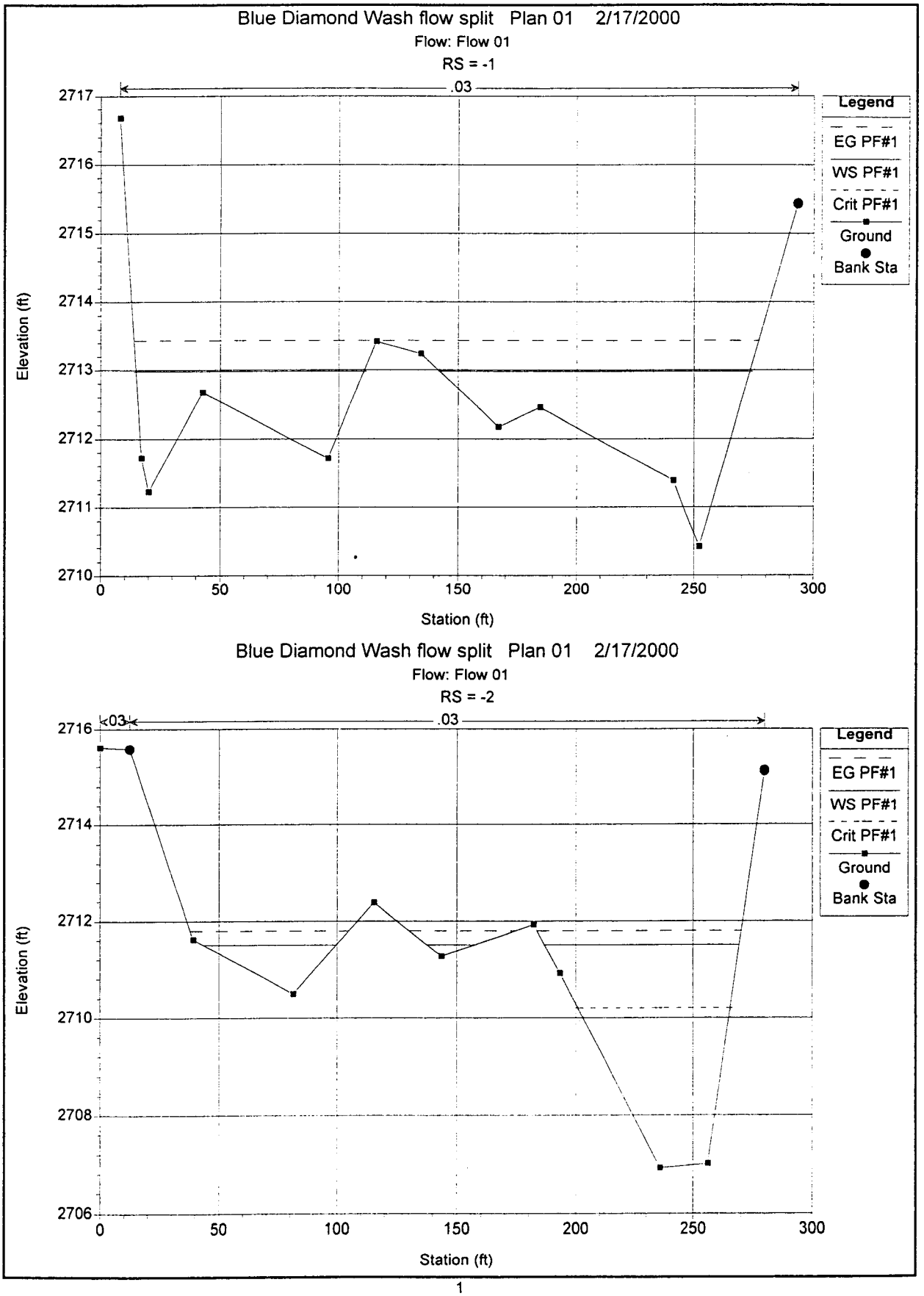
River	Reach	River Sta	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
* Wash2	* Wash2	* -1	523.00	2697.21	2699.17	2699.17	2699.64	0.013775	5.50	95.05	102.84	1.01
* Wash2	* Wash2	* -2	523.00	2695.74	2697.14	2697.31	2697.83	0.023937	6.70	78.05	95.10	1.30
* Wash2	* Wash2	* -3	523.00	2695.01	2696.47	2696.47	2696.93	0.013727	5.45	96.02	105.04	1.00
* Wash1	* Wash1	* -1	1153.00	2710.41	2712.98	2712.98	2713.44	0.013186	5.43	212.27	226.75	0.99
* Wash1	* Wash1	* -2	1153.00	2706.92	2711.51	2710.20	2711.80	0.003936	4.36	264.56	158.26	0.59
* Wash1	* Wash1	* -3	1153.00	2708.62	2710.49	2710.49	2710.97	0.013967	5.55	207.84	224.70	1.02
* Wash1	* Wash1	* -4	1153.00	2706.97	2708.49	2708.65	2709.13	0.026728	6.43	179.39	253.54	1.35
* Wash1	* Wash1	* -5	1153.00	2704.34	2706.48	2706.48	2706.98	0.013228	5.68	202.85	203.03	1.00
* Wash1	* Wash1	* -6	1153.00	2703.38	2704.95	2705.11	2705.70	0.019998	6.98	165.08	165.30	1.23
* Wash1	* Wash1	* -7	1153.00	2700.79	2703.62		2703.89	0.006950	4.17	276.76	272.32	0.73
* Wash1	* Wash1	* -8	1153.00	2699.96	2702.76	2702.75	2703.26	0.013199	5.68	203.16	203.38	1.00
* Wash1	* Wash1	* -9	1153.00	2699.41	2702.20	2702.20	2702.74	0.013086	5.92	194.83	180.96	1.01
* Wash1	* Wash1	* -10	1153.00	2698.84	2701.06	2701.24	2701.78	0.020770	6.82	168.94	179.99	1.24
* Wash1	* Wash1	* -11	1153.00	2698.17	2700.28	2700.34	2700.85	0.015984	6.05	190.46	199.38	1.09
* Wash1	* DS Wash1	* -12	630.00	2696.28	2698.79	2698.98	2699.62	0.021774	7.32	86.11	85.38	1.28
* Wash1	* DS Wash1	* -13	630.00	2695.85	2697.92	2697.94	2698.61	0.012880	6.63	94.96	73.77	1.03
* Wash1	* DS Wash1	* -14	630.00	2694.47	2696.88		2697.26	0.005162	4.94	127.53	77.68	0.68
* Wash1	* DS Wash1	* -15	630.00	2693.80	2696.03	2696.03	2696.87	0.011499	7.38	85.33	51.12	1.01

Profile Output Table - Standard Table 2

River	Reach	River Sta	E.G. Elev (ft)	W.S. Elev (ft)	Vel Head (ft)	Frctn Loss (ft)	C & E Loss (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Top Width (ft)
* Wash2	* Wash2	* -1	2699.64	2699.17	0.47	1.10	0.04		523.00		102.84
* Wash2	* Wash2	* -2	2697.83	2697.14	0.70	1.79	0.02		523.00		95.10
* Wash2	* Wash2	* -3	2696.93	2696.47	0.46				523.00		105.04
* Wash1	* Wash1	* -1	2713.44	2712.98	0.46	0.48	0.05		1153.00		226.75
* Wash1	* Wash1	* -2	2711.80	2711.51	0.29	0.81	0.02		1153.00		158.26
* Wash1	* Wash1	* -3	2710.97	2710.49	0.48	1.43	0.01		1153.00		224.70
* Wash1	* Wash1	* -4	2709.13	2708.49	0.64	1.84	0.02		1153.00		253.54
* Wash1	* Wash1	* -5	2706.98	2706.48	0.50	1.02	0.01		1153.00		203.03
* Wash1	* Wash1	* -6	2705.70	2704.95	0.76	1.25	0.03		1153.00		165.30
* Wash1	* Wash1	* -7	2703.89	2703.62	0.27	0.61	0.02		1153.00		272.32
* Wash1	* Wash1	* -8	2703.26	2702.76	0.50	0.52	0.00		1153.00		203.38
* Wash1	* Wash1	* -9	2702.74	2702.20	0.54	0.79	0.01		1153.00		180.96
* Wash1	* Wash1	* -10	2701.78	2701.06	0.72	0.96	0.02		1153.00		179.99
* Wash1	* Wash1	* -11	2700.85	2700.28	0.57	0.93	0.06		1153.00		199.38
* Wash1	* DS Wash1	* -12	2699.62	2698.79	0.83	1.21	0.03		630.00		85.38
* Wash1	* DS Wash1	* -13	2698.61	2697.92	0.68	0.98	0.05		630.00		73.77
* Wash1	* DS Wash1	* -14	2697.26	2696.88	0.38	0.34	0.05		630.00		77.68
* Wash1	* DS Wash1	* -15	2696.87	2696.03	0.85				630.00		51.12

HEC-RAS Plan: Plan 01

River	Reach	River Sta	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Wash2	Wash2	3	523.00	2697.21	2699.17	2699.17	2699.64	0.013775	5.50	95.05	102.84	1.01
Wash2	Wash2	2	523.00	2695.74	2697.14	2697.31	2697.83	0.023937	6.70	78.05	95.10	1.30
Wash2	Wash2	1	523.00	2695.01	2696.47	2696.47	2696.93	0.013727	5.45	96.02	105.04	1.00
Wash1	Wash1	11	1153.00	2710.41	2712.98	2712.98	2713.44	0.013186	5.43	212.27	226.75	0.99
Wash1	Wash1	2	1153.00	2706.92	2711.51	2710.20	2711.80	0.003936	4.36	264.56	158.26	0.59
Wash1	Wash1	3	1153.00	2708.62	2710.49	2710.49	2710.97	0.013967	5.55	207.84	224.70	1.02
Wash1	Wash1	4	1153.00	2706.97	2708.49	2708.65	2709.13	0.026728	6.43	179.39	253.54	1.35
Wash1	Wash1	5	1153.00	2704.34	2706.48	2706.48	2706.98	0.013228	5.68	202.85	203.03	1.00
Wash1	Wash1	6	1153.00	2703.38	2704.95	2705.11	2705.70	0.019998	6.98	165.08	165.30	1.23
Wash1	Wash1	7	1153.00	2700.79	2703.62		2703.89	0.006950	4.17	276.76	272.32	0.73
Wash1	Wash1	8	1153.00	2699.96	2702.76	2702.75	2703.26	0.013199	5.68	203.16	203.38	1.00
Wash1	Wash1	9	1153.00	2699.41	2702.20	2702.20	2702.74	0.013086	5.92	194.83	180.96	1.01
Wash1	Wash1	10	1153.00	2698.84	2701.06	2701.24	2701.78	0.020770	6.82	168.94	179.99	1.24
Wash1	Wash1	1	1153.00	2698.17	2700.28	2700.34	2700.85	0.015984	6.05	190.46	199.38	1.09
Wash1	DS Wash1	12	630.00	2696.28	2698.79	2698.98	2699.62	0.021774	7.32	86.11	85.38	1.28
Wash1	DS Wash1	13	630.00	2695.85	2697.92	2697.94	2698.61	0.012880	6.63	94.96	73.77	1.03
Wash1	DS Wash1	14	630.00	2694.47	2696.88		2697.26	0.005162	4.94	127.53	77.68	0.68
Wash1	DS Wash1	15	630.00	2693.80	2696.03	2696.03	2696.87	0.011499	7.38	85.33	51.12	1.01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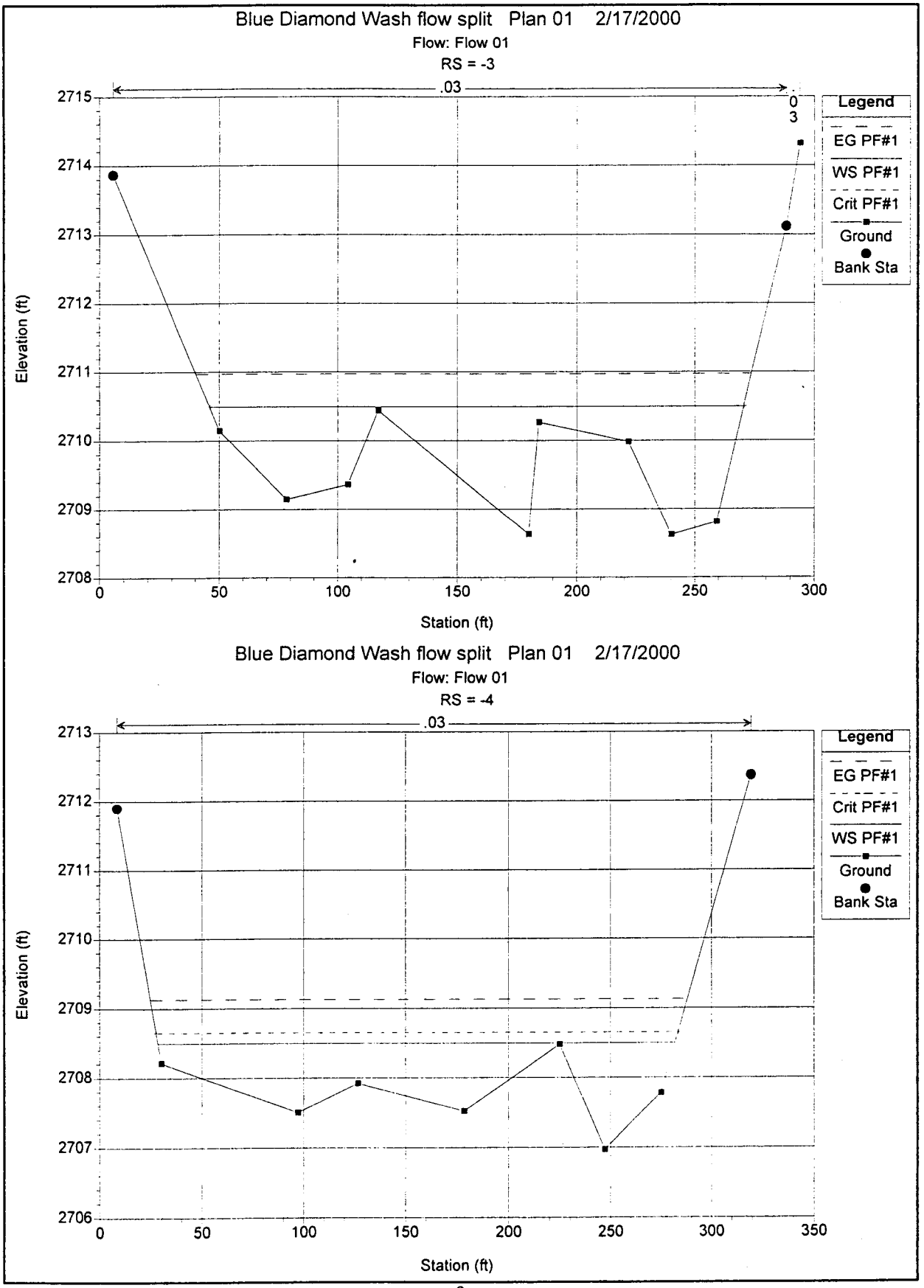
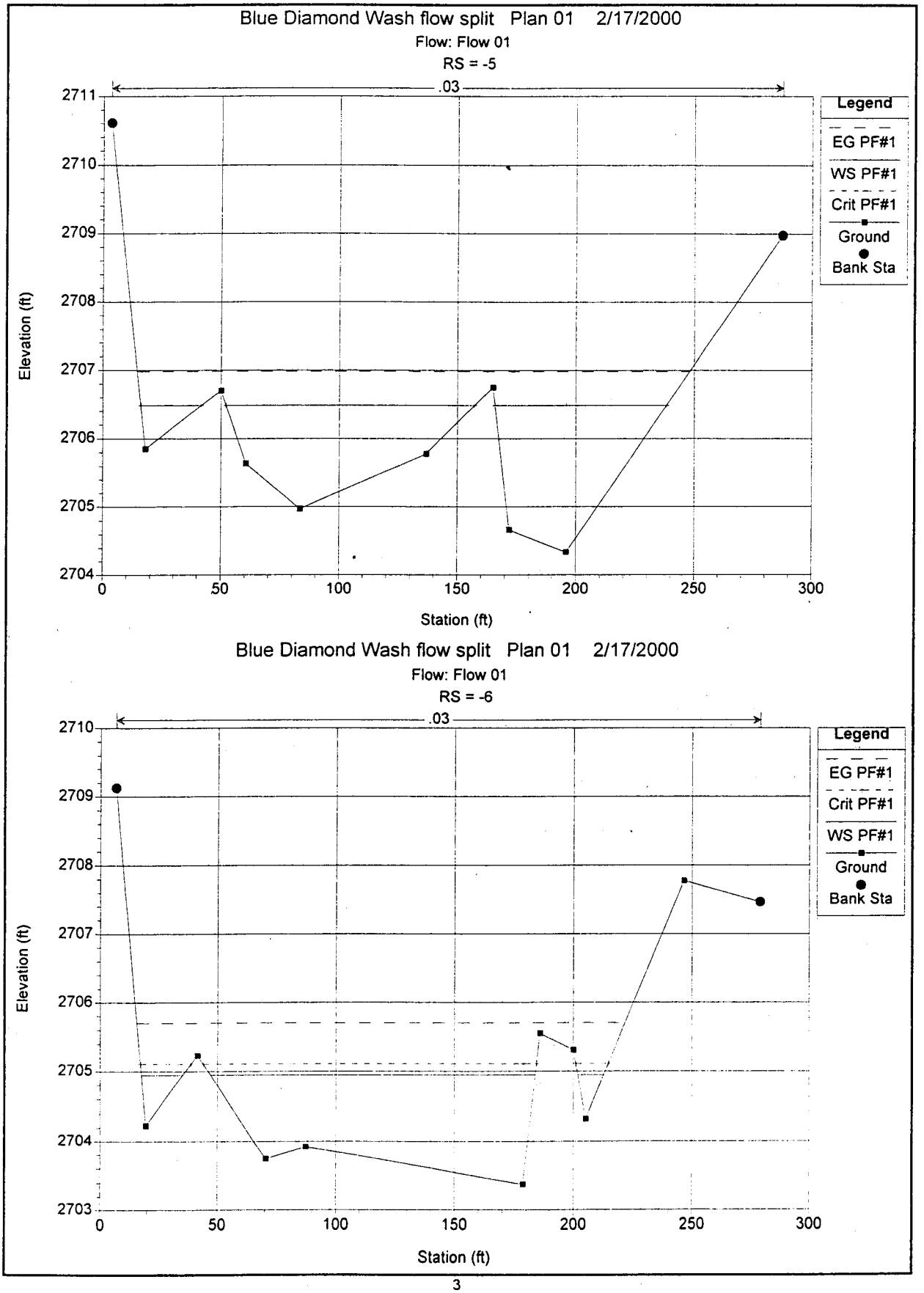
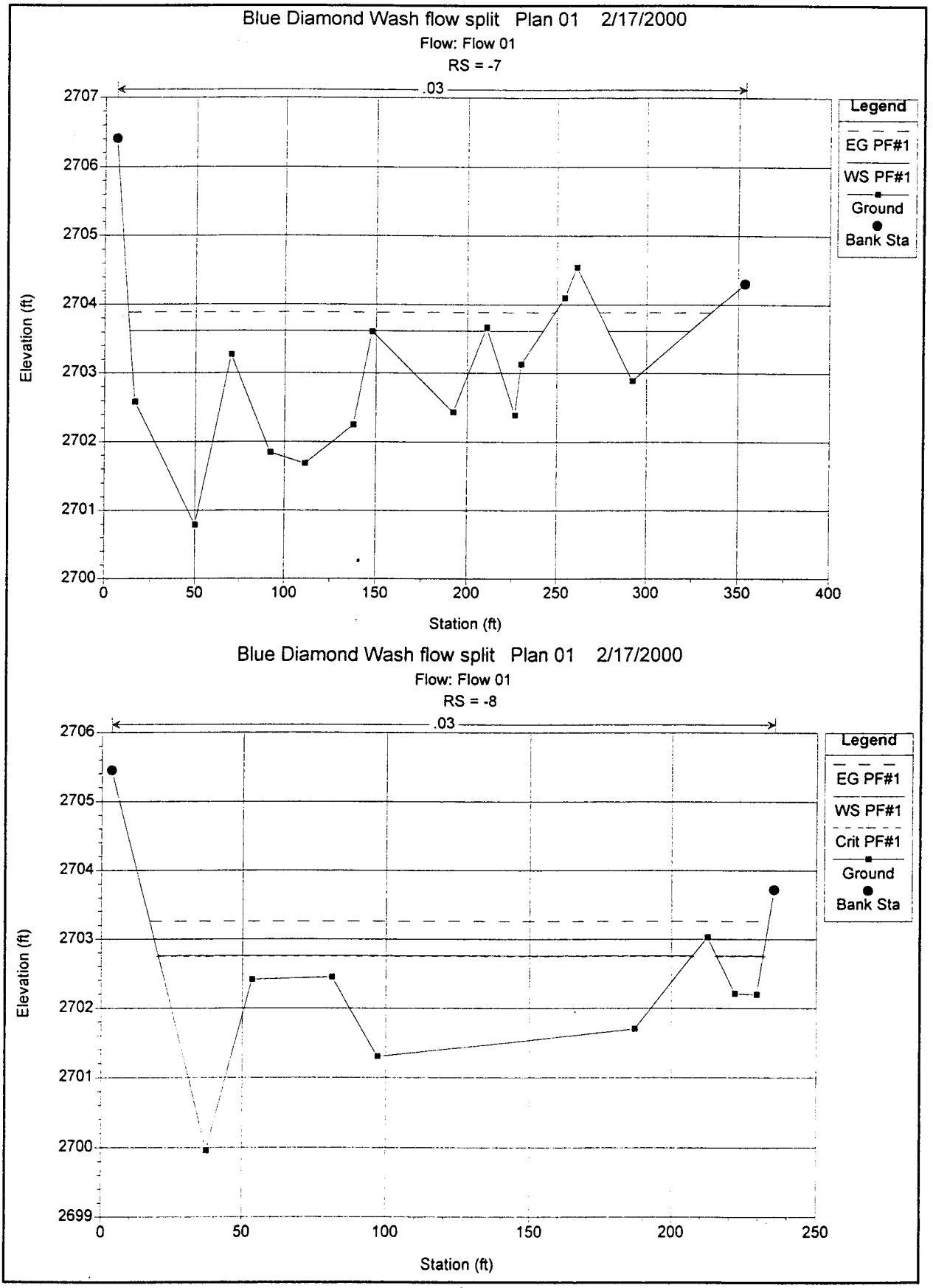
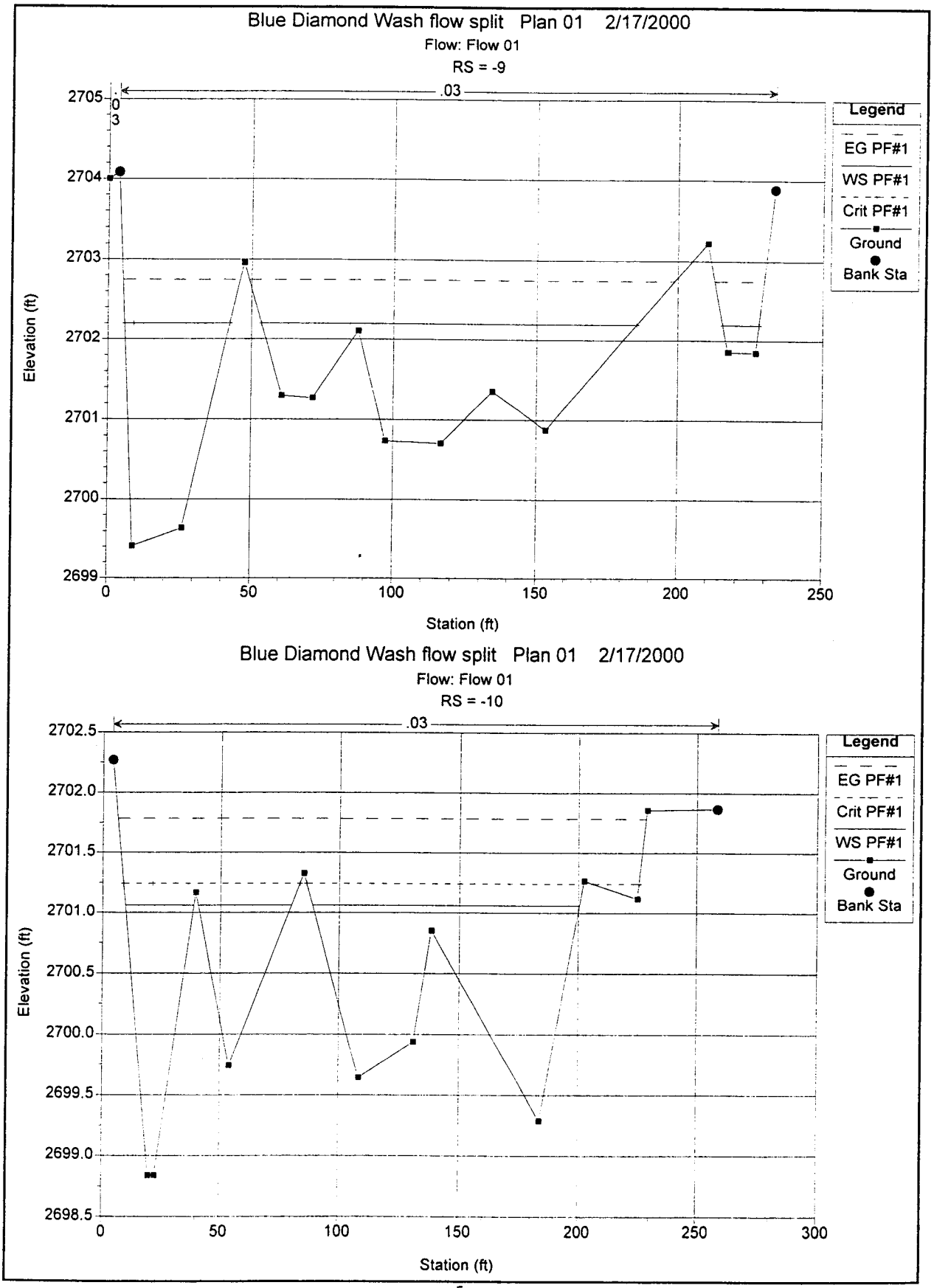
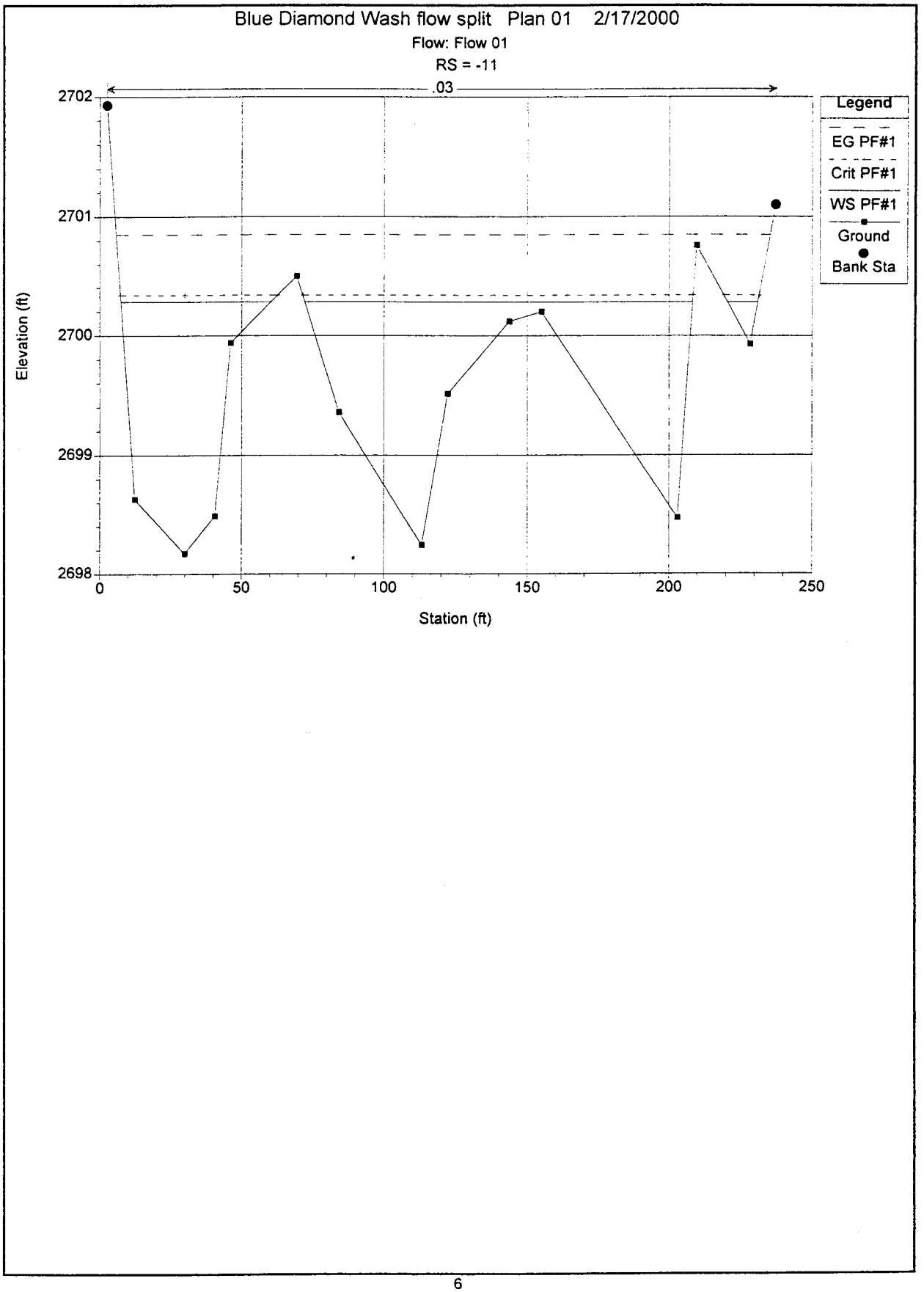
Flow: Flow 01
RS = -1
.03
Legend
EG PF#1
WS PF#1
Crit PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)
2717
2716
2715
2714
2713
2712
2711
2710
0
50
100
150
200
250
300
Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -2
.03
.03
Legend
EG PF#1
WS PF#1
Crit PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)
2716
2714
2712
2710
2708
2706
0
50
100
150
200
250
300

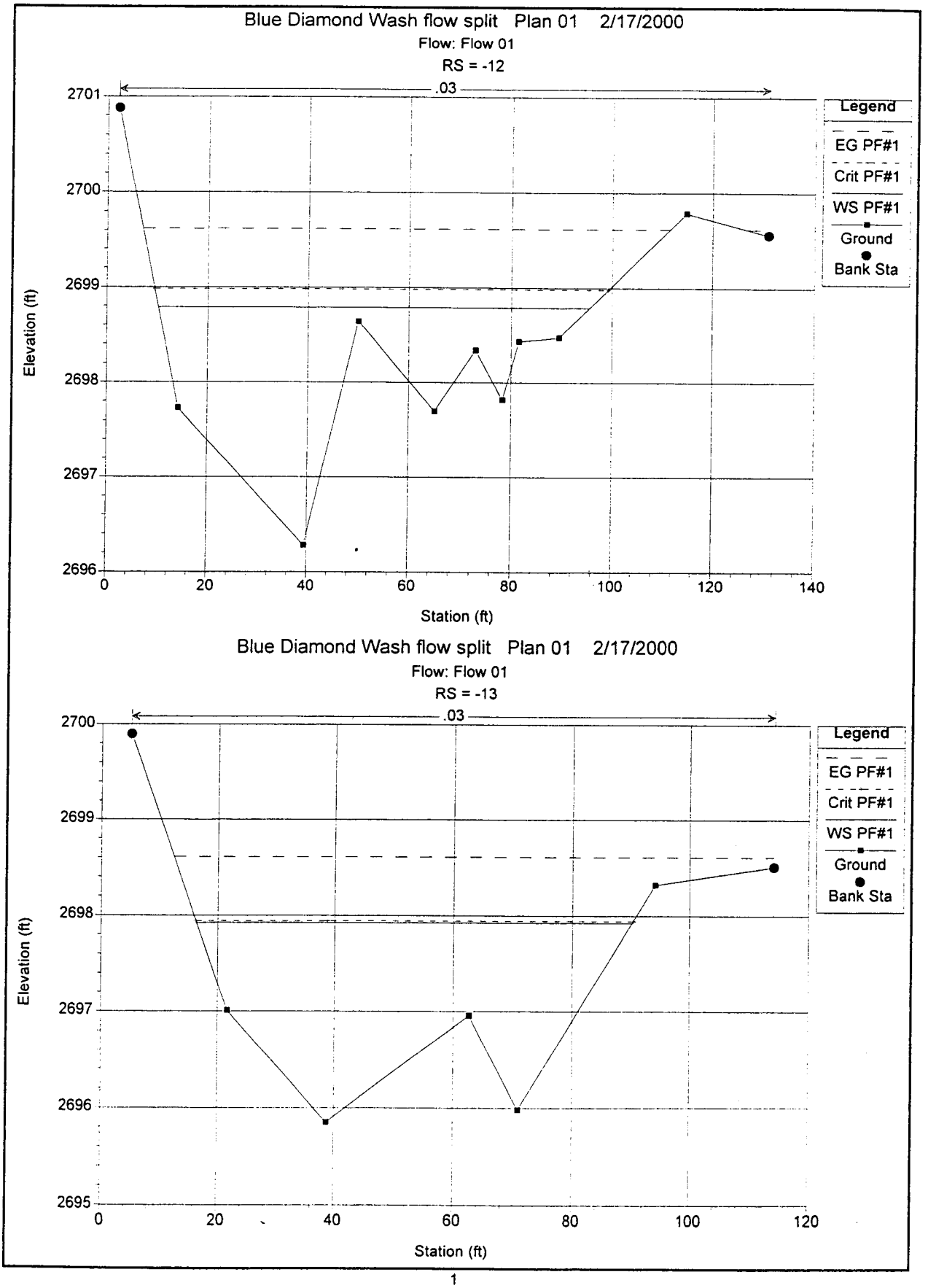

Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -3
.03
0
3
Legend
EG PF#1
WS PF#1
Crit PF#1
Ground
Bank Sta
Elevation (ft)
2715
2714
2713
2712
2711
2710
2709
2708
0
50
100
150
200
250
300
Station (ft)
Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -4
.03
Legend
EG PF#1
Crit PF#1
WS PF#1
Ground
Bank Sta
Elevation (ft)
2713
2712
2711
2710
2709
2708
2707
2706
0
50
100
150
200
250
300
350
Station (ft)

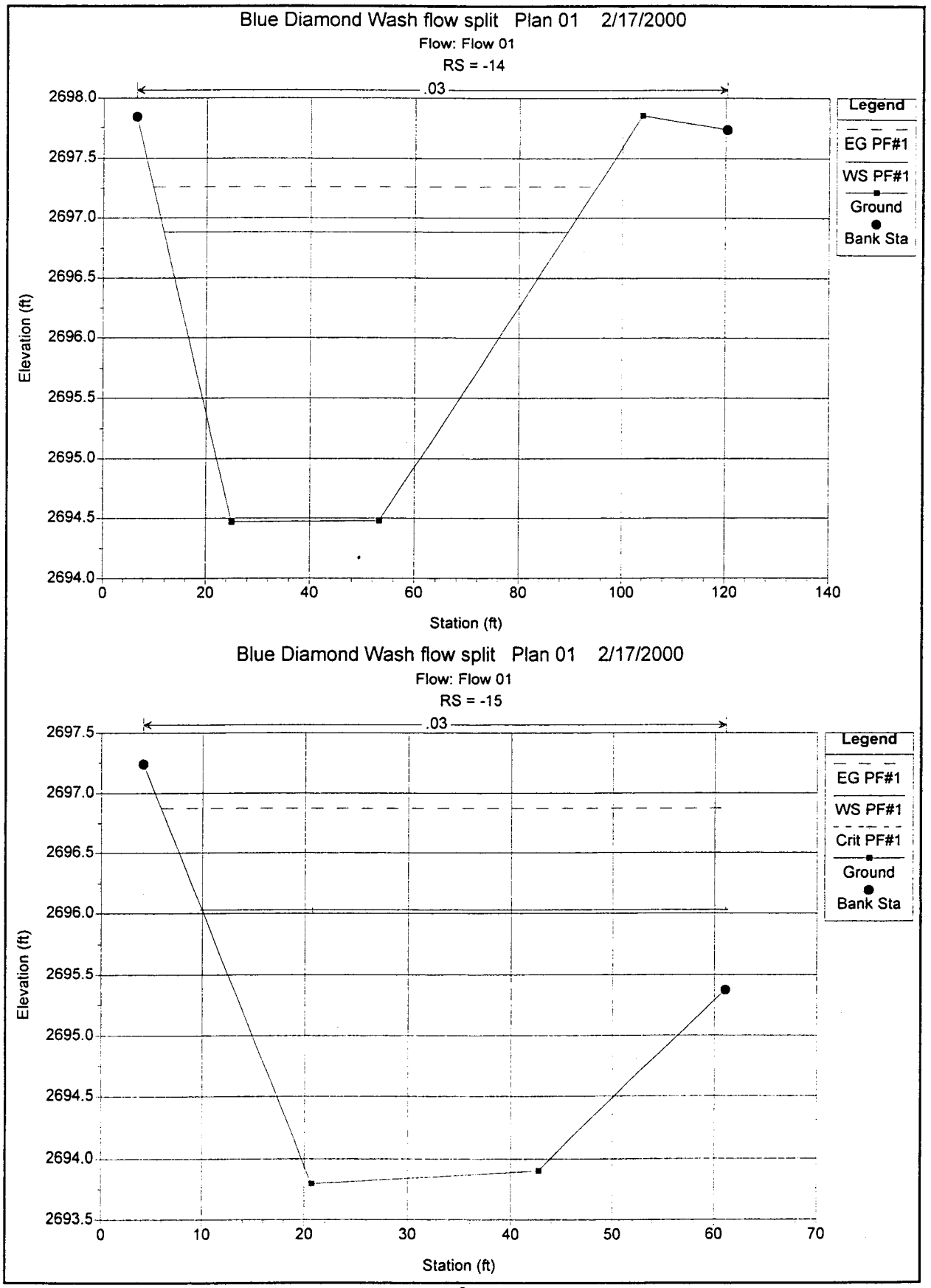

Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -5
.03
Legend
EG PF#1
WS PF#1
Crit PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)
2711
2710
2709
2708
2707
2706
2705
2704
0
50
100
150
200
250
300
Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -6
.03
Legend
EG PF#1
Crit PF#1
WS PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)
2710
2709
2708
2707
2706
2705
2704
2703
0
50
100
150
200
250
300

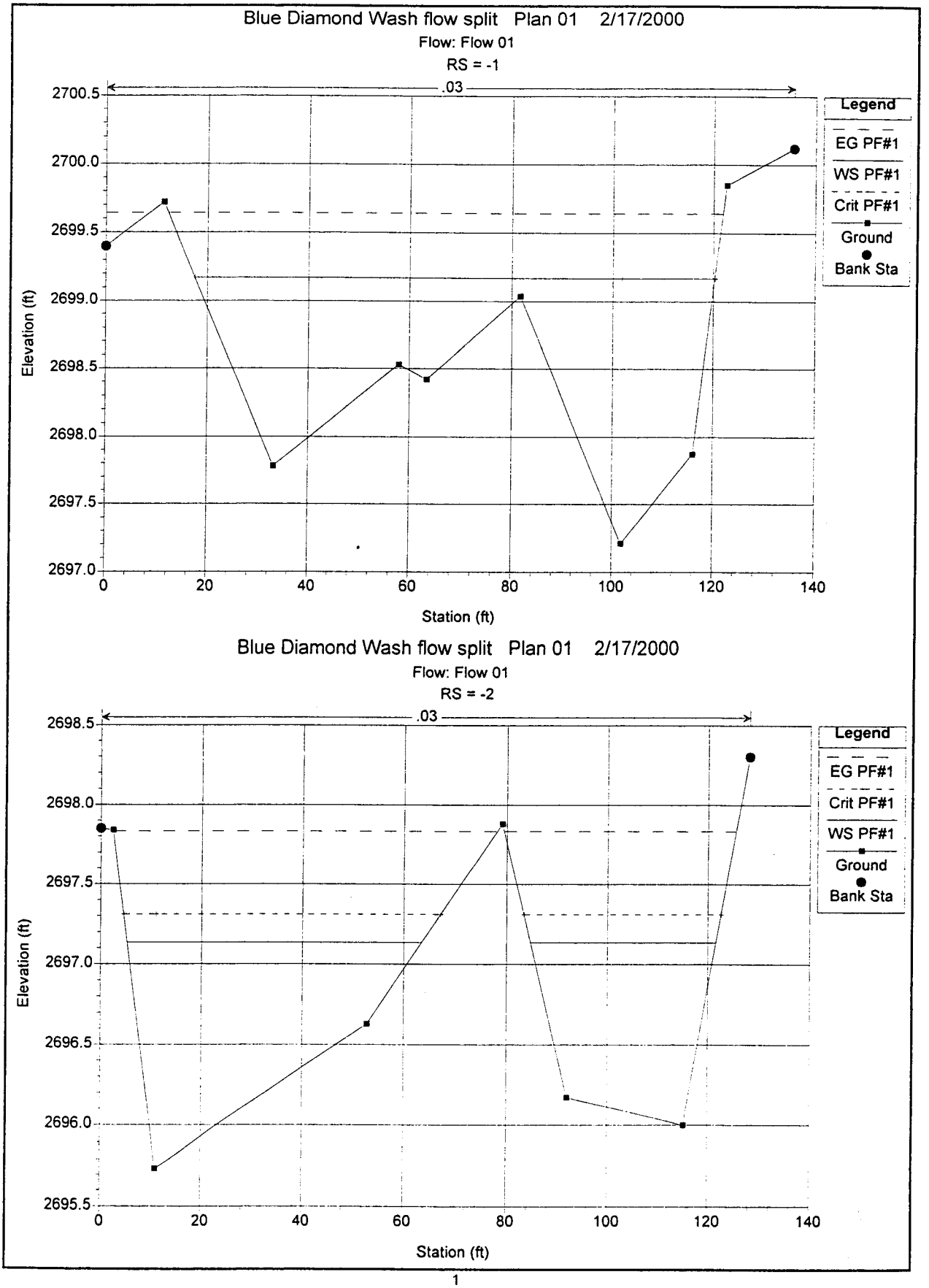

Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -7
.03
Legend
EG PF#1
WS PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)
2707
2706
2705
2704
2703
2702
2701
2700
0
50
100
150
200
250
300
350
400
Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -8
.03
Legend
EG PF#1
WS PF#1
Crit PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)
2706
2705
2704
2703
2702
2701
2700
2699
0
50
100
150
200
250

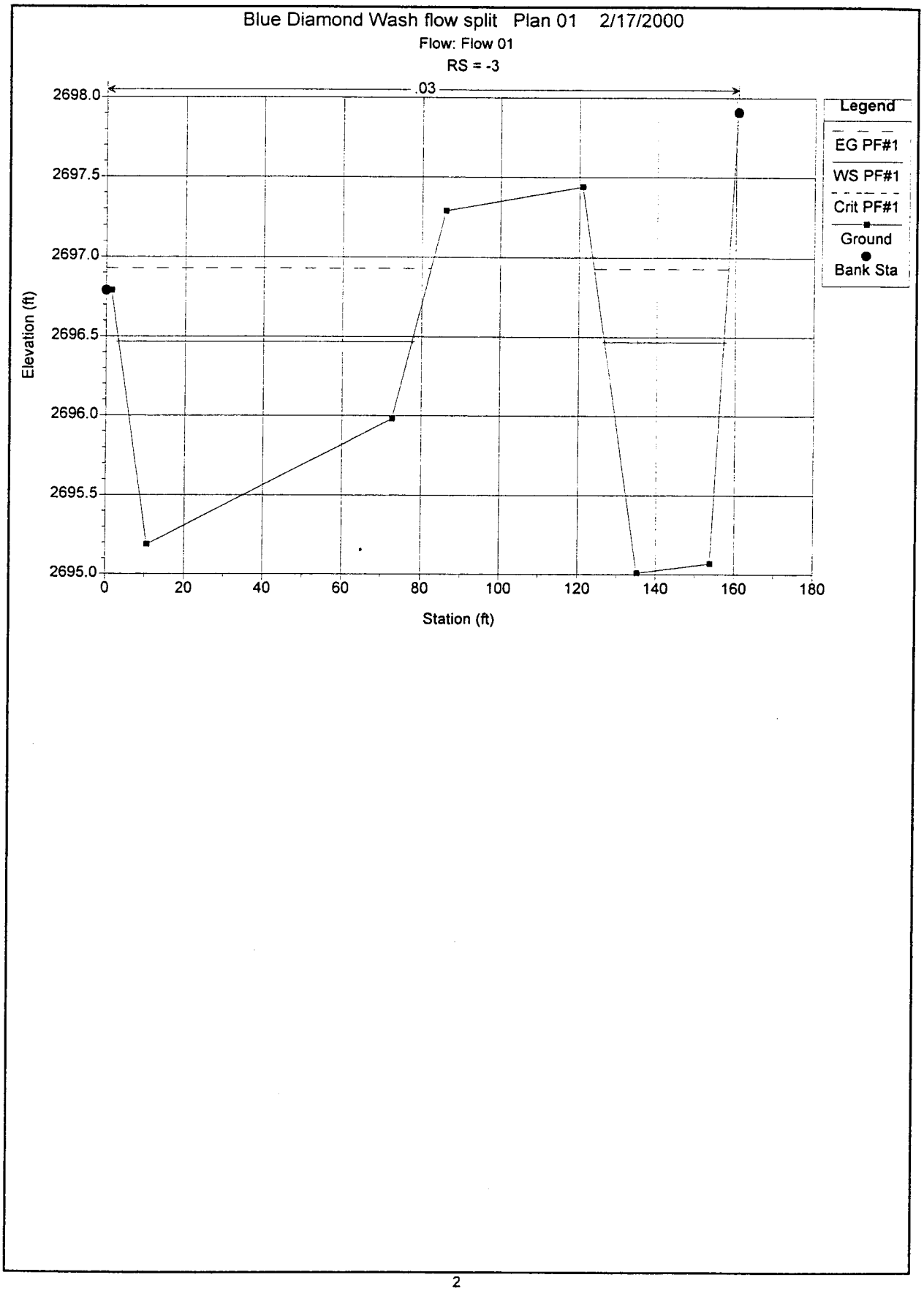

Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -9
.03
Legend
EG PF#1
WS PF#1
Crit PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)
2705
2704
2703
2702
2701
2700
2699
0
50
100
150
200
250
Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -10
.03
Legend
EG PF#1
Crit PF#1
WS PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)
2702.5
2702.0
2701.5
2701.0
2700.5
2700.0
2699.5
2699.0
2698.5
0
50
100
150
200
250
300


Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -11
.03
Legend
EG PF#1
Crit PF#1
WS PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)
2702
2701
2700
2699
2698
0
50
100
150
200
250


Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -12
.03
Legend
EG PF#1
Crit PF#1
WS PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)
2701
2700
2699
2698
2697
2696
0
20
40
60
80
100
120
140
Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -13
.03
Legend
EG PF#1
Crit PF#1
WS PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)
2700
2699
2698
2697
2696
2695
0
20
40
60
80
100
120


Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -14
.03
Legend
EG PF#1
WS PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)
2698.0
2697.5
2697.0
2696.5
2696.0
2695.5
2695.0
2694.5
2694.0
0
20
40
60
80
100
120
140
Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -15
.03
Legend
EG PF#1
WS PF#1
Crit PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)
2697.5
2697.0
2696.5
2696.0
2695.5
2695.0
2694.5
2694.0
2693.5
0
10
20
30
40
50
60
70


Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -1
.03
Legend
EG PF#1
WS PF#1
Crit PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -2
.03
Legend
EG PF#1
Crit PF#1
WS PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Blue Diamond Wash flow split Plan 01 2/17/2000
Flow: Flow 01
RS = -3
.03
Legend
EG PF#1
WS PF#1
Crit PF#1
Ground
Bank Sta
Elevation (ft)
Station (ft)
2698.0
2697.5
2697.0
2696.5
2696.0
2695.5
2695.0
0
20
40
60
80
100
120
140
160
180

VELOCITY ESTIMATION BASIN-1
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-1
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

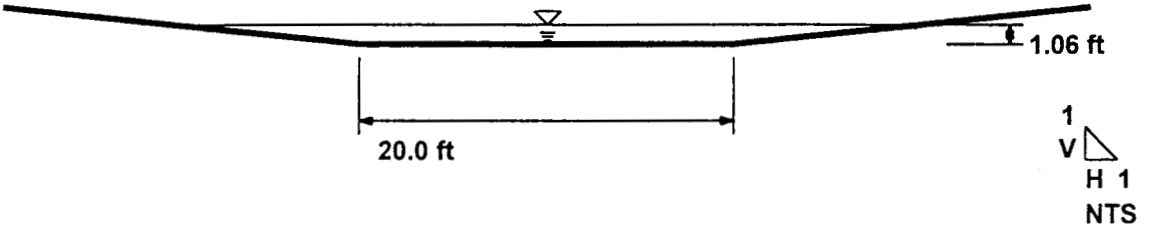
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.38	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	162.0	cfs

Results	
Depth	1.06 ft
Flow Area	32.63 ft²
Wetted Perimeter	41.40 ft
Top Width	41.29 ft
Critical Depth	1.06 ft
Critical Slope	1.43 %
Velocity	4.96 ft/s
Velocity Head	0.38 ft
Specific Energy	1.45 ft
Froude Number	0.98
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-1
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-1
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.38	%
Depth	1.06	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	162.0	cfs



VELOCITY ESTIMATION BASIN-2
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-2
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

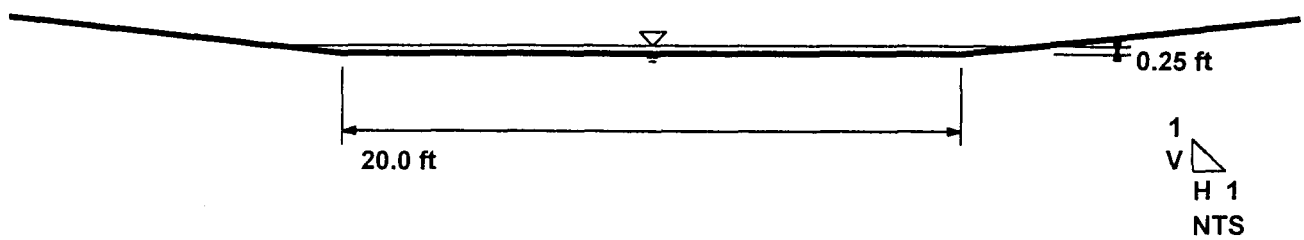
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.56	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	13.0	cfs

Results	
Depth	0.25 ft
Flow Area	5.66 ft²
Wetted Perimeter	25.06 ft
Top Width	25.03 ft
Critical Depth	0.23 ft
Critical Slope	2.22 %
Velocity	2.30 ft/s
Velocity Head	0.08 ft
Specific Energy	0.33 ft
Froude Number	0.85
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-2
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-2
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.56	%
Depth	0.25	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	13.0	cfs



VELOCITY ESTIMATION BASIN-3
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-3
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

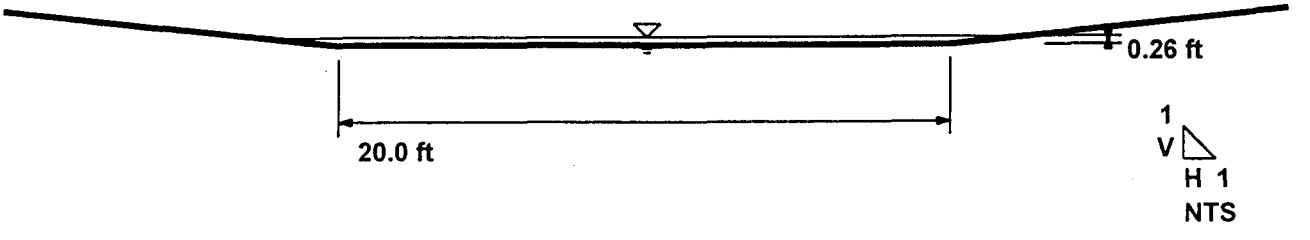
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.56	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	14.0	cfs

Results	
Depth	0.26 ft
Flow Area	5.94 ft²
Wetted Perimeter	25.28 ft
Top Width	25.25 ft
Critical Depth	0.24 ft
Critical Slope	2.19 %
Velocity	2.36 ft/s
Velocity Head	0.09 ft
Specific Energy	0.35 ft
Froude Number	0.86
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-3
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-3
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.56	%
Depth	0.26	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	14.0	cfs



VELOCITY ESTIMATION BASIN-4
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-4
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

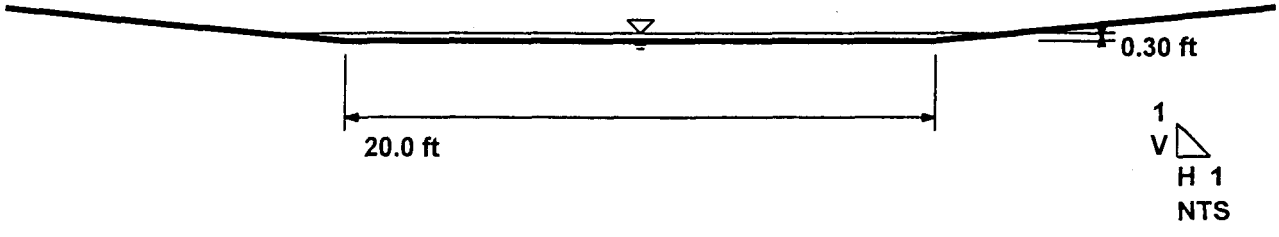
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.56	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	18.0	cfs

Results	
Depth	0.30 ft
Flow Area	7.00 ft²
Wetted Perimeter	26.11 ft
Top Width	26.08 ft
Critical Depth	0.28 ft
Critical Slope	2.09 %
Velocity	2.57 ft/s
Velocity Head	0.10 ft
Specific Energy	0.41 ft
Froude Number	0.88
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-4
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-4
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.56	%
Depth	0.30	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	18.0	cfs



VELOCITY ESTIMATION BASIN-5
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-5
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

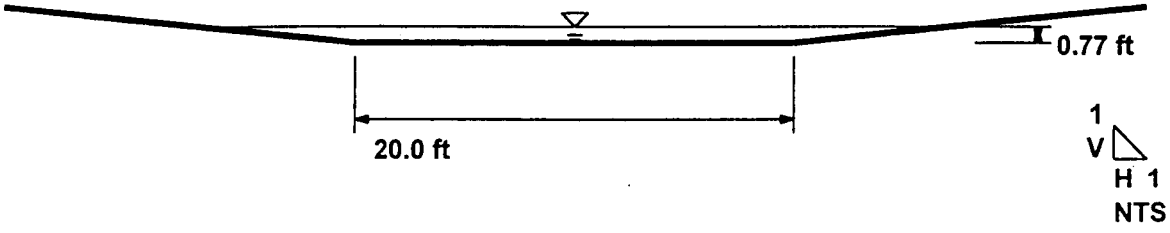
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.56	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	93.0	cfs

Results	
Depth	0.77 ft
Flow Area	21.17 ft²
Wetted Perimeter	35.39 ft
Top Width	35.31 ft
Critical Depth	0.77 ft
Critical Slope	1.56 %
Velocity	4.39 ft/s
Velocity Head	0.30 ft
Specific Energy	1.07 ft
Froude Number	1.00
Flow is supercritical.	

VELOCITY ESTIMATION BASIN-5
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-5
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.56	%
Depth	0.77	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	93.0	cfs



VELOCITY ESTIMATION BASIN-6
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-6
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

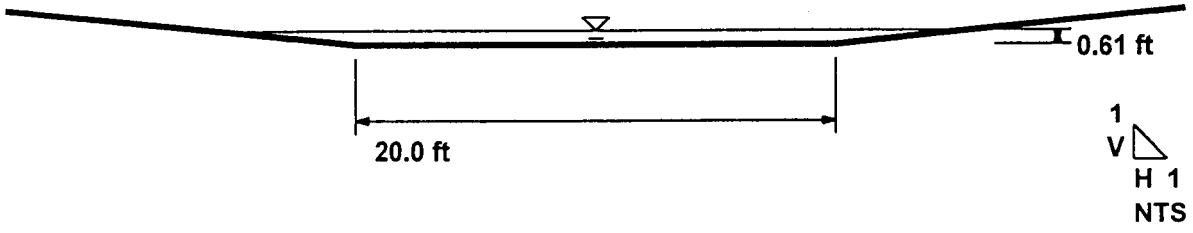
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	63.0	cfs

Results	
Depth	0.61 ft
Flow Area	15.81 ft²
Wetted Perimeter	32.19 ft
Top Width	32.13 ft
Critical Depth	0.61 ft
Critical Slope	1.66 %
Velocity	3.98 ft/s
Velocity Head	0.25 ft
Specific Energy	0.85 ft
Froude Number	1.00
Flow is supercritical.	

VELOCITY ESTIMATION BASIN-6
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-6
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Depth	0.61	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	63.0	cfs



VELOCITY ESTIMATION BASIN-7
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-7
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

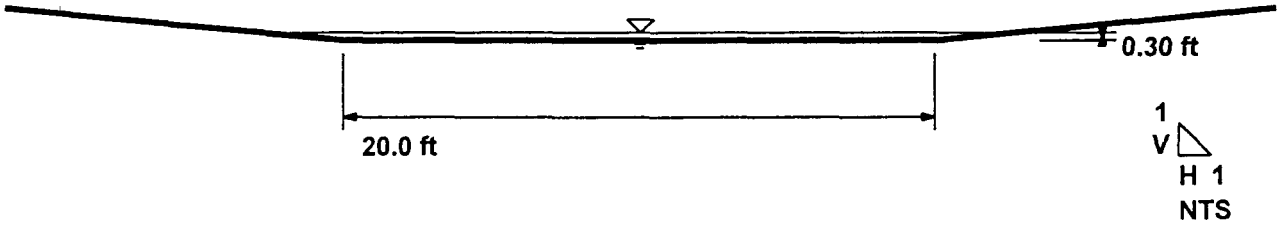
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.56	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	18.0	cfs

Results	
Depth	0.30 ft
Flow Area	7.00 ft²
Wetted Perimeter	26.11 ft
Top Width	26.08 ft
Critical Depth	0.28 ft
Critical Slope	2.09 %
Velocity	2.57 ft/s
Velocity Head	0.10 ft
Specific Energy	0.41 ft
Froude Number	0.88
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-7
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-7
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.56	%
Depth	0.30	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	18.0	cfs



VELOCITY ESTIMATION BASIN-8
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-8
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

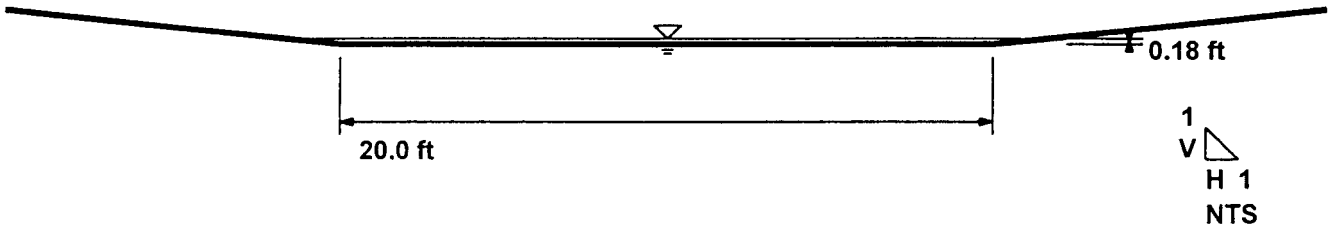
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.39	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	7.0	cfs

Results	
Depth	0.18 ft
Flow Area	3.95 ft²
Wetted Perimeter	23.64 ft
Top Width	23.62 ft
Critical Depth	0.15 ft
Critical Slope	2.52 %
Velocity	1.77 ft/s
Velocity Head	0.05 ft
Specific Energy	0.23 ft
Froude Number	0.76
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-8
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-8
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.39	%
Depth	0.18	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	7.0	cfs



VELOCITY ESTIMATION BASIN-9
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-9
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

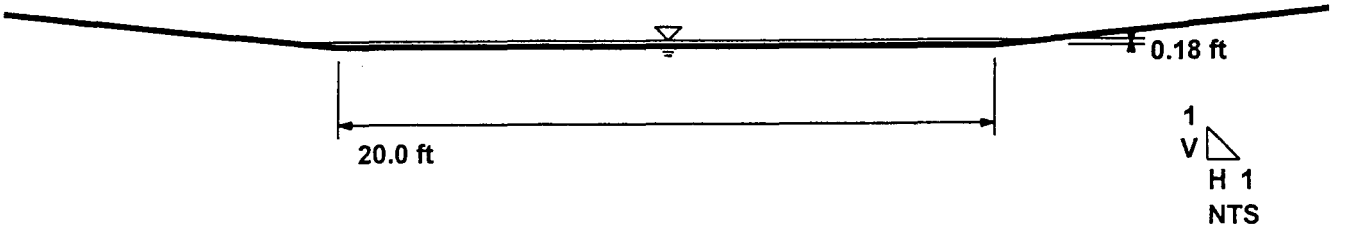
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.47	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	7.0	cfs

Results	
Depth	0.18 ft
Flow Area	3.88 ft²
Wetted Perimeter	23.58 ft
Top Width	23.56 ft
Critical Depth	0.15 ft
Critical Slope	2.52 %
Velocity	1.80 ft/s
Velocity Head	0.05 ft
Specific Energy	0.23 ft
Froude Number	0.78
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-9
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-9
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.47	%
Depth	0.18	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	7.0	cfs



VELOCITY ESTIMATION BASIN-10
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-10
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

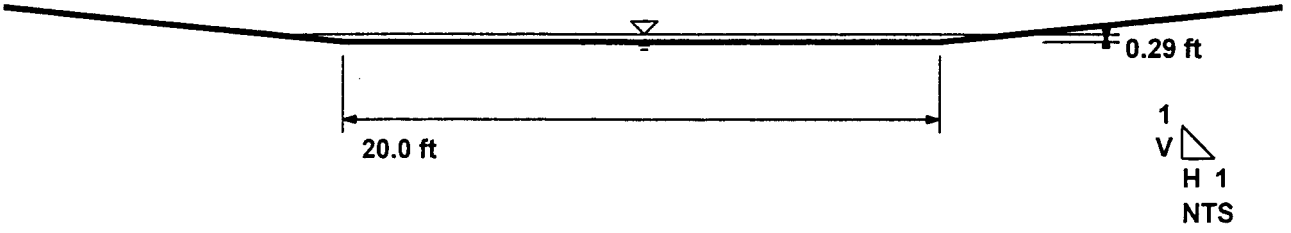
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	17.0	cfs

Results	
Depth	0.29 ft
Flow Area	6.59 ft²
Wetted Perimeter	25.79 ft
Top Width	25.76 ft
Critical Depth	0.27 ft
Critical Slope	2.11 %
Velocity	2.58 ft/s
Velocity Head	0.10 ft
Specific Energy	0.39 ft
Froude Number	0.90
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-10
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-10
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Depth	0.29	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	17.0	cfs



VELOCITY ESTIMATION BASIN-11
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-11
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.56	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	33.0	cfs

Results	
Depth	0.43 ft
Flow Area	10.45 ft²
Wetted Perimeter	28.64 ft
Top Width	28.60 ft
Critical Depth	0.41 ft
Critical Slope	1.87 %
Velocity	3.16 ft/s
Velocity Head	0.16 ft
Specific Energy	0.59 ft
Froude Number	0.92
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-12
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-12
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

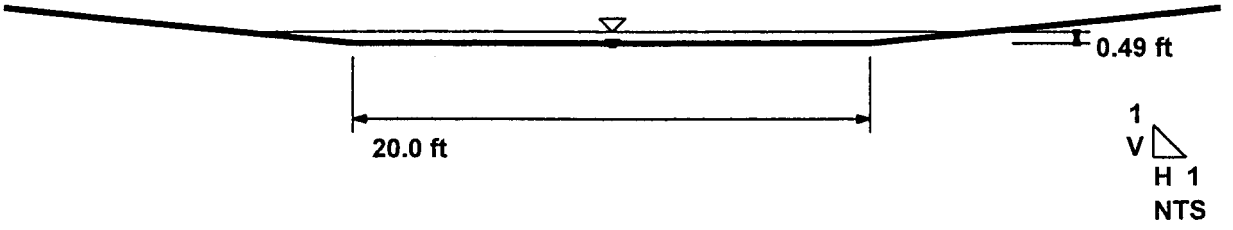
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	45.0	cfs

Results	
Depth	0.49 ft
Flow Area	12.29 ft²
Wetted Perimeter	29.91 ft
Top Width	29.86 ft
Critical Depth	0.49 ft
Critical Slope	1.77 %
Velocity	3.66 ft/s
Velocity Head	0.21 ft
Specific Energy	0.70 ft
Froude Number	1.01
Flow is supercritical.	

VELOCITY ESTIMATION BASIN-12
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-12
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Depth	0.49	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	45.0	cfs



VELOCITY ESTIMATION BASIN-13
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-13
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

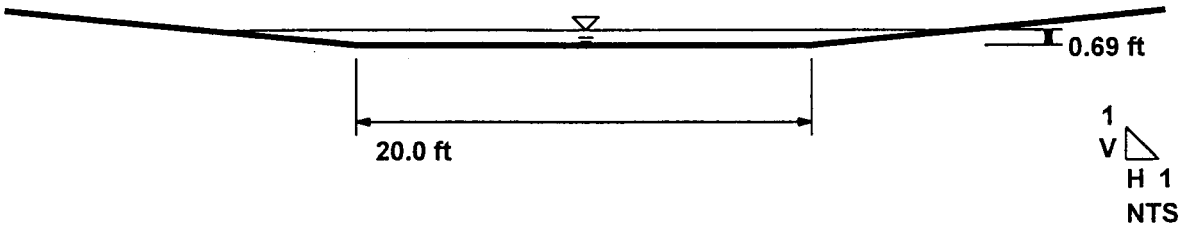
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.45	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	75.0	cfs

Results	
Depth	0.69 ft
Flow Area	18.71 ft²
Wetted Perimeter	33.96 ft
Top Width	33.89 ft
Critical Depth	0.67 ft
Critical Slope	1.62 %
Velocity	4.01 ft/s
Velocity Head	0.25 ft
Specific Energy	0.94 ft
Froude Number	0.95
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-13
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-13
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.45	%
Depth	0.69	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	75.0	cfs



VELOCITY ESTIMATION BASIN-14
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-14
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

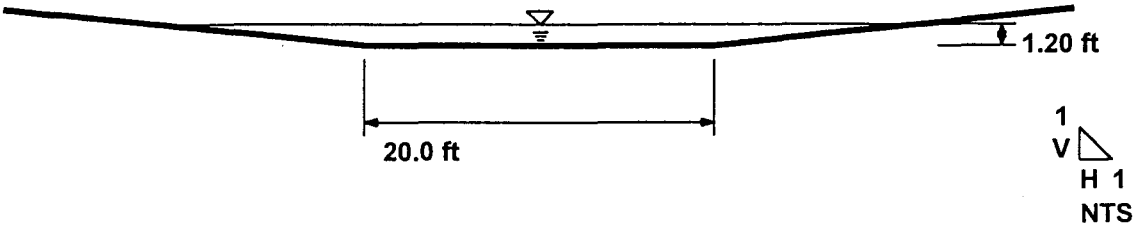
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.30	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	197.0	cfs

Results	
Depth	1.20 ft
Flow Area	38.30 ft²
Wetted Perimeter	44.08 ft
Top Width	43.96 ft
Critical Depth	1.18 ft
Critical Slope	1.38 %
Velocity	5.14 ft/s
Velocity Head	0.41 ft
Specific Energy	1.61 ft
Froude Number	0.97
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-14
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-14
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.30	%
Depth	1.20	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	197.0	cfs



VELOCITY ESTIMATION BASIN-15
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-15
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

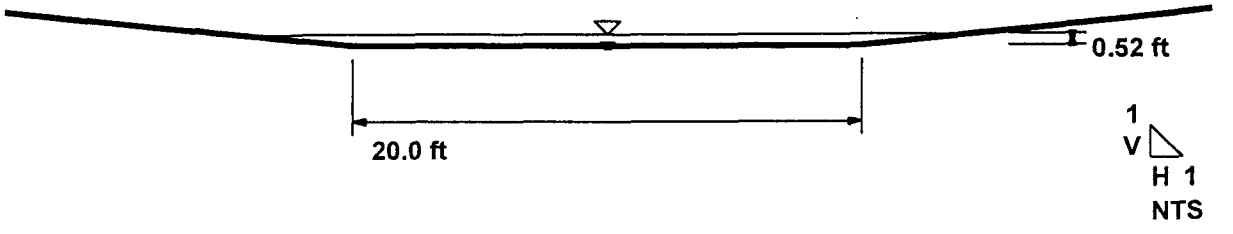
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	47.0	cfs

Results	
Depth	0.52 ft
Flow Area	12.95 ft²
Wetted Perimeter	30.35 ft
Top Width	30.30 ft
Critical Depth	0.51 ft
Critical Slope	1.75 %
Velocity	3.63 ft/s
Velocity Head	0.20 ft
Specific Energy	0.72 ft
Froude Number	0.98
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-15
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-15
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Depth	0.52	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	47.0	cfs



VELOCITY ESTIMATION BASIN-16
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-16
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

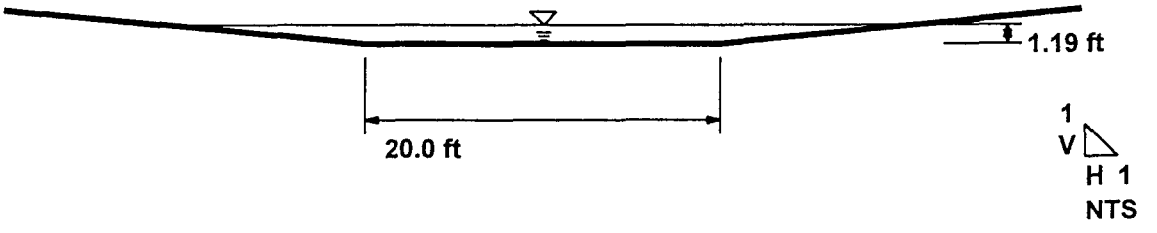
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.30	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	193.0	cfs

Results	
Depth	1.19 ft
Flow Area	37.75 ft²
Wetted Perimeter	43.82 ft
Top Width	43.70 ft
Critical Depth	1.16 ft
Critical Slope	1.39 %
Velocity	5.11 ft/s
Velocity Head	0.41 ft
Specific Energy	1.59 ft
Froude Number	0.97
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-16
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-16
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.30	%
Depth	1.19	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	193.0	cfs



VELOCITY ESTIMATION BASIN-17
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-17
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

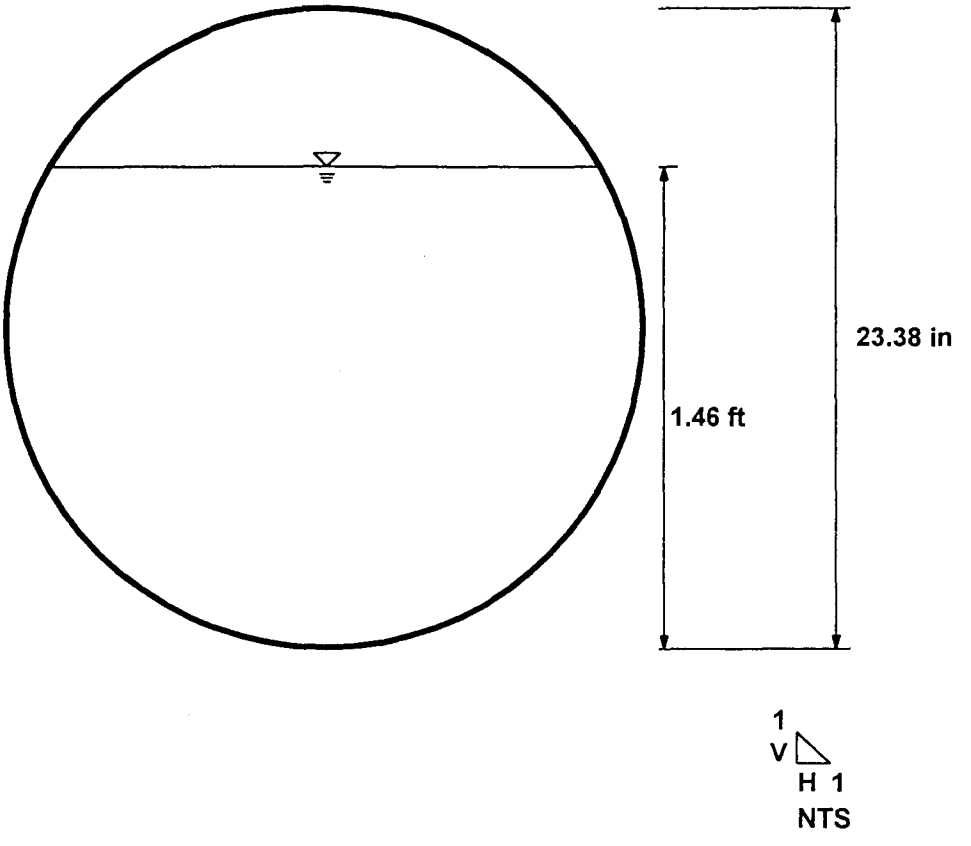
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	50.0	cfs

Results	
Depth	0.53 ft
Flow Area	13.51 ft²
Wetted Perimeter	30.72 ft
Top Width	30.66 ft
Critical Depth	0.53 ft
Critical Slope	1.73 %
Velocity	3.70 ft/s
Velocity Head	0.21 ft
Specific Energy	0.75 ft
Froude Number	0.98
Flow is subcritical.	

Cross Section
Cross Section for Circular Channel

Project Description	
Project File	c:\haestad\fmw\lompa1.fm2
Worksheet	SEG 4.1 PIN PLAZA TO LASSEN (EXIST)
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Discharge

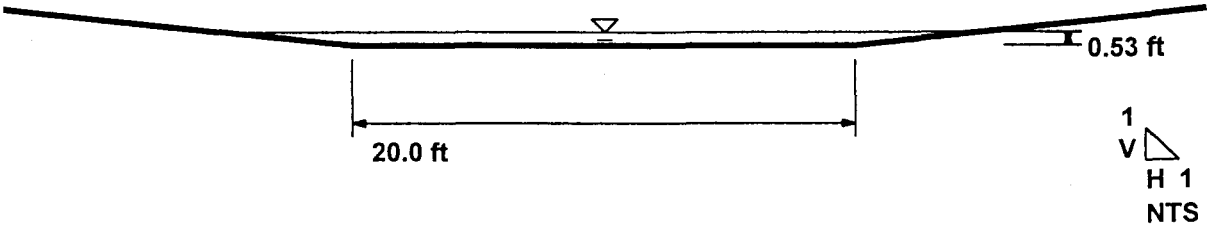
Section Data		
Mannings Coefficient	0.013	
Channel Slope	0.001500	ft/ft
Depth	1.46	ft
Diameter	23.38	in
Discharge	7.44	cfs



VELOCITY ESTIMATION BASIN-17
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-17
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Depth	0.53	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	50.0	cfs



VELOCITY ESTIMATION BASIN-18
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-18
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

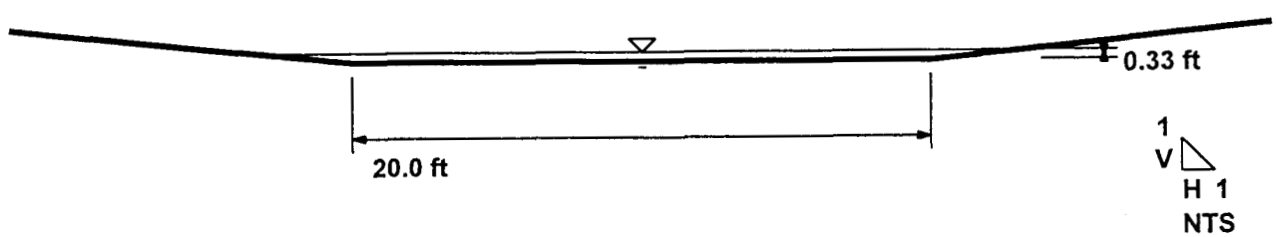
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	22.0	cfs

Results	
Depth	0.33 ft
Flow Area	7.81 ft²
Wetted Perimeter	26.72 ft
Top Width	26.69 ft
Critical Depth	0.32 ft
Critical Slope	2.01 %
Velocity	2.82 ft/s
Velocity Head	0.12 ft
Specific Energy	0.46 ft
Froude Number	0.92
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-18
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-18
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Depth	0.33	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	22.0	cfs



VELOCITY ESTIMATION BASIN-19
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-19
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

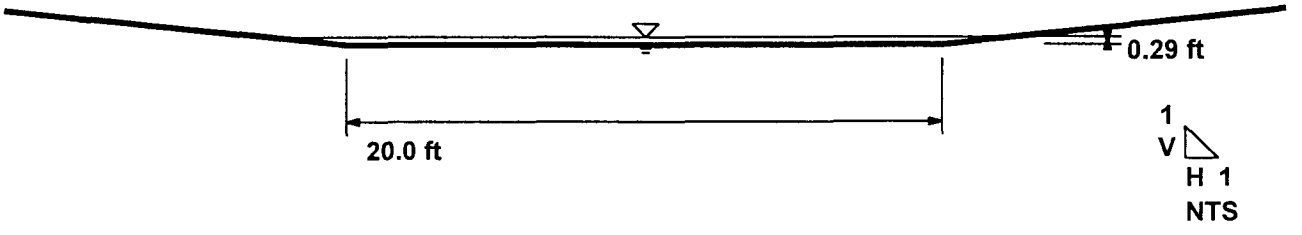
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	17.0	cfs

Results	
Depth	0.29 ft
Flow Area	6.59 ft²
Wetted Perimeter	25.79 ft
Top Width	25.76 ft
Critical Depth	0.27 ft
Critical Slope	2.11 %
Velocity	2.58 ft/s
Velocity Head	0.10 ft
Specific Energy	0.39 ft
Froude Number	0.90
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-19
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-19
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Depth	0.29	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	17.0	cfs



VELOCITY ESTIMATION BASIN-20
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-20
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

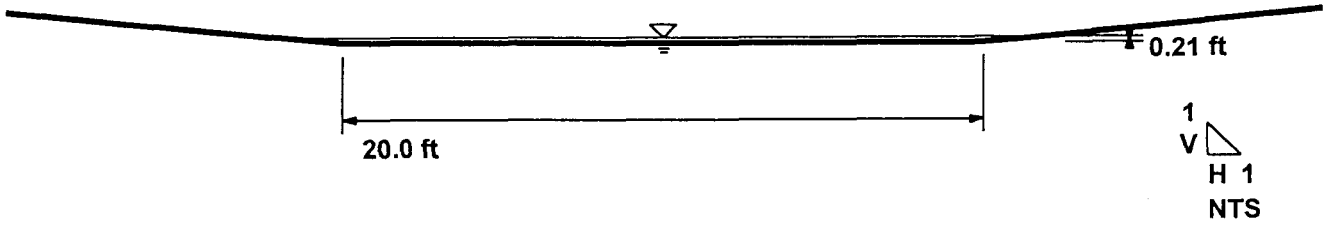
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	10.0	cfs

Results	
Depth	0.21 ft
Flow Area	4.58 ft²
Wetted Perimeter	24.17 ft
Top Width	24.15 ft
Critical Depth	0.19 ft
Critical Slope	2.34 %
Velocity	2.19 ft/s
Velocity Head	0.07 ft
Specific Energy	0.28 ft
Froude Number	0.88
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-20
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-20
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Depth	0.21	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	10.0	cfs



VELOCITY ESTIMATION BASIN-21
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-21
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

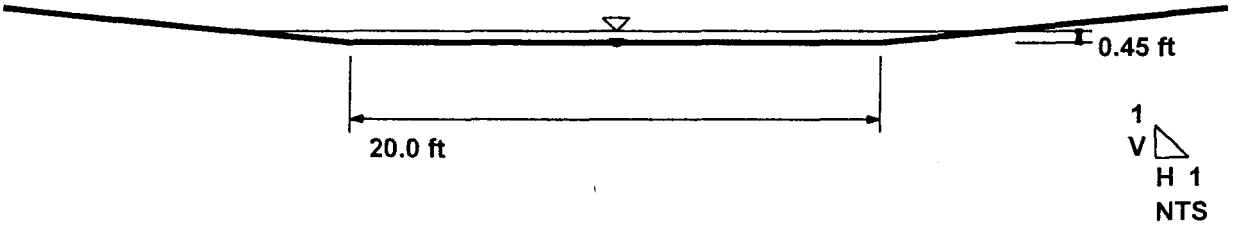
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	39.0	cfs

Results	
Depth	0.45 ft
Flow Area	11.16 ft²
Wetted Perimeter	29.14 ft
Top Width	29.09 ft
Critical Depth	0.45 ft
Critical Slope	1.81 %
Velocity	3.49 ft/s
Velocity Head	0.19 ft
Specific Energy	0.64 ft
Froude Number	0.99
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-21
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-21
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Depth	0.45	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	39.0	cfs



VELOCITY ESTIMATION BASIN-22
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-22
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

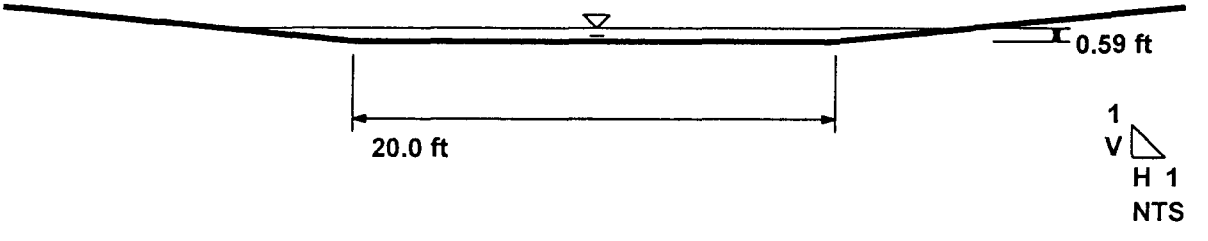
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.46	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	56.0	cfs

Results	
Depth	0.59 ft
Flow Area	15.27 ft²
Wetted Perimeter	31.85 ft
Top Width	31.80 ft
Critical Depth	0.57 ft
Critical Slope	1.70 %
Velocity	3.67 ft/s
Velocity Head	0.21 ft
Specific Energy	0.80 ft
Froude Number	0.93
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-22
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-22
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.46	%
Depth	0.59	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	56.0	cfs



VELOCITY ESTIMATION BASIN-23
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-23
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

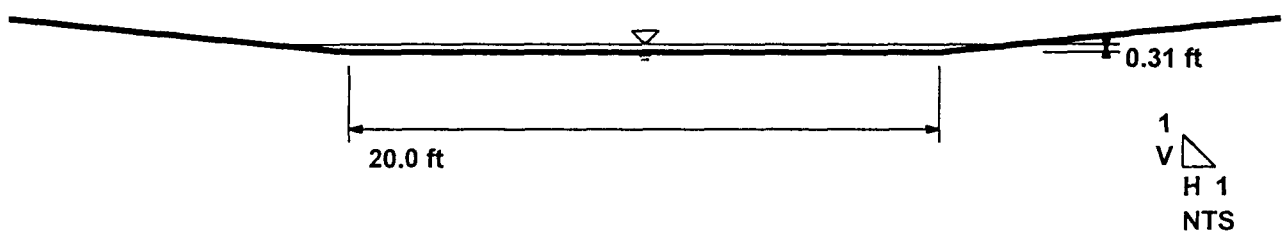
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	19.0	cfs

Results	
Depth	0.31 ft
Flow Area	7.09 ft²
Wetted Perimeter	26.18 ft
Top Width	26.15 ft
Critical Depth	0.29 ft
Critical Slope	2.07 %
Velocity	2.68 ft/s
Velocity Head	0.11 ft
Specific Energy	0.42 ft
Froude Number	0.91
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-23
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-23
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Depth	0.31	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	19.0	cfs



VELOCITY ESTIMATION BASIN-24
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-24
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

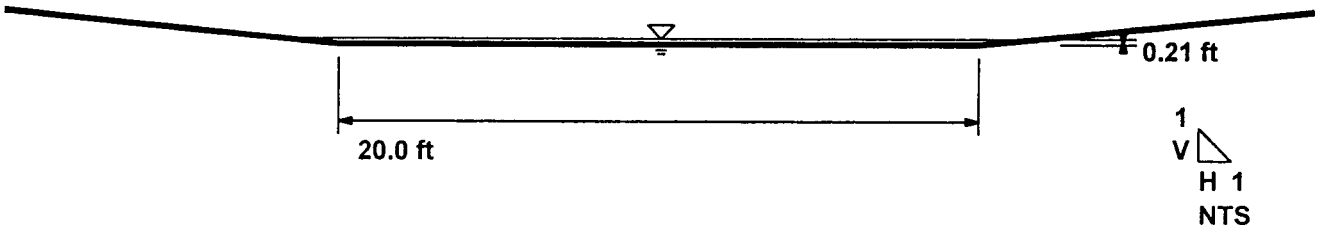
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	10.0	cfs

Results	
Depth	0.21 ft
Flow Area	4.58 ft²
Wetted Perimeter	24.17 ft
Top Width	24.15 ft
Critical Depth	0.19 ft
Critical Slope	2.34 %
Velocity	2.19 ft/s
Velocity Head	0.07 ft
Specific Energy	0.28 ft
Froude Number	0.88
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-24
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-24
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Depth	0.21	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	10.0	cfs



VELOCITY ESTIMATION BASIN-25
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-25
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

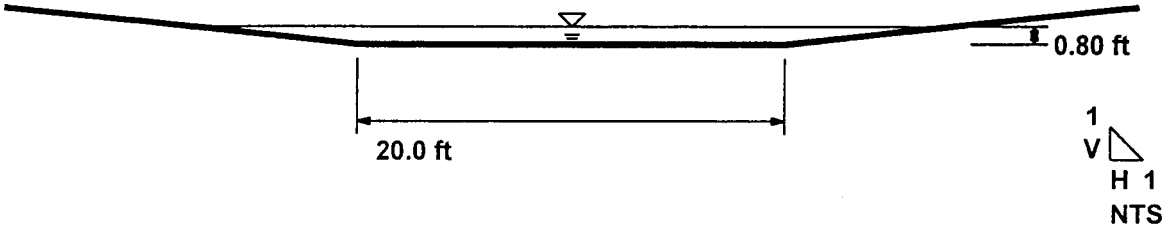
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	105.0	cfs

Results	
Depth	0.80 ft
Flow Area	22.50 ft²
Wetted Perimeter	36.13 ft
Top Width	36.05 ft
Critical Depth	0.82 ft
Critical Slope	1.53 %
Velocity	4.67 ft/s
Velocity Head	0.34 ft
Specific Energy	1.14 ft
Froude Number	1.04
Flow is supercritical.	

VELOCITY ESTIMATION BASIN-25
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-25
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Depth	0.80	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	105.0	cfs



VELOCITY ESTIMATION BASIN-26
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-26
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

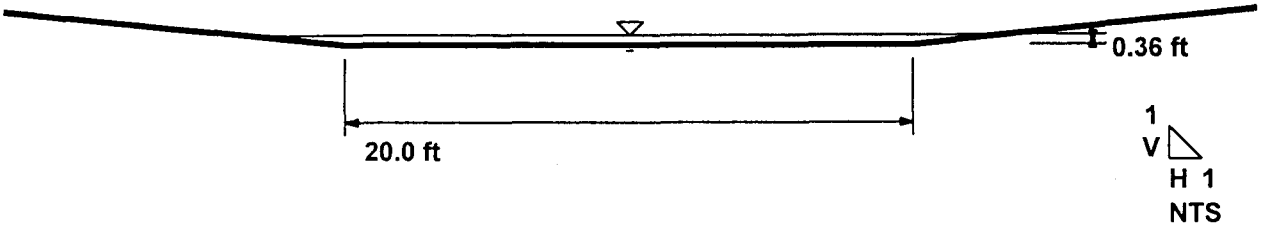
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	25.0	cfs

Results	
Depth	0.36 ft
Flow Area	8.49 ft²
Wetted Perimeter	27.23 ft
Top Width	27.20 ft
Critical Depth	0.34 ft
Critical Slope	1.96 %
Velocity	2.94 ft/s
Velocity Head	0.13 ft
Specific Energy	0.49 ft
Froude Number	0.93
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-26
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-26
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.67	%
Depth	0.36	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	25.0	cfs



VELOCITY ESTIMATION BASIN-27
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-27
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

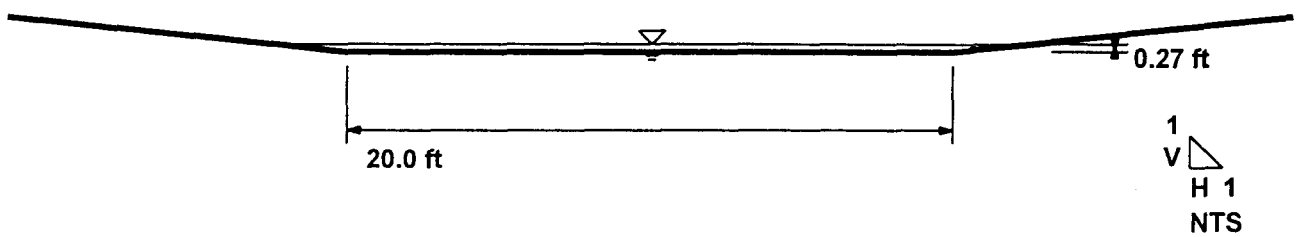
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	16.0	cfs

Results	
Depth	0.27 ft
Flow Area	6.20 ft²
Wetted Perimeter	25.48 ft
Top Width	25.45 ft
Critical Depth	0.26 ft
Critical Slope	2.14 %
Velocity	2.58 ft/s
Velocity Head	0.10 ft
Specific Energy	0.38 ft
Froude Number	0.92
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-27
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-27
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Depth	0.27	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	16.0	cfs



VELOCITY ESTIMATION BASIN-28
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-28
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

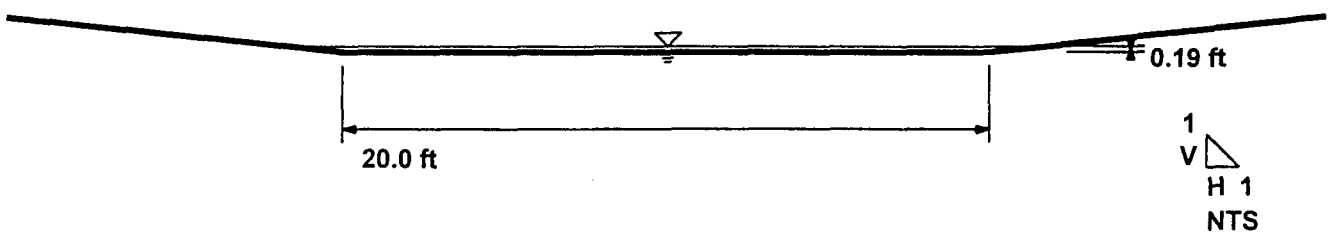
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.92	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	9.0	cfs

Results	
Depth	0.19 ft
Flow Area	4.18 ft²
Wetted Perimeter	23.84 ft
Top Width	23.82 ft
Critical Depth	0.18 ft
Critical Slope	2.39 %
Velocity	2.15 ft/s
Velocity Head	0.07 ft
Specific Energy	0.26 ft
Froude Number	0.90
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-28
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-28
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.92	%
Depth	0.19	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	9.0	cfs



VELOCITY ESTIMATION BASIN-29
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-29
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

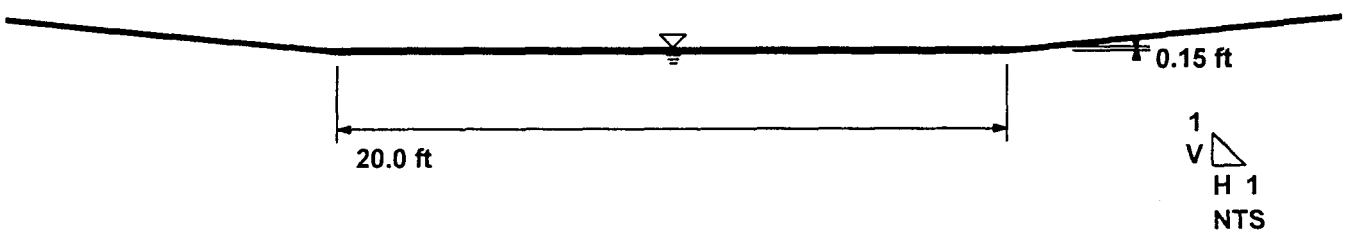
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	6.0	cfs

Results	
Depth	0.15 ft
Flow Area	3.31 ft²
Wetted Perimeter	23.09 ft
Top Width	23.07 ft
Critical Depth	0.14 ft
Critical Slope	2.60 %
Velocity	1.81 ft/s
Velocity Head	0.05 ft
Specific Energy	0.20 ft
Froude Number	0.84
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-29
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-29
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Depth	0.15	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	6.0	cfs



VELOCITY ESTIMATION BASIN-30
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-30
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

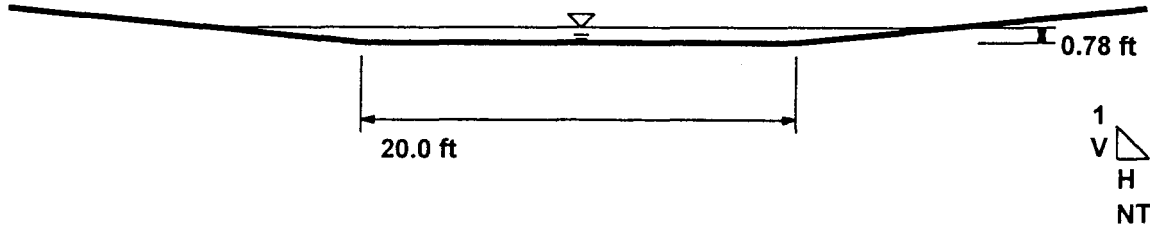
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.15	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	83.0	cfs

Results	
Depth	0.78 ft
Flow Area	21.75 ft²
Wetted Perimeter	35.71 ft
Top Width	35.64 ft
Critical Depth	0.72 ft
Critical Slope	1.59 %
Velocity	3.82 ft/s
Velocity Head	0.23 ft
Specific Energy	1.01 ft
Froude Number	0.86
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-30
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-30
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.15	%
Depth	0.78	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	83.0	cfs



VELOCITY ESTIMATION BASIN-31
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-31
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

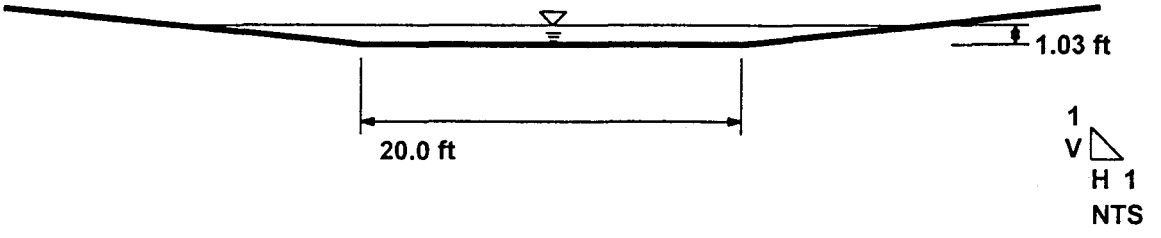
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.50	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	159.0	cfs

Results	
Depth	1.03 ft
Flow Area	31.26 ft²
Wetted Perimeter	40.73 ft
Top Width	40.63 ft
Critical Depth	1.04 ft
Critical Slope	1.43 %
Velocity	5.09 ft/s
Velocity Head	0.40 ft
Specific Energy	1.43 ft
Froude Number	1.02
Flow is supercritical.	

VELOCITY ESTIMATION BASIN-31
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-31
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.50	%
Depth	1.03	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	159.0	cfs



VELOCITY ESTIMATION BASIN-32
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-32
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

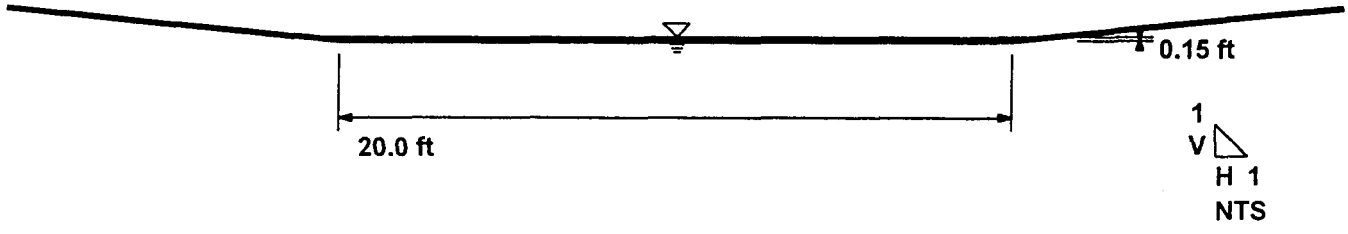
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	6.0	cfs

Results	
Depth	0.15 ft
Flow Area	3.31 ft²
Wetted Perimeter	23.09 ft
Top Width	23.07 ft
Critical Depth	0.14 ft
Critical Slope	2.60 %
Velocity	1.81 ft/s
Velocity Head	0.05 ft
Specific Energy	0.20 ft
Froude Number	0.84
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-32
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-32
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Depth	0.15	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	6.0	cfs



VELOCITY ESTIMATION BASIN-33
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-33
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

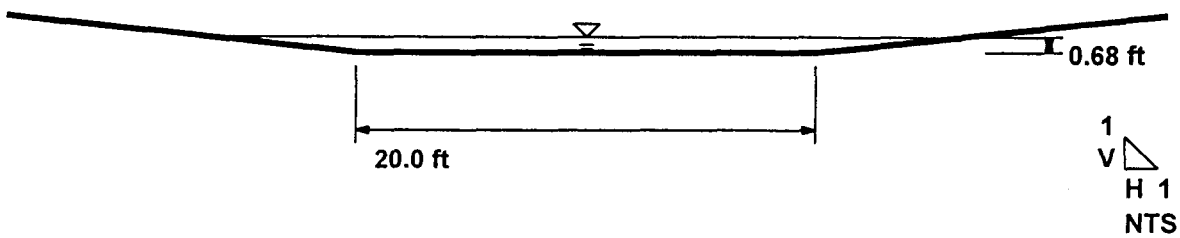
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.50	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	73.0	cfs

Results	
Depth	0.68 ft
Flow Area	18.15 ft²
Wetted Perimeter	33.62 ft
Top Width	33.56 ft
Critical Depth	0.66 ft
Critical Slope	1.62 %
Velocity	4.02 ft/s
Velocity Head	0.25 ft
Specific Energy	0.93 ft
Froude Number	0.96
Flow is subcritical.	

VELOCITY ESTIMATION BASIN-33
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-33
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.50	%
Depth	0.68	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	73.0	cfs



VELOCITY ESTIMATION BASIN-34
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-34
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

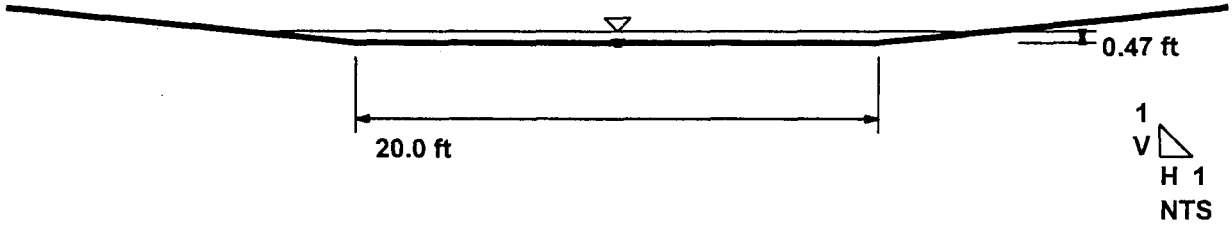
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	42.0	cfs

Results	
Depth	0.47 ft
Flow Area	11.73 ft²
Wetted Perimeter	29.53 ft
Top Width	29.48 ft
Critical Depth	0.47 ft
Critical Slope	1.79 %
Velocity	3.58 ft/s
Velocity Head	0.20 ft
Specific Energy	0.67 ft
Froude Number	1.00
Flow is supercritical.	

VELOCITY ESTIMATION BASIN-34
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-34
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Depth	0.47	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	42.0	cfs



VELOCITY ESTIMATION BASIN-35
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-35
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

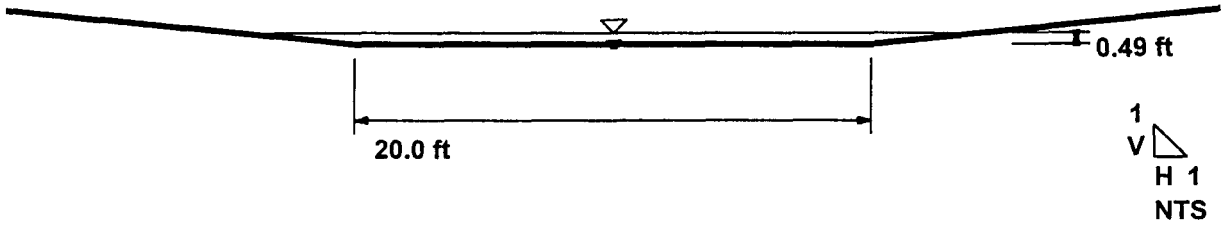
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	44.0	cfs

Results	
Depth	0.49 ft
Flow Area	12.10 ft²
Wetted Perimeter	29.78 ft
Top Width	29.73 ft
Critical Depth	0.49 ft
Critical Slope	1.77 %
Velocity	3.64 ft/s
Velocity Head	0.21 ft
Specific Energy	0.69 ft
Froude Number	1.00
Flow is supercritical.	

VELOCITY ESTIMATION BASIN-35
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-35
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.79	%
Depth	0.49	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	44.0	cfs



VELOCITY ESTIMATION BASIN-36
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-36
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

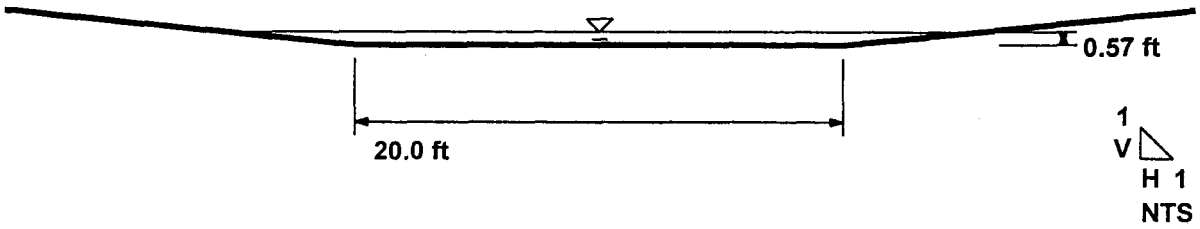
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.92	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	60.0	cfs

Results	
Depth	0.57 ft
Flow Area	14.58 ft²
Wetted Perimeter	31.41 ft
Top Width	31.36 ft
Critical Depth	0.59 ft
Critical Slope	1.68 %
Velocity	4.11 ft/s
Velocity Head	0.26 ft
Specific Energy	0.83 ft
Froude Number	1.06
Flow is supercritical.	

VELOCITY ESTIMATION BASIN-36
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-36
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.92	%
Depth	0.57	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	60.0	cfs



VELOCITY ESTIMATION BASIN-37
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-37
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

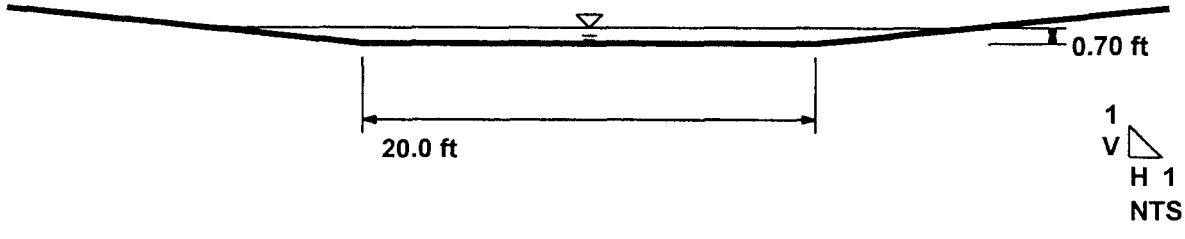
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.92	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	88.0	cfs

Results	
Depth	0.70 ft
Flow Area	18.96 ft²
Wetted Perimeter	34.11 ft
Top Width	34.04 ft
Critical Depth	0.74 ft
Critical Slope	1.57 %
Velocity	4.64 ft/s
Velocity Head	0.33 ft
Specific Energy	1.04 ft
Froude Number	1.10
Flow is supercritical.	

VELOCITY ESTIMATION BASIN-37
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-37
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.92	%
Depth	0.70	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	88.0	cfs



VELOCITY ESTIMATION BASIN-38
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-38
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

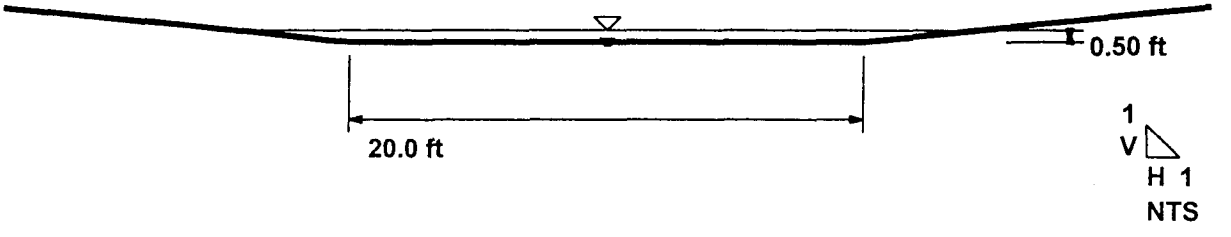
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.92	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	48.0	cfs

Results	
Depth	0.50 ft
Flow Area	12.53 ft²
Wetted Perimeter	30.07 ft
Top Width	30.02 ft
Critical Depth	0.51 ft
Critical Slope	1.75 %
Velocity	3.83 ft/s
Velocity Head	0.23 ft
Specific Energy	0.73 ft
Froude Number	1.04
Flow is supercritical.	

VELOCITY ESTIMATION BASIN-38
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-38
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.92	%
Depth	0.50	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	48.0	cfs



VELOCITY ESTIMATION BASIN-40
Worksheet for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-40
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

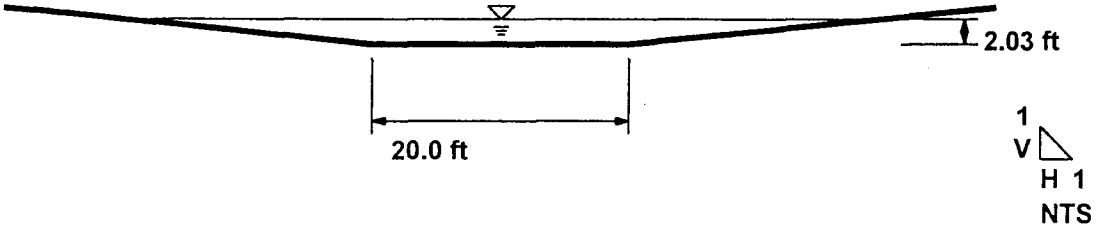
Input Data		
Mannings Coefficient	0.030	
Channel Slope	1.43	%
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	593.0	cfs

Results	
Depth	2.03 ft
Flow Area	82.06 ft²
Wetted Perimeter	60.88 ft
Top Width	60.68 ft
Critical Depth	2.13 ft
Critical Slope	1.18 %
Velocity	7.23 ft/s
Velocity Head	0.81 ft
Specific Energy	2.85 ft
Froude Number	1.10
Flow is supercritical.	

VELOCITY ESTIMATION BASIN-40
Cross Section for Trapezoidal Channel

Project Description	
Project File	c:\projects\clomr\streets.fm2
Worksheet	VELOCITY ESTIMATION BASIN-40
Flow Element	Trapezoidal Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	1.43	%
Depth	2.03	ft
Left Side Slope	10.0	H : V
Right Side Slope	10.0	H : V
Bottom Width	20.0	ft
Discharge	593.0	cfs



CROSS-SECTION 1
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 1
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data		
Channel Slope	1.9000 %	
Elevation range: 2,645.00 ft to 2,655.00 ft.		
Discharge	530.00	cfs

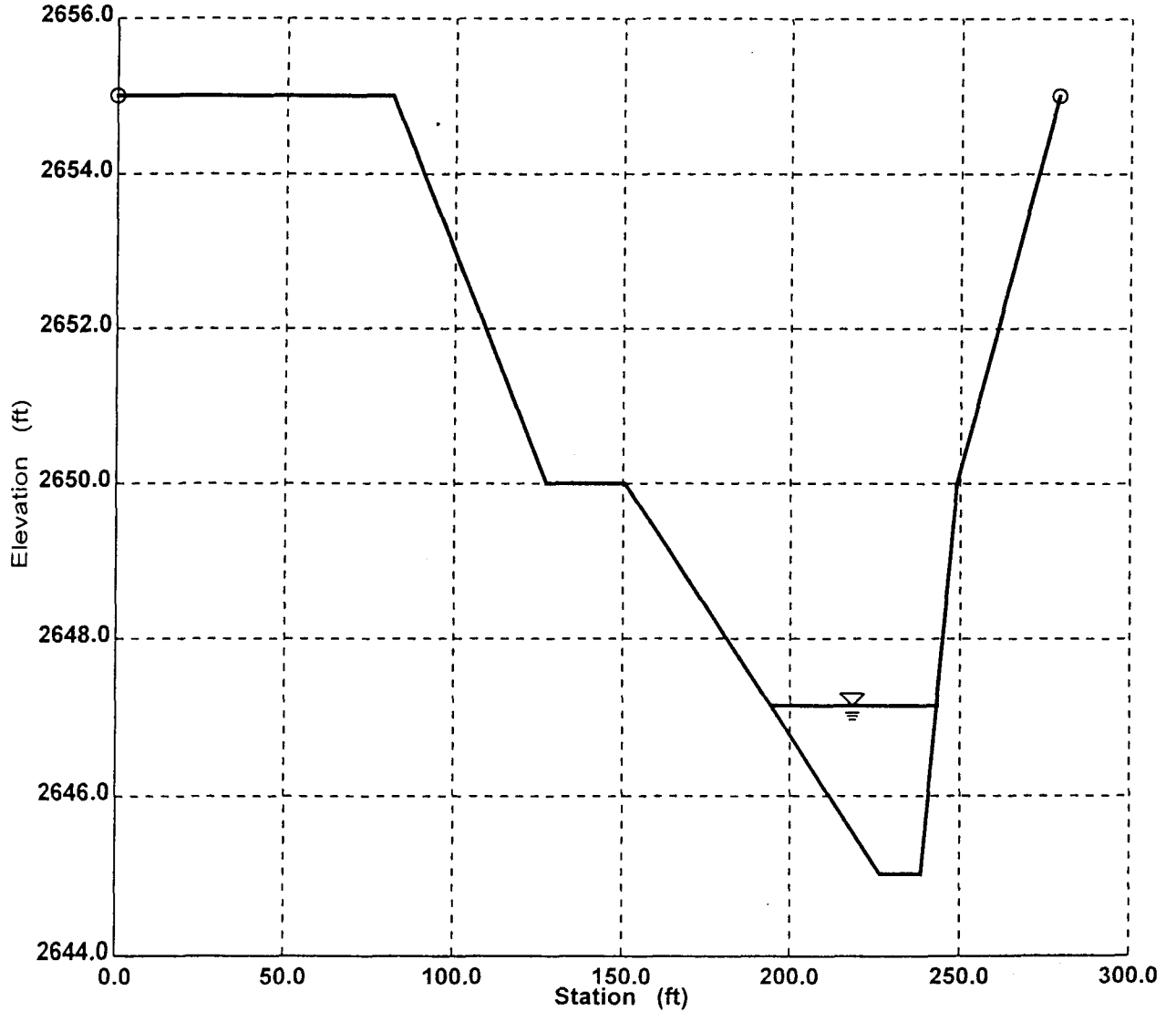
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,655.00	0.00	279.13	0.030
81.66	2,655.00			
127.64	2,650.00			
150.63	2,650.00			
227.21	2,645.00			
238.90	2,645.00			
249.46	2,650.00			
279.13	2,655.00			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,647.14	ft
Flow Area	64.85	ft²
Wetted Perimeter	49.51	ft
Top Width	48.96	ft
Height	2.14	ft
Critical Depth	2,647.39	ft
Critical Slope	0.011753	ft/ft
Velocity	8.17	ft/s
Velocity Head	1.04	ft
Specific Energy	2,648.18	ft
Froude Number	1.25	
Flow is supercritical.		

CROSS-SECTION 1
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 1
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.9000	%
Water Surface Elevation	2,647.14	ft
Discharge	530.00	cfs



CROSS-SECTION 2
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 2
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

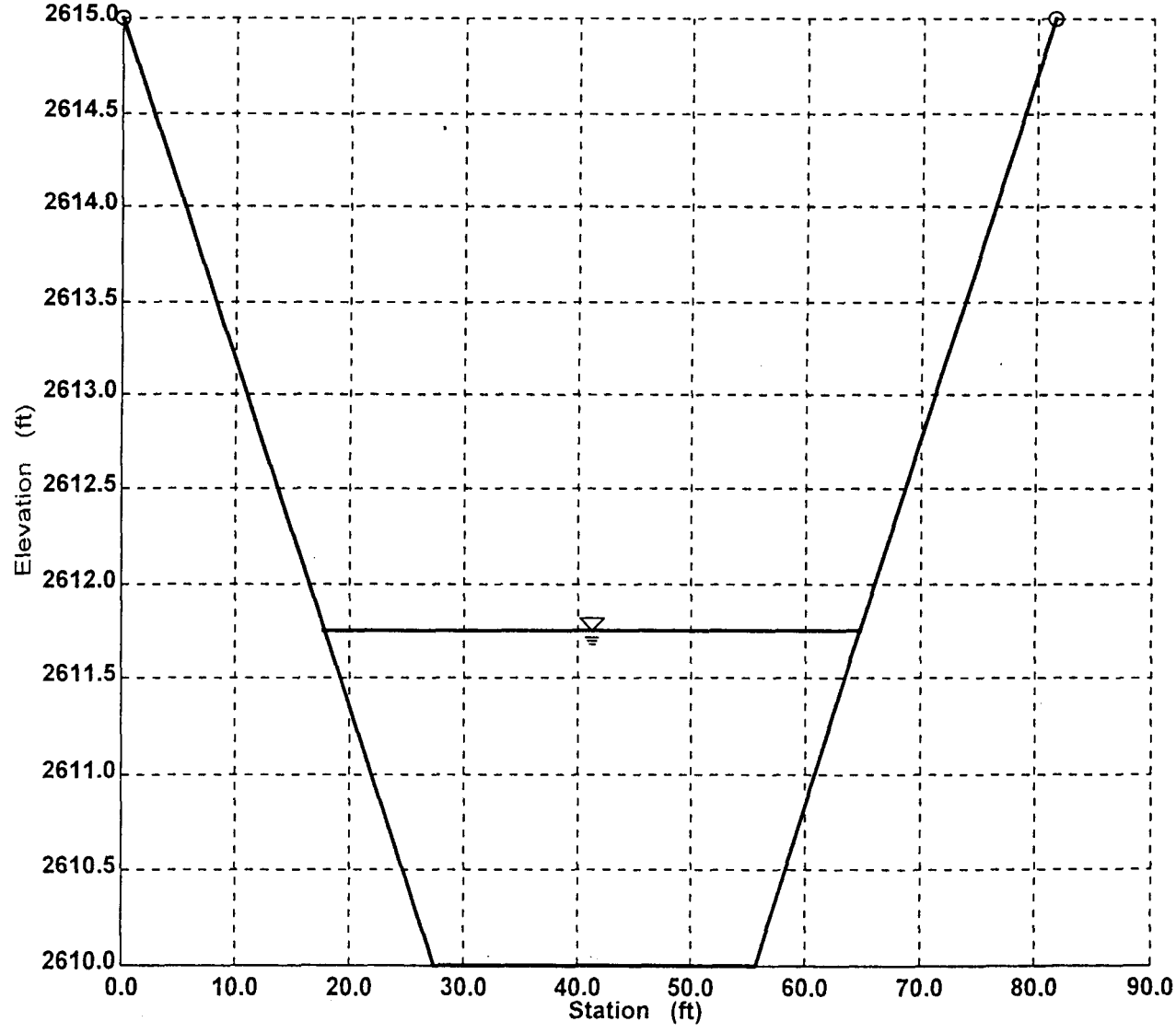
Input Data				
Channel Slope	1.8000 %			
Elevation range: 2,610.00 ft to 2,615.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,615.00	0.00	81.41	0.030
27.39	2,610.00			
55.72	2,610.00			
81.41	2,615.00			
Discharge	550.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,611.76	ft
Flow Area	66.18	ft²
Wetted Perimeter	47.31	ft
Top Width	46.99	ft
Height	1.76	ft
Critical Depth	2,611.99	ft
Critical Slope	0.011407	ft/ft
Velocity	8.31	ft/s
Velocity Head	1.07	ft
Specific Energy	2,612.83	ft
Froude Number	1.23	
Flow is supercritical.		

CROSS-SECTION 2
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 2
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.8000	%
Water Surface Elevation	2,611.76	ft
Discharge	550.00	cfs



CROSS-SECTION 3
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 3
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

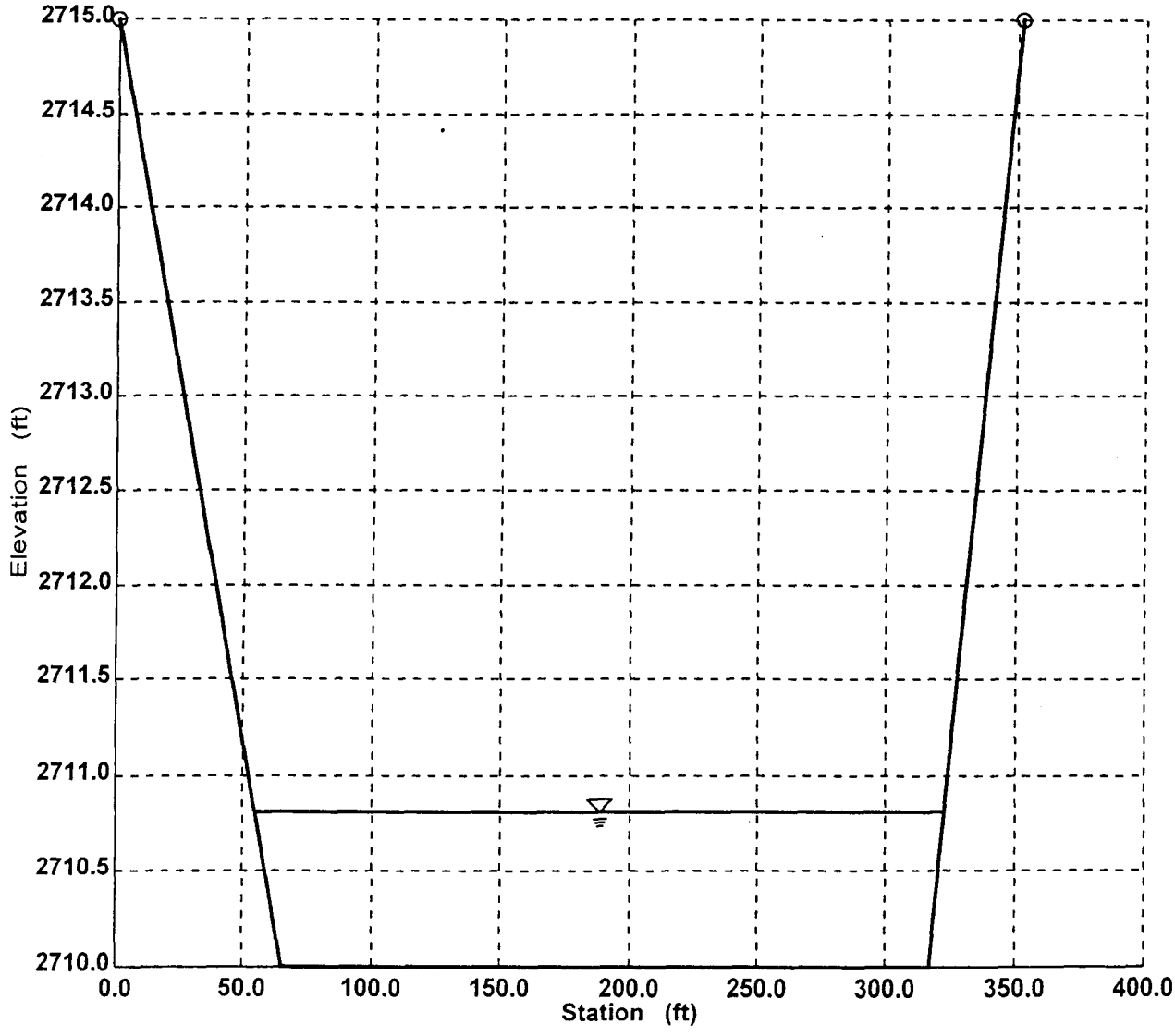
Input Data				
Channel Slope	1.7000 %			
Elevation range: 2,710.00 ft to 2,715.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,715.00	0.00	352.20	0.030
65.06	2,710.00			
316.84	2,710.00			
352.20	2,715.00			
Discharge	1,153.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,710.81	ft
Flow Area	210.07	ft²
Wetted Perimeter	268.10	ft
Top Width	268.01	ft
Height	0.81	ft
Critical Depth	2,710.86	ft
Critical Slope	0.013963	ft/ft
Velocity	5.49	ft/s
Velocity Head	0.47	ft
Specific Energy	2,711.28	ft
Froude Number	1.09	
Flow is supercritical.		

CROSS-SECTION 3
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 3
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.7000	%
Water Surface Elevation	2,710.81	ft
Discharge	1,153.00	cfs



CROSS-SECTION 4
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 4
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

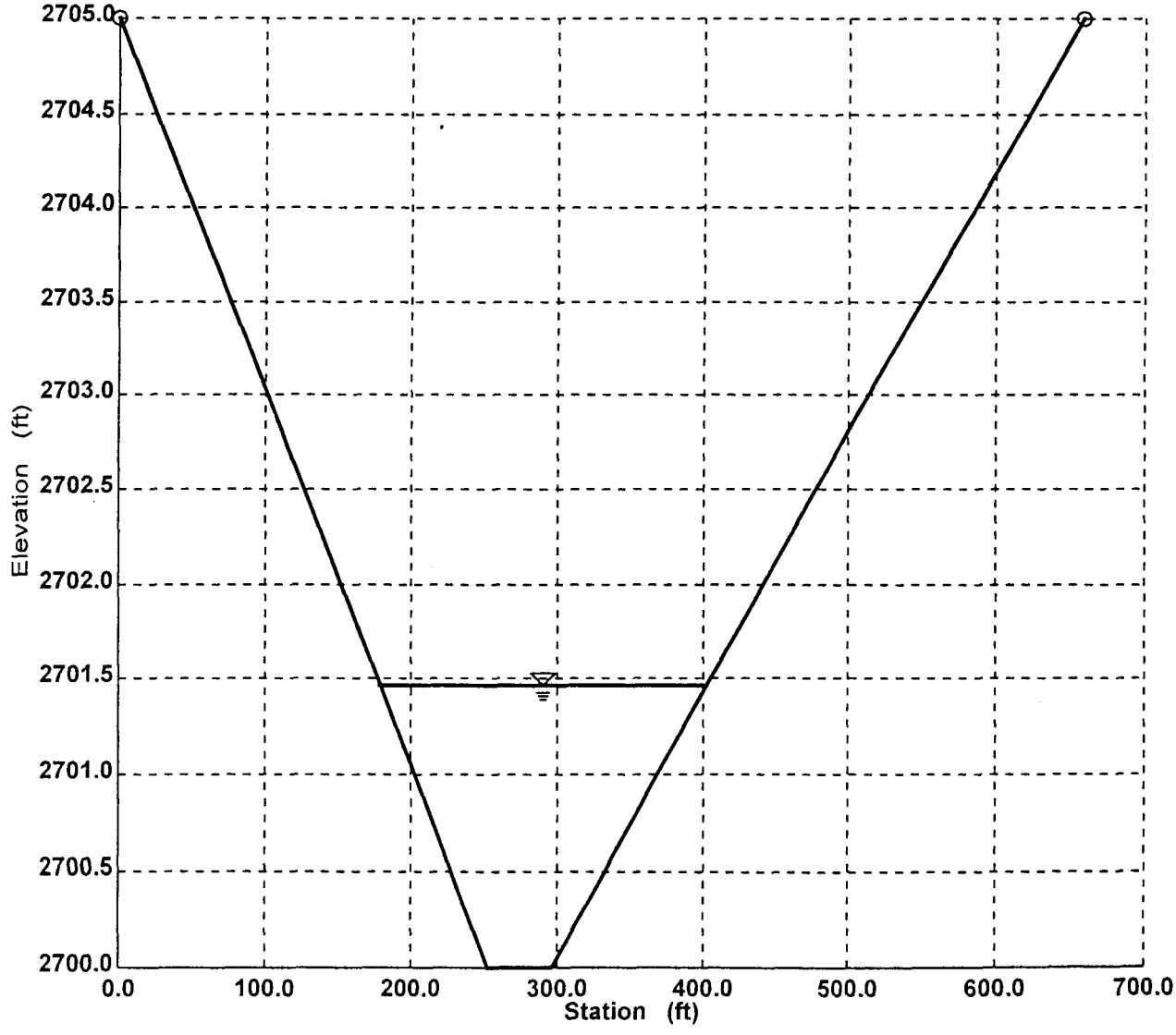
Input Data				
Channel Slope	1.7000 %			
Elevation range: 2,700.00 ft to 2,705.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,705.00	0.00	658.78	0.030
253.16	2,700.00			
296.01	2,700.00			
658.78	2,705.00			
Discharge	1,153.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,701.47	ft
Flow Area	195.34	ft²
Wetted Perimeter	223.55	ft
Top Width	223.52	ft
Height	1.47	ft
Critical Depth	2,701.54	ft
Critical Slope	0.013519	ft/ft
Velocity	5.90	ft/s
Velocity Head	0.54	ft
Specific Energy	2,702.01	ft
Froude Number	1.11	
Flow is supercritical.		

CROSS-SECTION 4
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 4
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.7000	%
Water Surface Elevation	2,701.47	ft
Discharge	1,153.00	cfs



CROSS-SECTION 5
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 5
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data		
Channel Slope	1.7000 %	
Elevation range:	2,620.00 ft to 2,625.00 ft.	
Discharge	721.00	cfs

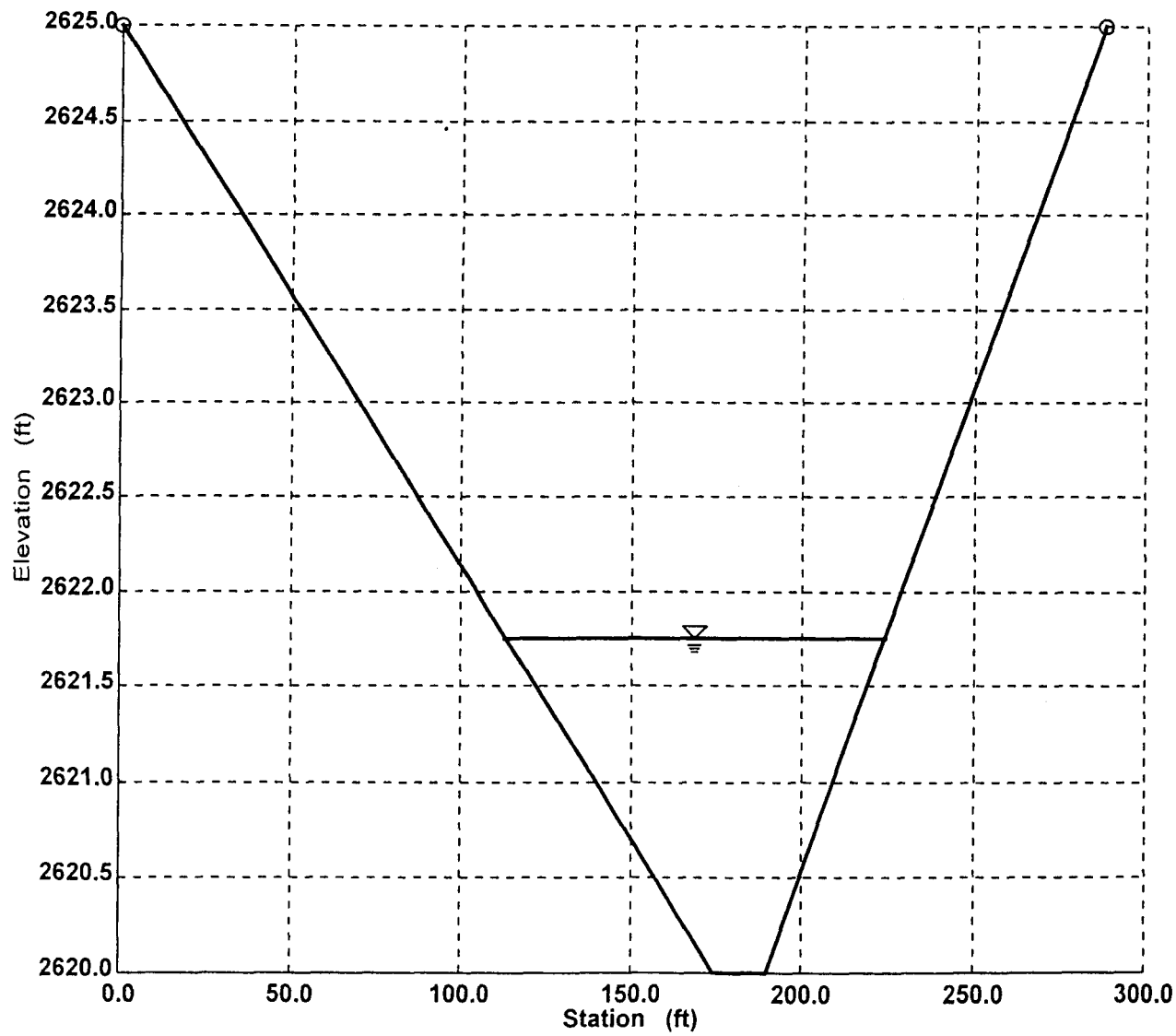
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,625.00	0.00	287.86	0.030
174.52	2,620.00			
190.09	2,620.00			
287.86	2,625.00			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,621.76	ft
Flow Area	111.54	ft²
Wetted Perimeter	111.38	ft
Top Width	111.31	ft
Height	1.76	ft
Critical Depth	2,621.86	ft
Critical Slope	0.012889	ft/ft
Velocity	6.46	ft/s
Velocity Head	0.65	ft
Specific Energy	2,622.41	ft
Froude Number	1.14	
Flow is supercritical.		

CROSS-SECTION 5
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 5
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.7000	%
Water Surface Elevation	2,621.76	ft
Discharge	721.00	cfs



CROSS-SECTION 6
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 6
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

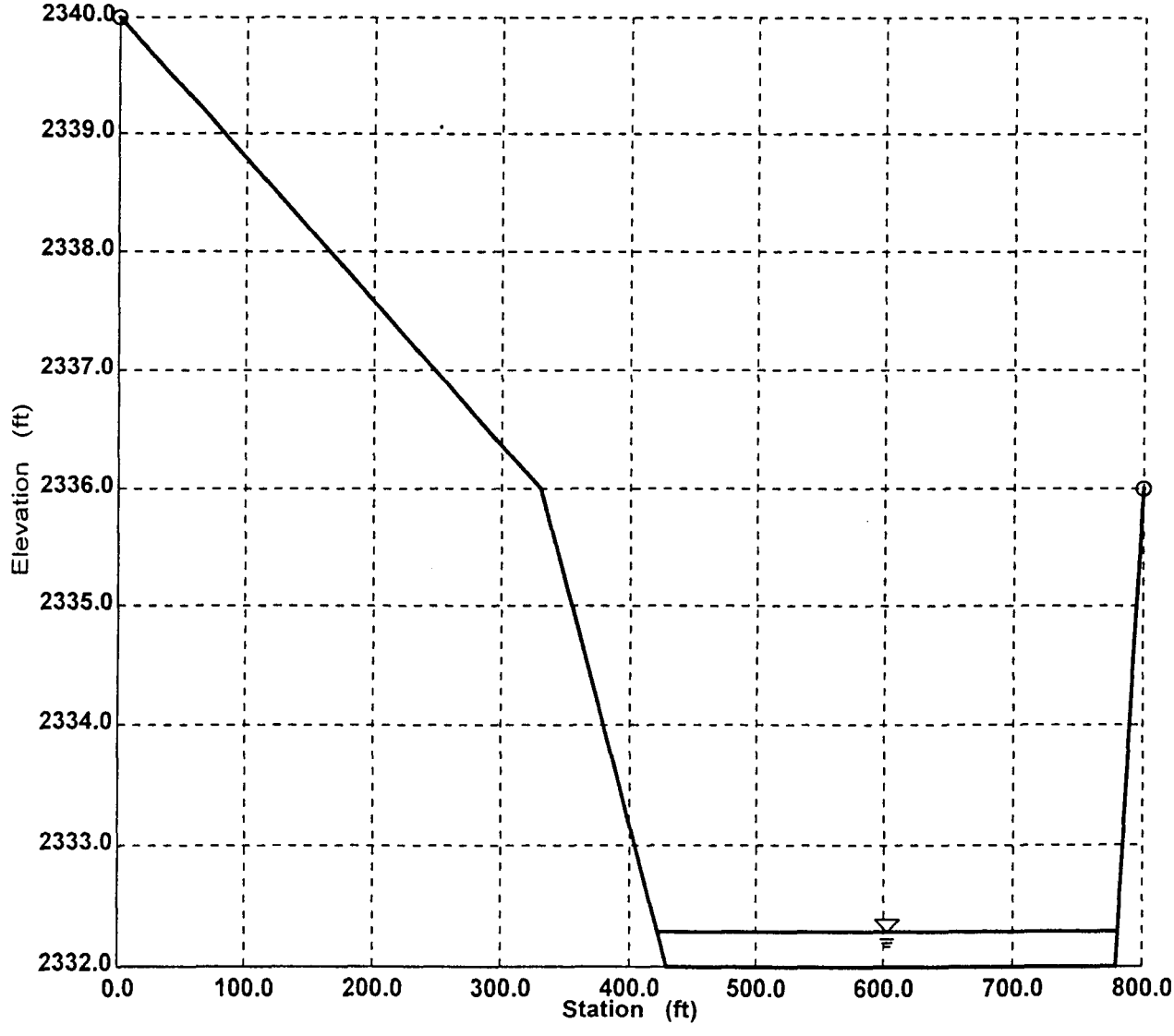
Input Data				
Channel Slope	0.8330 %			
Elevation range: 2,332.00 ft to 2,340.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,340.00	0.00	800.00	0.030
330.00	2,336.00			
430.00	2,332.00			
780.00	2,332.00			
800.00	2,336.00			
Discharge	192.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,332.28	ft
Flow Area	99.69	ft²
Wetted Perimeter	358.48	ft
Top Width	358.44	ft
Height	0.28	ft
Critical Depth	2,332.21	ft
Critical Slope	0.022128	ft/ft
Velocity	1.93	ft/s
Velocity Head	0.06	ft
Specific Energy	2,332.34	ft
Froude Number	0.64	
Flow is subcritical.		

CROSS-SECTION 6
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 6
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	0.8330	%
Water Surface Elevation	2,332.28	ft
Discharge	192.00	cfs



CROSS-SECTION 7
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 7
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

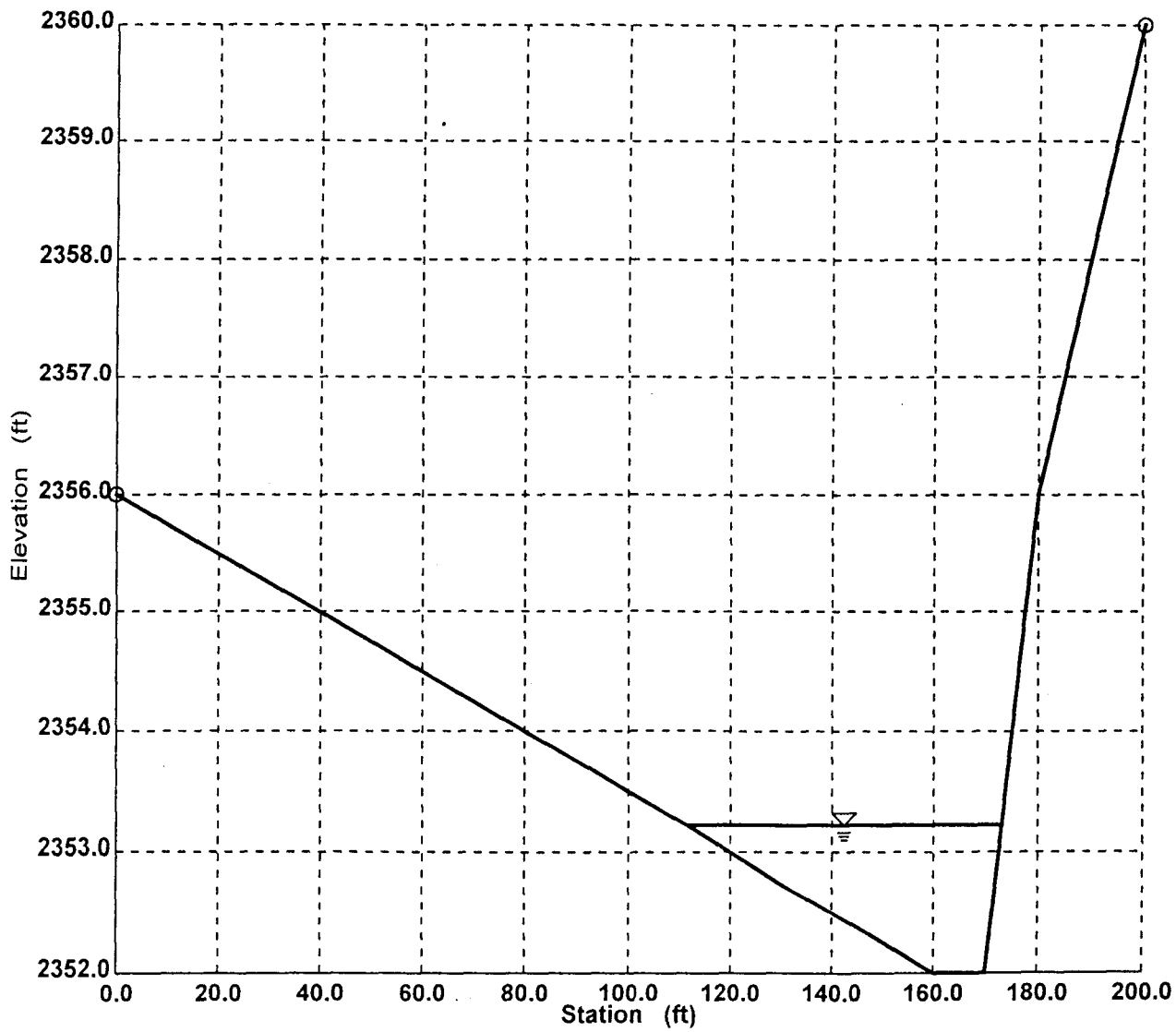
Input Data				
Channel Slope	1.3300 %			
Elevation range: 2,352.00 ft to 2,360.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,356.00	0.00	200.00	0.030
160.00	2,352.00			
170.00	2,352.00			
180.00	2,356.00			
200.00	2,360.00			
Discharge	192.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,353.20	ft
Flow Area	42.76	ft²
Wetted Perimeter	61.36	ft
Top Width	61.11	ft
Height	1.20	ft
Critical Depth	2,353.17	ft
Critical Slope	0.014964	ft/ft
Velocity	4.49	ft/s
Velocity Head	0.31	ft
Specific Energy	2,353.52	ft
Froude Number	0.95	
Flow is subcritical.		

CROSS-SECTION 7
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 7
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.3300	%
Water Surface Elevation	2,353.20	ft
Discharge	192.00	cfs



CROSS-SECTION 8
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 8
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

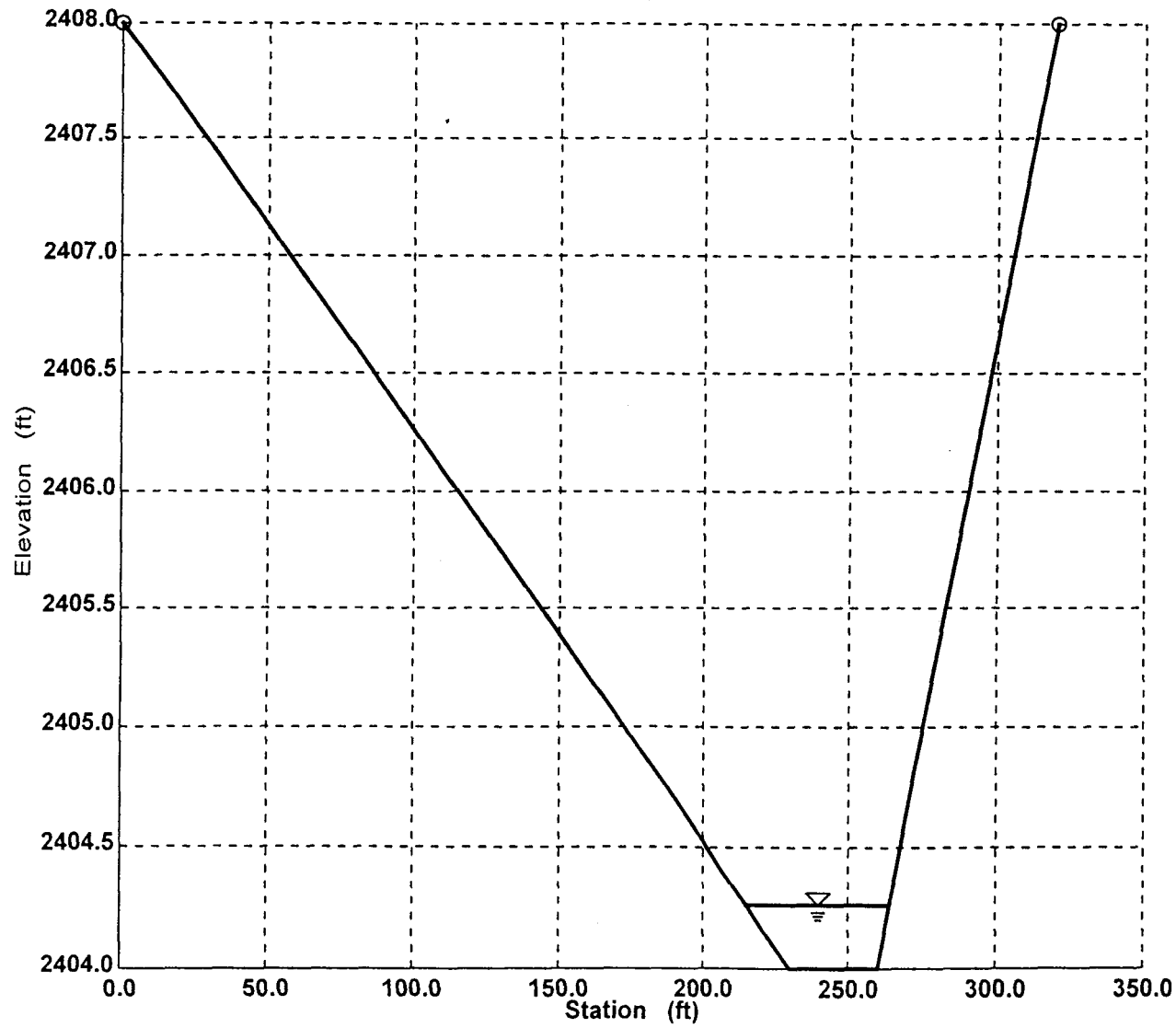
Input Data				
Channel Slope	0.9100 %			
Elevation range: 2,404.00 ft to 2,408.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,408.00	0.00	320.00	0.030
230.00	2,404.00			
260.00	2,404.00			
320.00	2,408.00			
Discharge	17.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,404.26	ft
Flow Area	10.21	ft^2
Wetted Perimeter	48.80	ft
Top Width	48.79	ft
Height	0.26	ft
Critical Depth	2,404.20	ft
Critical Slope	0.023870	ft/ft
Velocity	1.67	ft/s
Velocity Head	0.04	ft
Specific Energy	2,404.30	ft
Froude Number	0.64	
Flow is subcritical.		

CROSS-SECTION 8
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 8
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	0.9100	%
Water Surface Elevation	2,404.26	ft
Discharge	17.00	cfs



CROSS-SECTION 9
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 9
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

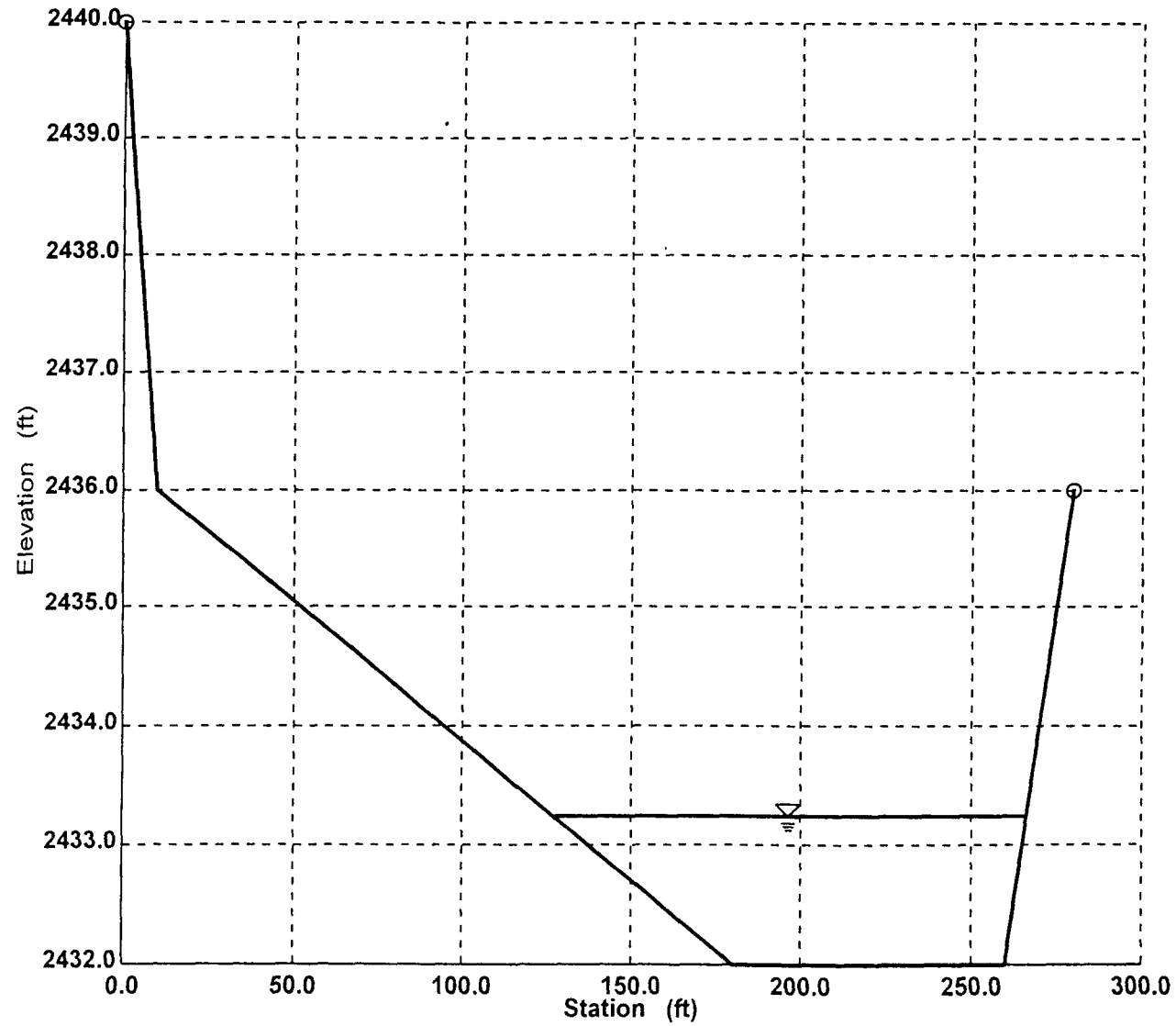
Input Data				
Channel Slope	1.2500 %			
Elevation range: 2,432.00 ft to 2,440.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,440.00	0.00	280.00	0.030
10.00	2,436.00			
180.00	2,432.00			
260.00	2,432.00			
280.00	2,436.00			
Discharge	736.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,433.24	ft
Flow Area	135.27	ft²
Wetted Perimeter	138.88	ft
Top Width	138.75	ft
Height	1.24	ft
Critical Depth	2,433.22	ft
Critical Slope	0.013307	ft/ft
Velocity	5.44	ft/s
Velocity Head	0.46	ft
Specific Energy	2,433.70	ft
Froude Number	0.97	
Flow is subcritical.		

CROSS-SECTION 9
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 9
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.2500	%
Water Surface Elevation	2,433.24	ft
Discharge	736.00	cfs



CROSS-SECTION 10
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 10
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

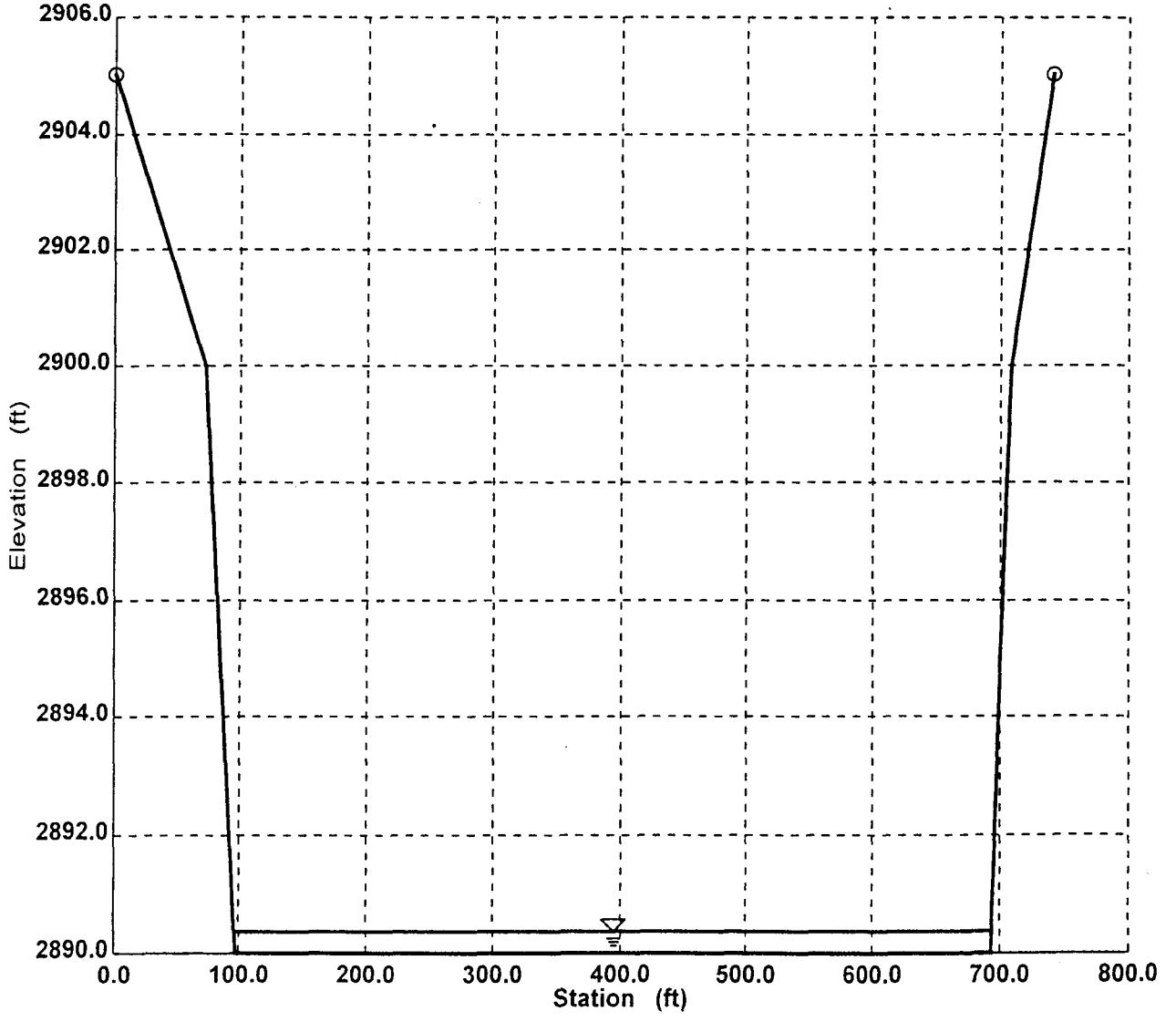
Input Data				
Channel Slope	1.4300 %			
Elevation range: 2,890.00 ft to 2,905.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,905.00	0.00	741.23	0.030
72.39	2,900.00			
84.80	2,895.00			
97.21	2,890.00			
693.16	2,890.00			
701.01	2,895.00			
708.86	2,900.00			
741.23	2,905.00			
Discharge	600.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,890.35	ft
Flow Area	206.02	ft²
Wetted Perimeter	597.52	ft
Top Width	597.35	ft
Height	0.35	ft
Critical Depth	2,890.32	ft
Critical Slope	0.019272	ft/ft
Velocity	2.91	ft/s
Velocity Head	0.13	ft
Specific Energy	2,890.48	ft
Froude Number	0.87	
Flow is subcritical.		

CROSS-SECTION 10
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 10
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.4300	%
Water Surface Elevation	2,890.35	ft
Discharge	600.00	cfs



CROSS-SECTION 11
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 11
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

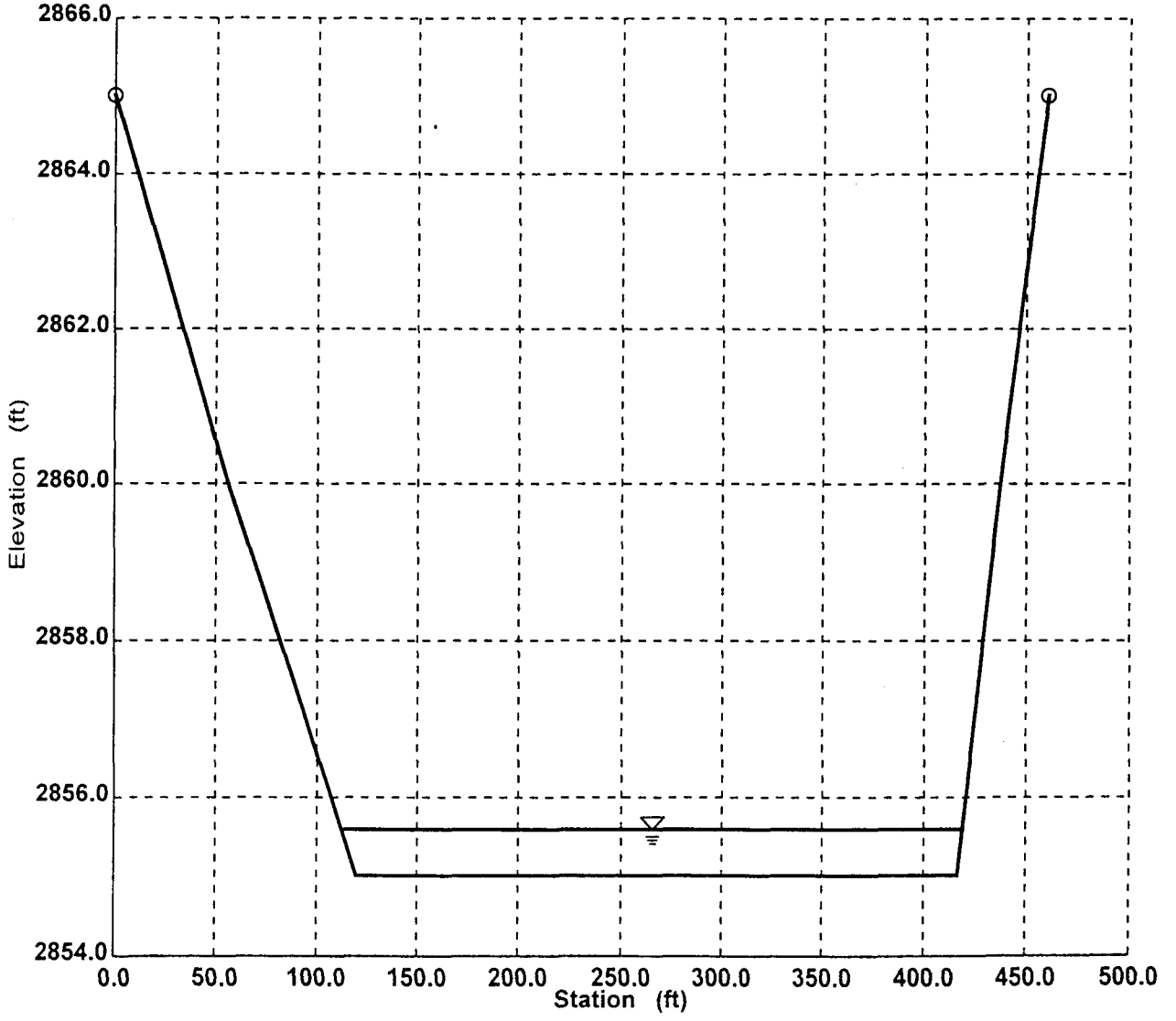
Input Data				
Channel Slope	1.4300 %			
Elevation range: 2,855.00 ft to 2,865.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,865.00	0.00	460.45	0.030
56.21	2,860.00			
120.12	2,855.00			
416.55	2,855.00			
436.57	2,860.00			
460.45	2,865.00			
Discharge	700.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,855.57	ft
Flow Area	172.95	ft²
Wetted Perimeter	306.16	ft
Top Width	306.07	ft
Height	0.57	ft
Critical Depth	2,855.55	ft
Critical Slope	0.016050	ft/ft
Velocity	4.05	ft/s
Velocity Head	0.25	ft
Specific Energy	2,855.83	ft
Froude Number	0.95	
Flow is subcritical.		

CROSS-SECTION 11
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 11
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.4300	%
Water Surface Elevation	2,855.57	ft
Discharge	700.00	cfs



CROSS-SECTION 12
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 12
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

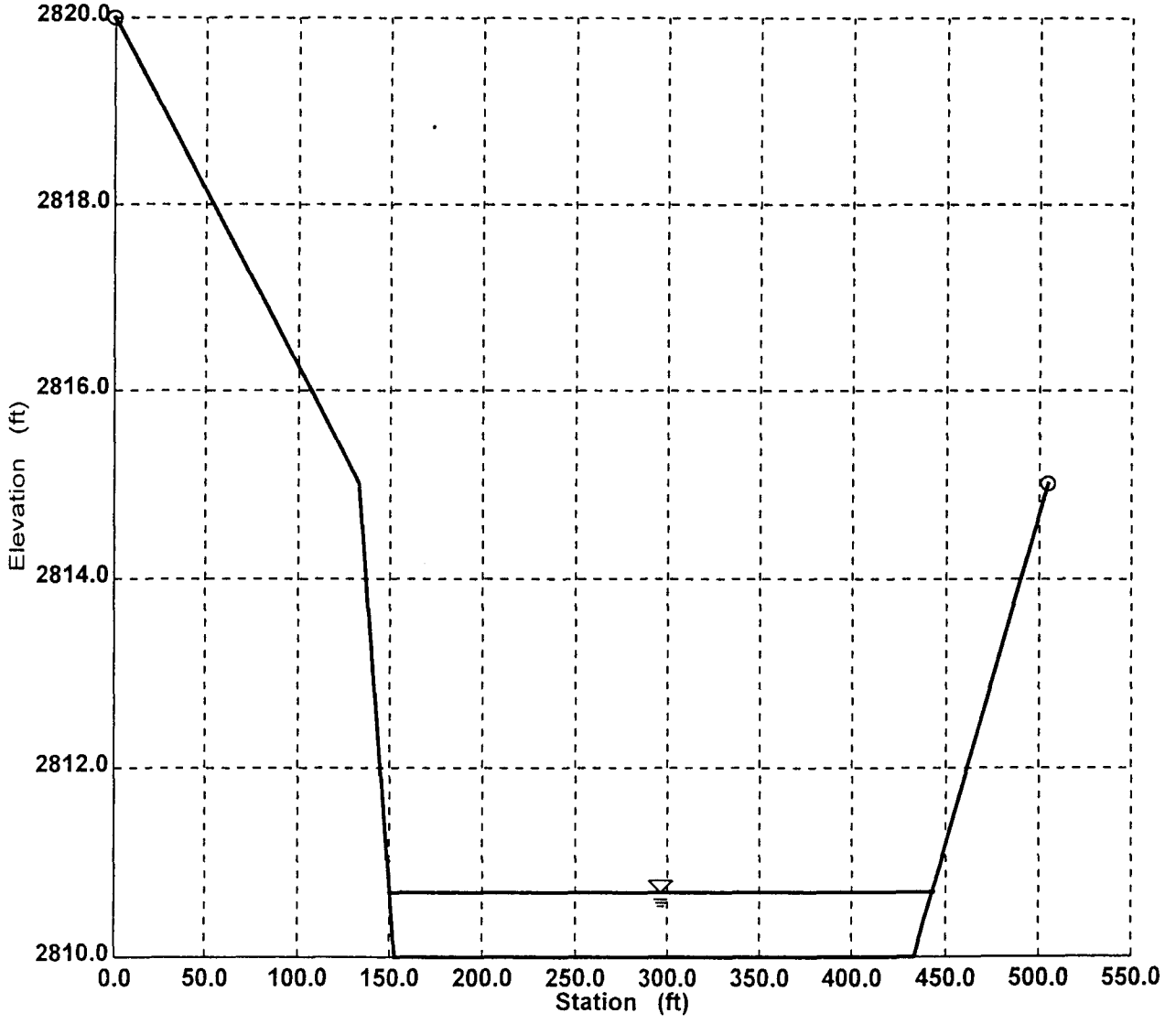
Input Data				
Channel Slope	1.4300 %			
Elevation range: 2,810.00 ft to 2,820.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,820.00	0.00	505.16	0.030
132.44	2,815.00			
152.46	2,810.00			
433.52	2,810.00			
505.16	2,815.00			
Discharge	900.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,810.69	ft
Flow Area	197.80	ft²
Wetted Perimeter	293.79	ft
Top Width	293.68	ft
Height	0.69	ft
Critical Depth	2,810.68	ft
Critical Slope	0.015042	ft/ft
Velocity	4.55	ft/s
Velocity Head	0.32	ft
Specific Energy	2,811.01	ft
Froude Number	0.98	
Flow is subcritical.		

CROSS-SECTION 12
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 12
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.4300	%
Water Surface Elevation	2,810.69	ft
Discharge	900.00	cfs



CROSS-SECTION 13
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 13
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

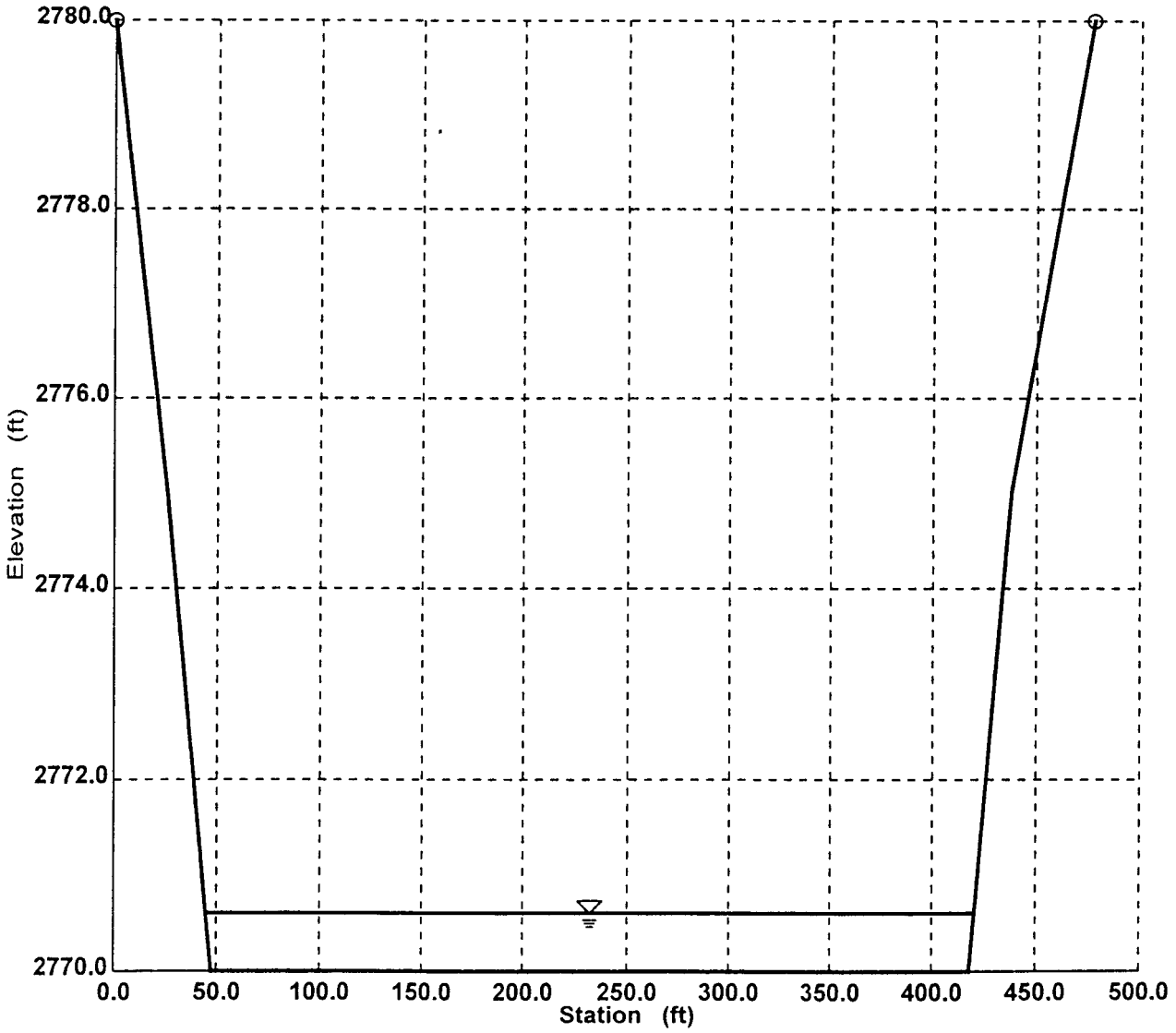
Input Data				
Channel Slope	1.4300 %			
Elevation range: 2,770.00 ft to 2,780.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,780.00	0.00	477.11	0.030
26.34	2,775.00			
47.48	2,770.00			
418.21	2,770.00			
437.84	2,775.00			
477.11	2,780.00			
Discharge	1,000.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,770.62	ft
Flow Area	232.56	ft²
Wetted Perimeter	375.96	ft
Top Width	375.81	ft
Height	0.62	ft
Critical Depth	2,770.61	ft
Critical Slope	0.015524	ft/ft
Velocity	4.30	ft/s
Velocity Head	0.29	ft
Specific Energy	2,770.91	ft
Froude Number	0.96	
Flow is subcritical.		

CROSS-SECTION 13
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 13
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.4300	%
Water Surface Elevation	2,770.62	ft
Discharge	1,000.00	cfs



CROSS-SECTION 14
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 14
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

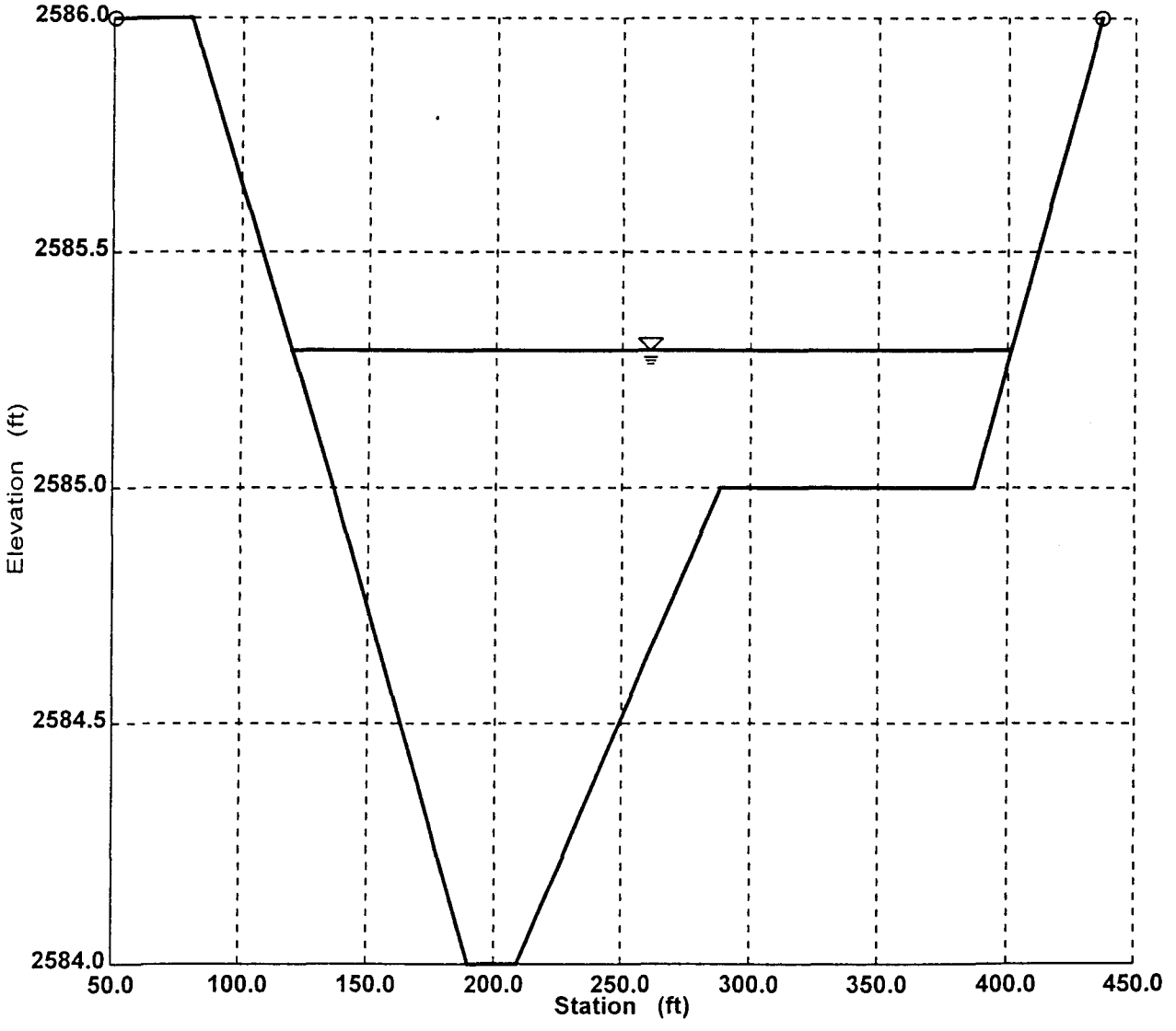
Input Data				
Channel Slope	1.6700 %			
Elevation range: 2,584.00 ft to 2,586.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
50.53	2,586.00	50.53	436.85	0.030
80.32	2,586.00			
136.34	2,585.00			
190.24	2,584.00			
209.24	2,584.00			
288.65	2,585.00			
387.60	2,585.00			
436.85	2,586.00			
Discharge	725.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,585.29	ft
Flow Area	163.11	ft²
Wetted Perimeter	281.87	ft
Top Width	281.85	ft
Height	1.29	ft
Critical Depth	2,585.30	ft
Critical Slope	0.015652	ft/ft
Velocity	4.44	ft/s
Velocity Head	0.31	ft
Specific Energy	2,585.60	ft
Froude Number	1.03	
Flow is supercritical.		

CROSS-SECTION 14
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 14
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.6700	%
Water Surface Elevation	2,585.29	ft
Discharge	725.00	cfs



CROSS-SECTION 15
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 15
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data		
Channel Slope	1.6700 %	
Elevation range: 2,429.00 ft to 2,430.00 ft.		
Discharge	760.00	cfs

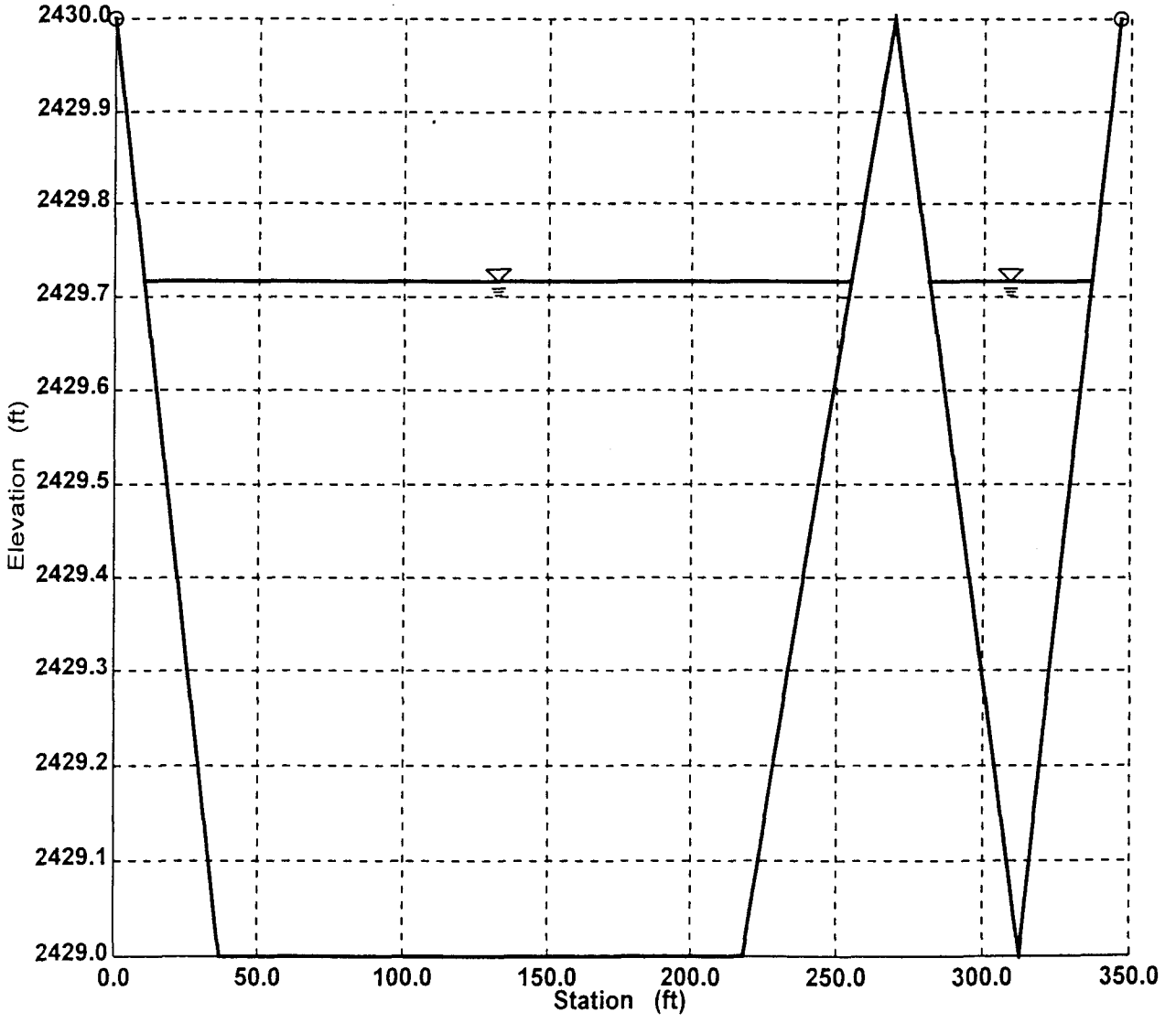
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,430.00	0.00	346.44	0.030
37.07	2,429.00			
217.87	2,429.00			
269.21	2,430.00			
312.21	2,429.00			
346.44	2,430.00			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,429.72	ft
Flow Area	171.90	ft²
Wetted Perimeter	299.42	ft
Top Width	299.39	ft
Height	0.72	ft
Critical Depth	2,429.73	ft
Critical Slope	0.015706	ft/ft
Velocity	4.42	ft/s
Velocity Head	0.30	ft
Specific Energy	2,430.02	ft
Froude Number	1.03	
Flow is supercritical.		
Flow is divided.		

CROSS-SECTION 15
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 15
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.6700	%
Water Surface Elevation	2,429.72	ft
Discharge	760.00	cfs



CROSS-SECTION 16
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 16
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

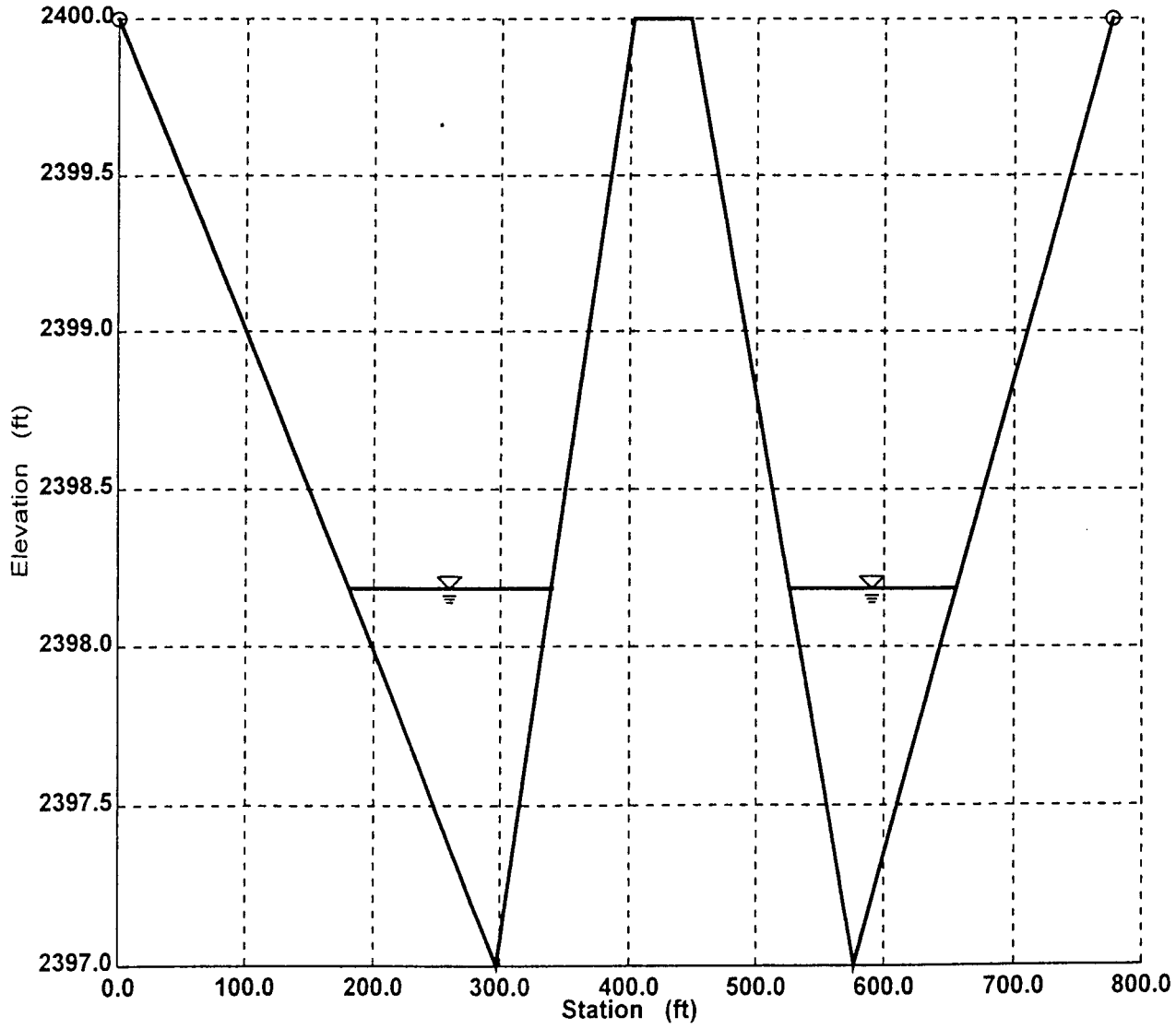
Input Data				
Channel Slope	1.6700 %			
Elevation range: 2,397.00 ft to 2,400.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,400.00	0.00	777.00	0.030
298.00	2,397.00			
404.00	2,400.00			
448.00	2,400.00			
576.00	2,397.00			
777.00	2,400.00			
Discharge	772.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,398.18	ft
Flow Area	171.13	ft²
Wetted Perimeter	289.23	ft
Top Width	289.18	ft
Height	1.18	ft
Critical Depth	2,398.20	ft
Critical Slope	0.015555	ft/ft
Velocity	4.51	ft/s
Velocity Head	0.32	ft
Specific Energy	2,398.50	ft
Froude Number	1.03	
Flow is supercritical.		
Flow is divided.		

CROSS-SECTION 16
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 16
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.6700	%
Water Surface Elevation	2,398.18	ft
Discharge	772.00	cfs



CROSS-SECTION 17
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 17
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

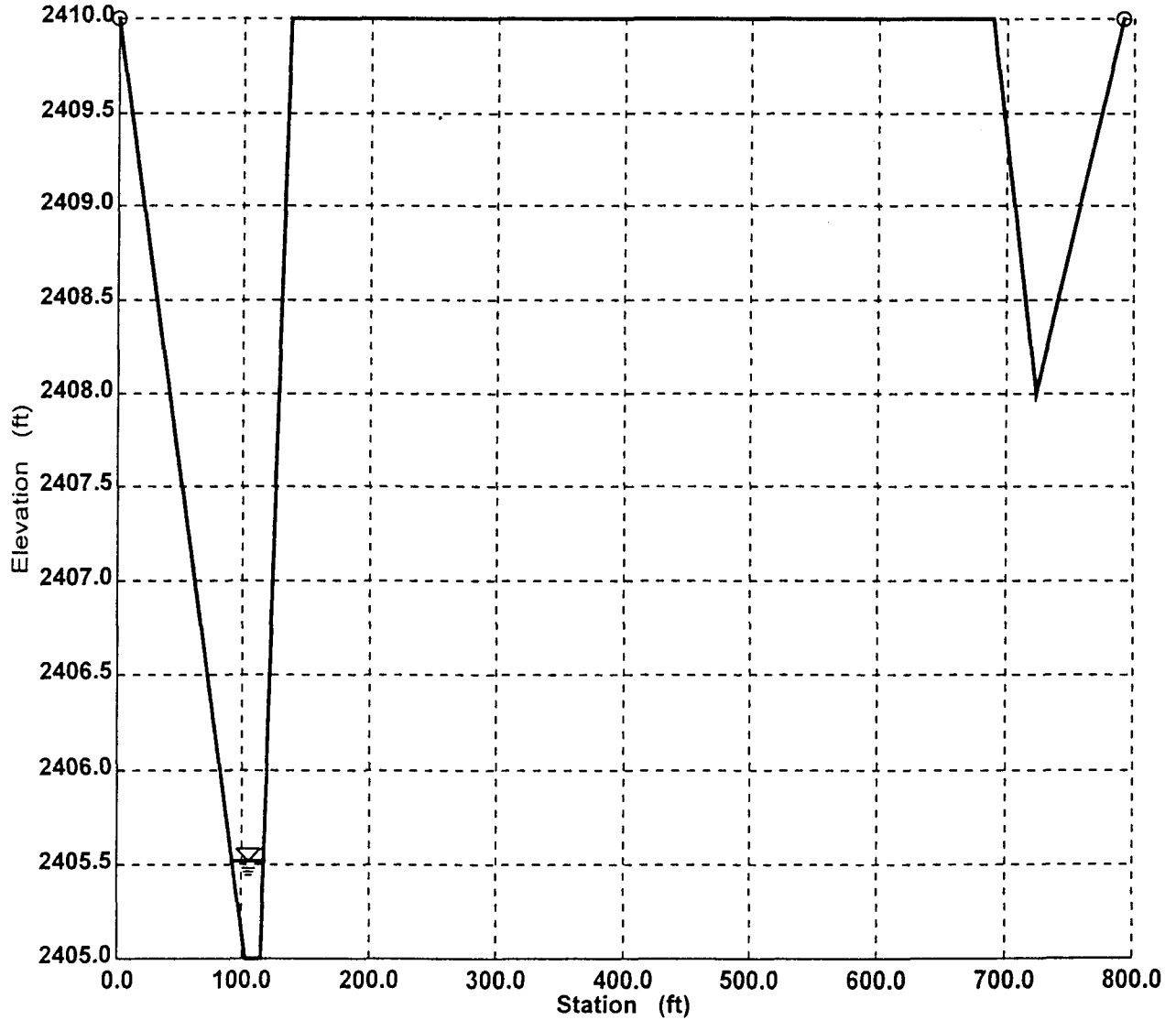
Input Data				
Channel Slope	1.5600 %			
Elevation range: 2,405.00 ft to 2,410.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,410.00	0.00	792.11	0.030
102.24	2,405.00			
115.30	2,405.00			
136.36	2,410.00			
689.86	2,410.00			
723.17	2,408.00			
792.11	2,410.00			
Discharge	33.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,405.52	ft
Flow Area	10.03	ft²
Wetted Perimeter	25.87	ft
Top Width	25.79	ft
Height	0.52	ft
Critical Depth	2,405.50	ft
Critical Slope	0.018244	ft/ft
Velocity	3.29	ft/s
Velocity Head	0.17	ft
Specific Energy	2,405.68	ft
Froude Number	0.93	
Flow is subcritical.		

CROSS-SECTION 17
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 17
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.5600	%
Water Surface Elevation	2,405.52	ft
Discharge	33.00	cfs



CROSS-SECTION 18
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 18
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

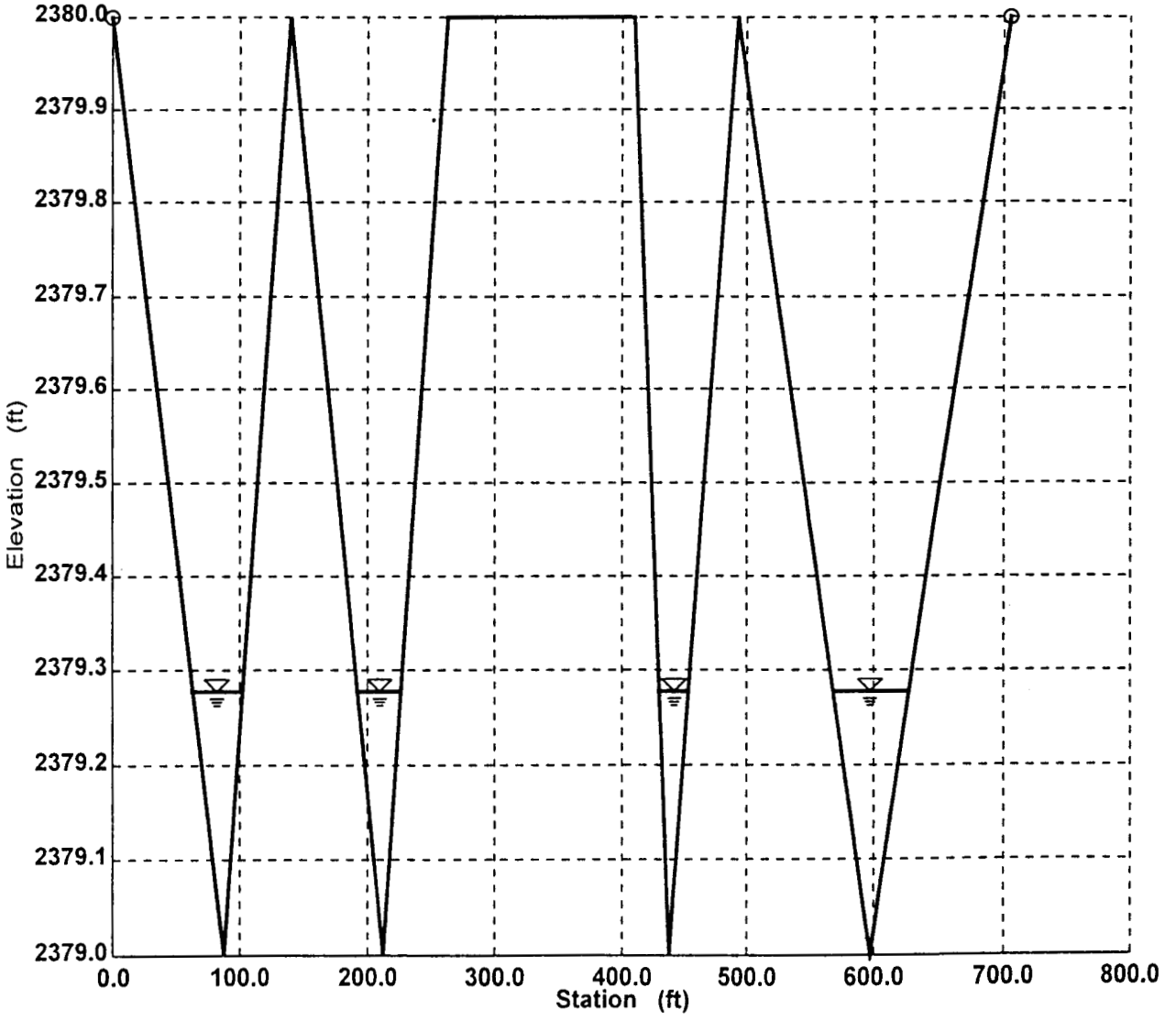
Input Data				
Channel Slope	1.5600 %			
Elevation range: 2,379.00 ft to 2,380.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,380.00	0.00	705.45	0.030
87.15	2,379.00			
139.16	2,380.00			
212.19	2,379.00			
263.88	2,380.00			
410.57	2,380.00			
437.50	2,379.00			
493.31	2,380.00			
597.33	2,379.00			
705.45	2,380.00			
Discharge	36.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,379.28	ft
Flow Area	21.66	ft²
Wetted Perimeter	155.61	ft
Top Width	155.60	ft
Height	0.28	ft
Critical Depth	2,379.25	ft
Critical Slope	0.026137	ft/ft
Velocity	1.66	ft/s
Velocity Head	0.04	ft
Specific Energy	2,379.32	ft
Froude Number	0.79	
Flow is subcritical.		
Flow is divided.		

CROSS-SECTION 18
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 18
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.5600	%
Water Surface Elevation	2,379.28	ft
Discharge	36.00	cfs



CROSS-SECTION 19
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 19
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

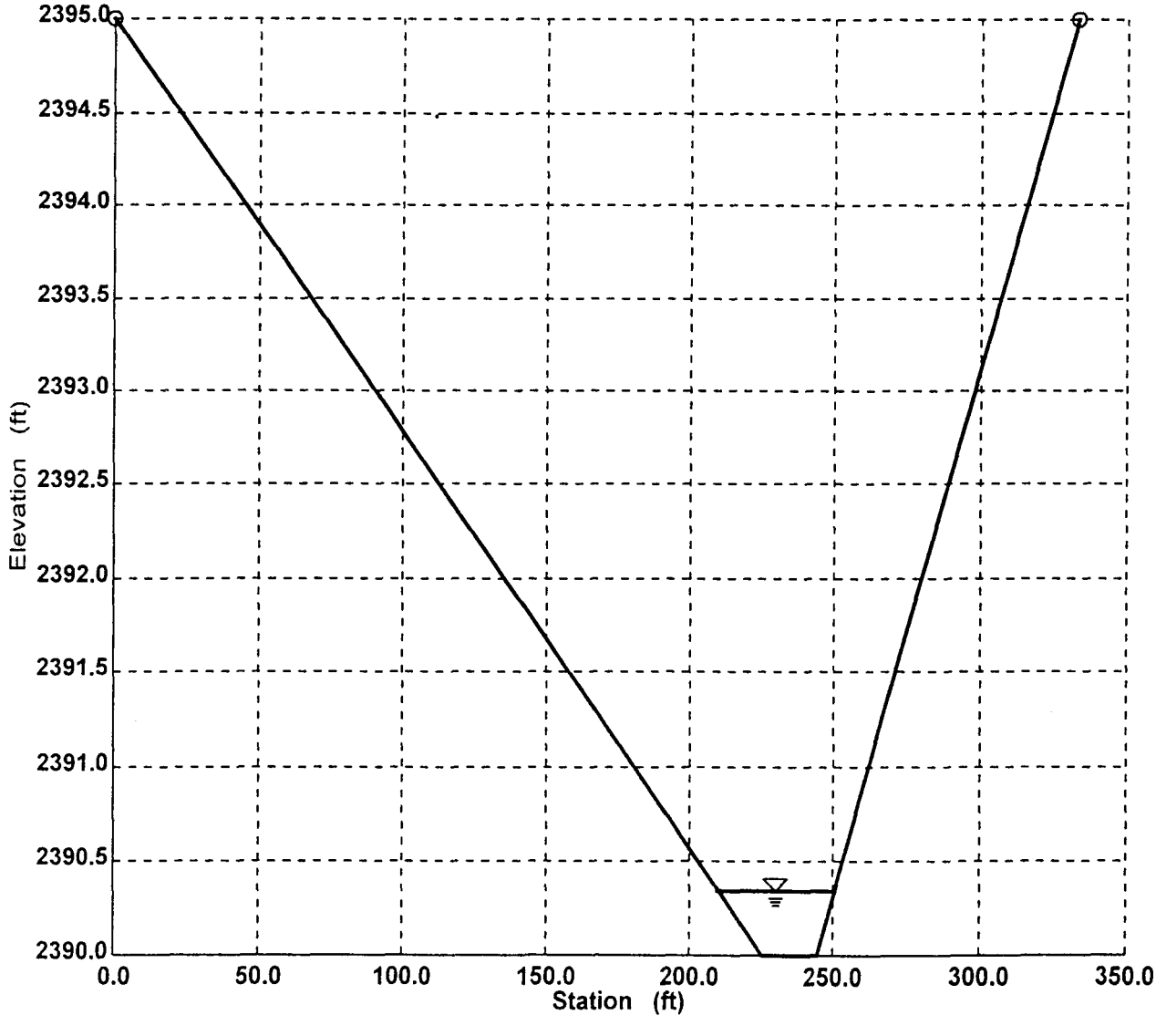
Input Data				
Channel Slope	1.5600 %			
Elevation range:	2,390.00 ft to 2,395.00 ft.			
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,395.00	0.00	333.59	0.030
225.07	2,390.00			
244.41	2,390.00			
333.59	2,395.00			
Discharge	25.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,390.34	ft
Flow Area	10.18	ft²
Wetted Perimeter	40.67	ft
Top Width	40.66	ft
Height	0.34	ft
Critical Depth	2,390.31	ft
Critical Slope	0.021296	ft/ft
Velocity	2.46	ft/s
Velocity Head	0.09	ft
Specific Energy	2,390.43	ft
Froude Number	0.87	
Flow is subcritical.		

CROSS-SECTION 19
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 19
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.5600	%
Water Surface Elevation	2,390.34	ft
Discharge	25.00	cfs



CROSS-SECTION 20
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 20
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

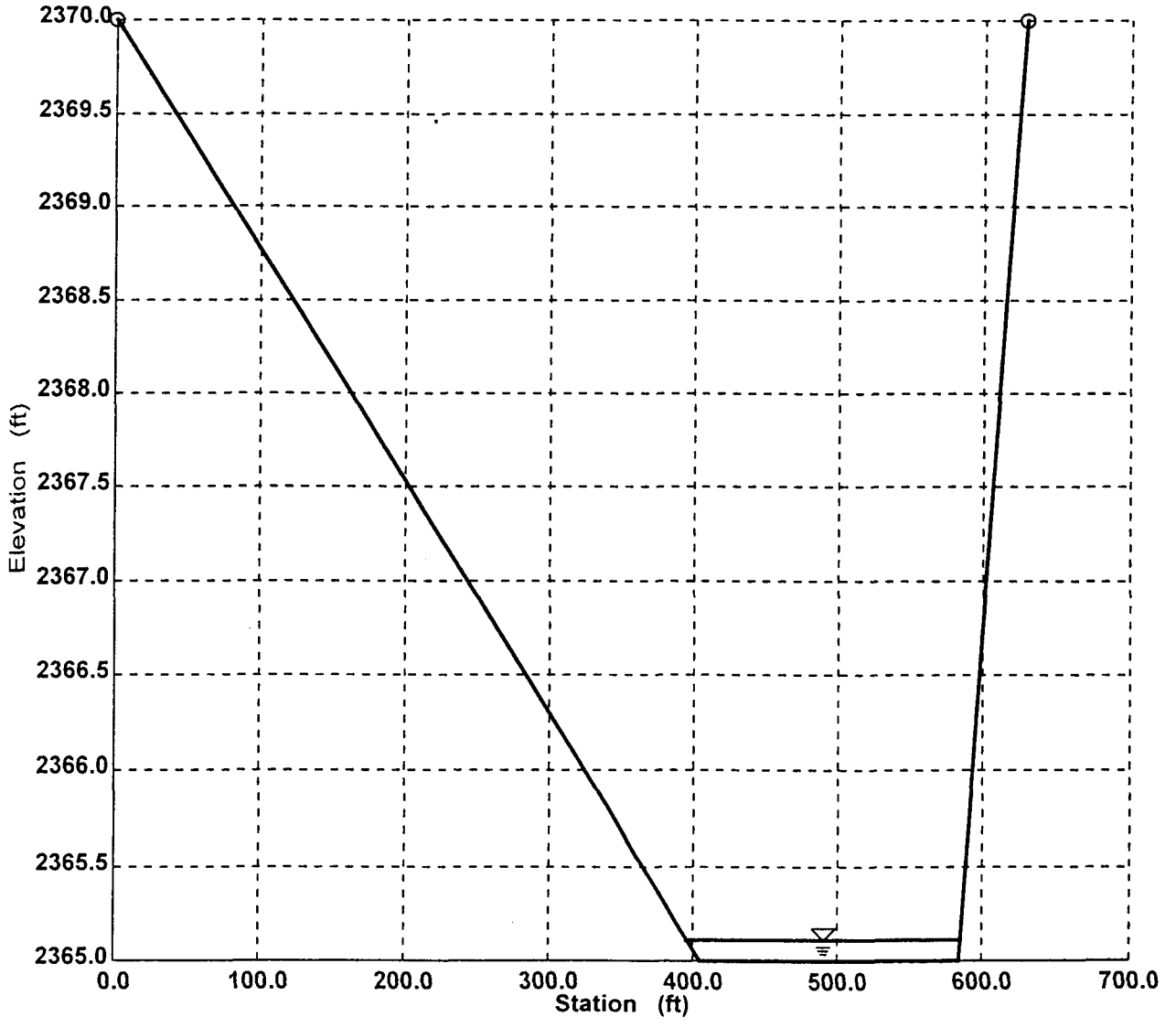
Input Data				
Channel Slope	1.5600 %			
Elevation range: 2,365.00 ft to 2,370.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,370.00	0.00	628.03	0.030
404.86	2,365.00			
584.22	2,365.00			
628.03	2,370.00			
Discharge	30.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,365.11	ft
Flow Area	21.02	ft²
Wetted Perimeter	189.59	ft
Top Width	189.58	ft
Height	0.11	ft
Critical Depth	2,365.09	ft
Critical Slope	0.028990	ft/ft
Velocity	1.43	ft/s
Velocity Head	0.03	ft
Specific Energy	2,365.15	ft
Froude Number	0.76	
Flow is subcritical.		

CROSS-SECTION 20
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 20
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.5600	%
Water Surface Elevation	2,365.11	ft
Discharge	30.00	cfs



CROSS-SECTION 21
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 21
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

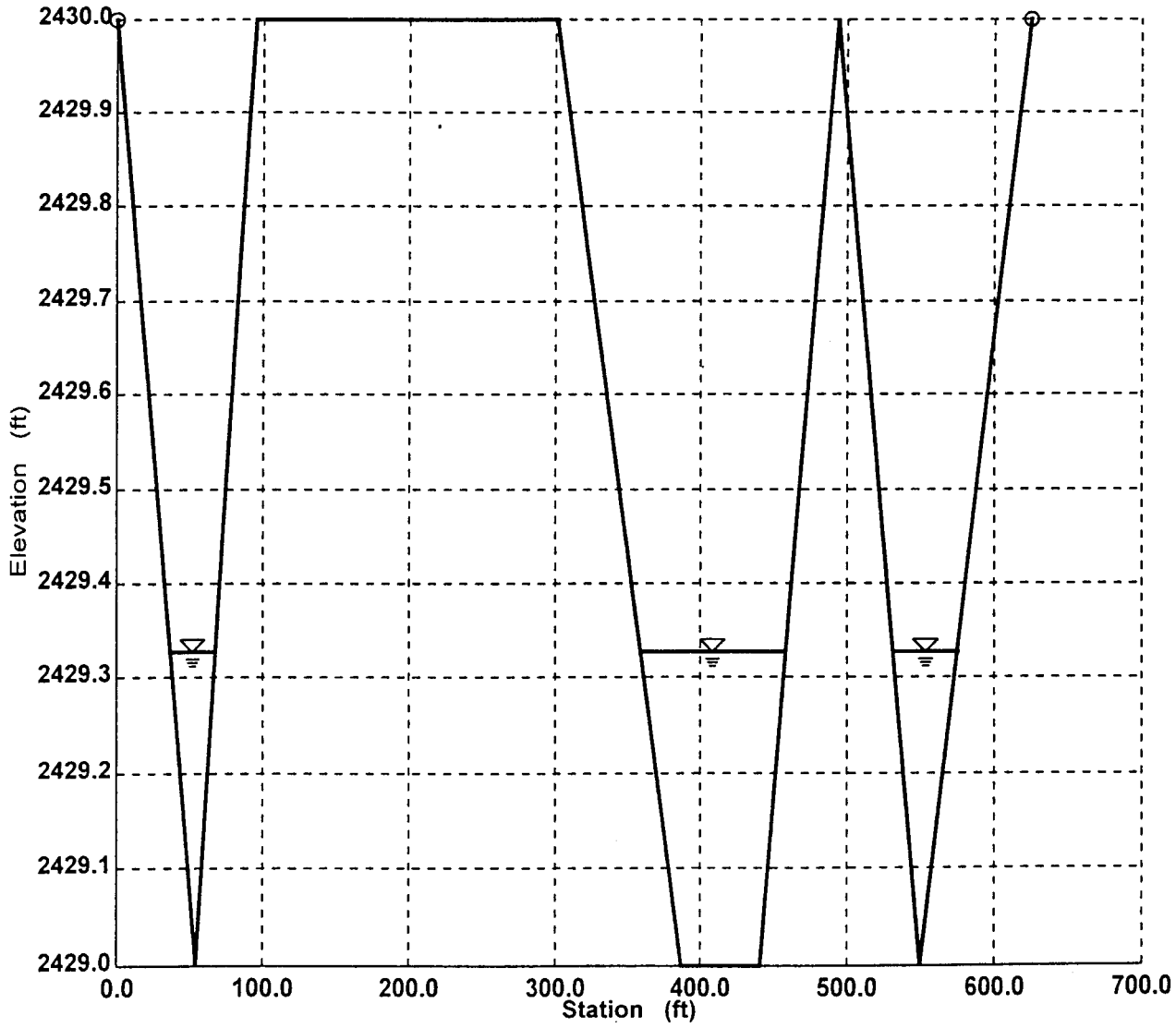
Input Data				
Channel Slope	1.6700 %			
Elevation range: 2,429.00 ft to 2,430.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,430.00	0.00	625.39	0.030
54.39	2,429.00			
95.39	2,430.00			
301.77	2,430.00			
386.73	2,429.00			
440.28	2,429.00			
493.26	2,430.00			
549.10	2,429.00			
625.39	2,430.00			
Discharge	85.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,429.33	ft
Flow Area	37.09	ft²
Wetted Perimeter	173.16	ft
Top Width	173.15	ft
Height	0.33	ft
Critical Depth	2,429.31	ft
Critical Slope	0.022353	ft/ft
Velocity	2.29	ft/s
Velocity Head	0.08	ft
Specific Energy	2,429.41	ft
Froude Number	0.87	
Flow is subcritical.		
Flow is divided.		

CROSS-SECTION 21
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 21
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.6700	%
Water Surface Elevation	2,429.33	ft
Discharge	85.00	cfs



CROSS-SECTION 22
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 22
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data		
Channel Slope	1.6700 %	
Elevation range: 2,419.00 ft to 2,420.00 ft.		
Discharge	85.00	cfs

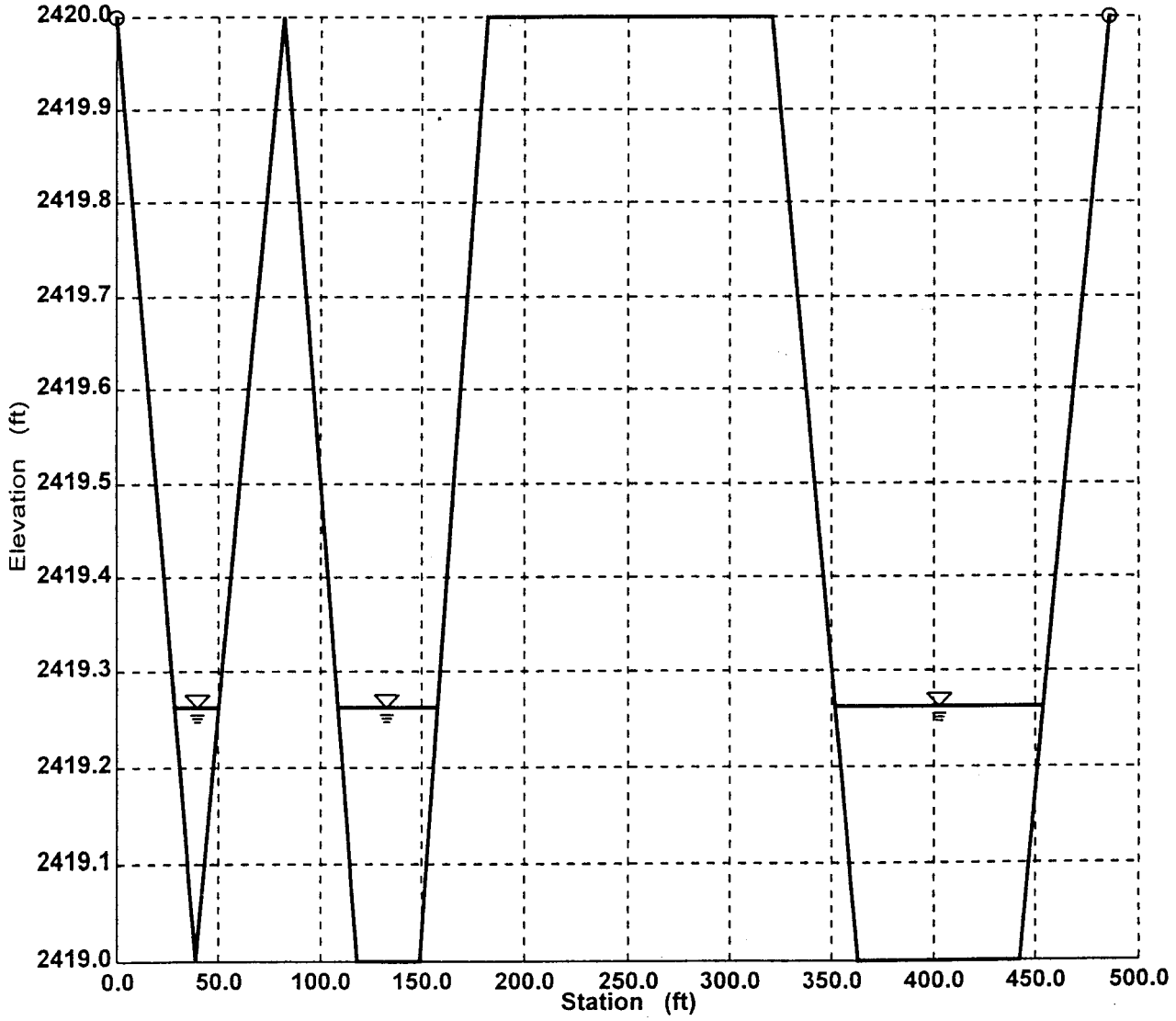
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,420.00	0.00	485.81	0.030
39.22	2,419.00			
82.04	2,420.00			
117.70	2,419.00			
149.23	2,419.00			
181.54	2,420.00			
320.56	2,420.00			
363.39	2,419.00			
441.86	2,419.00			
485.81	2,420.00			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,419.26	ft
Flow Area	37.01	ft²
Wetted Perimeter	172.14	ft
Top Width	172.12	ft
Height	0.26	ft
Critical Depth	2,419.24	ft
Critical Slope	0.022416	ft/ft
Velocity	2.30	ft/s
Velocity Head	0.08	ft
Specific Energy	2,419.34	ft
Froude Number	0.87	
Flow is subcritical.		
Flow is divided.		

CROSS-SECTION 22
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 22
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.6700	%
Water Surface Elevation	2,419.26	ft
Discharge	85.00	cfs



CROSS-SECTION 23
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 23
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

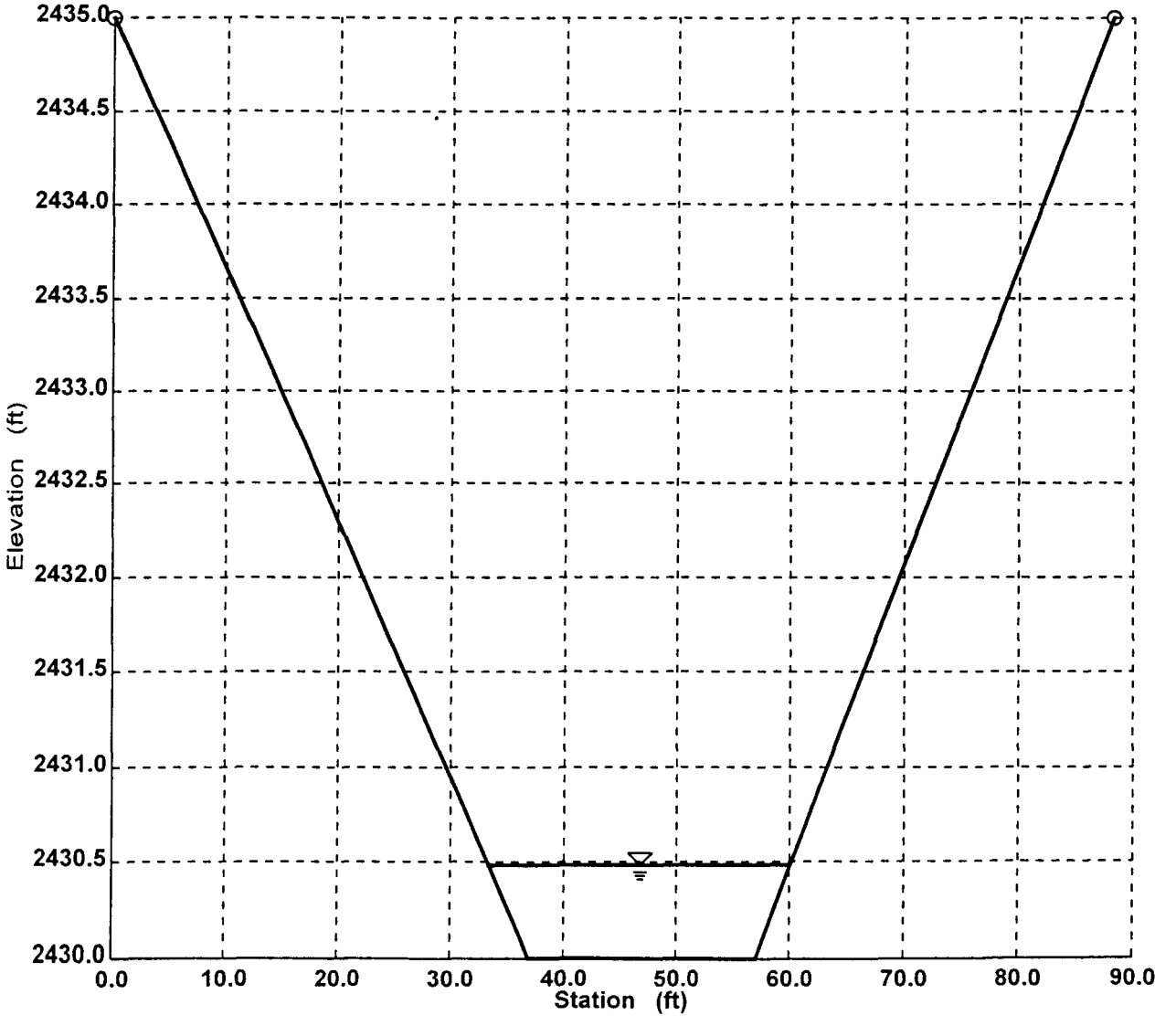
Input Data				
Channel Slope	1.5600 %			
Elevation range: 2,430.00 ft to 2,435.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,435.00	0.00	88.29	0.030
36.98	2,430.00			
57.00	2,430.00			
88.29	2,435.00			
Discharge	39.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,430.48	ft
Flow Area	11.22	ft²
Wetted Perimeter	26.67	ft
Top Width	26.60	ft
Height	0.48	ft
Critical Depth	2,430.46	ft
Critical Slope	0.017738	ft/ft
Velocity	3.47	ft/s
Velocity Head	0.19	ft
Specific Energy	2,430.67	ft
Froude Number	0.94	
Flow is subcritical.		

CROSS-SECTION 23
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 23
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.5600	%
Water Surface Elevation	2,430.48	ft
Discharge	39.00	cfs



CROSS-SECTION 24
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 24
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

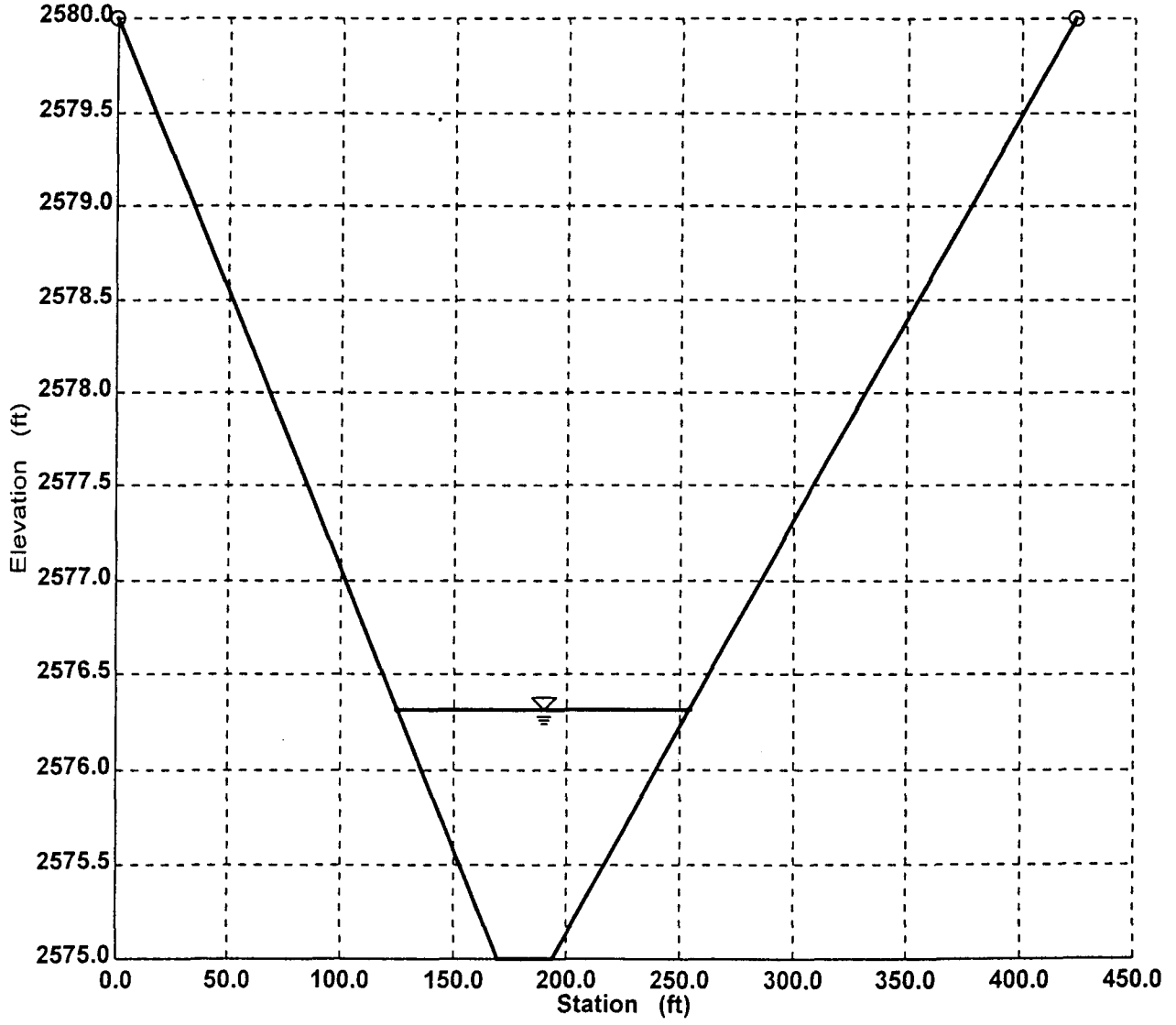
Input Data				
Channel Slope	1.7900 %			
Elevation range: 2,575.00 ft to 2,580.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,580.00	0.00	424.00	0.030
170.00	2,575.00			
194.00	2,575.00			
424.00	2,580.00			
Discharge	570.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,576.32	ft
Flow Area	101.35	ft²
Wetted Perimeter	129.62	ft
Top Width	129.58	ft
Height	1.32	ft
Critical Depth	2,576.39	ft
Critical Slope	0.014018	ft/ft
Velocity	5.62	ft/s
Velocity Head	0.49	ft
Specific Energy	2,576.81	ft
Froude Number	1.12	
Flow is supercritical.		

CROSS-SECTION 24
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 24
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.7900	%
Water Surface Elevation	2,576.32	ft
Discharge	570.00	cfs



CROSS-SECTION 25
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 25
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

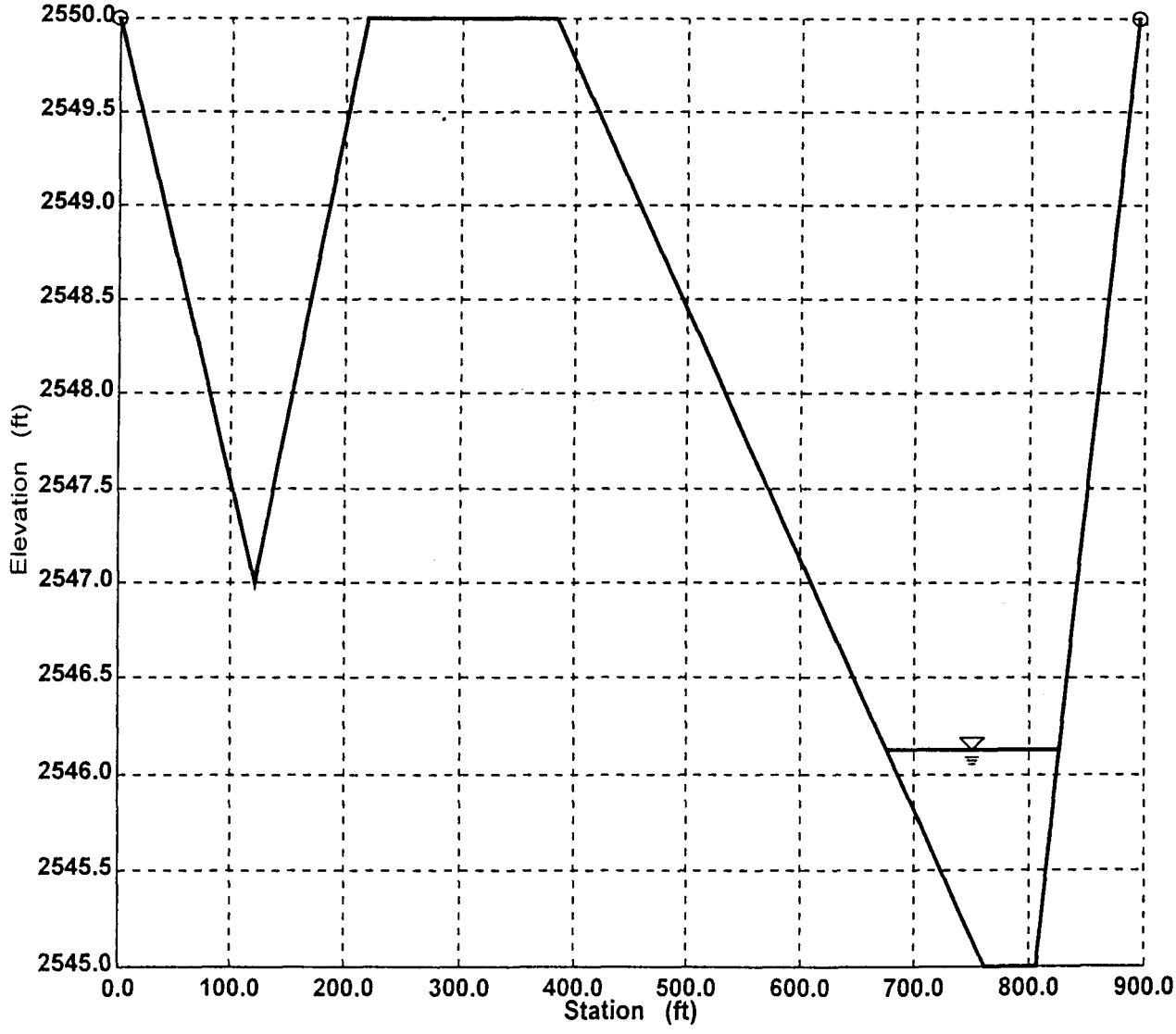
Input Data				
Channel Slope	1.7900 %			
Elevation range: 2,545.00 ft to 2,550.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,550.00	0.00	894.00	0.030
121.00	2,547.00			
219.00	2,550.00			
382.00	2,550.00			
762.00	2,545.00			
806.00	2,545.00			
894.00	2,550.00			
Discharge	588.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,546.13	ft
Flow Area	109.40	ft²
Wetted Perimeter	149.76	ft
Top Width	149.72	ft
Height	1.13	ft
Critical Depth	2,546.19	ft
Critical Slope	0.014354	ft/ft
Velocity	5.37	ft/s
Velocity Head	0.45	ft
Specific Energy	2,546.58	ft
Froude Number	1.11	
Flow is supercritical.		

CROSS-SECTION 25
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 25
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.7900	%
Water Surface Elevation	2,546.13	ft
Discharge	588.00	cfs



CROSS-SECTION 26
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 26
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data		
Channel Slope	1.7900 %	
Elevation range:	2,453.00 ft to 2,455.00 ft.	

Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,455.00	0.00	1,259.00	0.030
143.00	2,453.00			
305.00	2,455.00			
411.00	2,455.00			
527.00	2,453.00			
731.00	2,455.00			
836.00	2,454.00			
968.00	2,455.00			
1,098.00	2,453.00			
1,259.00	2,455.00			

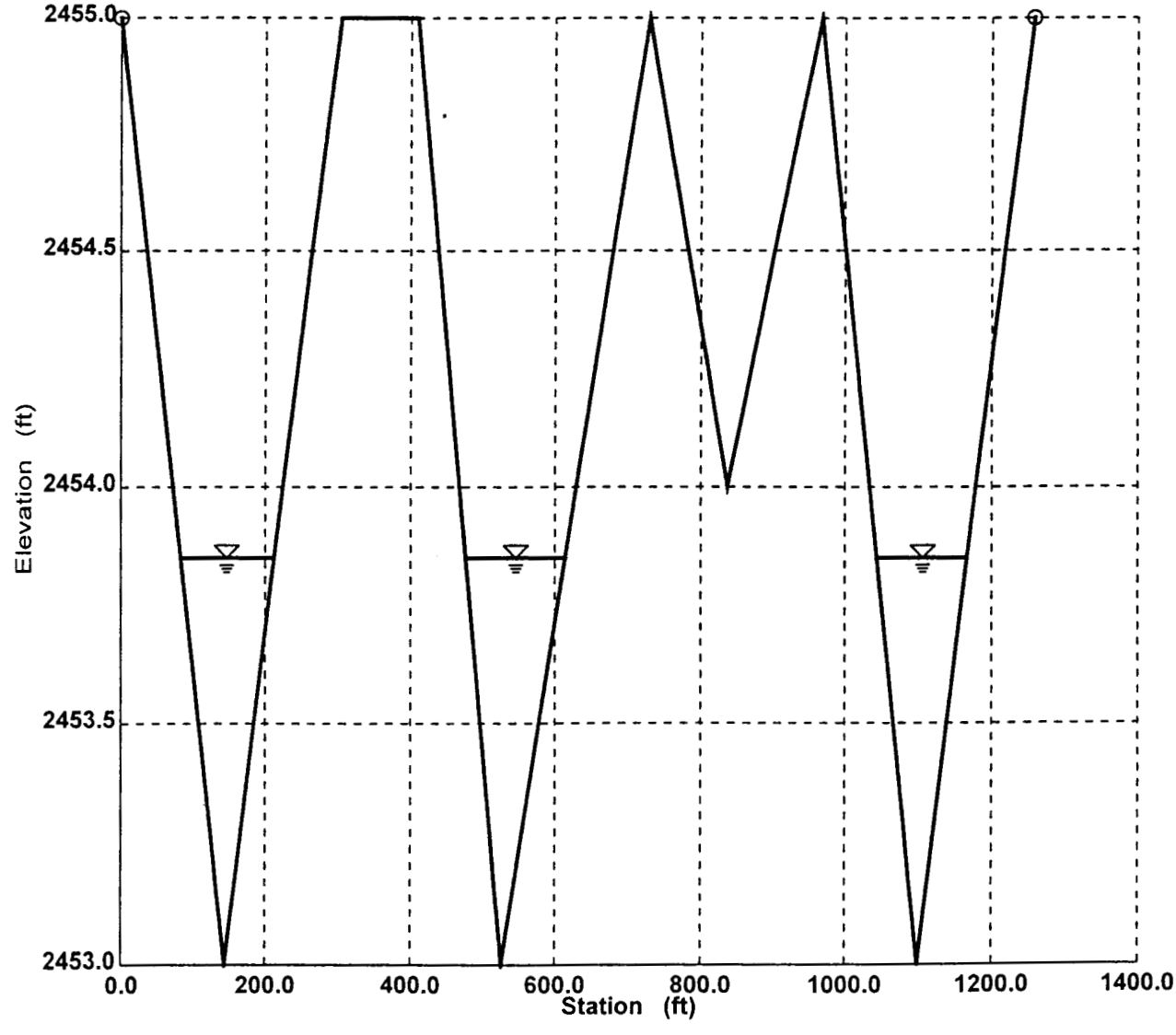
Discharge	615.00	cfs

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,453.85	ft
Flow Area	164.50	ft²
Wetted Perimeter	388.22	ft
Top Width	388.18	ft
Height	0.85	ft
Critical Depth	2,453.85	ft
Critical Slope	0.017433	ft/ft
Velocity	3.74	ft/s
Velocity Head	0.22	ft
Specific Energy	2,454.06	ft
Froude Number	1.01	
Flow is supercritical.		
Flow is divided.		

CROSS-SECTION 26
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 26
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.7900	%
Water Surface Elevation	2,453.85	ft
Discharge	615.00	cfs



CROSS-SECTION 27
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 27
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

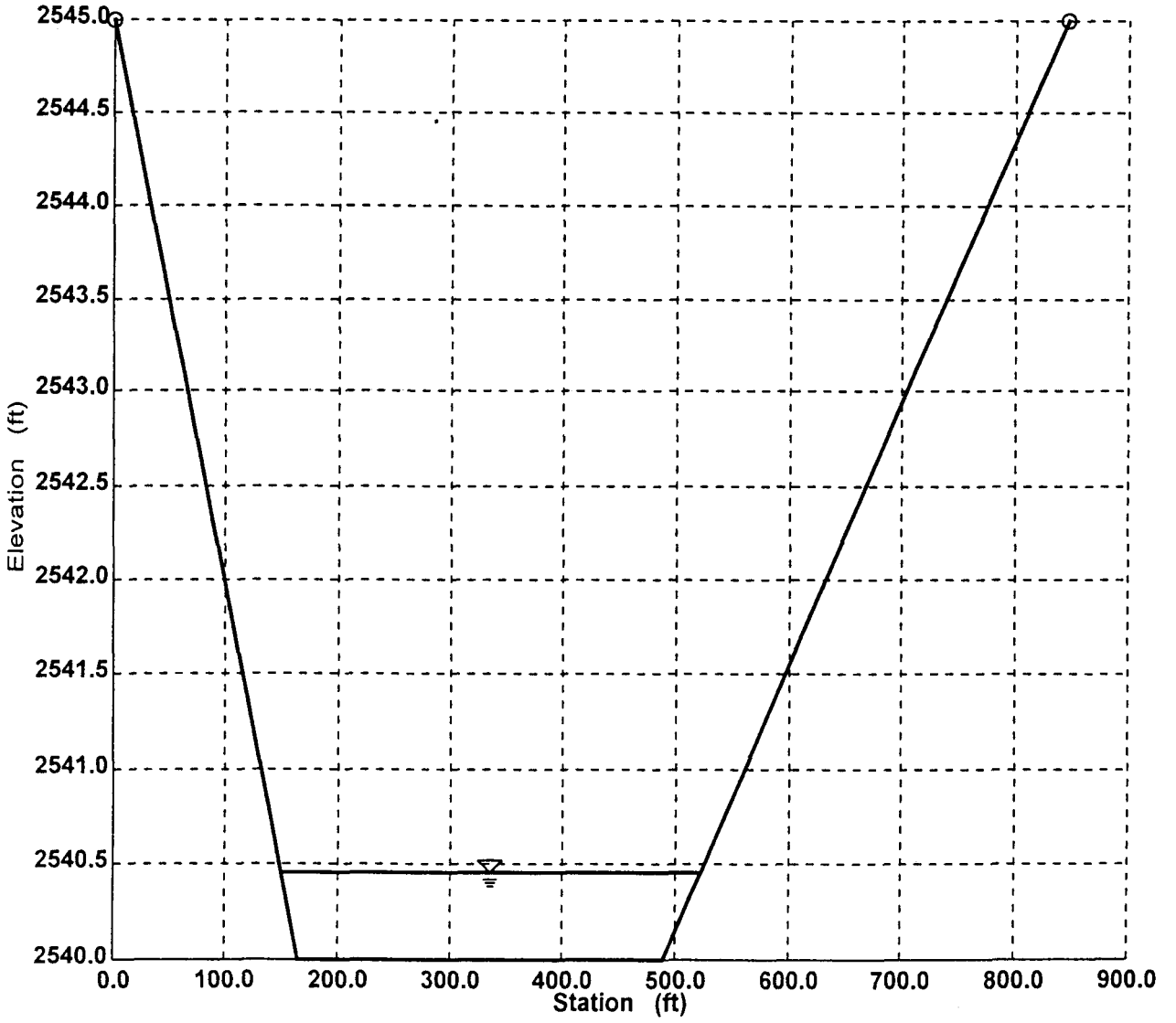
Input Data				
Channel Slope	1.7900 %			
Elevation range: 2,540.00 ft to 2,545.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,545.00	0.00	846.00	0.030
165.00	2,540.00			
436.00	2,540.00			
489.00	2,540.00			
846.00	2,545.00			
Discharge	590.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,540.45	ft
Flow Area	157.63	ft²
Wetted Perimeter	371.34	ft
Top Width	371.33	ft
Height	0.45	ft
Critical Depth	2,540.46	ft
Critical Slope	0.017405	ft/ft
Velocity	3.74	ft/s
Velocity Head	0.22	ft
Specific Energy	2,540.67	ft
Froude Number	1.01	
Flow is supercritical.		

CROSS-SECTION 27
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 27
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.7900	%
Water Surface Elevation	2,540.45	ft
Discharge	590.00	cfs



CROSS-SECTION 28
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 28
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

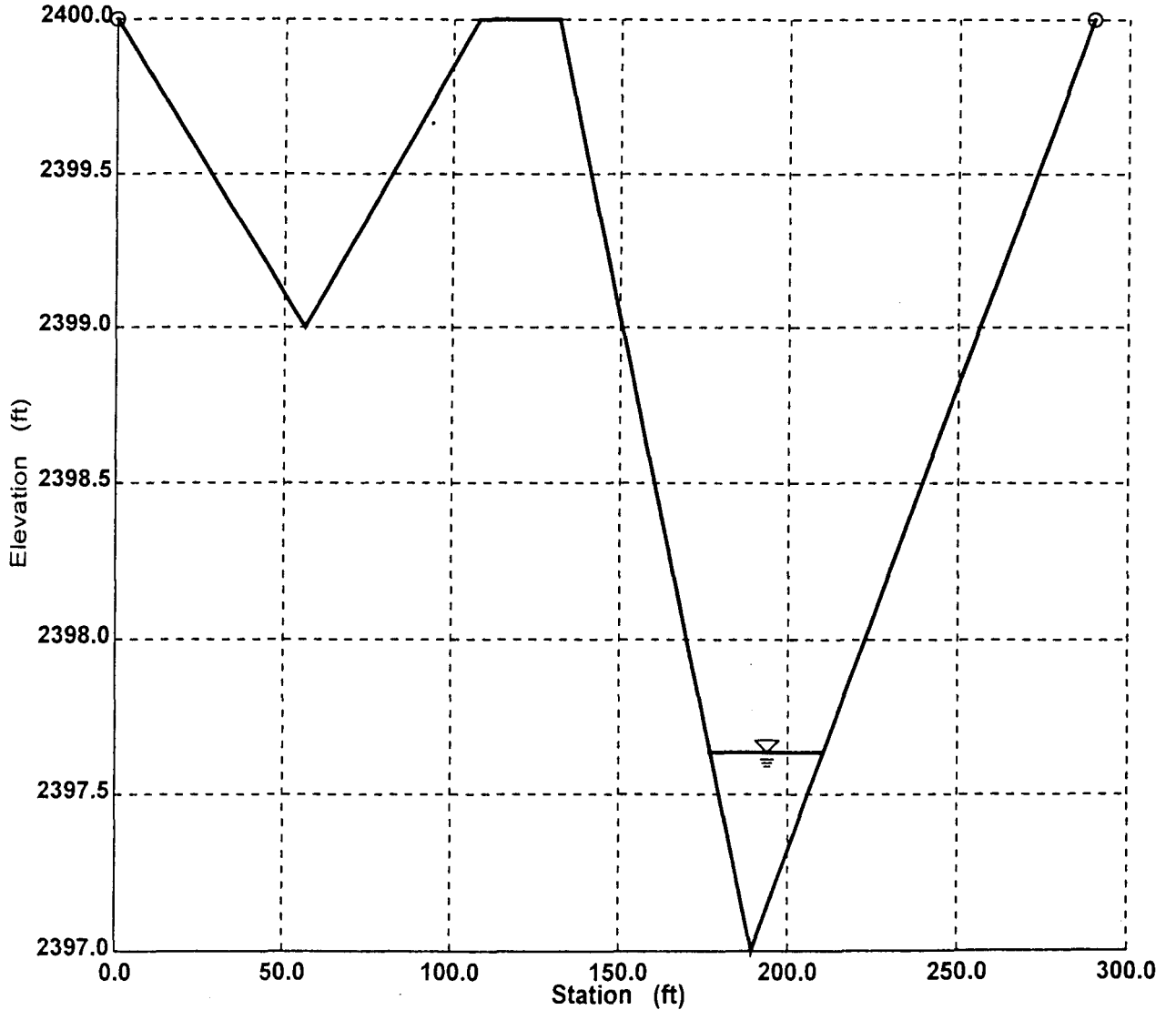
Input Data				
Channel Slope	1.0000 %			
Elevation range: 2,397.00 ft to 2,400.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,400.00	0.00	289.75	0.030
56.42	2,399.00			
108.06	2,400.00			
131.89	2,400.00			
189.29	2,397.00			
289.75	2,400.00			
Discharge	24.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,397.63	ft
Flow Area	10.46	ft²
Wetted Perimeter	33.21	ft
Top Width	33.19	ft
Height	0.63	ft
Critical Depth	2,397.55	ft
Critical Slope	0.020152	ft/ft
Velocity	2.29	ft/s
Velocity Head	0.08	ft
Specific Energy	2,397.71	ft
Froude Number	0.72	
Flow is subcritical.		

CROSS-SECTION 28
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 28
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.0000	%
Water Surface Elevation	2,397.63	ft
Discharge	24.00	cfs



CROSS-SECTION 29
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 29
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data		
Channel Slope	1.1100 %	
Elevation range: 2,377.00 ft to 2,380.00 ft.		
Discharge	53.00	cfs

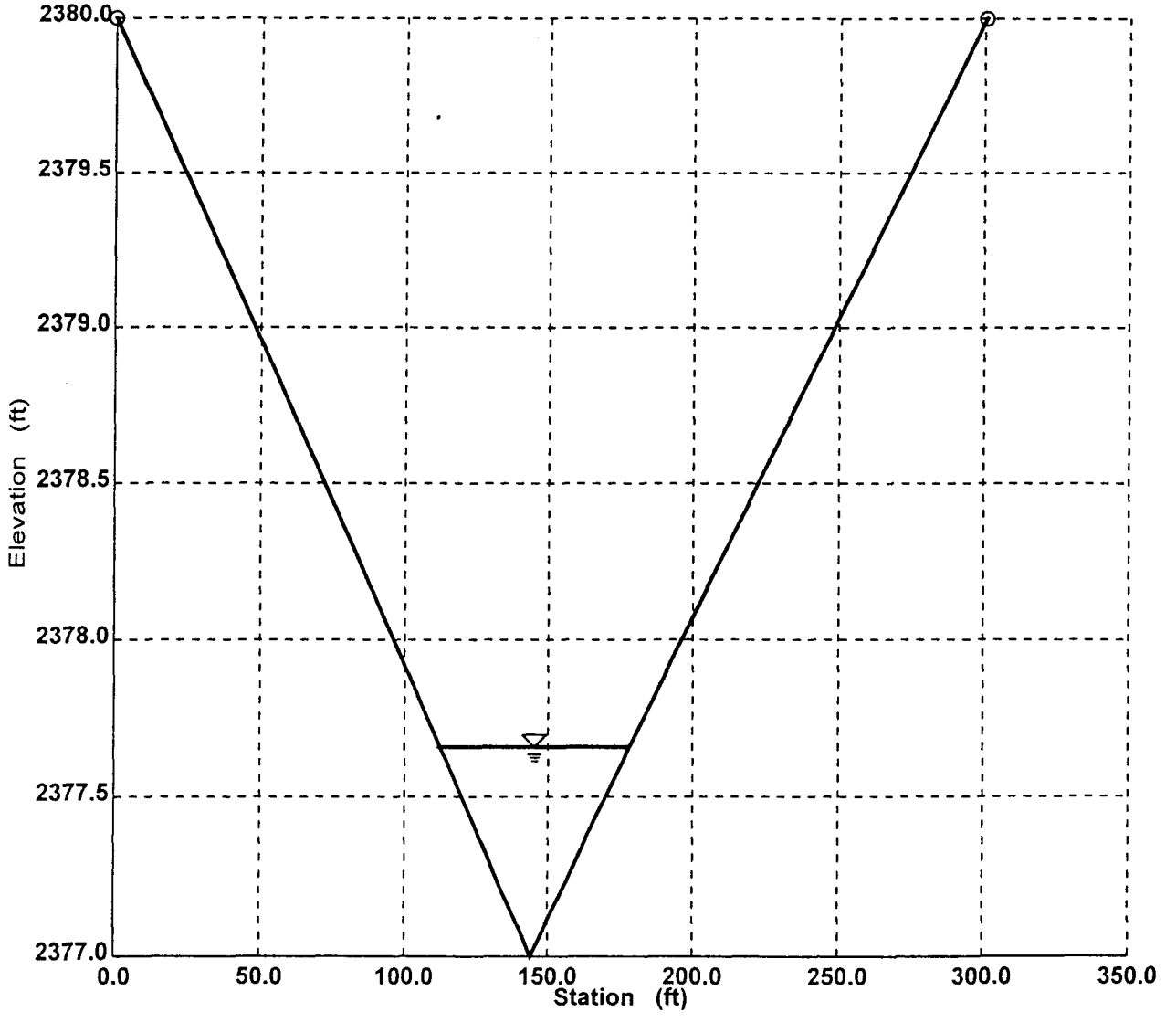
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,380.00	0.00	300.29	0.030
143.79	2,377.00			
300.29	2,380.00			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,377.65	ft
Flow Area	21.40	ft²
Wetted Perimeter	65.47	ft
Top Width	65.46	ft
Height	0.65	ft
Critical Depth	2,377.59	ft
Critical Slope	0.019738	ft/ft
Velocity	2.48	ft/s
Velocity Head	0.10	ft
Specific Energy	2,377.75	ft
Froude Number	0.76	
Flow is subcritical.		

CROSS-SECTION 29
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 29
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.1100	%
Water Surface Elevation	2,377.65	ft
Discharge	53.00	cfs



CROSS-SECTION 30
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 30
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

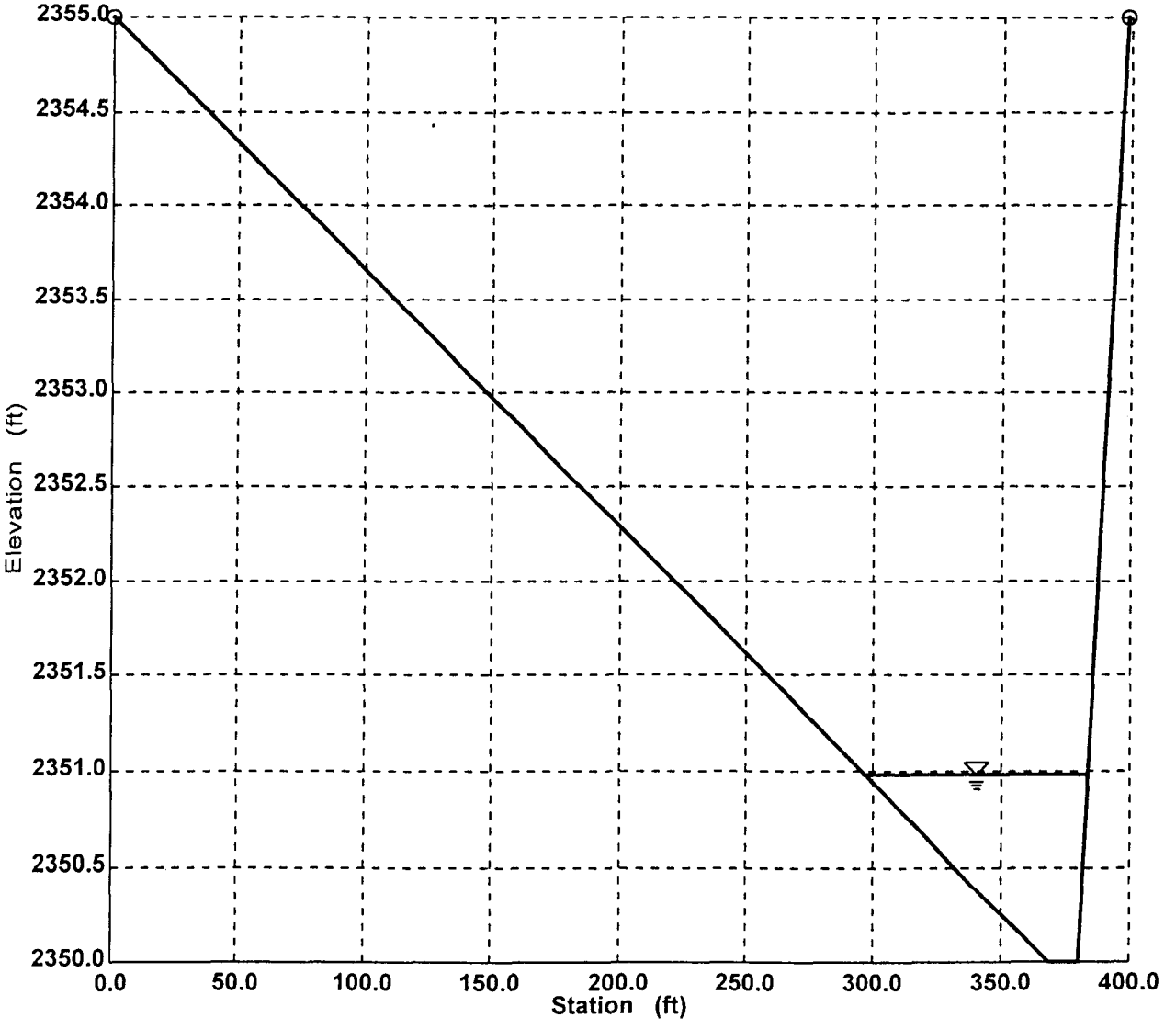
Input Data				
Channel Slope	1.4300 %			
Elevation range: 2,350.00 ft to 2,355.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,355.00	0.00	398.84	0.030
368.81	2,350.00			
380.30	2,350.00			
398.84	2,355.00			
Discharge	192.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,350.98	ft
Flow Area	48.18	ft²
Wetted Perimeter	87.30	ft
Top Width	87.16	ft
Height	0.98	ft
Critical Depth	2,350.95	ft
Critical Slope	0.016136	ft/ft
Velocity	3.99	ft/s
Velocity Head	0.25	ft
Specific Energy	2,351.22	ft
Froude Number	0.94	
Flow is subcritical.		

CROSS-SECTION 30
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 30
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.4300	%
Water Surface Elevation	2,350.98	ft
Discharge	192.00	cfs



CROSS-SECTION 31
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 31
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data		
Channel Slope	1.6700 %	
Elevation range:	2,567.00 ft to 2,570.00 ft.	
Discharge	730.00	cfs

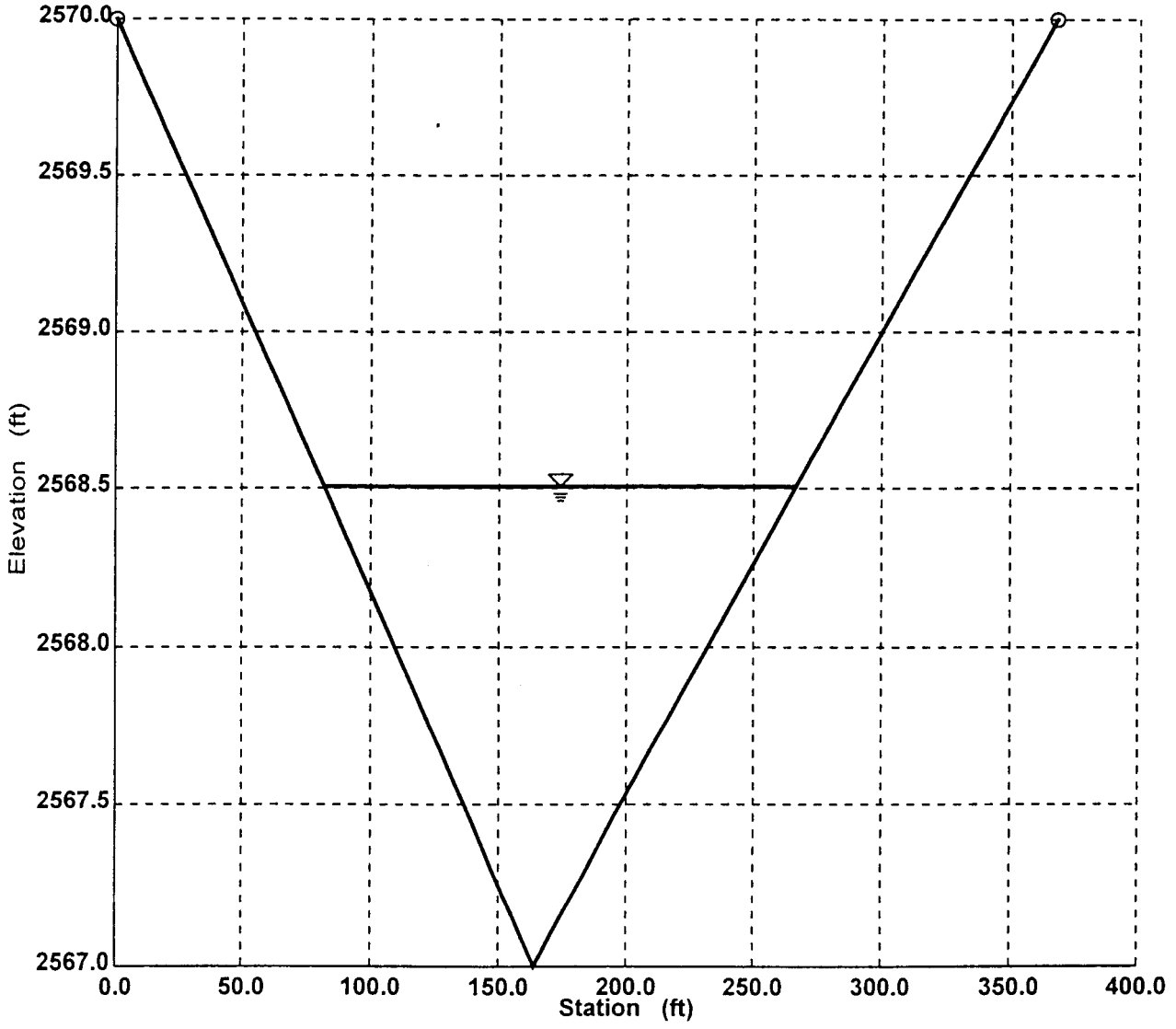
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,570.00	0.00	368.00	0.030
164.00	2,567.00			
368.00	2,570.00			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,568.50	ft
Flow Area	138.13	ft^2
Wetted Perimeter	184.11	ft
Top Width	184.09	ft
Height	1.50	ft
Critical Depth	2,568.55	ft
Critical Slope	0.014295	ft/ft
Velocity	5.28	ft/s
Velocity Head	0.43	ft
Specific Energy	2,568.93	ft
Froude Number	1.08	
Flow is supercritical.		

CROSS-SECTION 31
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 31
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.6700	%
Water Surface Elevation	2,568.50	ft
Discharge	730.00	cfs



CROSS-SECTION 32
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 32
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

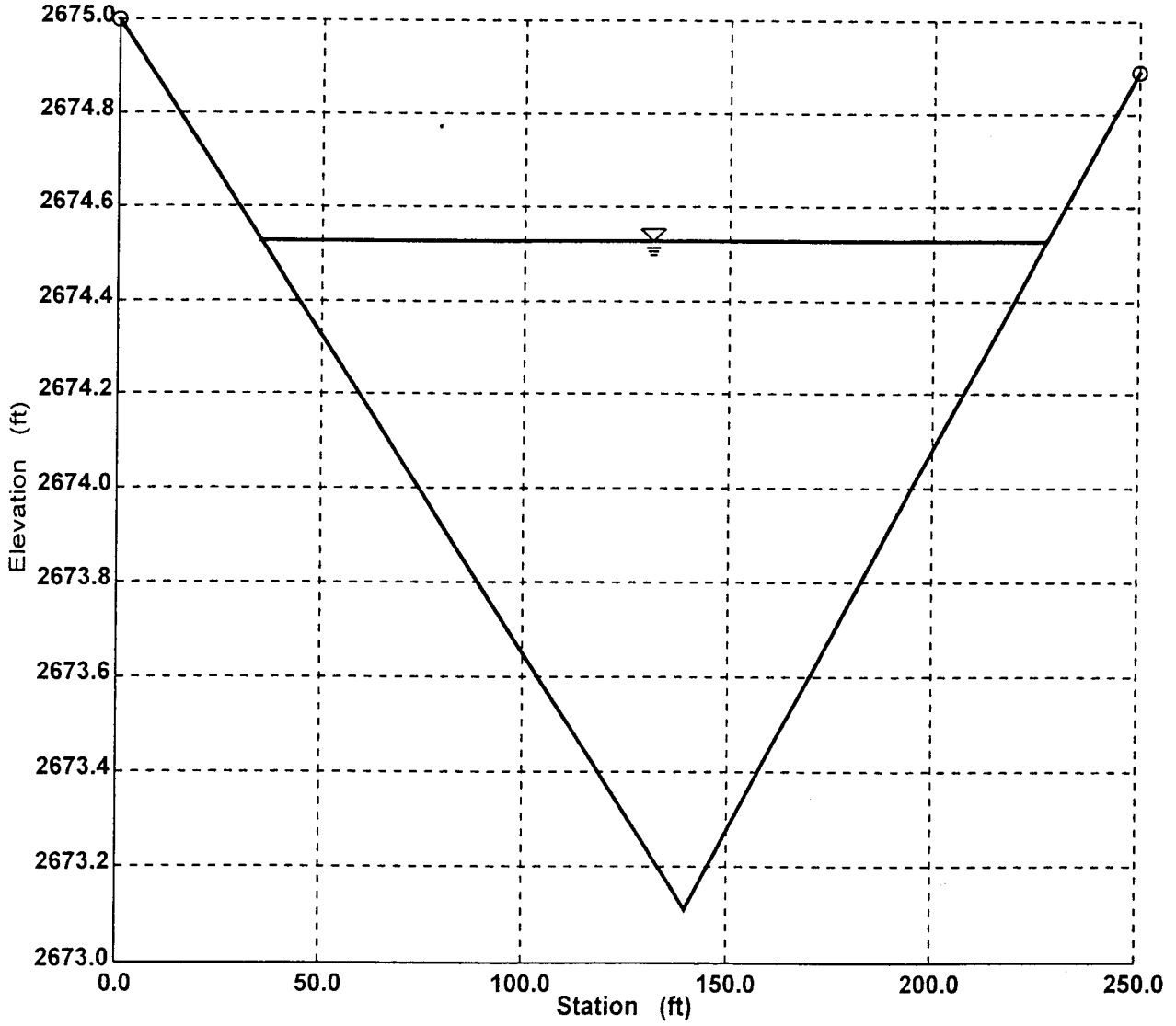
Input Data				
Channel Slope	1.7000 %			
Elevation range: 2,673.11 ft to 2,675.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,675.00	0.00	250.00	0.030
140.00	2,673.11			
250.00	2,674.89			
Discharge	700.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,674.53	ft
Flow Area	136.40	ft²
Wetted Perimeter	192.55	ft
Top Width	192.52	ft
Height	1.42	ft
Critical Depth	2,674.57	ft
Critical Slope	0.014572	ft/ft
Velocity	5.13	ft/s
Velocity Head	0.41	ft
Specific Energy	2,674.94	ft
Froude Number	1.07	
Flow is supercritical.		

CROSS-SECTION 32
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 32
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.7000	%
Water Surface Elevation	2,674.53	ft
Discharge	700.00	cfs



CROSS-SECTION 33
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 33
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

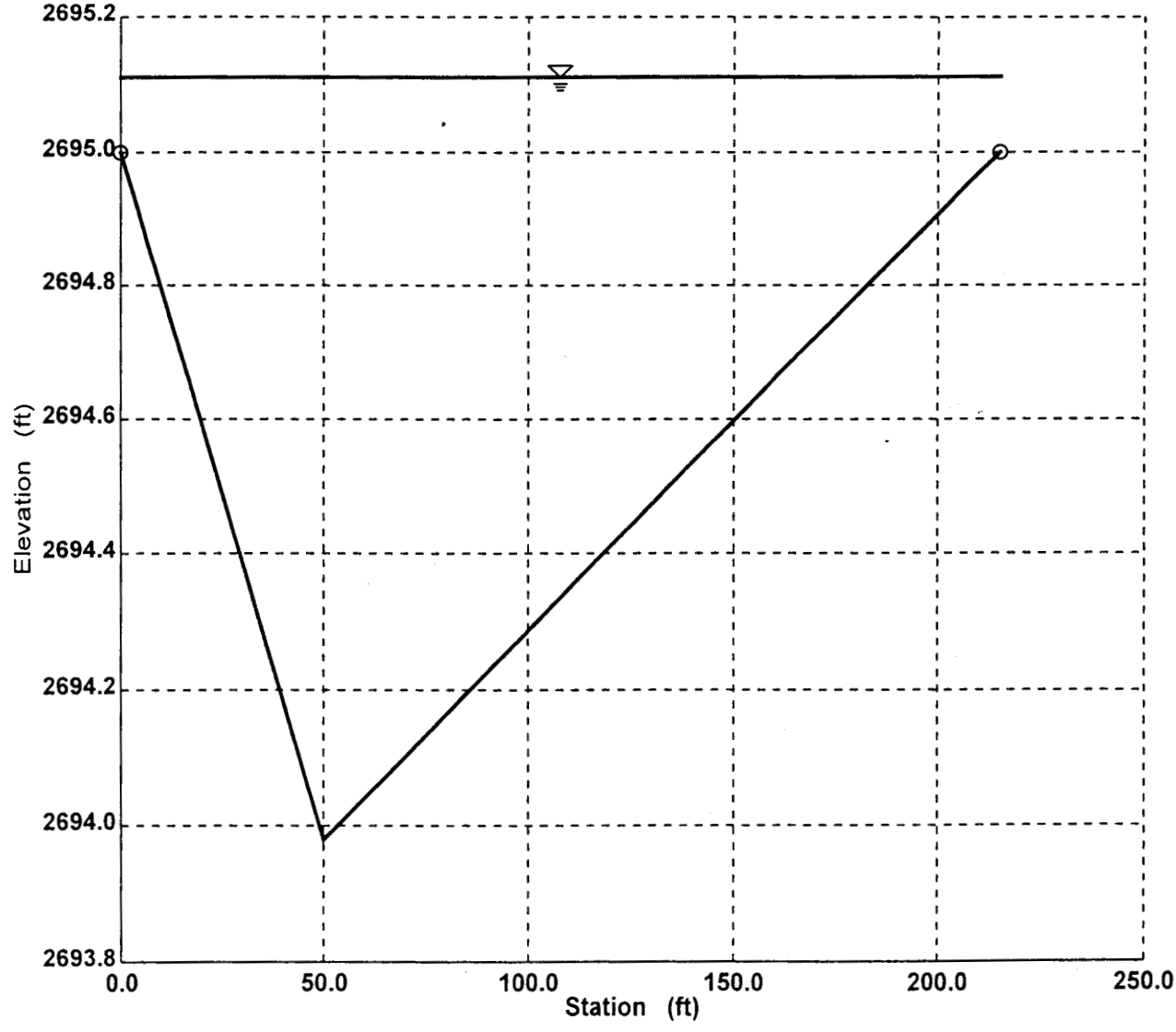
Input Data				
Channel Slope	1.7000 %			
Elevation range: 2,693.98 ft to 2,695.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,695.00	0.00	215.00	0.030
50.00	2,693.98			
215.00	2,695.00			
Discharge	630.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,695.11	ft
Flow Area	133.88	ft²
Wetted Perimeter	215.24	ft
Top Width	215.00	ft
Height	1.13	ft
Critical Depth	2,695.13	ft
Critical Slope	0.015214	ft/ft
Velocity	4.71	ft/s
Velocity Head	0.34	ft
Specific Energy	2,695.46	ft
Froude Number	1.05	
Flow is supercritical.		
Water elevation exceeds lowest end station by 0.11 ft.		

CROSS-SECTION 33
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 33
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.7000	%
Water Surface Elevation	2,695.11	ft
Discharge	630.00	cfs



CROSS-SECTION 34
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 34
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

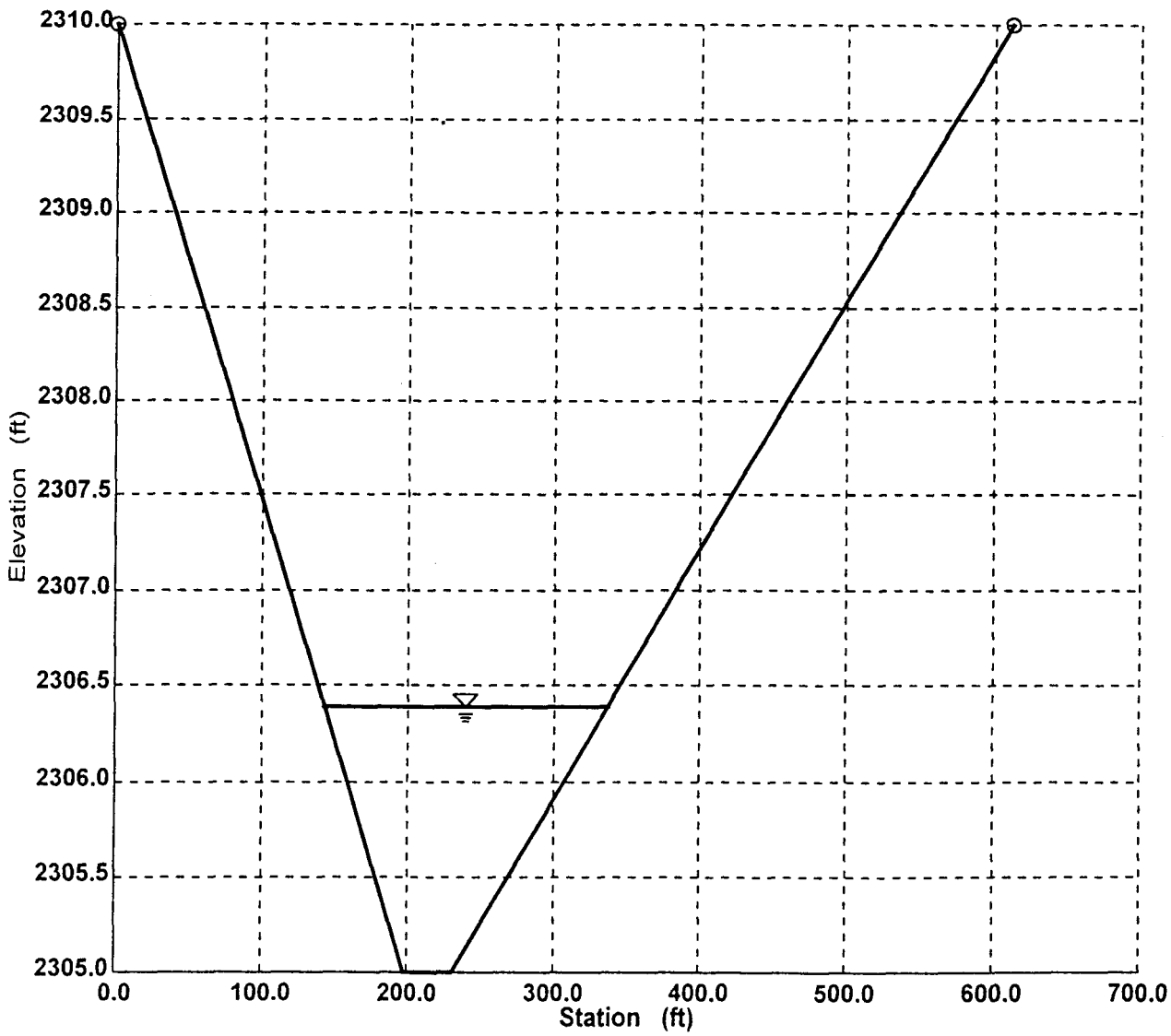
Input Data				
Channel Slope	1.5000 %			
Elevation range: 2,305.00 ft to 2,310.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,310.00	0.00	612.00	0.030
198.00	2,305.00			
231.00	2,305.00			
612.00	2,310.00			
Discharge	833.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,306.39	ft
Flow Area	157.65	ft²
Wetted Perimeter	193.94	ft
Top Width	193.91	ft
Height	1.39	ft
Critical Depth	2,306.41	ft
Critical Slope	0.013992	ft/ft
Velocity	5.28	ft/s
Velocity Head	0.43	ft
Specific Energy	2,306.82	ft
Froude Number	1.03	
Flow is supercritical.		

CROSS-SECTION 34
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 34
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.5000	%
Water Surface Elevation	2,306.39	ft
Discharge	833.00	cfs



CROSS-SECTION 35
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 35
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

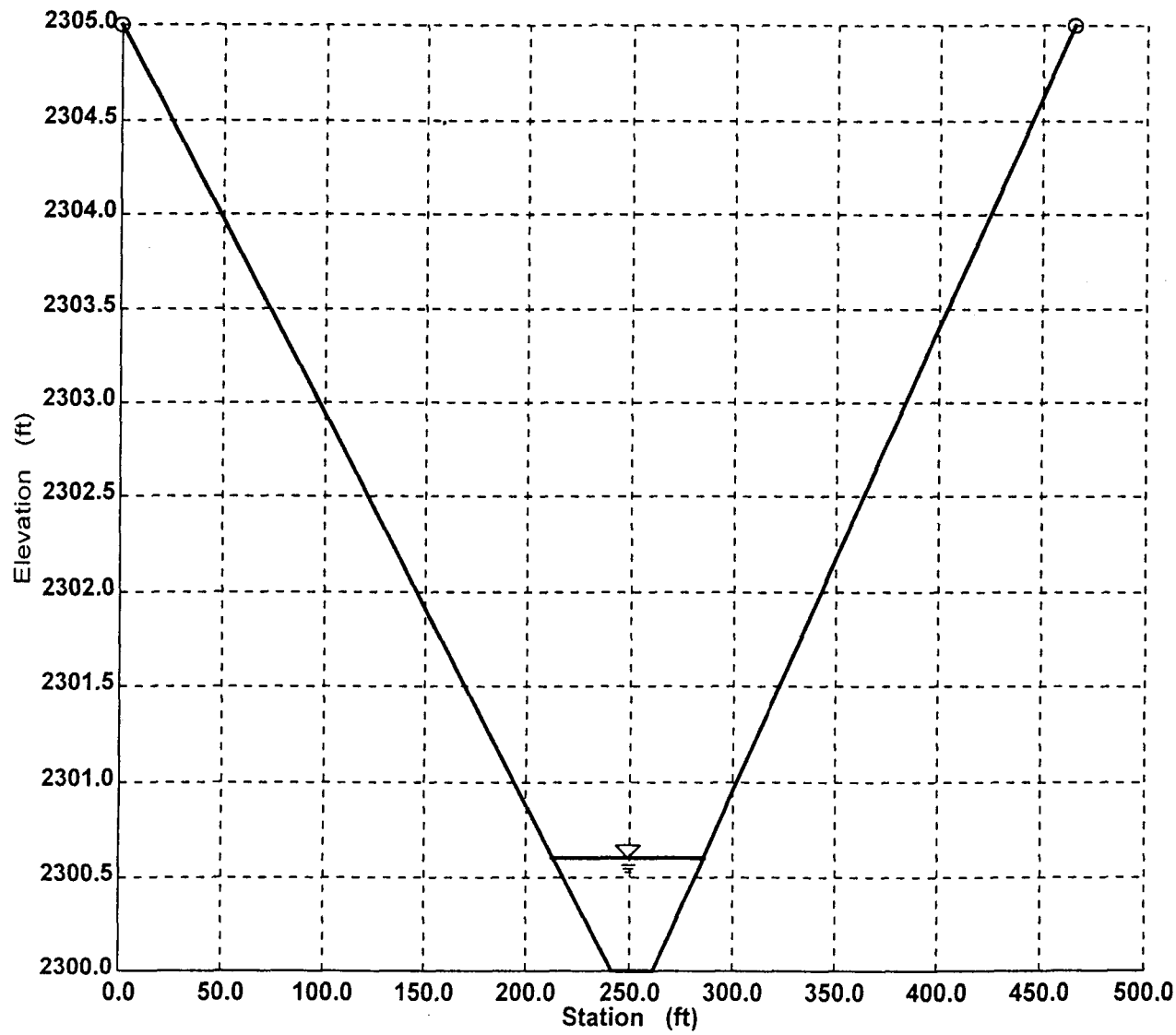
Input Data				
Channel Slope	1.5000 %			
Elevation range: 2,300.00 ft to 2,305.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,305.00	0.00	465.00	0.030
242.00	2,300.00			
262.00	2,300.00			
465.00	2,305.00			
Discharge	92.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,300.61	ft
Flow Area	28.61	ft²
Wetted Perimeter	74.12	ft
Top Width	74.11	ft
Height	0.61	ft
Critical Depth	2,300.58	ft
Critical Slope	0.018251	ft/ft
Velocity	3.22	ft/s
Velocity Head	0.16	ft
Specific Energy	2,300.77	ft
Froude Number	0.91	
Flow is subcritical.		

CROSS-SECTION 35
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 35
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.5000	%
Water Surface Elevation	2,300.61	ft
Discharge	92.00	cfs



CROSS-SECTION 36
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 36
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

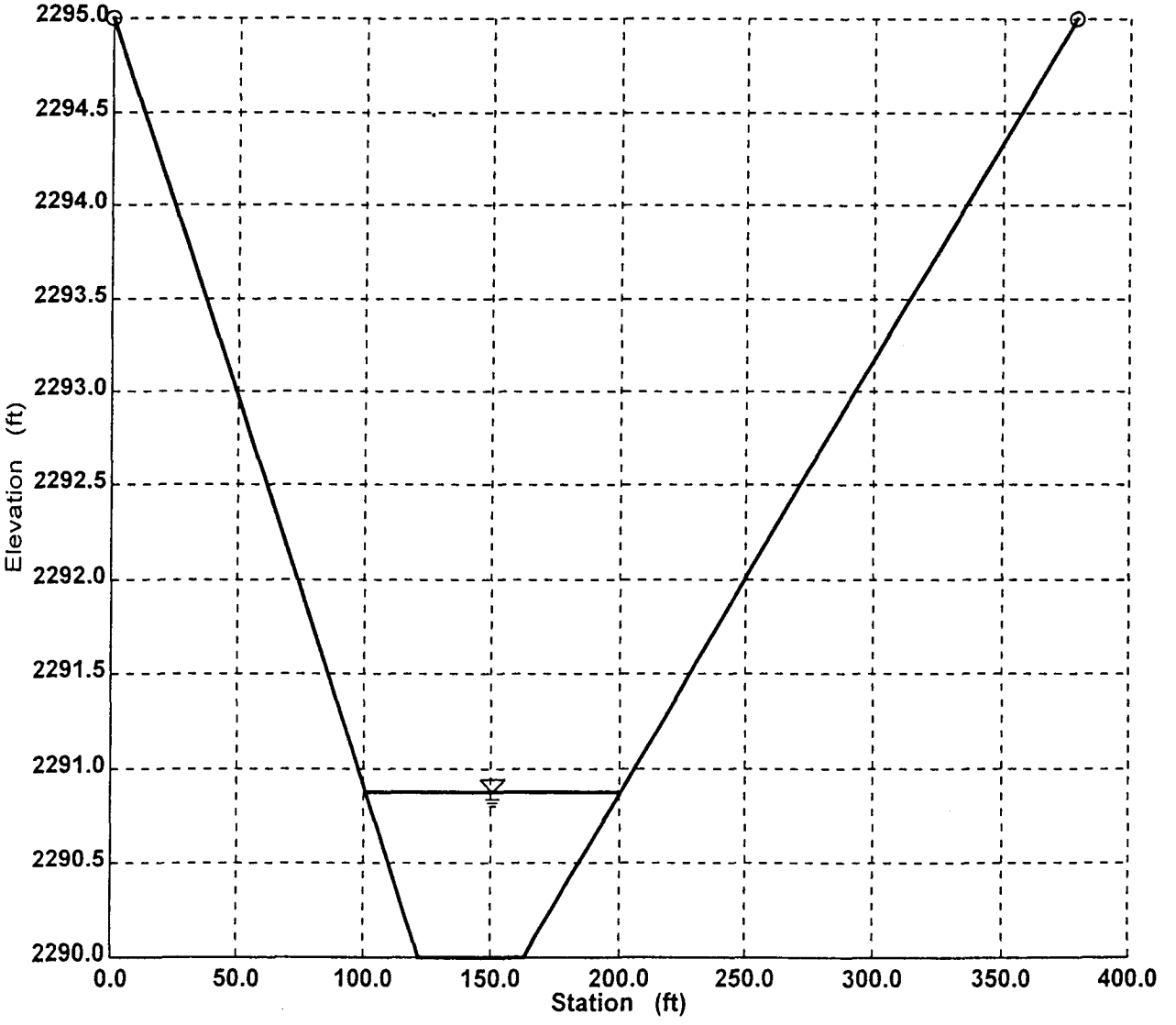
Input Data				
Channel Slope	1.4000 %			
Elevation range: 2,290.00 ft to 2,295.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,295.00	0.00	379.00	0.030
122.00	2,290.00			
163.00	2,290.00			
379.00	2,295.00			
Discharge	260.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,290.87	ft
Flow Area	61.39	ft²
Wetted Perimeter	99.93	ft
Top Width	99.91	ft
Height	0.87	ft
Critical Depth	2,290.85	ft
Critical Slope	0.015545	ft/ft
Velocity	4.24	ft/s
Velocity Head	0.28	ft
Specific Energy	2,291.15	ft
Froude Number	0.95	
Flow is subcritical.		

CROSS-SECTION 36
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 36
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.4000	%
Water Surface Elevation	2,290.87	ft
Discharge	260.00	cfs



CROSS-SECTION 37
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 37
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

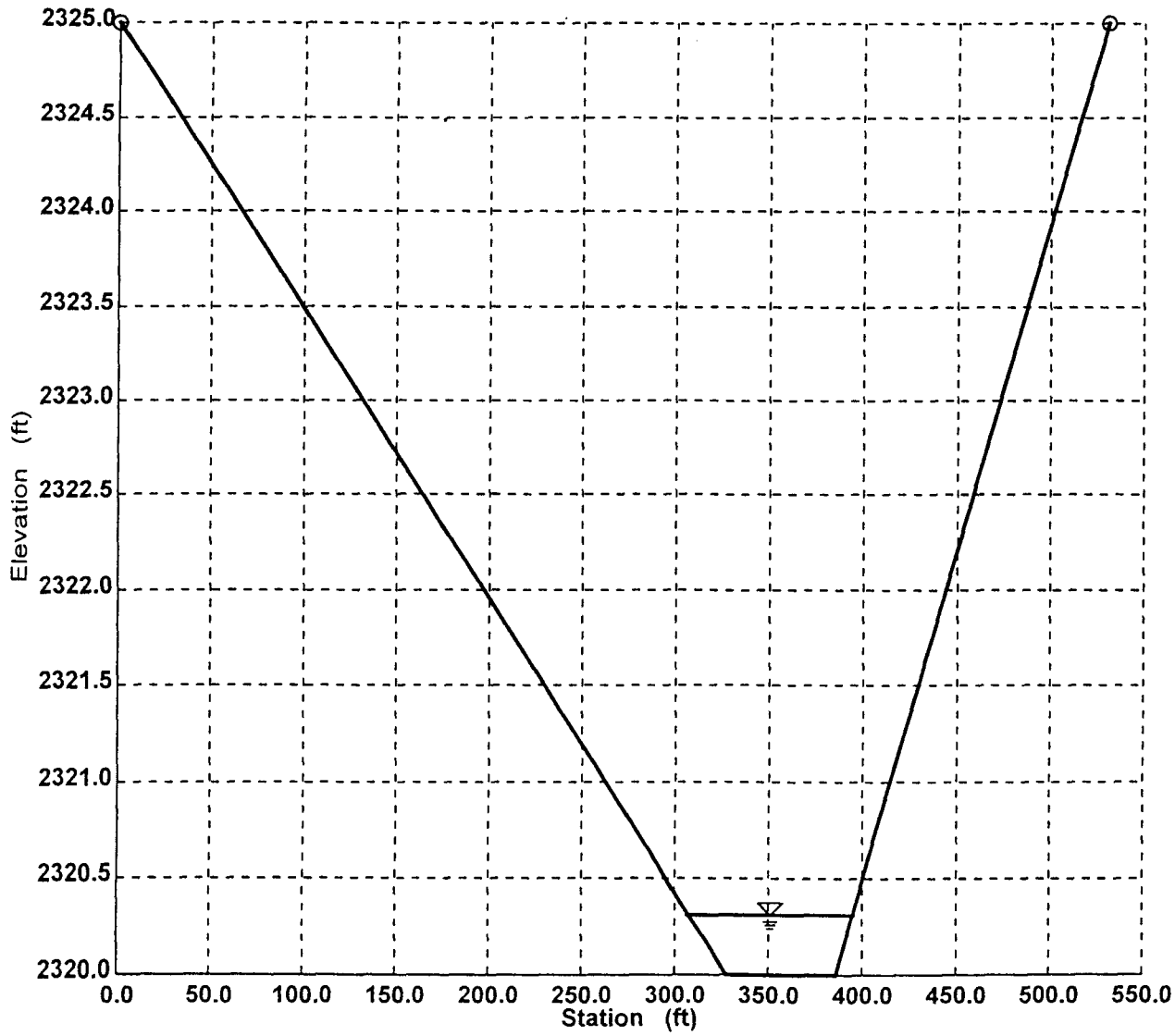
Input Data				
Channel Slope	1.2000 %			
Elevation range: 2,320.00 ft to 2,325.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,325.00	0.00	532.00	0.030
327.00	2,320.00			
386.00	2,320.00			
532.00	2,325.00			
Discharge	50.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,320.31	ft
Flow Area	22.75	ft²
Wetted Perimeter	88.24	ft
Top Width	88.23	ft
Height	0.31	ft
Critical Depth	2,320.26	ft
Critical Slope	0.021630	ft/ft
Velocity	2.20	ft/s
Velocity Head	0.08	ft
Specific Energy	2,320.38	ft
Froude Number	0.76	
Flow is subcritical.		

CROSS-SECTION 37
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 37
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.2000	%
Water Surface Elevation	2,320.31	ft
Discharge	50.00	cfs



CROSS-SECTION 38
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 38
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data		
Channel Slope	1.6700 %	
Elevation range:	2,533.00 ft to 2,535.00 ft.	
Discharge	735.00	cfs

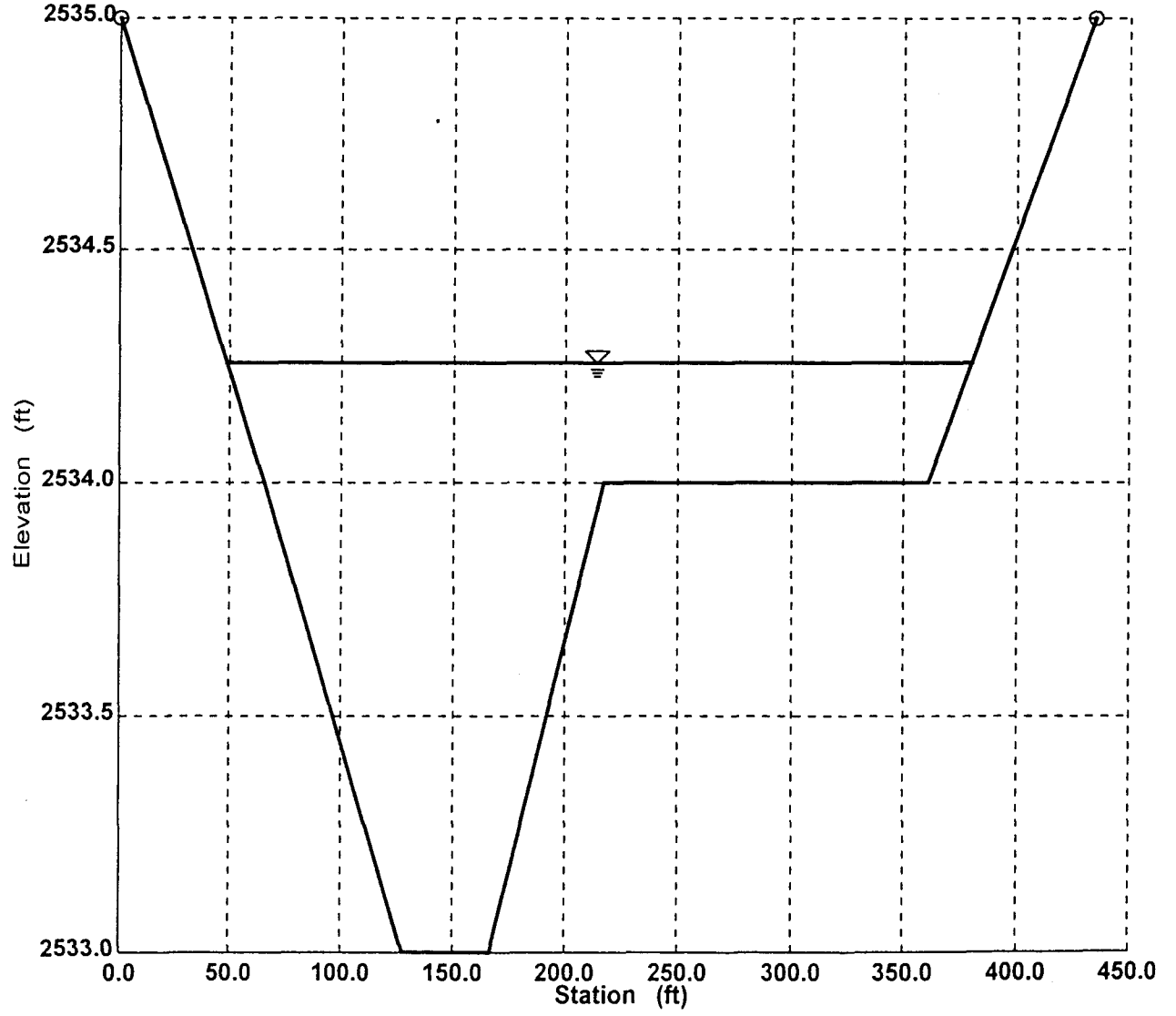
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,535.00	0.00	435.00	0.030
65.00	2,534.00			
128.00	2,533.00			
167.00	2,533.00			
217.00	2,534.00			
240.00	2,534.00			
361.00	2,534.00			
435.00	2,535.00			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,534.25	ft
Flow Area	175.47	ft²
Wetted Perimeter	331.45	ft
Top Width	331.43	ft
Height	1.25	ft
Critical Depth	2,534.26	ft
Critical Slope	0.016168	ft/ft
Velocity	4.19	ft/s
Velocity Head	0.27	ft
Specific Energy	2,534.53	ft
Froude Number	1.01	
Flow is supercritical.		

CROSS-SECTION 38
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 38
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.6700	%
Water Surface Elevation	2,534.25	ft
Discharge	735.00	cfs



CROSS-SECTION 39
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 39
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

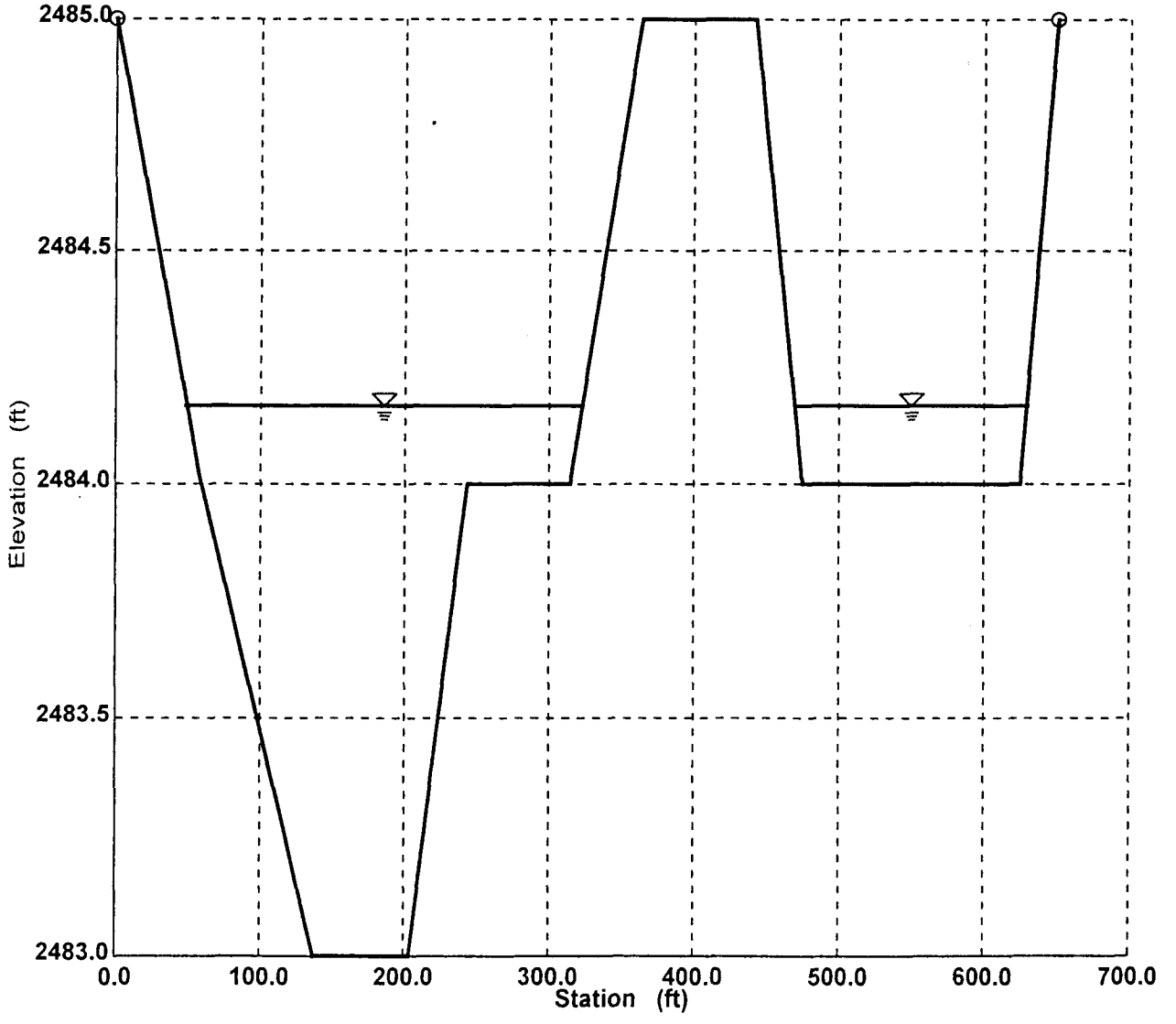
Input Data				
Channel Slope	1.6700 %			
Elevation range: 2,483.00 ft to 2,485.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,485.00	0.00	650.00	0.030
59.00	2,484.00			
138.00	2,483.00			
204.00	2,483.00			
244.00	2,484.00			
314.00	2,484.00			
364.00	2,485.00			
442.00	2,485.00			
475.00	2,484.00			
625.00	2,484.00			
650.00	2,485.00			
Discharge	740.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,484.17	ft
Flow Area	196.09	ft²
Wetted Perimeter	433.16	ft
Top Width	433.13	ft
Height	1.17	ft
Critical Depth	2,484.16	ft
Critical Slope	0.017118	ft/ft
Velocity	3.77	ft/s
Velocity Head	0.22	ft
Specific Energy	2,484.39	ft
Froude Number	0.99	
Flow is subcritical.		
Flow is divided.		

CROSS-SECTION 39
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 39
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.6700	%
Water Surface Elevation	2,484.17	ft
Discharge	740.00	cfs



CROSS-SECTION 40
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 40
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

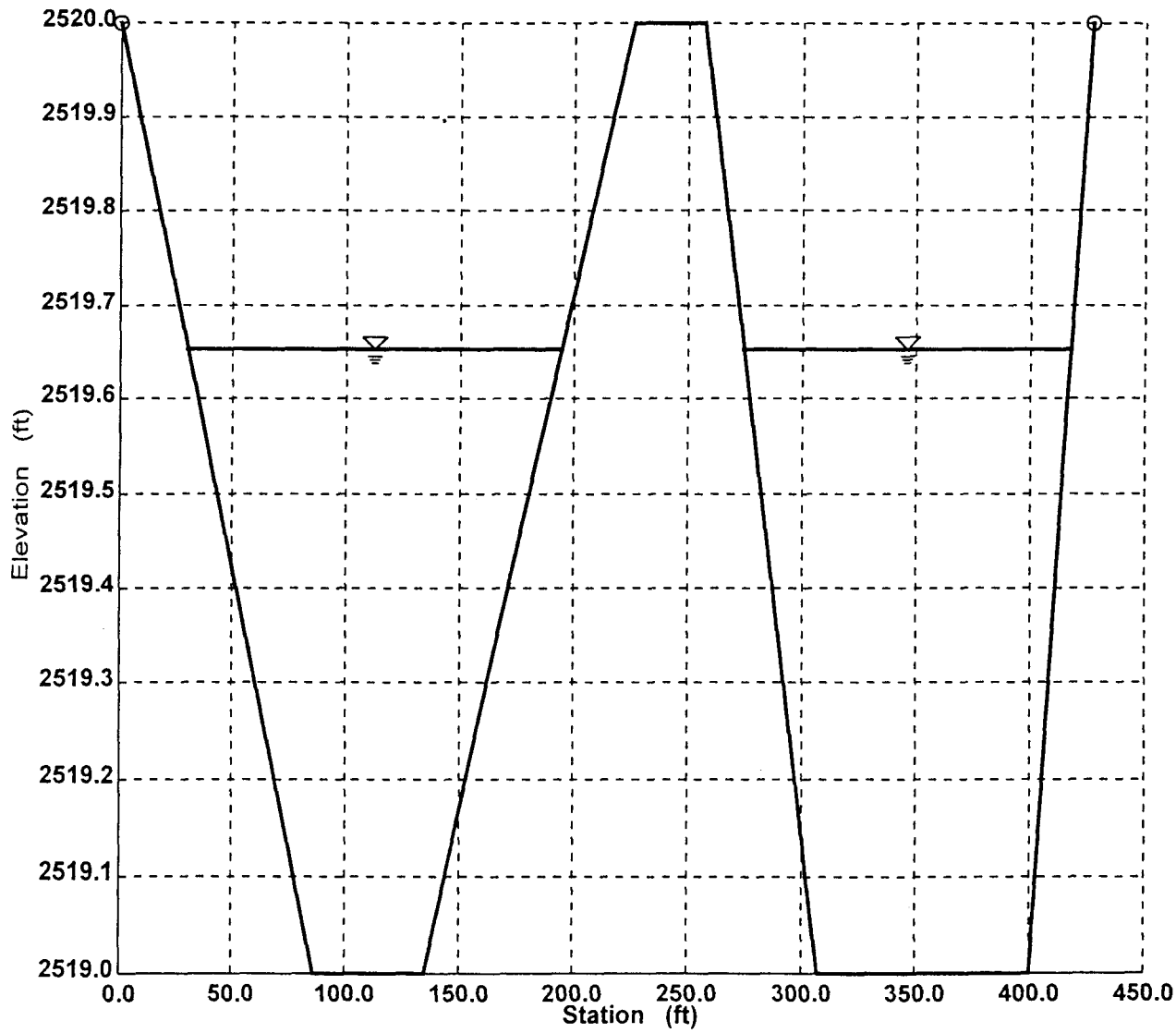
Input Data				
Channel Slope	1.7900 %			
Elevation range: 2,519.00 ft to 2,520.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,520.00	0.00	427.00	0.030
86.00	2,519.00			
135.00	2,519.00			
226.00	2,520.00			
257.00	2,520.00			
307.00	2,519.00			
400.00	2,519.00			
427.00	2,520.00			
Discharge	595.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,519.65	ft
Flow Area	147.01	ft²
Wetted Perimeter	308.00	ft
Top Width	307.97	ft
Height	0.65	ft
Critical Depth	2,519.67	ft
Critical Slope	0.016699	ft/ft
Velocity	4.05	ft/s
Velocity Head	0.25	ft
Specific Energy	2,519.91	ft
Froude Number	1.03	
Flow is supercritical.		
Flow is divided.		

CROSS-SECTION 40
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 40
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.7900	%
Water Surface Elevation	2,519.65	ft
Discharge	595.00	cfs



CROSS-SECTION 41
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 41
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data		
Channel Slope	1.8000 %	
Elevation range: 2,595.00 ft to 2,600.00 ft.		
Discharge	560.00	cfs

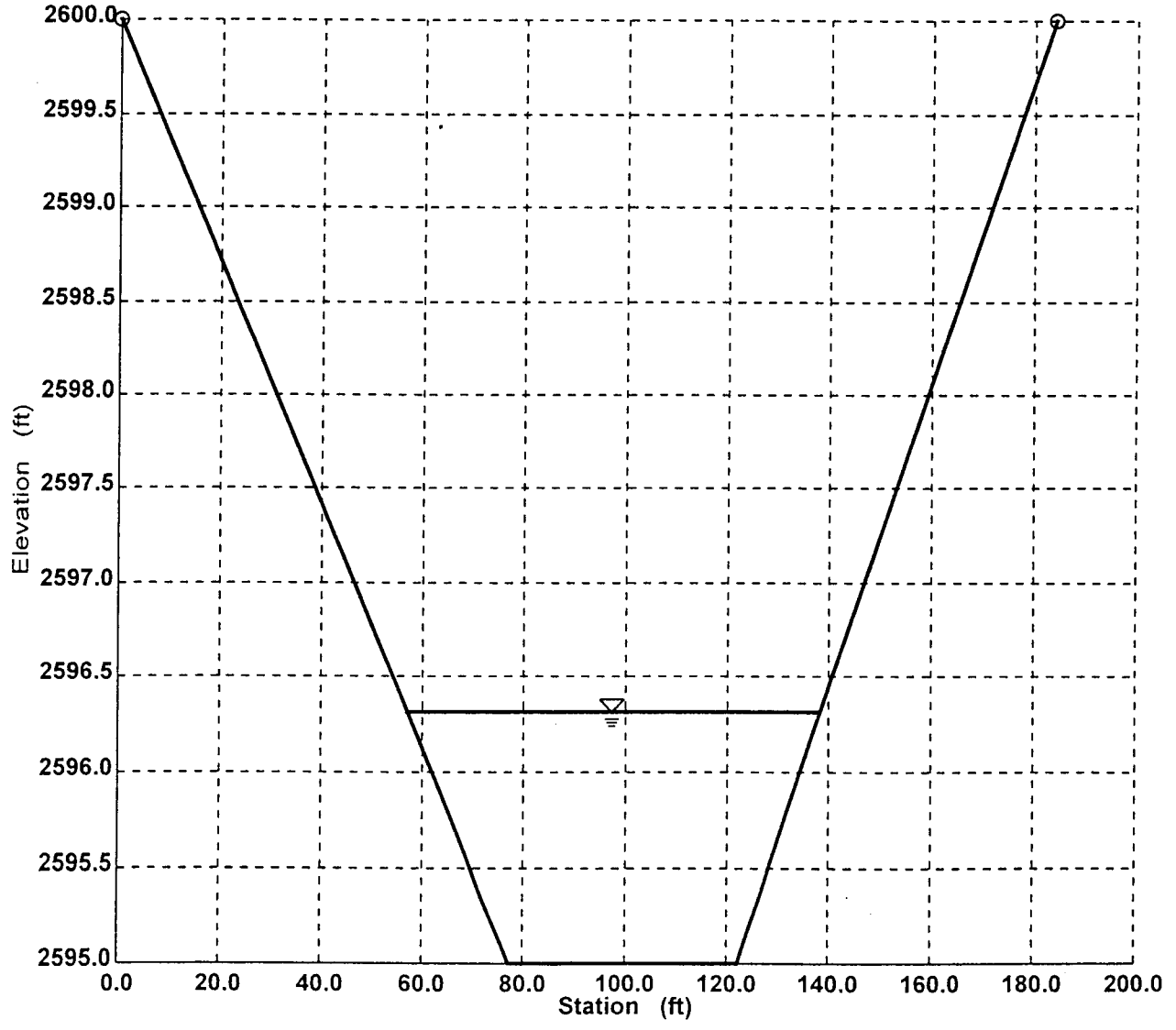
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,600.00	0.00	184.00	0.030
77.00	2,595.00			
122.00	2,595.00			
184.00	2,600.00			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,596.32	ft
Flow Area	83.21	ft²
Wetted Perimeter	81.65	ft
Top Width	81.56	ft
Height	1.32	ft
Critical Depth	2,596.44	ft
Critical Slope	0.012711	ft/ft
Velocity	6.73	ft/s
Velocity Head	0.70	ft
Specific Energy	2,597.02	ft
Froude Number	1.17	
Flow is supercritical.		

CROSS-SECTION 41
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 41
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.8000	%
Water Surface Elevation	2,596.32	ft
Discharge	560.00	cfs



CROSS-SECTION 42
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 42
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

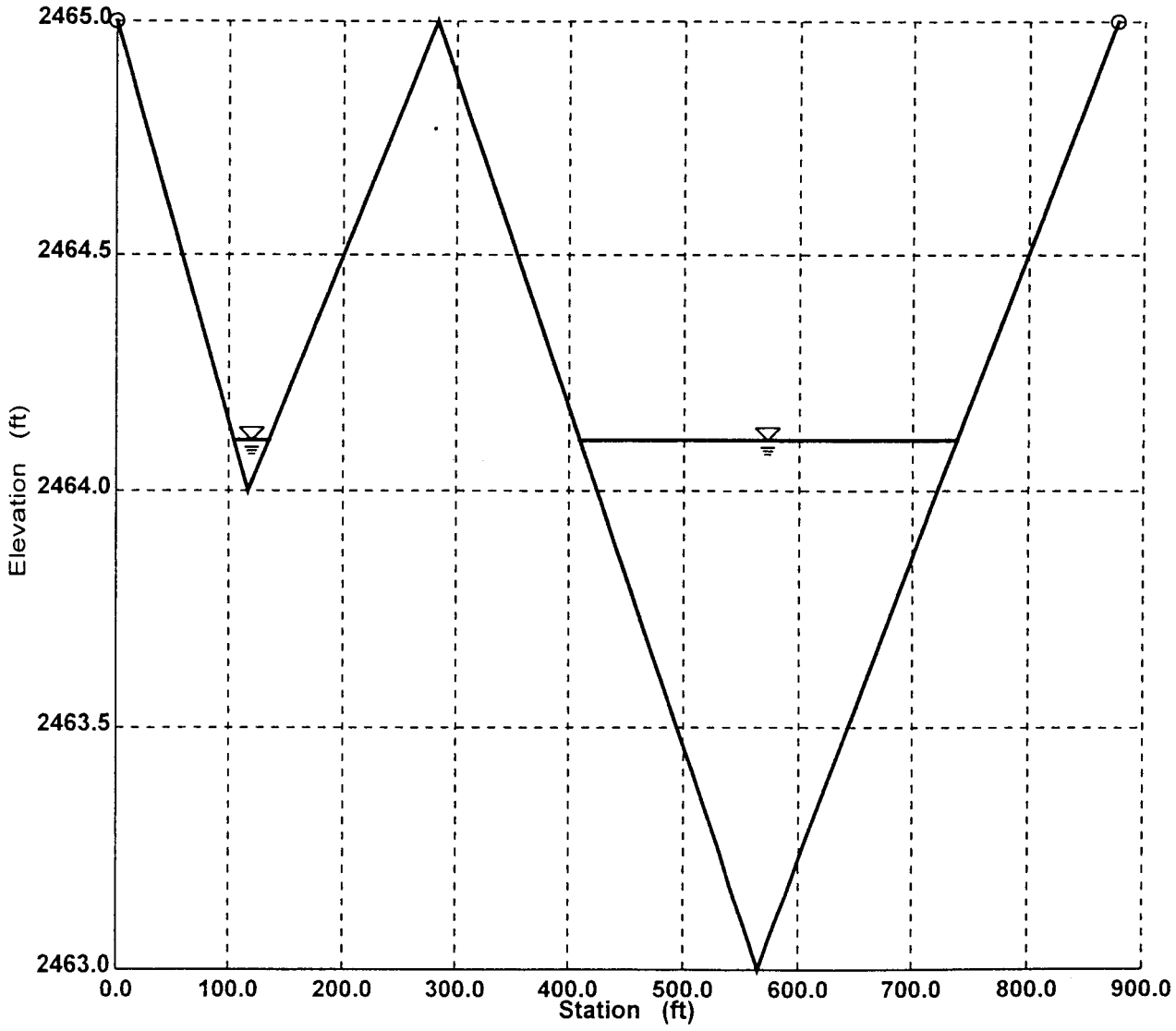
Input Data				
Channel Slope	1.6700 %			
Elevation range: 2,463.00 ft to 2,465.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,465.00	0.00	877.00	0.030
117.00	2,464.00			
284.00	2,465.00			
565.00	2,463.00			
877.00	2,465.00			
Discharge	750.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,464.11	ft
Flow Area	183.29	ft²
Wetted Perimeter	358.61	ft
Top Width	358.61	ft
Height	1.11	ft
Critical Depth	2,464.11	ft
Critical Slope	0.016395	ft/ft
Velocity	4.09	ft/s
Velocity Head	0.26	ft
Specific Energy	2,464.37	ft
Froude Number	1.01	
Flow is supercritical.		
Flow is divided.		

CROSS-SECTION 42
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 42
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.6700	%
Water Surface Elevation	2,464.11	ft
Discharge	750.00	cfs



CROSS-SECTION 43
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 43
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

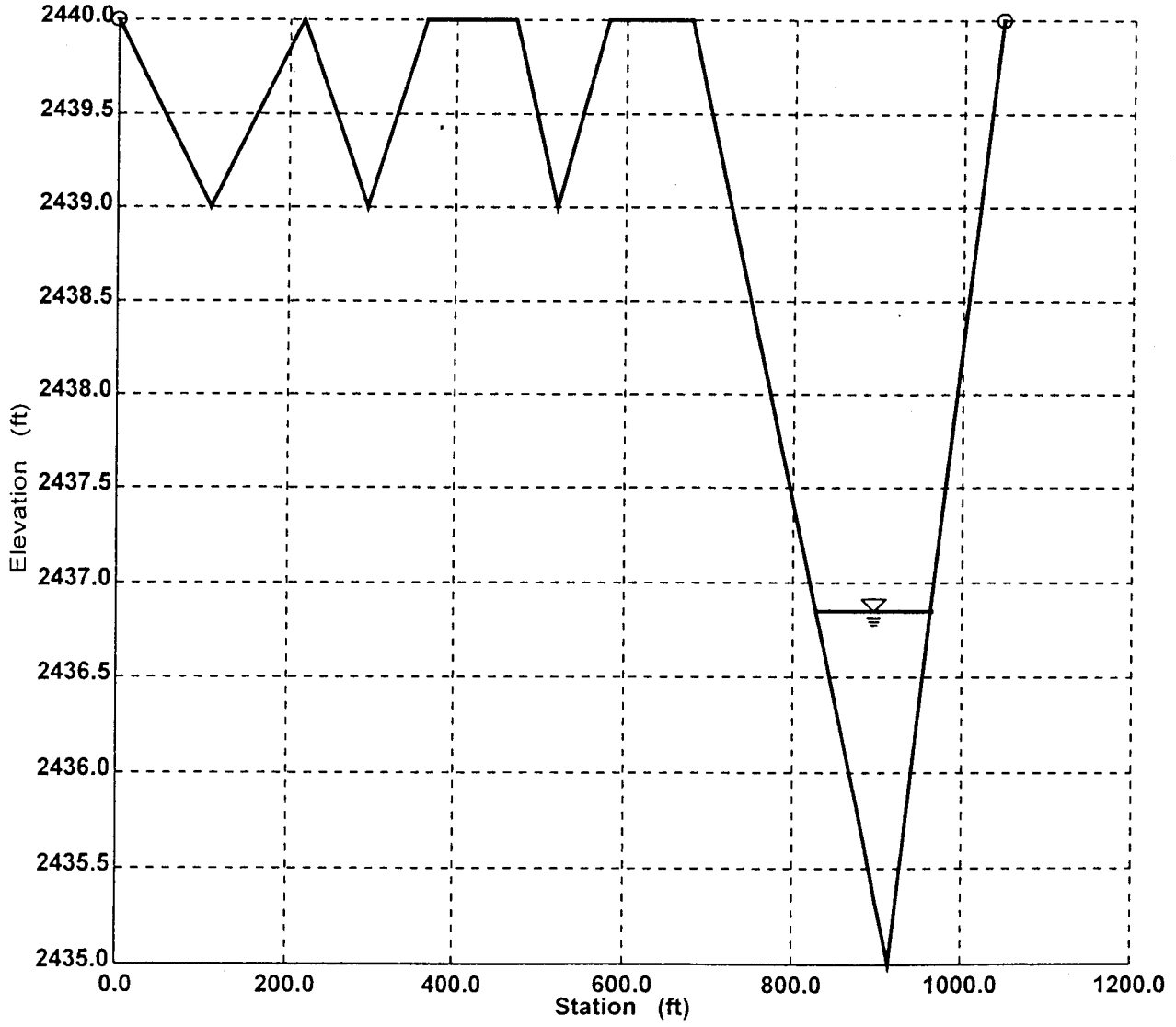
Input Data				
Channel Slope	1.6700 %			
Elevation range: 2,435.00 ft to 2,440.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,440.00	0.00	1,046.00	0.030
109.00	2,439.00			
217.00	2,440.00			
294.00	2,439.00			
364.00	2,440.00			
470.00	2,440.00			
521.00	2,439.00			
581.00	2,440.00			
678.00	2,440.00			
915.00	2,435.00			
1,046.00	2,440.00			
Discharge	760.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,436.85	ft
Flow Area	125.31	ft²
Wetted Perimeter	135.87	ft
Top Width	135.82	ft
Height	1.85	ft
Critical Depth	2,436.93	ft
Critical Slope	0.013287	ft/ft
Velocity	6.06	ft/s
Velocity Head	0.57	ft
Specific Energy	2,437.42	ft
Froude Number	1.11	
Flow is supercritical.		

CROSS-SECTION 43
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 43
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.6700	%
Water Surface Elevation	2,436.85	ft
Discharge	760.00	cfs



CROSS-SECTION 44
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 44
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Input Data		
Channel Slope	1.5000 %	
Elevation range: 2,370.00 ft to 2,385.00 ft.		
Discharge	1,110.00	cfs

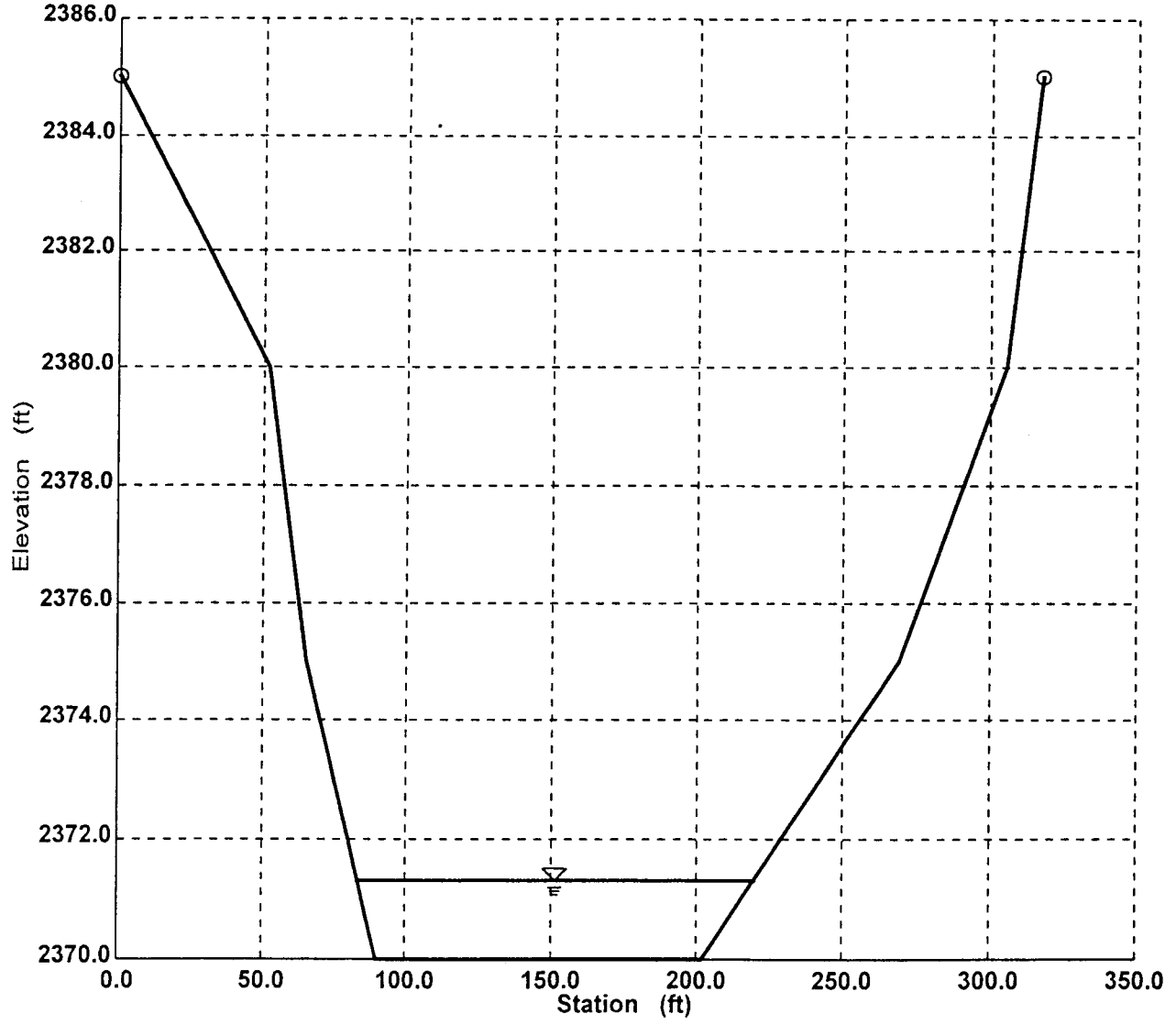
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,385.00	0.00	317.00	0.030
52.00	2,380.00			
65.00	2,375.00			
90.00	2,370.00			
202.00	2,370.00			
269.00	2,375.00			
305.00	2,380.00			
317.00	2,385.00			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,371.31	ft
Flow Area	162.65	ft²
Wetted Perimeter	136.30	ft
Top Width	136.12	ft
Height	1.31	ft
Critical Depth	2,371.39	ft
Critical Slope	0.012151	ft/ft
Velocity	6.82	ft/s
Velocity Head	0.72	ft
Specific Energy	2,372.03	ft
Froude Number	1.10	
Flow is supercritical.		

CROSS-SECTION 44
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 44
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.5000	%
Water Surface Elevation	2,371.31	ft
Discharge	1,110.00	cfs



CROSS-SECTION 45
Worksheet for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 45
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

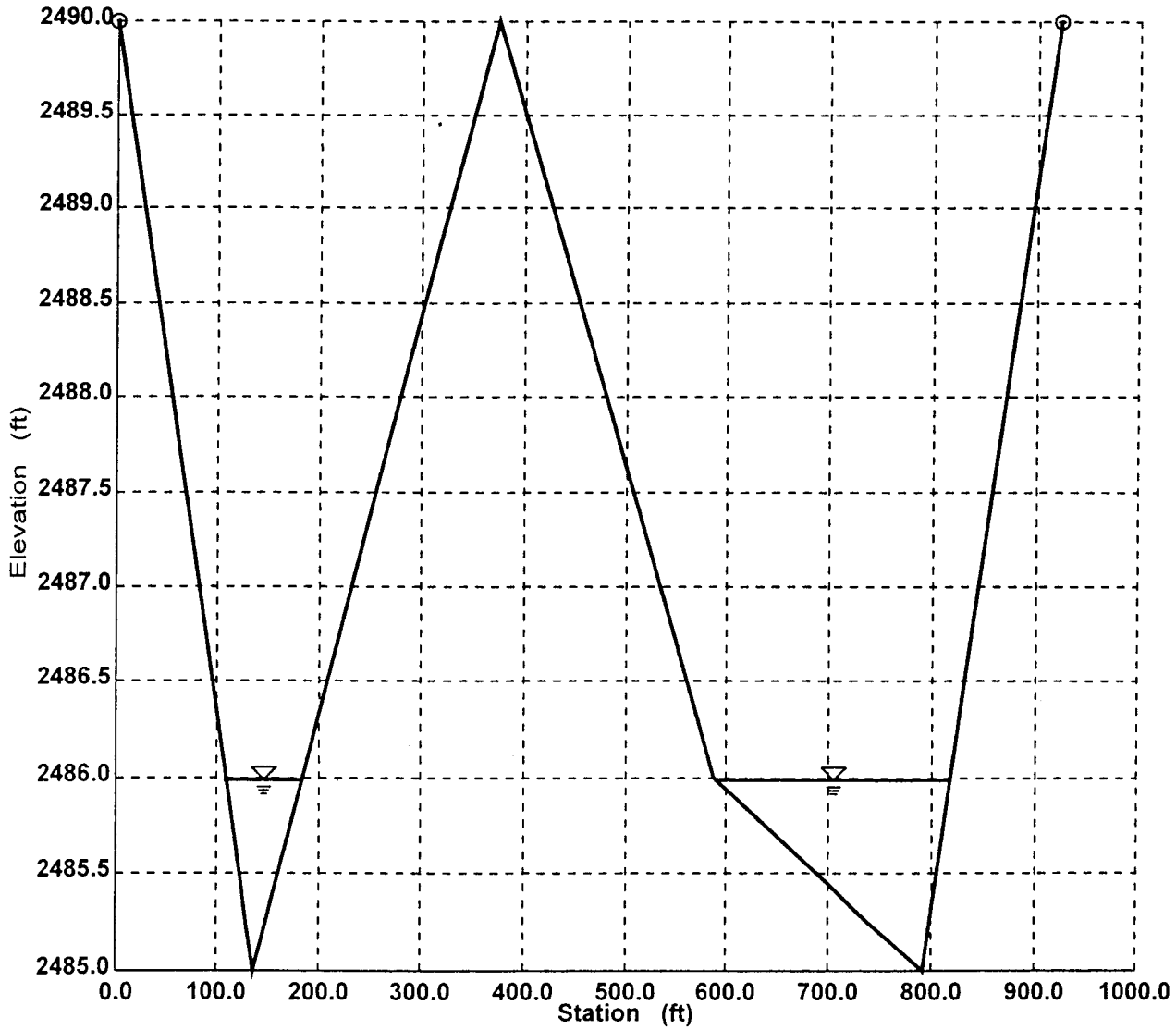
Input Data				
Channel Slope	1.7900 %			
Elevation range: 2,485.00 ft to 2,490.00 ft.				
Station (ft)	Elevation (ft)	Start Station	End Station	Roughness
0.00	2,490.00	0.00	923.00	0.030
135.00	2,485.00			
375.00	2,490.00			
588.00	2,486.00			
792.00	2,485.00			
923.00	2,490.00			
Discharge	610.00 cfs			

Results		
Wtd. Mannings Coefficient	0.030	
Water Surface Elevation	2,485.98	ft
Flow Area	147.73	ft²
Wetted Perimeter	300.34	ft
Top Width	300.29	ft
Height	0.98	ft
Critical Depth	2,486.00	ft
Critical Slope	0.016535	ft/ft
Velocity	4.13	ft/s
Velocity Head	0.26	ft
Specific Energy	2,486.25	ft
Froude Number	1.04	
Flow is supercritical.		
Flow is divided.		

CROSS-SECTION 45
Cross Section for Irregular Channel

Project Description	
Project File	c:\projects\clomr\bd.fm2
Worksheet	CROSS-SECTION 45
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Water Elevation

Section Data		
Wtd. Mannings Coefficient	0.030	
Channel Slope	1.7900	%
Water Surface Elevation	2,485.98	ft
Discharge	610.00	cfs



CULVERT CALCULATIONS

(3-Span Bridge 40'W 7'D)

Flow from *Southwest Las Vegas Valley Development Guidelines – Area II* = 736-cfs

Flow at combined point C-24 = 58-cfs

Flow at combined point C-5 = 417-cfs

Total combined flow to 3-span bridge = 736 + 58 + 417 = 1211-cfs

Total width of bridge = 40 feet

One span = 40/3 = 13.33 feet

Total flow through one span = 1211/3 = 403.67-cfs

From Chart 8:

Height of Box (D) in feet = 7 feet

Ratio of Discharge to width (Q/B) = 403.67/13.33 = 30.3-cfs/foot

From Chart 8: Headwater depth in terms of height (HW/D) = 0.66

HW/D = 0.66

HW = 0.66 * 7 = 4.62 feet

HW depth is less than D of culvert. Therefore, the culvert will be able to convey all of the flow.

Technical Report Documentation Page

1. Report No.	2. Government Accession No.	3. Recipient's Catalog No.
FHWA-IP-85-15 HDS No. 5		

4. Title and Subtitle	5. Report Date
Hydraulic Design of Highway Culverts	September 1985
	6. Performing Organization Code
	8. Performing Organization Report No.
7. Author(s) Jerome M. Normann, Robert J. Houghtalen and William J. Johnston	
9. Performing Organization Name and Address Jerome M. Normann and Associates Norfolk, Virginia 23503	10. Work Unit No. (TRAIS)
	11. Contract or Grant No.
	13. Type of Report and Period Covered
12. Sponsoring Agency Name and Address Office of Implementation, HRT-10 Federal Highway Administration 6200 Georgetown Pike McLean, Virginia 22101	14. Sponsoring Agency Code

15. Supplementary Notes

Project Manager: John M. Kurdziel (HRT-10)
Technical Assistants: Philip L. Thompson, Dennis L. Richards, J. Sterling Jones

16. Abstract

Hydraulic Design Series No. 5 combines culvert design information previously contained in Hydraulic Engineering Circular (HEC) No. 5, No. 10, and No. 13 with hydrologic, storage routing, and special culvert design information. The result is a comprehensive culvert design publication. Hydrologic analysis methods are described, and references cited. Culvert design methods are presented for both conventional culverts and culverts with inlet improvements. Storage routing techniques are included which permit the designer to account for ponding effects upstream of the culvert. Unique culvert applications, erosion and sediment control, debris control, structural aspects, and long span culverts are discussed and references cited. Inlet control, outlet control, and critical depth design charts, many of which are newly developed, are included for a variety of culvert sizes, shapes, and materials. New dimensionless culvert design charts are provided for the design of culverts lacking conventional design nomographs and charts. The appendices of the publication contain the equations and methodology used to construct the design charts, information of the hydraulic resistance of culverts, and methods of optimizing culvert design using performance curves and inlet depression. Calculation forms are provided for most of the design methodologies in the manual.

17. Key Words	18. Distribution Statement
Culverts, hydrology, storage routing inlet control, outlet control, critical depth, tapered inlets.	This document is available to the public through the National Technical Information Service, Springfield, Virginia 22161.

19. Security Classif. (of this report)	20. Security Classif. (of this page)	21. No. of Pages	22. Price
Unclassified	Unclassified	272	

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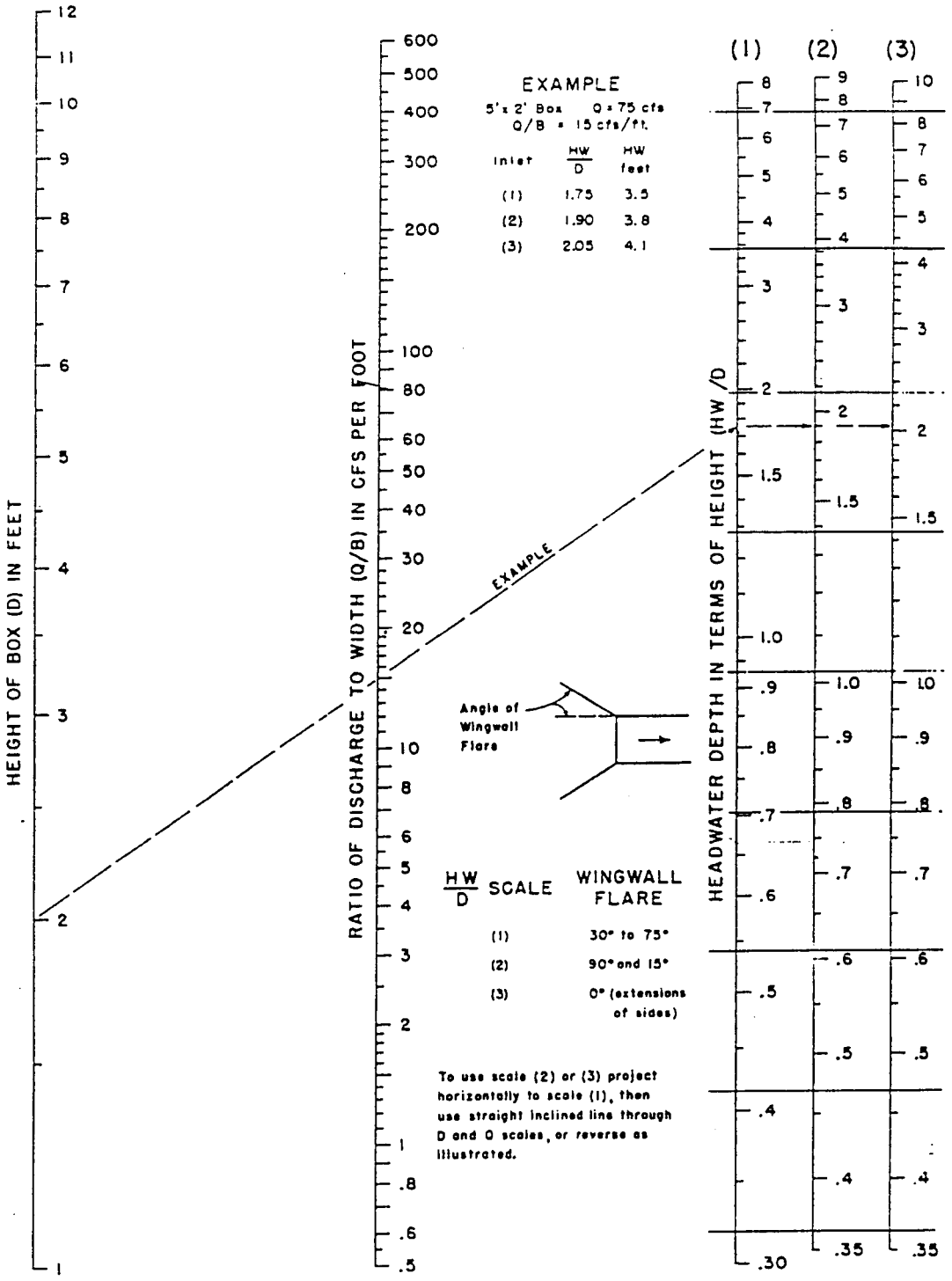
CHART 8



HEADWATER DEPTH FOR BOX CULVERTS WITH INLET CONTROL

BUREAU OF PUBLIC ROADS JAN. 1963

Appendix V: Referenced Material

SEE SHEET 5 OF 8

SEE SHEET 7 OF 8

BDI-8
BDI-7
BDI-6
BDI-4
BDI-3
BDI-2
BDI-1
BDI-14
BDI-19
BDI-21
BDI-27
BDI-28
BDI-29
BDI-23
BDI-18
BDI-11
BDI-17
BDI-15
BDI-16
BDG-1
BDG-2
BDG-3
BDG-4
BDG-5
BDG-6
BDG-7
BDG-8
BDG-9
BDG-10
BDG-11
BDG-12
BDG-13
BDF-1
BDF-2
BDE-1
BDE-2
BDE-3
BDE-4
BDE-5
BDE-6
BDE-7
BDE-8
BDE-9
BDD-1
BDC-1
BDB-1
BDB-2
BDB-3
BDB-4
BDB-5
BDB-6
BDA-1
BDA-2
BDA-3
DC-7
DC-8
DC-9
DC-10
DC-11
DC-12
DC-13
DC-14

41'x10' BRIDGE
UPRR-4

41'x5' BRIDGE
UPRR-3

2.36" RCP's
UPRR-2

8'x4' RCB
UPRR-1

2.8'X3' RCB'S
BD-3

36" CMP
BD-2

24" RCP
BD-1

6" CMP's
RR-(-1)

BLUE DIAMOND RD

OFFSITE CONTRIBUTING BASINS

H
G
F
E
D
C
B
A

CLARK COUNTY
NEVADA

DESERT INN
FLAMINGO
TROPICANA
RUSSELL
SUNSET
WARM SPRINGS

R60E R61E

JONES DECATUR VALLEY VIEW

DURANGO BUFFALO RAINBOW

RUSSELL
T21S
T22S
WARM SPRINGS
WINDMILL
PEBBLE
GOMER

KEY MAP

LEGEND

- BASIN BOUNDARY
- RED ROCK WATERSHED
- FLAMINGO WATERSHED
- TROPICANA WASH WATERSHED
- McCARRAN NORTHWEST WATERSHED
- BLUE DIAMOND WASH WATERSHED
- DUCK CREEK WATERSHED
- C BASIN IDENTIFIER
- TWE-22 SUBBASIN IDENTIFIER

100-YEAR FLOW RATE (CFS)
10-YEAR FLOW RATE (CFS)
406/152
EXISTING FLOW DIRECTION

N W E S

400 200 100 0 200 400
1 INCH=400 FEET
GRAPHIC SCALE

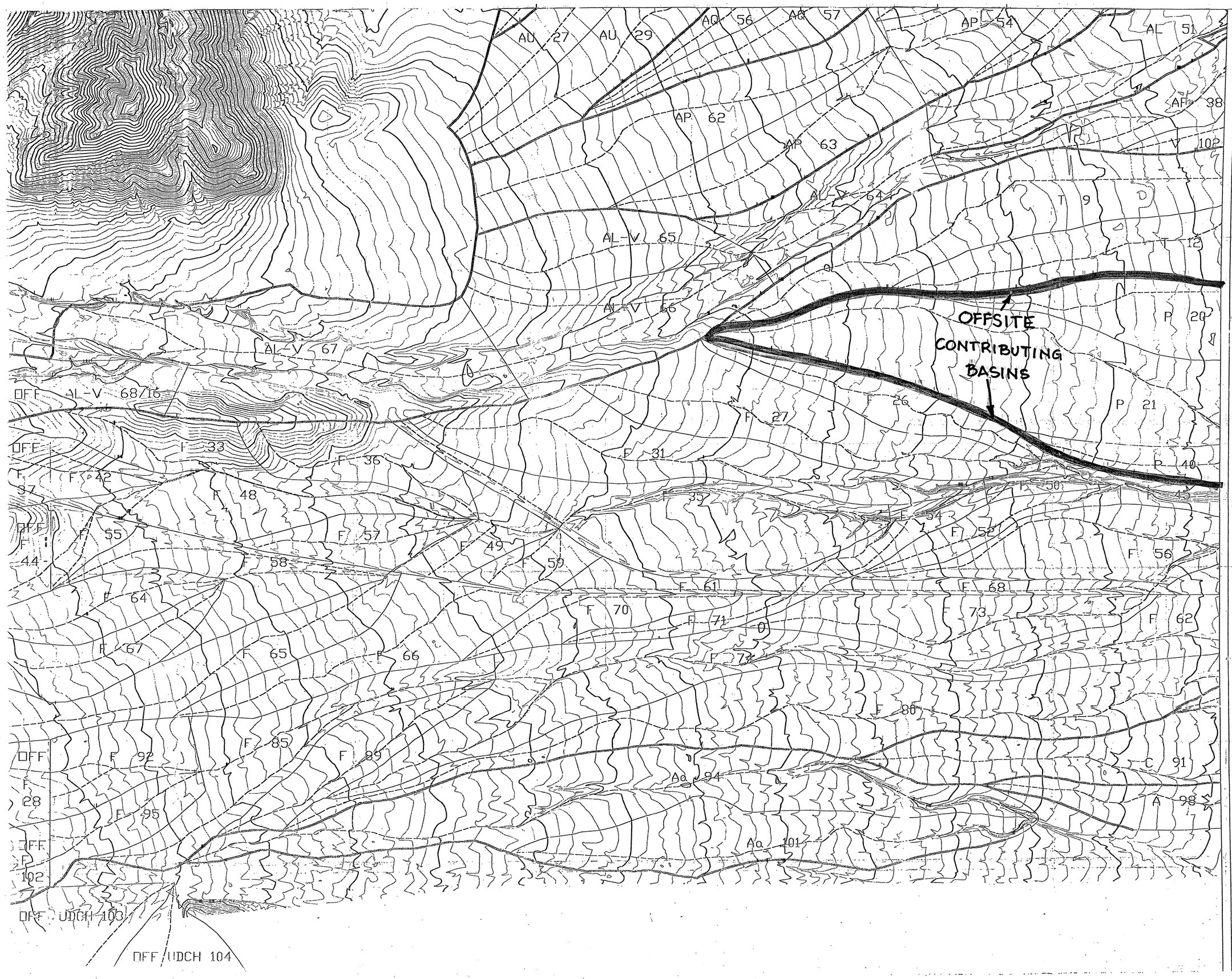
SOUTHWEST LAS VEGAS VALLEY DEVELOPMENT GUIDELINES -AREA II

EXISTING DRAINAGE CONDITION HYDROLOGIC BASIN DELINEATIONS

PREPARED BY:
PBS
POST, BUCKLEY, SCHUH & JERNIGAN
901 N. Green Valley Pkwy. Suite 100 Henderson, Nevada 89014 Telephone: 702/263-7272 Fax: 702/263-7200
ENGINEERING • PLANNING • SURVEYING • CONSTRUCTION SERVICES

FIGURE E2

APRIL 1996



PREPARED BY:

WILLDAN ASSOCIATES

ENGINEERS & PLANNERS

2325-A RENAISSANCE, DRIVE
LAS VEGAS, NV. 89119
(702) 795-7870 • FAX (702) 795-3696

FLOW PATH MAPS

1	N
2	
3	4
5	6

SHEET LAYOUT

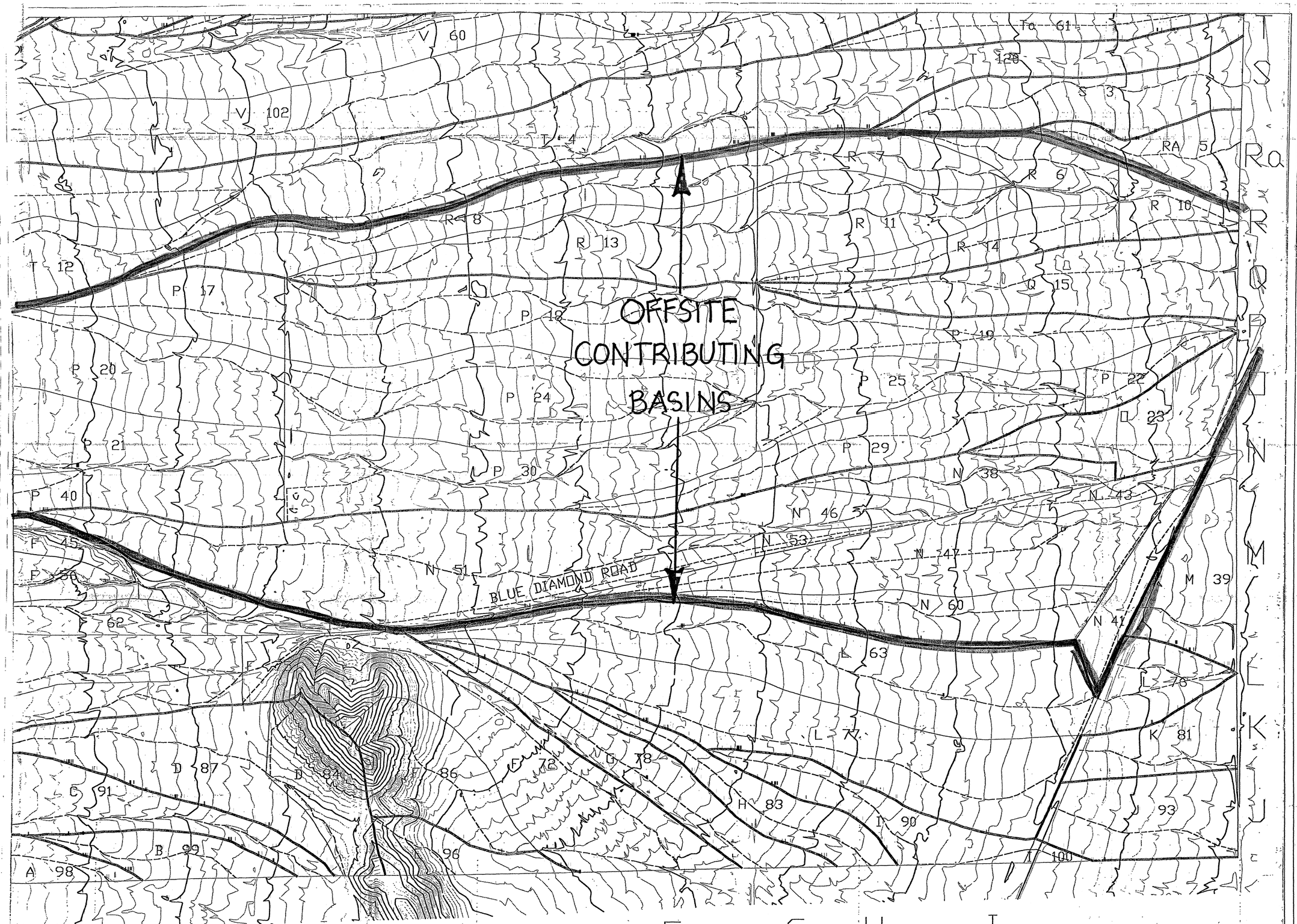
GRAPHIC SCALE

SCALE: 1"=400'

4' CONTOUR INTERVAL

LEGEND

ZZ 99	BASIN IDENTIFIER
BS	WATERSHED IDENTIFIER
	WATERSHED BOUNDARY
	BASIN BOUNDARY
	FLOW PATH



PREPARED BY:

WILLDAN
ASSOCIATES

ENGINEERS & PLANNERS

2325-A RENAISSANCE DRIVE
LAS VEGAS, NV. 89119
(702) 795-7870 * FAX (702) 795-3696

FLOW PATH MAPS

1	
2	
3	4
5	6

SHEET LAYOUT

N

GRAPHIC SCALE

SCALE: 1"=400'

4' CONTOUR INTERVAL

LEGEND

ZZ 99	BASIN IDENTIFIER
BS	WATERSHED IDENTIFIER
———	WATERSHED BOUNDARY
———	BASIN BOUNDARY
- - - -	FLOW PATH

Federal Emergency Management Agency

Washington, D.C. 20472

JAN 3 1 2000

RECEIVED
FEB 0 4 2000
C.C.P.W.
DIRECTORS OFFICE

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

IN REPLY REFER TO:
Case No.: 00-09-170R

The Honorable Bruce L. Woodbury
Chairman, Clark County
Board of Commissioners
225 Bridger Avenue, Sixth Floor
Las Vegas, NV 89155

Community: Clark County, Nevada
Community No.: 320003

104

Carla Dennis

Dear Mr. Woodbury:

This responds to a request that the Federal Emergency Management Agency (FEMA) comment on the effects that a proposed project would have on the effective Flood Insurance Rate Map (FIRM) and Flood Insurance Study (FIS) report for Clark County, Nevada and Incorporated Areas (the effective FIRM and FIS report for your community), in accordance with Part 65 of the National Flood Insurance Program (NFIP) regulations. In a letter dated November 10, 1999, Mr. Gale Wm. Fraser II, P.E., General Manager/Chief Engineer, Clark County Regional Flood Control District, requested that FEMA evaluate the effects that the proposed Blue Diamond Detention Basin (BDDB) would have on the flood hazard information shown on the effective FIRM and FIS report.

All data required to complete our review of this request for a Conditional Letter of Map Revision (CLOMR) were submitted with letters from Mr. Fraser. Because this CLOMR shows the effects of a federally sponsored flood-control project where 50 percent or more of the project's costs are federally funded, fees were not assessed for the review.

We have completed our review of the submitted data and the flood data used to prepare the effective FIRM and FIS report for your community. The area of the proposed BDDB is shown on the effective FIRM as a Special Flood Hazard Area (SFHA) designated Zone A, an area that would be inundated by the flood having a 1-percent chance of being equaled or exceeded in any given year (base flood), with no base flood elevations (BFEs) determined. The proposed BDDB is located upstream of the apex of the Blue Diamond Fan, which is designated on the effective FIRM as Zone AO, an SFHA with depths and flow velocities determined. We believe that, if the proposed project is constructed as shown on the plans entitled "Blue Diamond Detention Basin," dated August 5, 1999, and as described in the reports entitled "Las Vegas Wash & Tributaries Hydrologic Basis for Design," dated June 1993, and "Design Memorandum Blue Diamond Detention Basin," dated April 1998, all prepared by the U.S. Army Corps of Engineers (USACE), Los Angeles District, and the data listed below are received, a revision to the FIRM and FIS report would be warranted.

The proposed BDDB is designed to attenuate the base flood from a maximum inflow of 13,800 cubic feet per second (cfs) to a maximum outflow of 213 cfs. According to the submitted reports, the HEC-1 hydrologic model used by the USACE to analyze the proposed BDDB was originally developed by James M. Montgomery Consulting Engineers, Inc. (JMM). The changes to the model included replacement of the runoff curve numbers used by JMM with a uniform loss rate, revision to the subbasin areas and lag times, and modification of the channel routing parameters. The result is a hydrograph for

the base flood that has a 7-percent peak discharge reduction and a 35-percent volume reduction compared to JMM's base flood hydrograph. Please note that, based on the submitted elevation-storage-outflow data, the maximum outflow from the proposed BDDB using JMM's inflow hydrograph would exceed 11,000 cfs.

Based on the USACE Design Memorandum, the maximum water-surface elevation for the base flood in the proposed BDDB will be identical to the spillway crest elevation. Please note that for a 1-foot rise in reservoir stage, which could be realized with less than a 5-percent increase in hydrograph or sediment inflow volume, the maximum outflow from the proposed BDDB would exceed 6,000 cfs.

Similar issues were raised during the review of the Red Rock Detention Basin submittal, which included a calibrated rainfall-runoff model developed by the USACE. In a letter dated December 6, 1994, Mr. Robert E. Koplin, P.E., Chief, Planning Division, USACE, Los Angeles District, stated that the USACE had developed a procedure for using a rainfall-runoff model to make discharge-frequency estimates for anywhere in the Las Vegas Valley. Mr. Koplin also stated that the procedures used in the USACE submittal were developed from the calibration of rainfall-runoff models to match regional flood-frequency relationships at gaged sites, and he expressed confidence that these procedures provide the best available estimates for FISs.

In his request, Mr. Fraser stated that upon completion of the proposed BDDB, it is expected that the effective alluvial fan zone for the Blue Diamond Fan will be converted to a flood hazard area designated Zone X from its apex east to the Union Pacific Railroad. With the exception of the maximum base flood outflow from the proposed BDDB, no analyses were submitted to support a conditional map revision. The reports submitted by the USACE do not include any evaluation of the flood hazards downstream of the proposed BDDB based on flow from the outlet works or local flooding. In order to revise the FIRM, an analysis and mapping of the flood hazards downstream of the proposed BDDB must be provided, including the effects of local runoff and sources other than the fan apex. The analysis also should include consideration of the potential for hazardous velocities, head cutting, and new channel formation downstream of the proposed BDDB because of the concentrated release of clear water from the outlet works.

The submitted USACE Design Memorandum quantifies the expected sediment yield for the base flood at approximately 10 percent by volume of the USACE's inflow hydrograph. The report states that no antecedent sediment accumulation was included in the proposed BDDB design because the local sponsor stated that they will perform cleanouts after each storm or on an annual basis. Please note that to meet the conditions assumed in the USACE's design, a sediment cleanout must be performed after every flood event that results in deposition of sediment in the proposed BDDB.

Upon completion of the project, your community may submit the data listed below and request that we make a final determination on revising the effective FIRM and FIS report.

- An analysis and mapping of the flood hazards downstream of the proposed BDDB
- As-built plans, certified by a registered professional engineer, of all proposed project elements
- Community acknowledgment of the map revision request
- An officially adopted maintenance and operation plan for the proposed BDDB. This plan, which may be in the form of a written statement from the community Chief Executive

Officer, an ordinance, or other legislation, must describe the nature of the maintenance activities, the frequency with which they will be performed, and the title of the local community official who will be responsible for ensuring that the maintenance activities are accomplished.

After receiving appropriate documentation to show that the project has been completed, FEMA will initiate a revision to the FIRM and FIS report. Because the BFEs would change as a result of the project, a 90-day appeal period would be initiated, during which community officials and interested persons may appeal the revised BFEs based on scientific or technical data.

This CLOMR is based on minimum floodplain management criteria established under the NFIP. Your community is responsible for approving all floodplain development, and for ensuring all necessary permits required by Federal or State law have been received. State, county, and community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction in the SFHA. If the State, county, or community has adopted more restrictive or comprehensive floodplain management criteria, these criteria take precedence over the minimum NFIP criteria.

If you have any questions regarding floodplain management regulations for your community or the NFIP in general, please contact the Consultation Coordination Officer (CCO) for your community. Information on the CCO for your community may be obtained by contacting the Director, Mitigation Division of FEMA in San Francisco, California, at (415) 923-7177. If you have any technical questions regarding this CLOMR, please contact Mr. Max Yuan of our staff in Washington, DC, either by telephone at (202) 646-3843 or by facsimile at (202) 646-4596.

Sincerely,

Max H. Yuan, P.E., Project Engineer
Hazards Study Branch
Mitigation Directorate

For: Matthew B. Miller, P.E., Chief
Hazards Study Branch
Mitigation Directorate

Enclosure(s)

cc: Mr. Gale Wm. Fraser II, P.E.
General Manager/Chief Engineer
Clark County Regional Flood
Control District

Mr. Martin Manning
Director
Clark County Department
of Public Works

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*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*             SEPTEMBER 1990            *
*               VERSION 4.0             *
*                                       *
*  RUN DATE  10/18/1995  TIME  08:21:08 *
*                                       *
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*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*        DAVIS, CALIFORNIA 95616        *
*             (916) 756-1104            *
*                                       *
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

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


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        9       ID                          AREA II
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       11       ID              - UNION PACIFIC RAILROAD CONVEYANCES NO. 1 -
       12       ID
       13       ID                     EXISTING DRAINAGE CONDITIONS
       14       ID                 100-YEAR PEAK FLOW RATES, 6-HOUR STORM (SDN3)
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       40       ID            CUPRR-7        4.570**   0.91
       41       ID
       42       ID          * REVISED AREA I BASIN/SUBBASIN
       43       ID         ** PRORATED AREA ACCOUNTS FOR UPSTREAM DIVERSION(S)
       44       ID
       45       ID          4-MINUTE COMPUTATION INTERVAL
       46       ID
                *DIAGRAM
*** FREE ***
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       60       PC    .860    .868    .876    .888    .910    .926    .937    .950    .970    .976
       61       PC    .982    .985    .987    .989    .990    .993    .993    .994    .995    .998
       62       PC    .998    .999   1.00
       63       LS       0      86
       64       UD    0.27
                *

       65       KK RT37-42
       66       KM   AREA I OFFSITE 37 TO 42
       67       RS       2    FLOW      -1
       68       RC   0.040   0.035   0.040    1283   0.018
       69       RX       0     100     110     133     152     175     185     285
       70       RY      14      12      12      10      10      12      12      14
                *

       71       KK     F42
       72       KM   AREA I SUBBASIN F42
       73       BA   0.021
       74       PB    3.15
       75       LS       0    86.3
       76       UD  0.1605
                *

       77       KK CP37-42
       78       HC       2
                *

       79       KK     F44
       80       KM   AREA I SUBBASIN F44
```

```
 81          BA     0.4
 82          PB    3.26
 83          UD     0.6
             *

 84          KK RT44-55
 85          KM   OFFSITE F44 TO F55
 86          RS       1    FLOW      -1
 87          RC   0.040   0.035   0.040     827 0.02205
 88          RX       0     100     110     133     152     175     185     285
 89          RY      14      12      12      10      10      12      12      14
             *
```



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

 90          KK     F55
 91          KM   AREA I SUBBASIN F55
 92          BA   0.018
 93          PB    3.15
 94          LS       0    86.3
 95          UD  0.0755
             *

 96          KK CP55-44
 97          HC       2
             *

 98          KK RT55-42
 99          KM   ROUTE CP55-44 TO F42
100          RS       2    FLOW      -1
101          RC   0.040   0.035   0.040     829  0.0193
102          RX       0     100     110     140     165     195     205     305
103          RY      14      12      12      10      10      12      12      14
             *

104          KK CP55-42
105          HC       2
             *

106          KK RT42-48
107          KM   ROUTE CP55-42 TO F48
108          RS       5    FLOW      -1
109          RC   0.040   0.035   0.040    3107 0.01800
110          RX       0     100     110     140     165     195     205     305
111          RY      14      12      12      10      10      12      12      14
             *

112          KK     F33
113          KM   AREA I SUBBASIN F33
114          BA   0.061
115          PB    3.15
116          LS       0    86.1
117          UD  0.4126
             *

118          KK     F36
119          KM   AREA I SUBBASIN F37
120          BA   0.059
121          PB    3.15
122          LS       0    86.1
123          UD  0.2815
             *

124          KK     F48
125          KM   AREA I SUBBASIN F48
126          BA    0.06
127          PB    3.15
128          LS       0    86.6
129          UD  0.1091
             *
```



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

130          KK     F57
131          KM   AREA I SUBBASIN F57
132          BA   0.036
133          PB    3.15
134          LS       0      87
135          UD  0.3096
             *

136          KK    CP48
137          KM   COMBINE 42-55+33+36+48+57
138          HC       5
             *

139          KK  T49-10
140          KM   36, 33, 57, 58, 65 TO 49
141          RS       2    FLOW      -1
142          RC   0.040   0.035   0.040     966 0.01700
143          RX       0     100     110     127     154     170     180     280
144          RY      15      13      13      10      10      13      13      15
             *

145          KK     F69
146          KM   AREA I SUBBASIN F69
147          BA    0.01
148          PB    3.15
149          LS       0    85.9
150          UD  0.0554
             *

151          KK     RT1
152          KM   ROUTE 69 TO 64
153          RS       5    FLOW      -1
154          RC   0.040   0.035   0.040    3266 0.02300
155          RX       0     100     110     125     160     175     185     285
156          RY      13      11      11      10      10      11      11      13
             *

157          KK     F64
158          KM   AREA I SUBBASIN F57
159          BA   0.037
160          PB    3.15
161          LS       0    86.5
162          UD  0.2108
             *

163          KK     F79
164          KM   AREA I SUBBASIN F79
165          BA   0.009
166          PB    3.15
167          LS       0    85.1
168          UD    0.04
             *
```



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

```
169          KK     RT2
170          KM   ROUTE 79 TO 67
171          RS       4     FLOW       -1
172          RC   0.040    0.035    0.040    2002  0.0200
173          RX       0      100      110      190      210      290      300      400
174          RY      16       14       14       10       10       14       14       16
             *
175          KK     F67
176          KM   AREA I SUBBASIN F67
177          BA   0.037
178          PB    3.15
179          LS       0     86.6
180          UD  0.1676
             *
181          KK     CP1
182          KM   JOIN 69 64 79 AND 67
183          HC       4
             *
184          KK  T58-17
185          KM   69/64&79/67TO58
186          RS       3     FLOW       -1
187          RC   0.040    0.035    0.040    1876 0.01900
188          RX       0      100      110      190      210      290      300      400
189          RY      16       14       14       10       10       14       14       16
             *
190          KK     F82
191          KM   AREA I SUBBASIN F82
192          BA   0.105
193          PB    3.25
194          LS       0       86
195          UD    0.24
             *
196          KK     RT82
197          KM   ROUTE 82 TO 65
198          RS       6     FLOW       -1
199          RC   0.040    0.035    0.040    3725 0.02160
200          RX       0      100      110      250      285      425      435      535
201          RY      16       14       14       10       10       14       14       16
             *
202          KK     F65
203          KM   AREA I SUBBASIN F65
204          BA   0.077
205          PB    3.15
206          LS       0     85.7
207          UD  0.2396
             *
1                                        HEC-1 INPUT                                        PAGE  6

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

208          KK     F58
209          KM   AREA I SUBBASIN F58
210          BA   0.066
211          PB    3.15
212          LS       0     87.1
213          UD  0.3841
             *
214          KK     CP2
215          KM   58-65-64&67 UPSTEAM END OF CULVERT BDW2
216          HC       4
             *
217          KK  T49-11
218          KM   58&65TO49
219          RS       2     FLOW       -1
220          RC   0.040    0.035    0.040    1218 0.02170
221          RX       0      100      110      162      181      233      243      343
222          RY      16       14       14       10       10       14       14       16
             *
223          KK     F49
224          KM   AREA I SUBBASIN F49
225          BA   0.032
226          PB    3.13
227          LS       0     86.8
228          UD  0.1983
             *
229          KK     F66
230          KM   AREA I SUBBASIN F66
231          BA   0.084
232          PB    3.15
233          LS       0     86.4
234          UD  0.5348
             *
235          KK  T59-18
236          KM   66 TO 59
237          RS       1     FLOW       -1
238          RC   0.040    0.035    0.040     890 0.01680
239          RX       0      100      110      210      260      360      370      470
240          RY      16       14       14       10       10       14       14       16
             *
241          KK     F59
242          KM   AREA I SUBBASIN F59
243          BA   0.023
244          PB    3.06
245          LS       0     86.6
246          UD  0.1664
             *
1                                        HEC-1 INPUT                                        PAGE  7

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

247          KK    CPRR
248          KM   TOTAL UPSTREAM OF RR CULVERT AND EMBANKMENT
249          HC       5
             *
250          KK   RR-35
251          KM   RR TO 35
252          RS       7     FLOW       -1
253          RC   0.040    0.035    0.040    4015 0.02080
254          RX       0      100      110      135      155      180      190      290
255          RY      17       15       15       10       10       15       15       17
             *
256          KK     F35
257          KM   AREA I SUBBASIN F35
258          BA   0.139
259          PB    3.01
```

```
260         LS       0    86.9
261         UD   0.473
            *

262         KK    CP35
263         KM   RR FLOW - 35
264         HC       2
            *

265         KK RT35-54
266         KM   35 TO 54
267         RS       2    FLOW      -1
268         RC   0.040   0.035   0.040    1153 0.00690
269         RX       0     100     110     125     161     176     186     286
270         RY      17      15      15      10      10      15      15      17
            *

271         KK     F71
272         KM   AREA I SUBBASIN F71
273         BA    0.02
274         PB       3
275         LS       0    86.8
276         UD  0.3729
            *

277         KK RT71-60
278         KM   71 TO 61
279         RS       2    FLOW      -1
280         RC   0.040   0.035   0.040     123 0.01620
281         RX       0     100     110     125     130     145     155     255
282         RY      14      13      13      10      10      13      13      14
            *
1                                        HEC-1 INPUT                                        PAGE  8

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

283         KK     F70
284         KM   AREA I SUBBASIN F70
285         BA   0.037
286         PB    3.04
287         LS       0    87.1
288         UD  0.3361
            *

289         KK RT70-61
290         KM   70 TO 61
291         RS       1    FLOW      -1
292         RC   0.040   0.035   0.040     767 0.02200
293         RX       0     100     110     118     119     126     136     236
294         RY      13      11      11      10      10      11      11      13
            *

295         KK     F61
296         KM   AREA I SUBBASIN F61
297         BA   0.025
298         PB       3
299         LS       0      88
300         UD  0.0332
            *

301         KK    CP61
302         KM   71-70-61
303         HC       3
            *

304         KK RT61-54
305         KM   61 TO 54
306         RS       2    FLOW      -1
307         RC   0.040   0.035   0.040    1480 0.02800
308         RX       0     100     110     131     152     173     183     283
309         RY      15      13      13      10      10      13      13      15
            *

310         KK     F54
311         KM   AREA I SUBBASIN F54
312         BA   0.026
313         PB       3
314         LS       0      87
315         UD  0.2017
            *

316         KK     F31
317         KM   AREA I SUBBASIN F31
318         BA   0.128
319         PB    3.02
320         LS       0      87
321         UD  0.5866
            *
1                                        HEC-1 INPUT                                        PAGE  9

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

322         KK    CP54
323         KM   S4-61-31-35
324         HC       4
            *

325         KK RT54-50
326         KM   31,61&54TO50
327         RS       2    FLOW      -1
328         RC   0.040   0.035   0.040    1099 0.02635
329         RX       0     100     110     158     208     256     266     366
330         RY      24      22      22      10      10      22      22      24
            *

331         KK     F50
332         KM   AREA I SUBBASIN F50
333         BA   0.011
334         PB       3
335         LS       0      87
336         UD  0.1533
            *

337         KK    CP50
338         KM   54-50
339         HC       2
            *

340         KK     F52
341         KM   AREA I SUBBASIN F52
342         BA    0.03
343         PB       3
344         LS       0      87
345         UD  0.3615
            *

346         KK    CP52
347         KM   50-52
348         HC       2
```

```
                *
349             KK     F27
350             KM   AREA I SUBBASIN F27
351             BA   0.116
352             PB       3
353             LS       0    86.8
354             UD  0.4552
                *

355             KK     F26
356             KM   AREA I SUBBASIN F26
357             BA    0.05
358             PB       3
359             LS       0    86.8
360             UD  0.4207
                *
```



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

361             KK    CP26
362             KM   26-27
363             HC       2
                *

364             KK RT26-50
365             KM   26&27TO50
366             RS       2    FLOW      -1
367             RC   0.040   0.035   0.040    1000 0.02190
368             RX       0     100     110     118     150     158     168     268
369             RY      14      12      12      10      10      12      12      14
                *

370             KK    CP50
371             KM   50+26
372             HC       2
                *

373             KK RT50-56
374             KM   50-52-26-27 TO 56
375             RS       5    FLOW      -1
376             RC   0.040   0.035   0.040    3113 0.01630
377             RX       0     100     110     118     150     158     168     268
378             RY      14      12      12      10      10      12      12      14
                *

379             KK     F73
380             KM   AREA I SUBBASIN F73
381             BA   0.082
382             PB       3
383             LS       0    87.2
384             UD  0.4595
                *

385             KK     F68
386             KM   AREA I SUBBASIN F68
387             BA   0.025
388             PB       3
389             LS       0    87.6
390             UD    0.49
                *

391             KK    CP68
392             KM   68-73
393             HC       2
                *

394             KK RT68-56
395             KM   73&68TO56
396             RS       4    FLOW      -1
397             RC   0.040   0.035   0.040    2511 0.02040
398             RX       0     100     110     140     171     201     211     311
399             RY      14      12      12      10      10      12      12      14
                *
```



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

400             KK     F56
401             KM   AREA I SUBBASIN F56
402             BA   0.104
403             PB       3
404             LS       0      87
405             UD  0.5702
                *

406             KK    CP56
407             KM   56-68-73-50
408             HC       3
                *

409             KK RT56-62
410             KM   56 TO 62
411             RS       1    FLOW      -1
412             RC   0.040   0.035   0.040     896 0.01575
413             RX       0     100     110     122     146     158     168     268
414             RY      14      12      12      10      10      12      12      14
                *

415             KK     F62
416             KM   AREA I SUBBASIN F62
417             BA   0.032
418             PB       3
419             LS       0    87.8
420             UD  0.2131
                *

421             KK    CP62
422             KM   62-56
423             HC       2
                *

424             KK RT62-45
425             KM   62 TO 45
426             RS       2    FLOW      -1
427             RC   0.040   0.035   0.040    1373 0.01360
428             RX       0     100     110     138     160     188     198     298
429             RY      17      15      15      10      10      15      15      17
                *

430             KK     F45
431             KM   AREA I SUBBASIN F45
432             BA   0.061
433             PB       3
434             LS       0    86.3
435             UD  0.1762
                *
```

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

  436     KK    CP45
  437     KM   45-62
  438     HC      2
          *
  439     KK    DF45
  440     KM   DIVERSION FLOW TO BASIN 53
  441     DT   DFV45
  442     DI      0     180     368     830     950    1080    1350    1500
  443     DQ      0       0     150     425     490     560     700     780
          *
  444     KK    DF45
  445     KM   AREA I SUBBASIN FLOW DIVERTED AT BASIN 45 CULVERT
  446     BA   1.097
  447     DR   DFV45
          *
  448     KK RT45-46
  449     KM   ROUTE DIVERTED FLOW FROM BASIN 45 TO NEXT CULVERT
  450     RS     12    FLOW      -1
  451     RC  0.040   0.035   0.040    7000 0.01615
  452     RX      0     100     110     132     152     181     191     291
  453     RY     15      15      15      10      10      14      14      16
          *
  454     KK     N51
  455     KM   AREA I SUBBASIN N51
  456     BA   0.224
  457     PB     2.9
  458     LS       0    86.4
  459     UD  0.8409
          *
  460     KK  RT46-1
  461     KM   51TO46
  462     RS       3    FLOW      -1
  463     RC  0.040   0.035   0.040    1989 0.01615
  464     RX      0     100     110     132     159     181     191     291
  465     RY     14      12      12      10      10      12      12      14
          *
  466     KK     N46
  467     KM   AREA I SUBBASIN N46
  468     BA   0.043
  469     PB    2.86
  470     LS       0    87.7
  471     UD  0.4169
          *
```



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

  472     KK     N53
  473     KM   AREA I SUBBASIN N53
  474     BA   0.009
  475     PB    2.86
  476     LS       0    88.9
  477     UD  0.2901
          *
  478     KK    CP46
  479     KM   COMBINE DIVERTED 45 AND 51, 46, 53 AT BLUE DIAMOND
  480     HC       4
          *
  481     KK    DF46
  482     KM   DIVERSION OF FLOW TO SUBBASIN 38
  483     DT   DFV46
  484     DI      0     230     340     680     780     890    1140    1270
  485     DQ      0       0      70     300     360     425     560     630
          *
  486     KK  RT47-1
  487     KM   46&53TO47
  488     RS       4    FLOW      -1
  489     RC  0.040   0.035   0.040    2370 0.01970
  490     RX      0     100     110     127     149     166     176     276
  491     RY     14      12      12      10      10      12      12      14
          *
  492     KK     N60
  493     KM   AREA I SUBBASIN N60
  494     BA    0.07
  495     PB    2.86
  496     LS       0      87
  497     UD  0.4844
          *
  498     KK  RT47-1
  499     KM   60TO47
  500     RS       2    FLOW      -1
  501     RC  0.040   0.035   0.040    1028 0.01170
  502     RX      0     100     110     126     142     158     168     268
  503     RY     14      12      12      10      10      12      12      14
          *
  504     KK     N47
  505     KM   AREA I SUBBASIN N47
  506     BA   0.133
  507     PB    2.86
  508     LS       0    87.5
  509     UD  1.0255
          *
```



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

  510     KK    CP46
  511     KM   COMBINE 60,47,46
  512     HC       3
          *
  513     KK  RT43-1
  514     KM   47&60TO43
  515     RS       1    FLOW      -1
  516     RC  0.040   0.035   0.040     519 0.01350
  517     RX      0     100     110     125     140     155     165     265
  518     RY     13      11      11      10      10      11      11      13
          *
  519     KK    DF46
  520     KM   AREA I SUBBASIN FLOW DIVERTED AT BASIN 46 CULVERT
```

```
521          DR   DFV46
             *
522          KK RT46-38
523          KM   ROUTE DIVERTED FLOW FROM BASIN 46 TO NEXT CULVERT
524          RS       3    FLOW      -1
525          RC   0.040   0.035   0.040    2000 0.01615
526          RX       0     100     110     132     152     181     191     291
527          RY      15      15      15      10      10      14      14      16
             *
528          KK     N38
529          KM   AREA I SUBBASIN N38
530          BA   0.048
531          PB    2.86
532          LS       0    87.3
533          UD  0.3646
             *
534          KK    CP38
535          KM   DIVERTED FLOW FROM 46 TO 38
536          HC       2
             *
537          KK  RT43-1
538          KM   38TO43
539          RS       1    FLOW      -1
540          RC   0.040   0.035   0.040     725 0.02340
541          RX       0     100     110     146     182     218     228     328
542          RY      16      14      14      10      10      14      14      16
             *
543          KK     N43
544          KM   AREA I SUBBASIN N43
545          BA   0.017
546          PB    2.86
547          LS       0    87.8
548          UD  0.2349
             *
1                                        HEC-1 INPUT                                        PAGE 15

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

549          KK    CP43
550          KM   COMBINE 47,60,38,43
551          HC       3
             *
552          KK  RT41-1
553          KM   ROUTE43TO41
554          RS       0    FLOW      -1
555          RC   0.040   0.035   0.040     237 0.00420
556          RX       0     100     110     125     140     155     165     265
557          RY      15      13      13      10      10      13      13      15
             *
558          KK     N41
559          KM   AREA I SUBBASIN N41
560          BA   0.034
561          PB    2.86
562          LS       0    87.6
563          UD  0.5315
             *
564          KK CUPRR-1
565          KM   COMBINE CP43 + N41
566          HC       2
             *
567          KK   RTN-1
568          KM   ROUTE CUPRR-1 TO BASIN N OUTFALL
569          RS       1    FLOW      -1
570          RC   0.040   0.035   0.040     429 0.01860
571          RX       0     100     110     134     158     182     192     292
572          RY      14      12      12      10      10      12      12      14
             *
573          KK  BDB-D1
574          KM   DIVERT FLOWS INTO BASIN BDB BENEATH THE UPRR THROUGH (2) 36" CMP CULVERTS
575          DT  BDB-D1
576          DI       0     160     400     600     800    1000    1200    1400    1600    1800
577          DQ       0     160     180     184     186     188     190     191     193     194
             *
578          KK  BDB-D2
579          KM   DIVERT FLOWS INTO BASIN BDB OVER THE RAILROAD TRACKS
580          DT  BDB-D2
581          DI       0    1800
582          DQ       0     900
             *
583          KKRCUPRR-1
584          KM   ROUTE CUPRR-1 NORTHEAST TO THE 8'x 4' UPRR CULVERT JUST NORTH OF
585          KM   BLUE DIAMOND ROAD
586          RM       1    0.09    0.15
             *
1                                        HEC-1 INPUT                                        PAGE 16

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

587          KK    O23*
588          KM   AREA I SUBBASIN O23
589          BA   0.071
590          PB    2.85
591          LS       0    87.2
592          UD   0.407
             *
593          KK     P40
594          KM   AREA I SUBBASIN P40
595          BA    .038
596          PB    3.00
597          LS       0      87
598          UD   .3921
             *
599          KK  RT21-1
600          KM   40TO21
601          RS       4    FLOW      -1
602          RC   0.040   0.035   0.040    2240 0.02167
603          RX     0.0     100     110     150     191     231     241     341
604          RY    16.2    14.2    14.0    10.0    10.0    14.0    14.2    16.2
             *
605          KK     P21
606          KM   AREA I SUBBASIN P21
607          BA    .315
608          PB    2.98
```

```
609          LS       0    86.9
610          UD   .7341
             *

611          KK CP21-40
612          KM   COMBINE 21&40
613          HC       2
             *

614          KK  RT30-1
615          KM   21TO30
616          RS       9    FLOW      -1
617          RC   0.040   0.035   0.040    5647 0.01808
618          RX     0.0     100     110     150     190     230     240     340
619          RY    16.2    14.2    14.0    10.0    10.0    14.0    14.2    16.2
             *

620          KK     P20
621          KM   AREA I SUBBASIN P20
622          BA    .153
623          PB    2.91
624          LS       0    86.4
625          UD   .5815
             *
1                                        HEC-1 INPUT                                        PAGE 17

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

626          KK  RT24-1
627          KM   20 TO 24
628          RS       9    FLOW      -1
629          RC   0.040   0.035   0.040    5361 0.01890
630          RX     0.0     100     110     154     194     238     248     348
631          RY    16.2    14.2    14.0    10.0    10.0    14.0    14.2    16.2
             *

632          KK     P24
633          KM   AREA I SUBBASIN P24
634          BA    .155
635          PB    2.79
636          LS       0    86.3
637          UD   .4232
             *

638          KK     P30
639          KM   AREA I SUBBASIN P30
640          BA    .134
641          PB    2.86
642          LS       0    82.7
643          UD   .5693
             *

644          KK CP21-30
645          KM   COMBINE 21,30,20,24
646          HC       4
             *

647          KK  RT25-1
648          KM   24,30TO25
649          RS       6    FLOW      -1
650          RC   0.040   0.035   0.040    3843 0.01647
651          RX     0.0     100     110     140     170     200     210     310
652          RY    15.2    13.2    13.0    10.0    10.0    13.0    13.2    15.2
             *

653          KK     P25
654          KM   AREA I SUBBASIN P25
655          BA    .063
656          PB     2.8
657          LS       0    86.4
658          UD   .2811
             *

659          KK     P29
660          KM   AREA I SUBBASIN P29
661          BA    .085
662          PB    2.86
663          LS       0    86.7
664          UD    .585
             *
1                                        HEC-1 INPUT                                        PAGE 18

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

665          KK CP25-29
666          KM   COMBINE 25,29,30
667          HC       3
             *

668          KK  RT22-1
669          KM   25&29TO22
670          RS       3    FLOW      -1
671          RC   0.040   0.035   0.040    1857 0.01695
672          RX     0.0     100     110     160     210     260     270     370
673          RY    14.2    12.2    12.0    10.0    10.0    12.0    12.2    14.2
             *

674          KK     P17
675          KM   AREA I SUBBASIN P17
676          BA    .056
677          PB    2.86
678          LS       0    86.8
679          UD   .3676
             *

680          KK  RT18-1
681          KM   17 TO 18
682          RS       9    FLOW      -1
683          RC   0.040   0.035   0.040    5494 0.01860
684          RX     0.0     100     110     133     155     178     188     288
685          RY    13.2    11.2    11.0    10.0    10.0    11.0    11.2    13.2
             *

686          KK     P18
687          KM   AREA I SUBBASIN P18
688          BA    .158
689          PB    2.77
690          LS       0    86.3
691          UD   .5083
             *

692          KK CP18-17
693          KM   COMBINE 17,18
694          HC       2
             *

695          KK  RT22-1
696          KM   18TO19&22
```

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 697          RS       8    FLOW      -1
 698          RC   0.040   0.035   0.040    5081  0.0190
 699          RX     0.0     100     110     130     150     170     180     280
 700          RY    14.2    12.2    12.0    10.0    10.0    12.0    12.2    14.2
              *
1                                        HEC-1 INPUT                                        PAGE 19

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

 701          KK     P22
 702          KM   AREA I SUBBASIN P22
 703          BA    .023
 704          PB    2.79
 705          LS       0    87.4
 706          UD   .2403
              *

 707          KK     P19*
 708          KM   AREA I SUBBASIN P19
 709          BA    .094
 710          PB    2.77
 711          LS       0    86.1
 712          UD    .524
              *

 713          KK      CP
 714          KM   AREA I BASIN P OUTFALL
 715          HC       4
              *

 716          KK CUPRR-2
 717          KM   COMBINE CP + 023 + CUPRR-1 AT 8'X 4' RCB CULVERT BENEATH UPRR
 718          HC       3
              *

 719          KK  BDE-D1
 720          KM   DIVERT FLOWS INTO BASIN BDE BENEATH THE UPRR THROUGH THE 8'X 4' RCB CULVERT
 721          DT  BDE-D1
 722          DI       0     200     300     600     800    1000    1200    1400    1600    2000
 723          DQ       0     200     262     310     327     341     352     361     367     373
              *

 724          KKRCUPRR-2
 725          KM   ROUTE CUPRR-2 NORTHEAST TO THE (2) 36" CMP UPRR CULVERT
 726          RM       1    0.06    0.15
              *

 727          KK    Q15*
 728          KM   MODIFIED AREA I SUBBASIN Q15
 729          BA    .129
 730          PB    2.77
 731          LS       0      86
 732          UD    .550
              *

 733          KK      R8
 734          KM   AREA I SUBBASIN R8
 735          BA    .103
 736          PB    2.79
 737          LS       0    86.8
 738          UD   .6132
              *
1                                        HEC-1 INPUT                                        PAGE 20

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

 739          KK   RT7-1
 740          KM   8TO7
 741          RS       5    FLOW      -1
 742          RC   0.040   0.035   0.040    3218 0.02003
 743          RX     0.0     100     110     132     154     176     186     286
 744          RY    14.2    12.2    12.0    10.0    10.0    12.0    12.2    14.2
              *

 745          KK      R7
 746          KM   AREA I SUBBASIN R7
 747          BA    .041
 748          PB    2.77
 749          LS       0      87
 750          UD   .2438
              *

 751          KK     R13
 752          KM   AREA I SUBBASIN R13
 753          BA     .11
 754          PB    2.77
 755          LS       0    86.6
 756          UD    .548
              *

 757          KK  RT11-1
 758          KM   13TO11
 759          RS       6    FLOW      -1
 760          RC   0.040   0.035   0.040    3465 0.02140
 761          RX     0.0     100     110     149     188     227     237     337
 762          RY    15.2    13.2    13.0    10.0    10.0    13.0    13.2    15.2
              *

 763          KK     R11
 764          KM   AREA I SUBBASIN R11
 765          BA    .076
 766          PB    2.77
 767          LS       0      87
 768          UD   .3141
              *

 769          KK    CP11
 770          KM   COMBINE 8,7,11,13
 771          HC       4
              *

 772          KK   RT6-1
 773          KM   7411TO6
 774          RS       2    FLOW      -1
 775          RC   0.040   0.035   0.040    1188 0.01430
 776          RX     0.0     100     110     174     238     302     312     412
 777          RY    20.2    18.2    18.0    10.0    10.0    18.0    18.2    20.2
              *
                                         HEC-1 INPUT                                        PAGE 21

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

 778          KK      R6
 779          KM   AREA I SUBBASIN R6
 780          BA    .038
 781          PB    2.77
 782          LS       0      87
```

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783          UD   .3733
             *

784          KK     R14
785          KM   AREA I SUBBASIN R14
786          BA    .049
787          PB    2.77
788          LS       0    86.7
789          UD   .5438
             *

790          KK     CP6
791          KM   COMBINE 11,14,6
792          HC       3
             *

793          KK  RT10-1
794          KM   6&14TO10
795          RS       2    FLOW      -1
796          RC   0.040   0.035   0.040    1327 0.01730
797          RX     0.0     100     110     134     158     182     192     292
798          RY    16.2    14.2    14.0    10.0    10.0    14.0    14.2    16.2
             *

799          KK    R10*
800          KM   REVISED AREA I SUBBASIN R10
801          BA    .043
802          PB    2.77
803          LS       0      87
804          UD    .253
             *

805          KK      CR
806          KM   AREA I BASIN R OUTFALL
807          HC       2
             *

808          KK CUPRR-3
809          KM   COMBINE CUPRR-2 + Q15* + CR AT (2) 36" RCP CULVERT BENEATH UPRR
810          HC       3
             *

811          KK  BDG-D1
812          KM   DIVERT FLOWS INTO BASIN BDG BENEATH THE UPRR THROUGH (2) 36" RCP CULVERTS
813          DT  BDG-D1
814          DI       0     110     400     600     800    1000    1200    1400    1600    1800
815          DQ       0      86     113     122     128     133     136     138     140     141
             *

1                                        HEC-1 INPUT                                        PAGE 22

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

816          KKRCUPRR-3
817          KM   ROUTE REMAINING FLOWS FROM CUPRR-3 TO OUTLET OF BDI-1
818          RM       1     .08     .15
             *

819          KK    Ra5*
820          KM   REVISED AREA I SUBBASIN Ra5
821          BA    .024
822          PB    2.77
823          LS       0      87
824          UD   .3352
             *

825          KK   RRa5*
826          KM   ROUTE Ra* FLOWS TO OUTLET OF BDI-1
827          RM       1     .12     .15
             *

828          KK   BDI-1
829          KM   AREA II SUBBASIN BDI-1
830          BA    .023
831          PB    2.77
832          LS       0      88
833          UD    .190
             *

834          KK CUPRR-4
835          KM   COMBINE CUPRR-3 + Ra5+ BDI-1
836          HC       3
             *

837          KKRCUPRR-4
838          KM   ROUTE CUPRR-4 FLOWS TO OUTLET OF BDI-2
839          RM       1     .05     .15
             *

840          KK      S3
841          KM   AREA I SUBBASIN S3
842          BA    .078
843          PB    2.77
844          LS       0      87
845          UD   .5069
             *

846          KK     RS3
847          KM   ROUTE S3 TO BDI-2 OUTFALL
848          RM       1     .15     .15
             *

1                                        HEC-1 INPUT                                        PAGE 23

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

849          KK   BDI-2
850          KM   AREA II SUBBASIN BDI-2
851          BA    .036
852          PB    2.77
853          LS       0      76
854          UD    .253
             *

855          KK CUPRR-5
856          KM   COMBINE CUPRR-4 + S3 + BDI-2
857          HC       3
             *

858          KKRCUPRR-5
859          KM   ROUTE CUPRR-5 FLOWS TO OUTLET OF BDI-4
860          RM       1     .04     .15
             *

861          KK      T9
862          KM   AREA I SUBBASIN T9
863          BA    .203
864          PB    2.94
865          LS       0    86.3
866          UD   .6751
```

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                *
          867   KK     T12
          868   KM   AREA I SUBBASIN T12
          869   BA    .134
          870   PB    2.92
          871   LS       0    86.4
          872   UD   .6089
                *
          873   KK  CP9-12
          874   KM   COMBINE 9&12
          875   HC       2
                *
          876   KK   RT4-1
          877   KM   9&12TO4
          878   RS       9    FLOW      -1
          879   RC   0.040   0.035   0.040    5529 0.01826
          880   RX     0.0     100     110     146     182     218     228     328
          881   RY    15.2    13.2    13.0    10.0    10.0    13.0    13.2    15.2
                *
          882   KK      T4
          883   KM   AREA I SUBBASIN T4
          884   BA    .172
          885   PB    2.78
          886   LS       0    86.7
          887   UD   .5762
                *
1                                        HEC-1 INPUT                                        PAGE 24

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

          888   KK     CP4
          889   KM   COMBINE 9,12,4
          890   HC       2
                *
          891   KK RT120-1
          892   KM   4TO120
          893   RS      10    FLOW      -1
          894   RC   0.040   0.035   0.040    5844 0.01873
          895   RX     0.0     100     110     138     166     194     204     304
          896   RY    16.2    14.2    14.0    10.0    10.0    14.0    14.2    16.2
                *
          897   KK    T120
          898   KM   AREA I SUBBASIN T120
          899   BA    .101
          900   PB    2.77
          901   LS       0      87
          902   UD   .4535
                *
          903   KK      CT
          904   KM   BASIN T OUTFALL
          905   HC       2
                *
          906   KK      RT
          907   KM   ROUTE CT FLOWS TO OUTLET OF BDI-4
          908   RM       2     .13     .15
                *
          909   KK   BDI-3
          910   KM   AREA II SUBBASIN BDI-3
          911   BA    .030
          912   PB    2.77
          913   LS       0      63
          914   UD    .374
                *
          915   KK CUPRR-6
          916   KM   COMBINE CUPRR-5 + CT + BDI-3
          917   HC       3
                *
          918   KK     U59
          919   KM   AREA I BASIN U59
          920   BA    .073
          921   PB    2.77
          922   LS       0   65.93
          923   UD   .5329
                *
1                                        HEC-1 INPUT                                        PAGE 25

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

          924   KK    RU59
          925   KM   ROUTE U59 FLOWS TO OUTLET OF BDI-4
          926   RM       3     .37     .15
                *
          927   KK   BDI-4
          928   KM   AREA II SUBBASIN BDI-4
          929   BA    .054
          930   PB    2.77
          931   LS       0      63
          932   UD    .471
                *
          933   KK   BDI-5
          934   KM   AREA II SUBBASIN BDI-5
          935   BA    .031
          936   PB    2.77
          937   LS       0    78.2
          938   UD    .403
                *
          939   KK CUPRR-7
          940   KM   COMBINE CUPRR-6 + U59 + BDI-4 + BDI-5 AT 41'X 5' BRIDGE
          941   HC       4
                *
          942   KK  BDI-D1
          943   KM   DIVERT FLOWS INTO SUBBASIN BDI-16 BENEATH URPR THROUGH A 41'X 5' BRIDGE
          944   DT  BDI-D1
          945   DI       0     600    1200    1700    2400    3000    3600    4200    4800    5400
          946   DQ       0     600    1200    1700    1797    1857    1906    1947    1986    2022
                *
          947   ZZ
1
                SCHEMATIC DIAGRAM OF STREAM NETWORK

 INPUT
  LINE      (V) ROUTING           (---->) DIVERSION OR PUMP FLOW

   NO.      (.) CONNECTOR         (<----) RETURN OF DIVERTED OR PUMPED FLOW
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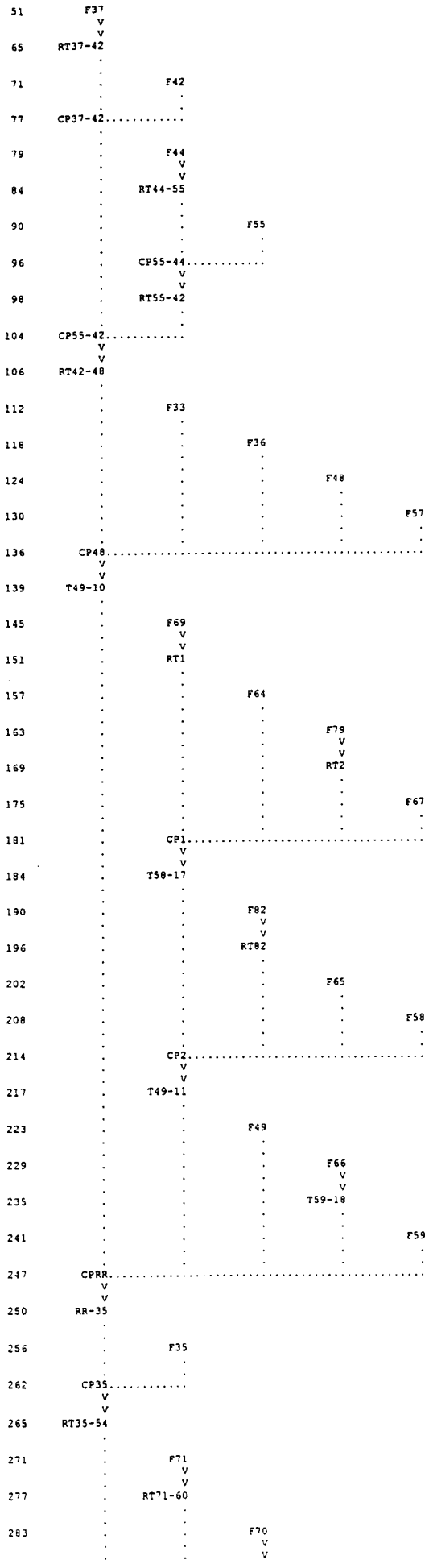
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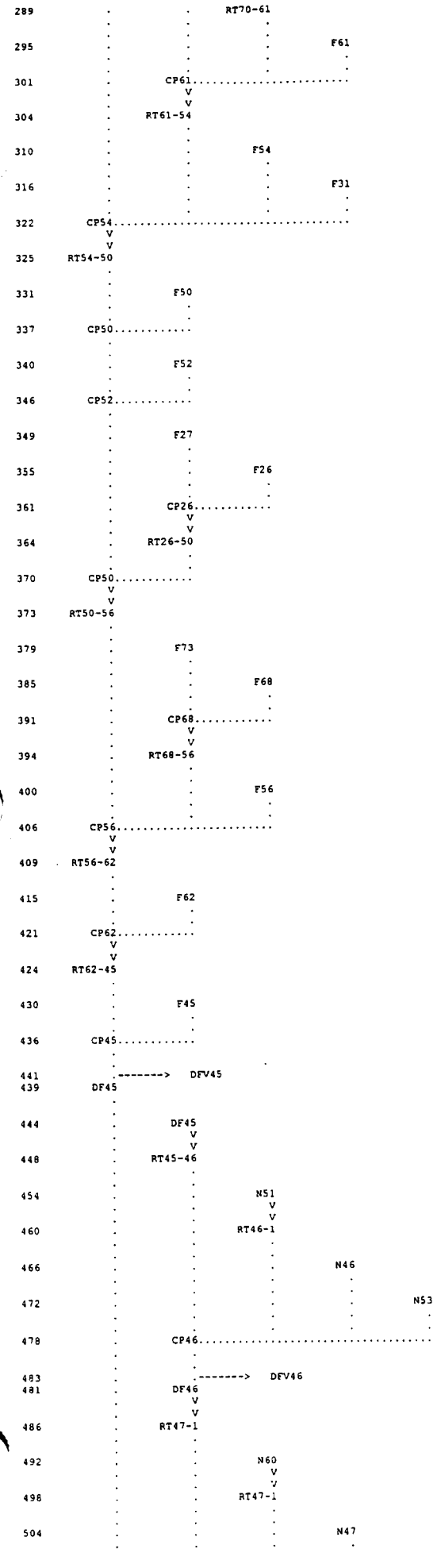
65 RT37-42
71 F42
77 CP37-42
79 F44
84 RT44-55
90 F55
96 CP55-44
98 RT55-42
104 CP55-42
106 RT42-48
112 F33
118 F36
124 F48
130 F57
136 CP48
139 T49-10
145 F69
151 RT1
157 F64
163 F79
169 RT2
175 F67
181 CP1
184 T58-17
190 F82
196 RT82
202 F65
208 F58
214 CP2
217 T49-11
223 F49
229 F66
235 T59-18
241 F59
247 CPRR
250 RR-35
256 F35
262 CP35
265 RT35-54
271 F71
277 RT71-60
283 F70


289
RT70-61
295
F61
301
CP61
304
RT61-54
310
F54
316
F31
322
CP54
325
RT54-50
331
F50
337
CP50
340
F52
346
CP52
349
F27
355
F26
361
CP26
364
RT26-50
370
CP50
373
RT50-56
379
F73
385
F68
391
CP68
394
RT68-56
400
F56
406
CP56
409
RT56-62
415
F62
421
CP62
424
RT62-45
430
F45
436
CP45
441
DFV45
439
DF45
444
DF45
448
RT45-46
454
N51
460
RT46-1
466
N46
472
N53
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CP46
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DFV46
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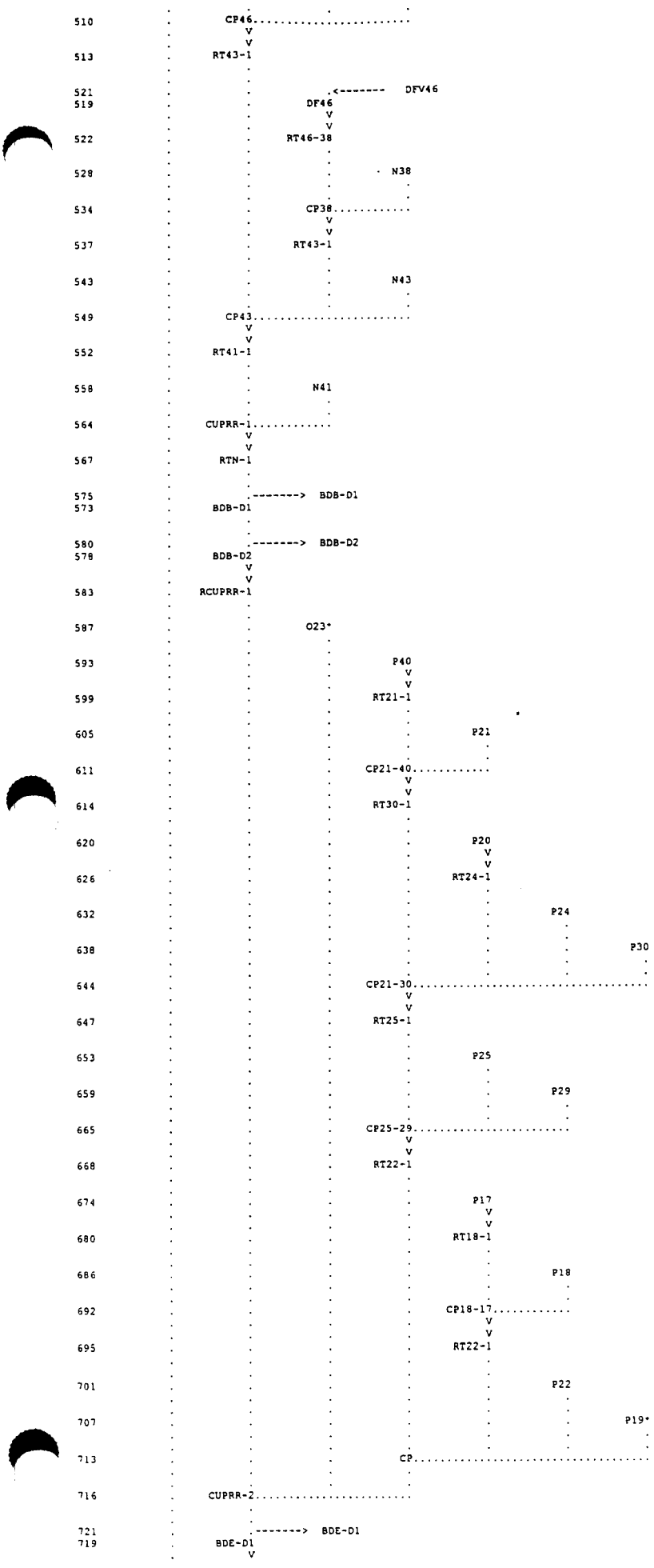
DF46
486
RT47-1
492
N60
498
RT47-1
504
N47


510 CP46
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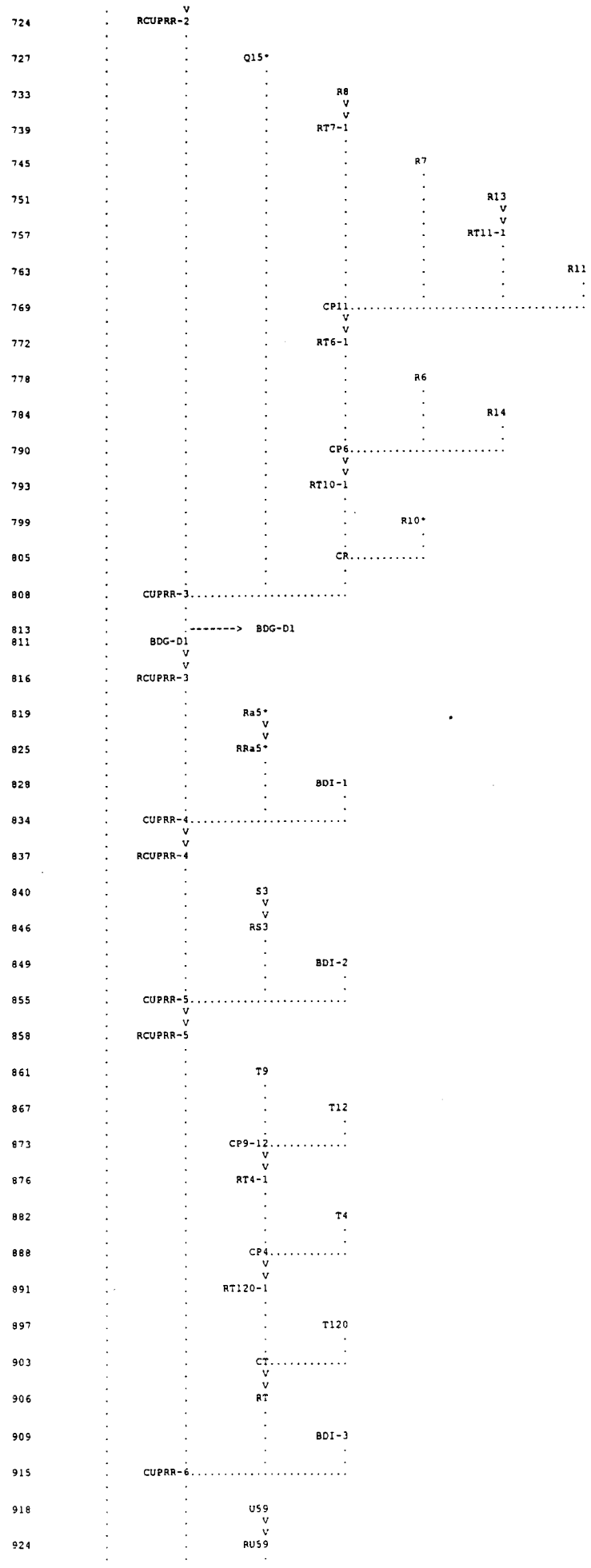
521 DFV46
519 DF46
522 RT46-38
528 N38
534 CP38
537 RT43-1
543 N43
549 CP43
552 RT41-1
558 N41
564 CUPRR-1
567 RTN-1
575 BDB-D1
573 BDB-D1
580 BDB-D2
578 BDB-D2
583 RCUPRR-1
587 O23*
593 P40
599 RT21-1
605 P21
611 CP21-40
614 RT30-1
620 P20
626 RT24-1
632 P24
638 P30
644 CP21-30
647 RT25-1
653 P25
659 P29
665 CP25-29
668 RT22-1
674 P17
680 RT18-1
686 P18
692 CP18-17
695 RT22-1
701 P22
707 P19*
713 CP
716 CUPRR-2
721 BDE-D1
719 BDE-D1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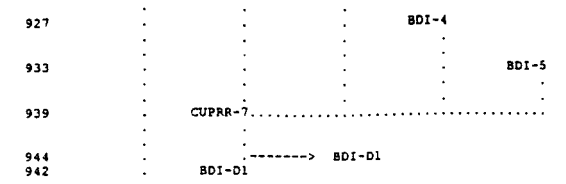
727 Q15*
733 R8
739 RT7-1
745 R7
751 R13
757 RT11-1
763 R11
769 CP11
772 RT6-1
778 R6
784 R14
790 CP6
793 RT10-1
799 R10*
805 CR
808 CUPRR-3
813 BDG-D1
811 BDG-D1
816 RCUPRR-3
819 Ra5*
825 RRa5*
828 BDI-1
834 CUPRR-4
837 RCUPRR-4
840 S3
846 RS3
849 BDI-2
855 CUPRR-5
858 RCUPRR-5
861 T9
867 T12
873 CP9-12
876 RT4-1
882 T4
888 CP4
891 RT120-1
897 T120
903 CT
906 RT
909 BDI-3
915 CUPRR-6
918 U59
924 RU59



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

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1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*            SEPTEMBER 1990             *
*             VERSION 4.0               *
*                                       *
*  RUN DATE  10/18/1995  TIME  08:21:08 *
*                                       *
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```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 756-1104              *
*                                       *
*****************************************
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file: uprr-1.dat

Performed by: Post, Buckley, Schuh & Jernigan, Inc.

****

Clark County Department of Public Works

SOUTHWEST LAS VEGAS DEVELOPMENT GUIDELINES
AREA II

- UNION PACIFIC RAILROAD CONVEYANCES NO. 1 -

EXISTING DRAINAGE CONDITIONS
100-YEAR PEAK FLOW RATES, 6-HOUR STORM (SDN3)

****

CONCENTRATION POINT I.D.	AREA (sq. mi.)	DARF
BDI-1	0.023	1.00
BDI-2	0.036	1.00
BDI-3	0.030	1.00
BDI-4	0.054	1.00
BDI-5	0.031	1.00
023*	0.071	1.00
CP	1.274	0.96
Q15*	0.129	0.99
CR	0.460	0.98
R45*	0.024	1.00
S3	0.078	1.00
CT	0.610	0.98
U59	0.073	1.00
CUPRR-1	1.675**	0.94
CUPRR-2	3.022**	0.92
CUPRR-3	3.611**	0.91
CUPRR-4	3.658**	0.91
CUPRR-5	3.772**	0.91
CUPRR-6	4.412**	0.91
CUPRR-7	4.570**	0.91

* REVISED AREA I BASIN/SUBBASIN
** PRORATED AREA ACCOUNTS FOR UPSTREAM DIVERSION(S)

4-MINUTE COMPUTATION INTERVAL

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

    IT          HYDROGRAPH TIME DATA
                      NMIN           4  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1    0  STARTING DATE
                     ITIME         0000  STARTING TIME
                        NQ          300  NUMBER OF HYDROGRAPH ORDINATES
                     NDDATE     1    0  ENDING DATE
                     NDTIME        1956  ENDING TIME
                     ICENT           19  CENTURY MARK

                  COMPUTATION INTERVAL      .07 HOURS
                      TOTAL TIME BASE   19.93 HOURS

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

    JP          MULTI-PLAN OPTION
                      NPLAN          1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                    RATIOS OF PRECIPITATION
                  1.00       .99       .98       .97       .96       .95       .94       .92       .91
1
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PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
TIME TO PEAK IN HOURS

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION RATIO 1 1.00	RATIO 2 .99	RATIO 3 .98	RATIO 4 .97	RATIO 5 .96	RATIO 6 .95	RATIO 7 .94	RATIO 8 .92	RATIO 9 .91
HYDROGRAPH AT													
+	F37	.09	1	FLOW	110.	108.	107.	105.	103.	102.	100.	97.	96.
				TIME	3.67	3.67	3.67	3.73	3.73	3.73	3.73	3.73	3.73
ROUTED TO													
+	RT37-42	.09	1	FLOW	108.	107.	105.	103.	102.	100.	99.	95.	94.
				TIME	3.73	3.73	3.73	3.80	3.80	3.80	3.80	3.80	3.80
			** PEAK STAGES IN FEET **										
			1	STAGE	10.87	10.86	10.86	10.85	10.84	10.84	10.83	10.81	10.81
				TIME	3.73	3.73	3.73	3.80	3.80	3.80	3.80	3.80	3.80

HYDROGRAPH AT														
+	F42	.02	1	FLOW	31.	31.	30.	30.	29.	29.	28.	27.	27.
				TIME	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
2 COMBINED AT														
+	CP37-42	.11	1	FLOW	131.	129.	127.	125.	123.	121.	119.	116.	114.
				TIME	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
HYDROGRAPH AT														
+	F44	.40	1	FLOW	337.	332.	327.	322.	317.	312.	308.	298.	293.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
ROUTED TO														
+	RT44-55	.40	1	FLOW	336.	331.	326.	321.	317.	312.	307.	297.	292.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
			** PEAK STAGES IN FEET **										
			1	STAGE	11.48	11.47	11.45	11.44	11.43	11.42	11.41	11.39	11.37
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
HYDROGRAPH AT														
+	F55	.02	1	FLOW	31.	31.	30.	30.	29.	29.	28.	28.	27.
				TIME	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53
2 COMBINED AT														
+	CP55-44	.42	1	FLOW	341.	336.	331.	326.	321.	316.	311.	301.	296.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
ROUTED TO														
+	RT55-42	.42	1	FLOW	339.	334.	329.	324.	320.	315.	310.	300.	295.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.13	4.13
			** PEAK STAGES IN FEET **										
			1	STAGE	11.33	11.33	11.32	11.31	11.30	11.29	11.28	11.26	11.25
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.13	4.13
2 COMBINED AT														
+	CP55-42	.53	1	FLOW	413.	407.	401.	395.	389.	383.	377.	365.	359.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
ROUTED TO														
+	RT42-48	.53	1	FLOW	411.	405.	399.	393.	387.	381.	375.	363.	357.
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
			** PEAK STAGES IN FEET **										
			1	STAGE	11.50	11.49	11.48	11.46	11.45	11.44	11.43	11.41	11.39
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT														
+	F33	.06	1	FLOW	60.	59.	58.	58.	57.	56.	55.	53.	52.
				TIME	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
HYDROGRAPH AT														
+	F36	.06	1	FLOW	70.	69.	68.	67.	66.	65.	64.	62.	61.
				TIME	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
HYDROGRAPH AT														
+	F48	.06	1	FLOW	99.	98.	96.	95.	93.	92.	91.	88.	86.
				TIME	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53	3.53
HYDROGRAPH AT														
+	F57	.04	1	FLOW	42.	42.	41.	41.	40.	39.	39.	38.	37.
				TIME	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
5 COMBINED AT														
+	CP48	.74	1	FLOW	540.	532.	524.	516.	509.	501.	493.	477.	470.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
ROUTED TO														
+	T49-10	.74	1	FLOW	540.	532.	524.	516.	508.	500.	492.	476.	468.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
			** PEAK STAGES IN FEET **										
			1	STAGE	11.95	11.94	11.92	11.91	11.89	11.87	11.86	11.83	11.81
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
HYDROGRAPH AT														
+	F69	.01	1	FLOW	17.	17.	17.	17.	16.	16.	16.	15.	15.
				TIME	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47
ROUTED TO														
+	RT1	.01	1	FLOW	11.	10.	10.	10.	10.	10.	10.	9.	9.
				TIME	3.87	3.87	3.87	3.87	3.93	3.93	3.93	3.93	3.93
			** PEAK STAGES IN FEET **										
			1	STAGE	10.16	10.15	10.15	10.15	10.15	10.14	10.14	10.14	10.14
				TIME	3.87	3.87	3.87	3.87	3.93	3.93	3.93	3.93	3.93
HYDROGRAPH AT														
+	F64	.04	1	FLOW	50.	49.	48.	48.	47.	46.	45.	44.	43.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT														
+	F79	.01	1	FLOW	16.	16.	16.	16.	15.	15.	15.	14.	14.
				TIME	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47
ROUTED TO														
+	RT2	.01	1	FLOW	12.	12.	12.	12.	12.	11.	11.	11.	11.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
			** PEAK STAGES IN FEET **										
			1	STAGE	10.19	10.19	10.19	10.18	10.18	10.18	10.18	10.17	10.17
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT														
+	F67	.04	1	FLOW	55.	54.	53.	52.	51.	51.	50.	48.	48.
				TIME	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
4 COMBINED AT														
+	CP1	.09	1	FLOW	120.	118.	116.	115.	113.	111.	109.	106.	104.
				TIME	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
ROUTED TO														
+	T58-17	.09	1	FLOW	117.	115.	113.	112.	110.	108.	106.	103.	101.
				TIME	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
			** PEAK STAGES IN FEET **										
			1	STAGE	10.79	10.79	10.78	10.77	10.77	10.76	10.76	10.74	10.74
				TIME	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
HYDROGRAPH AT														
+	F82	.10	1	FLOW	139.	137.	135.	133.	131.	129.	127.	123.	121.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO														
+	RT82	.10	1	FLOW	127.	125.	123.	122.	120.	118.	116.	113.	111.
				TIME	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
			** PEAK STAGES IN FEET **										
			1	STAGE	10.61	10.60	10.60	10.59	10.59	10.58	10.58	10.56	10.56

				TIME	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
HYDROGRAPH AT													
+	F65	.08	1	FLOW	97.	95.	94.	92.	91.	89.	88.	85.	84.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT													
+	F58	.07	1	FLOW	70.	69.	68.	67.	66.	65.	64.	62.	61.
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
4 COMBINED AT													
+	CP2	.34	1	FLOW	379.	373.	368.	362.	357.	351.	346.	334.	329.
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
ROUTED TO													
+	T49-11	.34	1	FLOW	375.	369.	364.	358.	352.	347.	341.	331.	325.
				TIME	3.80	3.80	3.80	3.80	3.80	3.87	3.87	3.87	3.87
			**	PEAK STAGES IN FEET **									
			1	STAGE	11.52	11.51	11.50	11.49	11.47	11.46	11.45	11.43	11.42
				TIME	3.80	3.80	3.80	3.80	3.80	3.87	3.87	3.87	3.87
HYDROGRAPH AT													
+	F49	.03	1	FLOW	44.	44.	43.	42.	42.	41.	40.	39.	38.
				TIME	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
HYDROGRAPH AT													
+	F66	.08	1	FLOW	72.	71.	70.	69.	68.	67.	66.	64.	63.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
ROUTED TO													
+	T59-18	.08	1	FLOW	71.	70.	69.	68.	67.	66.	65.	63.	62.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
			**	PEAK STAGES IN FEET **									
			1	STAGE	10.40	10.40	10.40	10.39	10.39	10.39	10.38	10.38	10.37
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
HYDROGRAPH AT													
+	F59	.02	1	FLOW	33.	32.	32.	31.	31.	30.	30.	29.	28.
				TIME	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
5 COMBINED AT													
+	CPRR	1.22	1	FLOW	1003.	987.	972.	956.	941.	925.	910.	880.	864.
				TIME	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
ROUTED TO													
+	RR-35	1.22	1	FLOW	996.	981.	965.	950.	935.	920.	905.	876.	861.
				TIME	3.93	3.93	3.93	4.00	4.00	4.00	4.00	4.00	4.00
			**	PEAK STAGES IN FEET **									
			1	STAGE	12.92	12.90	12.87	12.85	12.82	12.80	12.78	12.73	12.71
				TIME	3.93	3.93	3.93	4.00	4.00	4.00	4.00	4.00	4.00
HYDROGRAPH AT													
+	F35	.14	1	FLOW	123.	121.	119.	117.	116.	114.	112.	109.	107.
				TIME	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
2 COMBINED AT													
+	CP35	1.36	1	FLOW	1119.	1102.	1085.	1068.	1051.	1033.	1017.	983.	966.
				TIME	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
ROUTED TO													
+	RT35-54	1.36	1	FLOW	1120.	1103.	1086.	1069.	1052.	1035.	1018.	985.	968.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
			**	PEAK STAGES IN FEET **									
			1	STAGE	13.46	13.43	13.40	13.37	13.34	13.31	13.28	13.22	13.18
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
HYDROGRAPH AT													
+	F71	.02	1	FLOW	20.	20.	19.	19.	19.	18.	18.	18.	17.
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
ROUTED TO													
+	RT71-60	.02	1	FLOW	20.	20.	19.	19.	19.	18.	18.	18.	17.
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
			**	PEAK STAGES IN FEET **									
			1	STAGE	10.69	10.69	10.68	10.68	10.67	10.67	10.66	10.65	10.65
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
HYDROGRAPH AT													
+	F70	.04	1	FLOW	40.	39.	39.	38.	38.	37.	36.	35.	35.
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
ROUTED TO													
+	RT70-61	.04	1	FLOW	39.	38.	38.	37.	37.	36.	36.	35.	34.
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
			**	PEAK STAGES IN FEET **									
			1	STAGE	11.02	11.01	11.01	11.00	11.00	10.99	10.99	10.98	10.98
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
HYDROGRAPH AT													
+	F61	.03	1	FLOW	48.	47.	47.	46.	45.	45.	44.	43.	42.
				TIME	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47
3 COMBINED AT													
+	CP61	.08	1	FLOW	72.	71.	70.	69.	68.	67.	66.	64.	63.
				TIME	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
ROUTED TO													
+	RT61-54	.08	1	FLOW	70.	69.	68.	67.	66.	65.	64.	63.	62.
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
			**	PEAK STAGES IN FEET **									
			1	STAGE	10.60	10.59	10.59	10.58	10.58	10.58	10.57	10.56	10.56
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
HYDROGRAPH AT													
+	F54	.03	1	FLOW	34.	33.	33.	32.	32.	31.	31.	30.	29.
				TIME	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
HYDROGRAPH AT													
+	F31	.13	1	FLOW	100.	99.	97.	96.	94.	93.	92.	89.	87.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
4 COMBINED AT													
+	CP54	1.60	1	FLOW	1294.	1275.	1256.	1236.	1217.	1197.	1178.	1140.	1121.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
ROUTED TO													
	RT54-50	1.60	1	FLOW	1294.	1274.	1255.	1235.	1215.	1196.	1177.	1138.	1119.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
			**	PEAK STAGES IN FEET **									
			1	STAGE	12.12	12.10	12.08	12.05	12.03	12.01	11.99	11.95	11.93
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00

HYDROGRAPH AT													
+	F50	.01	1	FLOW	16.	15.	15.	15.	15.	15.	14.	14.	14.
				TIME	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
2 COMBINED AT													
+	CP50	1.61	1	FLOW	1298.	1279.	1259.	1239.	1220.	1200.	1181.	1142.	1123.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
HYDROGRAPH AT													
+	F52	.03	1	FLOW	31.	30.	30.	29.	29.	28.	28.	27.	27.
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
2 COMBINED AT													
	CP52	1.64	1	FLOW	1323.	1303.	1283.	1263.	1243.	1223.	1203.	1164.	1144.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
HYDROGRAPH AT													
+	F27	.12	1	FLOW	103.	102.	100.	99.	97.	96.	94.	91.	90.
				TIME	3.87	3.87	3.87	3.87	3.87	3.87	3.93	3.93	3.93
HYDROGRAPH AT													
+	F26	.05	1	FLOW	47.	46.	45.	45.	44.	43.	43.	41.	41.
				TIME	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
2 COMBINED AT													
+	CP26	.17	1	FLOW	150.	148.	146.	144.	141.	139.	137.	133.	130.
				TIME	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
ROUTED TO													
+	RT26-50	.17	1	FLOW	150.	148.	146.	143.	141.	139.	137.	133.	130.
				TIME	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
			** PEAK STAGES IN FEET **										
			1	STAGE	10.82	10.81	10.80	10.80	10.79	10.78	10.77	10.76	10.75
				TIME	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
2 COMBINED AT													
+	CP50	1.81	1	FLOW	1469.	1447.	1425.	1402.	1380.	1358.	1337.	1293.	1271.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
ROUTED TO													
+	RT50-56	1.81	1	FLOW	1452.	1430.	1409.	1387.	1365.	1344.	1322.	1279.	1258.
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
			** PEAK STAGES IN FEET **										
			1	STAGE	12.92	12.90	12.88	12.86	12.84	12.83	12.81	12.77	12.76
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT													
+	F73	.08	1	FLOW	74.	73.	72.	71.	70.	69.	68.	65.	64.
				TIME	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
HYDROGRAPH AT													
+	F68	.03	1	FLOW	22.	22.	22.	21.	21.	21.	20.	20.	19.
				TIME	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
2 COMBINED AT													
+	CP68	.11	1	FLOW	96.	95.	93.	92.	91.	89.	88.	85.	84.
				TIME	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
ROUTED TO													
+	RT68-56	.11	1	FLOW	94.	93.	92.	90.	89.	88.	86.	83.	82.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
			** PEAK STAGES IN FEET **										
			1	STAGE	10.61	10.60	10.60	10.59	10.59	10.58	10.58	10.57	10.56
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
HYDROGRAPH AT													
+	F56	.10	1	FLOW	82.	81.	80.	79.	77.	76.	75.	73.	72.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
3 COMBINED AT													
+	CP56	2.02	1	FLOW	1625.	1600.	1575.	1550.	1526.	1502.	1478.	1430.	1406.
				TIME	4.07	4.07	4.07	4.13	4.13	4.13	4.13	4.13	4.13
ROUTED TO													
+	RT56-62	2.02	1	FLOW	1625.	1600.	1575.	1551.	1526.	1502.	1477.	1428.	1403.
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
			** PEAK STAGES IN FEET **										
			1	STAGE	13.16	13.14	13.12	13.10	13.09	13.07	13.05	13.01	13.00
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT													
+	F62	.03	1	FLOW	42.	41.	41.	40.	40.	39.	38.	37.	37.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT													
+	CP62	2.05	1	FLOW	1636.	1612.	1587.	1562.	1537.	1513.	1488.	1439.	1414.
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
ROUTED TO													
+	RT62-45	2.05	1	FLOW	1630.	1605.	1580.	1555.	1531.	1506.	1481.	1432.	1407.
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.20	4.20
			** PEAK STAGES IN FEET **										
			1	STAGE	13.94	13.91	13.88	13.85	13.82	13.79	13.76	13.70	13.67
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.20	4.20
HYDROGRAPH AT													
+	F45	.06	1	FLOW	81.	80.	79.	78.	77.	75.	74.	72.	71.
				TIME	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
2 COMBINED AT													
+	CP45	2.11	1	FLOW	1649.	1623.	1598.	1573.	1548.	1523.	1497.	1445.	1420.
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.20
DIVERSION TO													
+	DFV45	2.11	1	FLOW	859.	846.	832.	819.	806.	792.	779.	751.	737.
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.20
HYDROGRAPH AT													
+	DF45	2.11	1	FLOW	789.	778.	766.	754.	742.	731.	719.	694.	683.
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.20
HYDROGRAPH AT													
+	DF45	.00	1	FLOW	859.	846.	832.	819.	806.	792.	779.	751.	737.
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.20
ROUTED TO													
	RT45-46	.00	1	FLOW	854.	841.	828.	814.	801.	788.	775.	748.	735.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
			** PEAK STAGES IN FEET **										
			1	STAGE	12.81	12.79	12.76	12.74	12.72	12.69	12.67	12.63	12.60
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
HYDROGRAPH AT													
+	N51	.22	1	FLOW	127.	125.	123.	121.	120.	118.	116.	112.	110.

				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
ROUTED TO														
+	RT46-1	.22	1	FLOW	127.	125.	123.	121.	119.	117.	115.	111.	110.
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
			** PEAK STAGES IN FEET **										
			1	STAGE	10.84	10.83	10.83	10.82	10.81	10.80	10.80	10.78	10.77
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
HYDROGRAPH AT														
+	N46	.04	1	FLOW	39.	39.	38.	37.	37.	36.	36.	35.	34.
				TIME	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
HYDROGRAPH AT														
+	N53	.01	1	FLOW	10.	10.	10.	10.	10.	10.	9.	9.	9.
				TIME	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
4 COMBINED AT														
+	CP46	.28	1	FLOW	1000.	985.	969.	954.	939.	924.	908.	877.	861.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
DIVERSION TO														
+	DFV46	.28	1	FLOW	484.	476.	468.	460.	451.	443.	435.	417.	408.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
HYDROGRAPH AT														
+	DF46	.28	1	FLOW	516.	509.	502.	495.	487.	480.	473.	460.	453.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
ROUTED TO														
+	RT47-1	.28	1	FLOW	514.	507.	500.	493.	486.	479.	471.	458.	452.
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
			** PEAK STAGES IN FEET **										
			1	STAGE	11.88	11.87	11.85	11.84	11.83	11.81	11.80	11.77	11.76
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
HYDROGRAPH AT														
+	N60	.07	1	FLOW	57.	56.	55.	54.	54.	53.	52.	50.	49.
				TIME	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
ROUTED TO														
+	RT47-1	.07	1	FLOW	56.	56.	55.	54.	53.	52.	51.	50.	49.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
			** PEAK STAGES IN FEET **										
			1	STAGE	10.77	10.76	10.75	10.75	10.74	10.74	10.73	10.72	10.71
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
HYDROGRAPH AT														
+	N47	.13	1	FLOW	67.	66.	65.	65.	64.	63.	62.	60.	59.
				TIME	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.53
3 COMBINED AT														
+	CP46	.48	1	FLOW	615.	607.	598.	590.	581.	572.	564.	548.	540.
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
ROUTED TO														
+	RT43-1	.48	1	FLOW	614.	606.	597.	588.	580.	571.	562.	546.	538.
				TIME	4.40	4.40*	4.40	4.40	4.40	4.40	4.40	4.40	4.40
			** PEAK STAGES IN FEET **										
			1	STAGE	11.87	11.86	11.85	11.84	11.83	11.82	11.81	11.79	11.78
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
HYDROGRAPH AT														
+	DF46	.00	1	FLOW	484.	476.	468.	460.	451.	443.	435.	417.	408.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
ROUTED TO														
+	RT46-38	.00	1	FLOW	482.	474.	466.	458.	449.	441.	433.	416.	406.
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
			** PEAK STAGES IN FEET **										
			1	STAGE	12.10	12.08	12.06	12.04	12.02	12.00	11.98	11.94	11.92
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
HYDROGRAPH AT														
+	N38	.05	1	FLOW	46.	45.	45.	44.	43.	43.	42.	41.	40.
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
2 COMBINED AT														
+	CP38	.05	1	FLOW	497.	489.	480.	472.	463.	455.	447.	429.	419.
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
ROUTED TO														
+	RT43-1	.05	1	FLOW	497.	489.	480.	472.	464.	455.	447.	428.	418.
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
			** PEAK STAGES IN FEET **										
			1	STAGE	11.43	11.41	11.40	11.39	11.37	11.36	11.35	11.32	11.30
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
HYDROGRAPH AT														
+	N43	.02	1	FLOW	20.	20.	20.	19.	19.	19.	19.	18.	18.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
3 COMBINED AT														
+	CP43	.54	1	FLOW	1115.	1098.	1080.	1063.	1046.	1029.	1012.	977.	959.
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
ROUTED TO														
+	RT41-1	.54	1	FLOW	1113.	1096.	1079.	1062.	1044.	1027.	1009.	974.	957.
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.47	4.47
			** PEAK STAGES IN FEET **										
			1	STAGE	14.29	14.27	14.25	14.23	14.21	14.19	14.16	14.12	14.09
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.47	4.47
HYDROGRAPH AT														
+	N41	.03	1	FLOW	27.	26.	26.	26.	25.	25.	24.	24.	23.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
2 COMBINED AT														
+	CUPRR-1	.58	1	FLOW	1129.	1112.	1095.	1077.	1060.	1042.	1024.	988.	970.
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.47
ROUTED TO														
+	RTN-1	.58	1	FLOW	1127.	1110.	1092.	1074.	1057.	1040.	1023.	989.	972.
				TIME	4.40	4.40	4.40	4.40	4.47	4.47	4.47	4.47	4.47
			** PEAK STAGES IN FEET **										
			1	STAGE	12.44	12.42	12.41	12.39	12.38	12.36	12.35	12.32	12.31
				TIME	4.40	4.40	4.40	4.40	4.47	4.47	4.47	4.47	4.47
DIVERSION TO														
+	BDB-D1	.58	1	FLOW	189.	189.	189.	189.	189.	188.	188.	188.	188.
				TIME	4.40	4.40	4.40	4.40	4.47	4.47	4.47	4.47	4.47

HYDROGRAPH AT													
+	BDB-D1	.58	1	FLOW	938.	921.	903.	886.	868.	852.	835.	802.	784.
				TIME	4.40	4.40	4.40	4.40	4.47	4.47	4.47	4.47	4.47
DIVERSION TO													
+	BDB-D2	.58	1	FLOW	469.	460.	452.	443.	434.	426.	417.	401.	392.
				TIME	4.40	4.40	4.40	4.40	4.47	4.47	4.47	4.47	4.47
HYDROGRAPH AT													
+	BDB-D2	.58	1	FLOW	469.	460.	452.	443.	434.	426.	417.	401.	392.
				TIME	4.40	4.40	4.40	4.40	4.47	4.47	4.47	4.47	4.47
ROUTED TO													
	RCUPRR-1	.58	1	FLOW	460.	451.	443.	434.	426.	417.	409.	391.	383.
				TIME	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.53
HYDROGRAPH AT													
+	O23*	.07	1	FLOW	64.	63.	62.	61.	60.	59.	58.	56.	55.
				TIME	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
HYDROGRAPH AT													
+	P40	.04	1	FLOW	37.	37.	36.	35.	35.	34.	34.	33.	32.
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
ROUTED TO													
+	RT21-1	.04	1	FLOW	35.	34.	34.	33.	33.	32.	32.	31.	30.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
			** PEAK STAGES IN FEET **										
			1	STAGE	10.28	10.27	10.27	10.27	10.26	10.26	10.25	10.25	10.24
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
HYDROGRAPH AT													
+	P21	.31	1	FLOW	209.	206.	203.	200.	197.	194.	191.	184.	181.
				TIME	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
2 COMBINED AT													
+	CP21-40	.35	1	FLOW	241.	238.	234.	231.	227.	224.	220.	213.	209.
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
ROUTED TO													
+	RT30-1	.35	1	FLOW	238.	235.	231.	228.	224.	221.	217.	210.	207.
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
			** PEAK STAGES IN FEET **										
			1	STAGE	10.96	10.95	10.95	10.94	10.93	10.92	10.91	10.89	10.88
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
HYDROGRAPH AT													
+	P20	.15	1	FLOW	111.	110.	108.	106.	105.	103.	101.	98.	96.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
ROUTED TO													
+	RT24-1	.15	1	FLOW	108.	107.	105.	103.	102.	100.	99.	95.	94.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
			** PEAK STAGES IN FEET **										
			1	STAGE	10.60	10.59	10.58	10.58	10.57	10.57	10.56	10.55	10.54
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
HYDROGRAPH AT													
+	P24	.16	1	FLOW	127.	125.	123.	121.	119.	117.	115.	112.	110.
				TIME	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
HYDROGRAPH AT													
+	P30	.13	1	FLOW	81.	80.	78.	77.	76.	74.	73.	70.	69.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
4 COMBINED AT													
+	CP21-30	.79	1	FLOW	475.	468.	461.	454.	447.	439.	432.	418.	411.
				TIME	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27
ROUTED TO													
+	RT25-1	.79	1	FLOW	472.	465.	458.	451.	444.	437.	430.	416.	409.
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
			** PEAK STAGES IN FEET **										
			1	STAGE	11.64	11.63	11.61	11.60	11.58	11.57	11.56	11.53	11.52
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
HYDROGRAPH AT													
+	P25	.06	1	FLOW	64.	63.	62.	61.	60.	59.	58.	56.	55.
				TIME	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
HYDROGRAPH AT													
+	P29	.09	1	FLOW	61.	60.	59.	58.	57.	56.	55.	54.	53.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
3 COMBINED AT													
+	CP25-29	.94	1	FLOW	535.	527.	519.	511.	503.	495.	487.	471.	463.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
ROUTED TO													
+	RT22-1	.94	1	FLOW	533.	525.	517.	509.	501.	493.	485.	469.	460.
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
			** PEAK STAGES IN FEET **										
			1	STAGE	11.25	11.24	11.23	11.22	11.21	11.20	11.19	11.17	11.16
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
HYDROGRAPH AT													
+	P17	.06	1	FLOW	52.	52.	51.	50.	49.	49.	48.	46.	45.
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
ROUTED TO													
+	RT18-1	.06	1	FLOW	47.	47.	46.	45.	44.	44.	43.	42.	41.
				TIME	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
			** PEAK STAGES IN FEET **										
			1	STAGE	10.48	10.48	10.47	10.47	10.46	10.46	10.45	10.45	10.44
				TIME	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
HYDROGRAPH AT													
+	P18	.16	1	FLOW	115.	113.	112.	110.	108.	106.	105.	101.	99.
				TIME	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
2 COMBINED AT													
+	CP18-17	.21	1	FLOW	151.	149.	147.	144.	142.	139.	137.	132.	129.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
ROUTED TO													
+	RT22-1	.21	1	FLOW	148.	145.	143.	140.	138.	135.	133.	128.	126.
				TIME	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.33	4.33
			** PEAK STAGES IN FEET **										
			1	STAGE	11.00	10.99	10.99	10.98	10.97	10.96	10.95	10.93	10.92
				TIME	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.33	4.33
HYDROGRAPH AT													
+	P22	.02	1	FLOW	26.	25.	25.	25.	24.	24.	24.	23.	22.

				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT														
+	P19*	.09	1	FLOW	67.	66.	65.	64.	63.	62.	61.	59.	58.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
4 COMBINED AT														
+	CP	1.27	1	FLOW	724.	712.	701.	689.	678.	666.	654.	632.	621.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.40	4.40
3 COMBINED AT														
+	CUPRR-2	1.92	1	FLOW	1176.	1156.	1137.	1117.	1098.	1078.	1059.	1020.	1000.
				TIME	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47
DIVERSION TO														
+	BDE-D1	1.92	1	FLOW	351.	350.	349.	347.	346.	345.	344.	342.	341.
				TIME	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47
HYDROGRAPH AT														
+	BDE-D1	1.92	1	FLOW	825.	807.	788.	770.	751.	733.	714.	677.	659.
				TIME	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47
ROUTED TO														
+	RCUPRR-2	1.92	1	FLOW	817.	799.	781.	762.	744.	726.	708.	671.	653.
				TIME	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.53
HYDROGRAPH AT														
+	Q15*	.13	1	FLOW	89.	87.	86.	85.	83.	82.	81.	78.	76.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
HYDROGRAPH AT														
+	R8	.10	1	FLOW	69.	68.	67.	66.	65.	64.	63.	61.	60.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
ROUTED TO														
+	RT7-1	.10	1	FLOW	68.	67.	66.	65.	64.	63.	62.	60.	59.
				TIME	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27
				** PEAK STAGES IN FEET **									
			1	STAGE	10.62	10.61	10.60	10.60	10.59	10.59	10.58	10.57	10.56
				TIME	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27	4.27
HYDROGRAPH AT														
+	R7	.04	1	FLOW	44.	44.	43.	42.	42.	41.	41.	39.	39.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT														
+	R13	.11	1	FLOW	78.	77.	76.	74.	73.	72.	71.	68.	67.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
ROUTED TO														
+	RT11-1	.11	1	FLOW	76.	75.	74.	73.	72.	70.	69.	67.	66.
				TIME	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
				** PEAK STAGES IN FEET **									
			1	STAGE	10.47	10.46	10.46	10.45	10.45	10.44	10.44	10.43	10.43
				TIME	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
HYDROGRAPH AT														
+	R11	.08	1	FLOW	74.	73.	71.	70.	69.	68.	67.	65.	64.
				TIME	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
4 COMBINED AT														
+	CP11	.33	1	FLOW	194.	191.	188.	185.	182.	180.	177.	171.	168.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
ROUTED TO														
	RT6-1	.33	1	FLOW	194.	191.	188.	185.	182.	179.	176.	171.	168.
				TIME	4.07	4.07	4.07	4.13	4.13	4.13	4.13	4.13	4.13
				** PEAK STAGES IN FEET **									
			1	STAGE	10.69	10.68	10.68	10.67	10.66	10.66	10.65	10.64	10.64
				TIME	4.07	4.07	4.07	4.13	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT														
+	R6	.04	1	FLOW	34.	33.	33.	32.	32.	31.	31.	30.	29.
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
HYDROGRAPH AT														
+	R14	.05	1	FLOW	35.	34.	34.	33.	33.	32.	32.	31.	30.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
3 COMBINED AT														
+	CP6	.42	1	FLOW	253.	249.	245.	241.	237.	233.	230.	221.	217.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
ROUTED TO														
+	RT10-1	.42	1	FLOW	253.	249.	244.	240.	236.	232.	228.	220.	217.
				TIME	4.07	4.07	4.07	4.13	4.13	4.13	4.13	4.13	4.13
				** PEAK STAGES IN FEET **									
			1	STAGE	11.34	11.33	11.32	11.31	11.29	11.28	11.27	11.24	11.23
				TIME	4.07	4.07	4.07	4.13	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT														
+	R10*	.04	1	FLOW	46.	45.	44.	44.	43.	42.	42.	40.	40.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT														
+	CR	.46	1	FLOW	273.	268.	264.	259.	254.	250.	245.	236.	231.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
3 COMBINED AT														
+	CUPRR-3	2.51	1	FLOW	1071.	1048.	1026.	1003.	980.	957.	934.	888.	865.
				TIME	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47
DIVERSION TO														
+	BDG-D1	2.51	1	FLOW	134.	134.	133.	133.	132.	132.	131.	130.	130.
				TIME	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47
HYDROGRAPH AT														
+	BDG-D1	2.51	1	FLOW	937.	915.	892.	870.	847.	825.	803.	758.	736.
				TIME	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47
ROUTED TO														
+	RCUPRR-3	2.51	1	FLOW	925.	902.	880.	857.	835.	812.	790.	744.	722.
				TIME	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.53
HYDROGRAPH AT														
+	Ra5*	.02	1	FLOW	22.	22.	22.	21.	21.	21.	21.	20.	20.
				TIME	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80	3.80
ROUTED TO														
	RRa5*	.02	1	FLOW	21.	21.	21.	20.	20.	20.	19.	19.	18.
				TIME	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
HYDROGRAPH AT														
+	BDI-1	.02	1	FLOW	28.	28.	28.	27.	27.	26.	26.	25.	25.
				TIME	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60

3 COMBINED AT													
+	CUPRR-4	2.56	1	FLOW	936.	913.	890.	868.	845.	822.	800.	754.	731.
				TIME	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.53
ROUTED TO													
+	RCUPRR-4	2.56	1	FLOW	930.	908.	886.	863.	841.	819.	796.	751.	729.
				TIME	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60
HYDROGRAPH AT													
+	S3	.08	1	FLOW	59.	58.	57.	56.	55.	54.	54.	52.	51.
				TIME	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
ROUTED TO													
+	RS3	.08	1	FLOW	55.	55.	54.	53.	52.	51.	50.	49.	48.
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT													
+	BDI-2	.04	1	FLOW	22.	21.	21.	20.	20.	20.	19.	18.	18.
				TIME	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
3 COMBINED AT													
+	CUPRR-5	2.67	1	FLOW	967.	944.	921.	898.	875.	853.	830.	784.	761.
				TIME	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60
ROUTED TO													
+	RCUPRR-5	2.67	1	FLOW	965.	942.	918.	894.	871.	847.	825.	780.	758.
				TIME	4.60	4.60	4.60	4.60	4.60	4.67	4.67	4.67	4.67
HYDROGRAPH AT													
+	T9	.20	1	FLOW	136.	134.	132.	130.	128.	126.	124.	120.	118.
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT													
+	T12	.13	1	FLOW	95.	94.	93.	91.	90.	88.	87.	84.	83.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
2 COMBINED AT													
+	CP9-12	.34	1	FLOW	230.	227.	223.	220.	216.	213.	210.	203.	199.
				TIME	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13	4.13
ROUTED TO													
+	RT4-1	.34	1	FLOW	227.	224.	221.	217.	214.	210.	207.	200.	197.
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
			** PEAK STAGES IN FEET **										
			1	STAGE	10.97	10.96	10.95	10.94	10.93	10.93	10.92	10.90	10.89
				TIME	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33
HYDROGRAPH AT													
+	T4	.17	1	FLOW	119.	117.	115.	114.	112.	110.	108.	105.	103.
				TIME	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.07	4.07
2 COMBINED AT													
+	CP4	.51	1	FLOW	327.	322.	317.	312.	307.	302.	298.	288.	283.
				TIME	4.20	4.20	4.20	4.27	4.27	4.27	4.27	4.27	4.27
ROUTED TO													
+	RT120-1	.51	1	FLOW	326.	321.	316.	311.	305.	300.	295.	285.	280.
				TIME	4.40	4.40	4.40	4.40	4.40	4.47	4.47	4.47	4.47
			** PEAK STAGES IN FEET **										
			1	STAGE	11.38	11.37	11.36	11.35	11.34	11.33	11.32	11.29	11.28
				TIME	4.40	4.40	4.40	4.40	4.40	4.47	4.47	4.47	4.47
HYDROGRAPH AT													
+	T120	.10	1	FLOW	81.	80.	78.	77.	76.	75.	74.	71.	70.
				TIME	3.87	3.87	3.87	3.87	3.87	3.93	3.93	3.93	3.93
2 COMBINED AT													
+	CT	.61	1	FLOW	364.	359.	353.	348.	342.	335.	328.	316.	310.
				TIME	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
ROUTED TO													
+	RT	.61	1	FLOW	357.	352.	346.	340.	335.	329.	323.	311.	305.
				TIME	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.53	4.53
HYDROGRAPH AT													
+	BDI-3	.03	1	FLOW	5.	5.	5.	5.	4.	4.	4.	4.	4.
				TIME	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
3 COMBINED AT													
+	CUPRR-6	3.31	1	FLOW	1320.	1291.	1262.	1233.	1204.	1175.	1146.	1088.	1059.
				TIME	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60
HYDROGRAPH AT													
+	U59	.07	1	FLOW	14.	13.	13.	13.	12.	12.	11.	11.	10.
				TIME	4.07	4.07	4.13	4.13	4.13	4.13	4.13	4.13	4.13
ROUTED TO													
+	RU59	.07	1	FLOW	12.	12.	12.	11.	11.	11.	10.	9.	9.
				TIME	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.53
HYDROGRAPH AT													
+	BDI-4	.05	1	FLOW	8.	8.	8.	7.	7.	7.	6.	6.	6.
				TIME	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07	4.07
HYDROGRAPH AT													
+	BDI-5	.03	1	FLOW	17.	17.	16.	16.	16.	15.	15.	14.	14.
				TIME	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87	3.87
4 COMBINED AT													
+	CUPRR-7	3.47	1	FLOW	1342.	1312.	1283.	1253.	1224.	1195.	1165.	1106.	1076.
				TIME	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60
DIVERSION TO													
+	BDI-D1	3.47	1	FLOW	1342.	1312.	1283.	1253.	1224.	1195.	1165.	1106.	1076.
				TIME	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60	4.60
HYDROGRAPH AT													
+	BDI-D1	3.47	1	FLOW	0.	0.	0.	0.	0.	0.	0.	0.	0.
				TIME	.07	.07	.07	.07	.07	.07	.07	.07	.07

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

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1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*         SEPTEMBER 1990                *
*           VERSION 4.0                 *
*                                       *
*  RUN DATE  10/18/1995  TIME  13:43:07 *
*                                       *
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*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*         609 SECOND STREET             *
*       DAVIS, CALIFORNIA 95616         *
*           (916) 756-1104              *
*                                       *
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X     X  XXXXXXX   XXXXX          X
X     X  X        X     X        XX
X     X  X        X              X
XXXXXXX  XXXX     X        XXXXX  X
X     X  X        X              X
X     X  X        X     X        X
X     X  XXXXXXX  XXXXX          XXX
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

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


```
LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
   1      ID          file: uprr1-10.dat
   2      ID
   3      ID          Performed by: Post, Buckley, Schuh & Jernigan, Inc.
   4      ID
   5      ID          ***************************************************
   6      ID                Clark County Department of Public Works
   7      ID
   8      ID              SOUTHWEST LAS VEGAS DEVELOPMENT GUIDELINES
   9      ID                           AREA II
  10      ID
  11      ID             - UNION PACIFIC RAILROAD CONVEYANCES NO. 1 -
  12      ID
  13      ID                     EXISTING DRAINAGE CONDITIONS
  14      ID                 10-YEAR PEAK FLOW RATES, 6-HOUR STORM (SDN3)
  15      ID          ***************************************************
  16      ID
  17      ID
  18      ID          CONCENTRATION      AREA              10-YEAR
  19      ID            POINT I.D.    (sq. mi.)   DARF     RATIO
  20      ID          ---------------------------------------------
  21      ID            BDI-1           0.023     1.00      0.57
  22      ID            BDI-2           0.036     1.00      0.57
  23      ID            BDI-3           0.030     1.00 *    0.57
  24      ID            BDI-4           0.054     1.00      0.57
  25      ID            BDI-5           0.031     1.00      0.57
  26      ID            023*            0.071     1.00      0.57
  27      ID            CP              1.274     0.96      0.55
  28      ID            Q15*            0.129     0.99      0.57
  29      ID            CR              0.460     0.98      0.56
  30      ID            Ra5*            0.024     1.00      0.57
  31      ID            S3              0.078     1.00      0.57
  32      ID            CT              0.610     0.98      0.56
  33      ID            U59             0.073     1.00      0.57
  34      ID            CUPRR-1         1.675**   0.94      0.54
  35      ID            CUPRR-2         3.022**   0.92      0.52
  36      ID            CUPRR-3         3.611**   0.91      0.52
  37      ID            CUPRR-4         3.658**   0.91      0.52
  38      ID            CUPRR-5         3.772**   0.91      0.52
  39      ID            CUPRR-6         4.412**   0.91      0.52
  40      ID            CUPRR-7         4.570**   0.91      0.52
  41      ID
  42      ID          * REVISED AREA I BASIN/SUBBASIN
  43      ID         ** PRORATED AREA ACCOUNTS FOR UPSTREAM DIVERSION(S)
  44      ID
  45      ID          4-MINUTE COMPUTATION INTERVAL
  46      ID
          *DIAGRAM
*** FREE ***
  47      IT       4       0       0     300
  48      IO       5
  49      IN       5
  50      JR    PREC    0.57    0.56    0.55    0.54    0.52
          *
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LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
  51      KK     F37
  52      KM   AREA I SUBBASIN F37
  53      BA   0.089
  54      PB    3.22
  55      PC    .000    .020    .057    .070    .087    .108    .124    .130    .130    .130
  56      PC    .130    .130    .130    .133    .140    .142    .148    .158    .172    .181
  57      PC    .190    .197    .199    .200    .201    .204    .214    .229    .241    .249
  58      PC    .251    .256    .270    .278    .281    .283    .295    .322    .352    .409
  59      PC    .499    .590    .710    .744    .781    .812    .819    .835    .851    .856
  60      PC    .860    .868    .876    .888    .910    .926    .937    .950    .970    .976
  61      PC    .982    .985    .987    .989    .990    .993    .993    .994    .995    .998
  62      PC    .998    .999   1.00
  63      LS       0      86
  64      UD    0.27
          *

  65      KK RT37-42
  66      KM   AREA I OFFSITE 37 TO 42
  67      RS       2    FLOW      -1
  68      RC   0.040   0.035   0.040    1283   0.018
  69      RX       0     100     110     133     152     175     185     285
  70      RY      14      12      12      10      10      12      12      14
          *

  71      KK     F42
  72      KM   AREA I SUBBASIN F42
  73      BA   0.021
  74      PB    3.15
  75      LS       0    86.3
  76      UD  0.1605
          *

  77      KK CP37-42
  78      HC       2
          *

  79      KK     F44
  80      KM   AREA I SUBBASIN F44
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 81          BA     0.4
 82          PB    3.26
 83          UD     0.6
             *

 84          KK RT44-55
 85          KM   OFFSITE F44 TO F55
 86          RS       1    FLOW      -1
 87          RC   0.040   0.035   0.040     827 0.02205
 88          RX       0     100     110     133     152     175     185     285
 89          RY      14      12      12      10      10      12      12      14
             *
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LINE         ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

 90          KK     F55
 91          KM   AREA I SUBBASIN F55
 92          BA   0.018
 93          PB    3.15
 94          LS       0    86.3
 95          UD  0.0755
             *

 96          KK CP55-44
 97          HC       2
             *

 98          KK RT55-42
 99          KM   ROUTE CP55-44 TO F42
100          RS       2    FLOW      -1
101          RC   0.040   0.035   0.040     829  0.0193
102          RX       0     100     110     140     165     195     205     305
103          RY      14      12      12      10      10      12      12      14
             *

104          KK CP55-42
105          HC       2
             *

106          KK RT42-48
107          KM   ROUTE CP55-42 TO F48
108          RS       5    FLOW      -1
109          RC   0.040   0.035   0.040    3107 0.01800
110          RX       0     100     110     140     165     195     205     305
111          RY      14      12      12      10      10      12      12      14
             *

112          KK     F33
113          KM   AREA I SUBBASIN F33
114          BA   0.061
115          PB    3.15
116          LS       0    86.1
117          UD  0.4126
             *

118          KK     F36
119          KM   AREA I SUBBASIN F37
120          BA   0.059
121          PB    3.15
122          LS       0    86.1
123          UD  0.2815
             *

124          KK     F48
125          KM   AREA I SUBBASIN F48
126          BA    0.06
127          PB    3.15
128          LS       0    86.6
129          UD  0.1091
             *
```



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

130          KK     F57
131          KM   AREA I SUBBASIN F57
132          BA   0.036
133          PB    3.15
134          LS       0      87
135          UD  0.3096
             *

136          KK    CP48
137          KM   COMBINE 42-55+33+36+48+57
138          HC       5
             *

139          KK  T49-10
140          KM   36, 33, 57, 58, 65 TO 49
141          RS       2    FLOW      -1
142          RC   0.040   0.035   0.040     966 0.01700
143          RX       0     100     110     127     154     170     180     280
144          RY      15      13      13      10      10      13      13      15
             *

145          KK     F69
146          KM   AREA I SUBBASIN F69
147          BA    0.01
148          PB    3.15
149          LS       0    85.9
150          UD  0.0554
             *

151          KK     RT1
152          KM   ROUTE 69 TO 64
153          RS       5    FLOW      -1
154          RC   0.040   0.035   0.040    3266 0.02300
155          RX       0     100     110     125     160     175     185     285
156          RY      13      11      11      10      10      11      11      13
             *

157          KK     F64
158          KM   AREA I SUBBASIN F57
159          BA   0.037
160          PB    3.15
161          LS       0    86.5
162          UD  0.2108
             *

163          KK     F79
164          KM   AREA I SUBBASIN F79
165          BA   0.009
166          PB    3.15
167          LS       0    85.1
168          UD    0.04
             *
```



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

```
169          KK     RT2
170          KM   ROUTE 79 TO 67
171          RS       4     FLOW       -1
172          RC   0.040   0.035   0.040    2002  0.0200
173          RX       0     100     110     190     210     290     300     400
174          RY      16      14      14      10      10      14      14      16
             *

175          KK     F67
176          KM   AREA I SUBBASIN F67
177          BA   0.037
178          PB    3.15
179          LS       0    86.6
180          UD  0.1676
             *

181          KK     CP1
182          KM   JOIN 69 64 79 AND 67
183          HC       4
             *

184          KK  T58-17
185          KM   69/64&79/67TO58
186          RS       3     FLOW       -1
187          RC   0.040   0.035   0.040    1876 0.01900
188          RX       0     100     110     190     210     290     300     400
189          RY      16      14      14      10      10      14      14      16
             *

190          KK     F82
191          KM   AREA I SUBBASIN F82
192          BA   0.105
193          PB    3.25
194          LS       0      86
195          UD    0.24
             *

196          KK    RT82
197          KM   ROUTE 82 TO 65
198          RS       6     FLOW       -1
199          RC   0.040   0.035   0.040    3725 0.02160
200          RX       0     100     110     250     285     425     435     535
201          RY      16      14      14      10      10      14      14      16
             *

202          KK     F65
203          KM   AREA I SUBBASIN F65
204          BA   0.077
205          PB    3.15
206          LS       0    85.7
207          UD  0.2396
             *
```

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

208          KK     F58
209          KM   AREA I SUBBASIN F58
210          BA   0.066
211          PB    3.15
212          LS       0    87.1
213          UD  0.3841
             *

214          KK     CP2
215          KM   58-65-64&67 UPSTEAM END OF CULVERT BDW2
216          HC       4
             *

217          KK  T49-11
218          KM   58&65TO49
219          RS       2     FLOW       -1
220          RC   0.040   0.035   0.040    1218 0.02170
221          RX       0     100     110     162     181     233     243     343
222          RY      16      14      14      10      10      14      14      16
             *

223          KK     F49
224          KM   AREA I SUBBASIN F49
225          BA   0.032
226          PB    3.13
227          LS       0    86.8
228          UD  0.1983
             *

229          KK     F66
230          KM   AREA I SUBBASIN F66
231          BA   0.084
232          PB    3.15
233          LS       0    86.4
234          UD  0.5348
             *

235          KK  T59-18
236          KM   66 TO 59
237          RS       1     FLOW       -1
238          RC   0.040   0.035   0.040     890 0.01680
239          RX       0     100     110     210     260     360     370     470
240          RY      16      14      14      10      10      14      14      16
             *

241          KK     F59
242          KM   AREA I SUBBASIN F59
243          BA   0.023
244          PB    3.06
245          LS       0    86.6
246          UD  0.1664
             *
```

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

247          KK    CPRR
248          KM   TOTAL UPSTREAM OF RR CULVERT AND EMBANKMENT
249          HC       5
             *

250          KK   RR-35
251          KM   RR TO 35
252          RS       7     FLOW       -1
253          RC   0.040   0.035   0.040    4015 0.02080
254          RX       0     100     110     135     155     180     190     290
255          RY      17      15      15      10      10      15      15      17
             *

256          KK     F35
257          KM   AREA I SUBBASIN F35
258          BA   0.139
259          PB    3.01
```

```
260          LS       0    86.9
261          UD   0.473
             *
262          KK    CP35
263          KM    RR FLOW - 35
264          HC       2
             *
265          KK RT35-54
266          KM   35 TO 54
267          RS       2    FLOW      -1
268          RC   0.040   0.035   0.040    1153 0.00690
269          RX       0     100     110     125     161     176     186     286
270          RY      17      15      15      10      10      15      15      17
             *
271          KK     F71
272          KM    AREA I SUBBASIN F71
273          BA    0.02
274          PB       3
275          LS       0    86.8
276          UD  0.3729
             *
277          KK RT71-60
278          KM   71 TO 61
279          RS       2    FLOW      -1
280          RC   0.040   0.035   0.040     123 0.01620
281          RX       0     100     110     125     130     145     155     255
282          RY      14      13      13      10      10      13      13      14
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10
283          KK     F70
284          KM    AREA I SUBBASIN F70
285          BA    0.037
286          PB     3.04
287          LS       0    87.1
288          UD  0.3361
             *
289          KK RT70-61
290          KM   70 TO 61
291          RS       1    FLOW      -1
292          RC   0.040   0.035   0.040     767 0.02200
293          RX       0     100     110     118     119     126     136     236
294          RY      13      11      11      10      10      11      11      13
             *
295          KK     F61
296          KM    AREA I SUBBASIN F61
297          BA    0.025
298          PB       3
299          LS       0      88
300          UD  0.0332
             *
301          KK    CP61
302          KM   71-70-61
303          HC       3
             *
304          KK RT61-54
305          KM   61 TO 54
306          RS       2    FLOW      -1
307          RC   0.040   0.035   0.040    1480 0.02800
308          RX       0     100     110     131     152     173     183     283
309          RY      15      13      13      10      10      13      13      15
             *
310          KK     F54
311          KM    AREA I SUBBASIN F54
312          BA    0.026
313          PB       3
314          LS       0      87
315          UD  0.2017
             *
316          KK     F31
317          KM    AREA I SUBBASIN F31
318          BA    0.128
319          PB     3.02
320          LS       0      87
321          UD  0.5866
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10
322          KK    CP54
323          KM   54-61-31-35
324          HC       4
             *
325          KK RT54-50
326          KM   31,61&54TO50
327          RS       2    FLOW      -1
328          RC   0.040   0.035   0.040    1099 0.02635
329          RX       0     100     110     158     208     256     266     366
330          RY      24      22      22      10      10      22      22      24
             *
331          KK     F50
332          KM    AREA I SUBBASIN F50
333          BA    0.011
334          PB       3
335          LS       0      87
336          UD  0.1533
             *
337          KK    CP50
338          KM   54-50
339          HC       2
             *
340          KK     F52
341          KM    AREA I SUBBASIN F52
342          BA    0.03
343          PB       3
344          LS       0      87
345          UD  0.3615
             *
346          KK    CP52
347          KM   50-52
348          HC       2
```

```
                *
349             KK     F27
350             KM   AREA I SUBBASIN F27
351             BA   0.116
352             PB       3
353             LS       0    86.8
354             UD  0.4552
                *

355             KK     F26
356             KM   AREA I SUBBASIN F26
357             BA    0.05
358             PB       3
359             LS       0    86.8
360             UD  0.4207
                *
```



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

361             KK    CP26
362             KM   26-27
363             HC       2
                *

364             KK RT26-50
365             KM   26&27TO50
366             RS       2    FLOW      -1
367             RC   0.040   0.035   0.040    1000 0.02190
368             RX       0     100     110     118     150     158     168     268
369             RY      14      12      12      10      10      12      12      14
                *

370             KK    CP50
371             KM   50+26
372             HC       2
                *

373             KK RT50-56
374             KM   50-52-26-27 TO 56
375             RS       5    FLOW      -1
376             RC   0.040   0.035   0.040    3113 0.01630
377             RX       0     100     110     118     150     158     168     268
378             RY      14      12      12      10      10      12      12      14
                *

379             KK     F73
380             KM   AREA I SUBBASIN F73
381             BA   0.082
382             PB       3
383             LS       0    87.2
384             UD  0.4595
                *

385             KK     F68
386             KM   AREA I SUBBASIN F68
387             BA   0.025
388             PB       3
389             LS       0    87.6
390             UD    0.49
                *

391             KK    CP68
392             KM   68-73
393             HC       2
                *

394             KK RT68-56
395             KM   73&68TO56
396             RS       4    FLOW      -1
397             RC   0.040   0.035   0.040    2511 0.02040
398             RX       0     100     110     140     171     201     211     311
399             RY      14      12      12      10      10      12      12      14
                *
```



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

400             KK     F56
401             KM   AREA I SUBBASIN F56
402             BA   0.104
403             PB       3
404             LS       0      87
405             UD  0.5702
                *

406             KK    CP56
407             KM   56-68-73-50
408             HC       3
                *

409             KK RT56-62
410             KM   56 TO 62
411             RS       1    FLOW      -1
412             RC   0.040   0.035   0.040     896 0.01575
413             RX       0     100     110     122     146     158     168     268
414             RY      14      12      12      10      10      12      12      14
                *

415             KK     F62
416             KM   AREA I SUBBASIN F62
417             BA   0.032
418             PB       3
419             LS       0    87.8
420             UD  0.2131
                *

421             KK    CP62
422             KM   62-56
423             HC       2
                *

424             KK RT62-45
425             KM   62 TO 45
426             RS       2    FLOW      -1
427             RC   0.040   0.035   0.040    1373 0.01360
428             RX       0     100     110     138     160     188     198     298
429             RY      17      15      15      10      10      15      15      17
                *

430             KK     F45
431             KM   AREA I SUBBASIN F45
432             BA   0.061
433             PB       3
434             LS       0    86.3
435             UD  0.1762
                *
```

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

  436     KK    CP45
  437     KM   45-62
  438     HC       2
          *
  439     KK    DF45
  440     KM   DIVERSION FLOW TO BASIN 53
  441     DT   DFV45
  442     DI       0     180     368     830     950    1080    1350    1500
  443     DQ       0       0     150     425     490     560     700     780
          *
  444     KK    DF45
  445     KM   AREA I SUBBASIN FLOW DIVERTED AT BASIN 45 CULVERT
  446     BA   1.097
  447     DR   DFV45
          *
  448     KK RT45-46
  449     KM   ROUTE DIVERTED FLOW FROM BASIN 45 TO NEXT CULVERT
  450     RS      12    FLOW      -1
  451     RC   0.040   0.035   0.040    7000 0.01615
  452     RX       0     100     110     132     152     181     191     291
  453     RY      15      15      15      10      10      14      14      16
          *
  454     KK     N51
  455     KM   AREA I SUBBASIN N51
  456     BA   0.224
  457     PB     2.9
  458     LS       0    86.4
  459     UD  0.8409
          *
  460     KK  RT46-1
  461     KM   51TO46
  462     RS       3    FLOW      -1
  463     RC   0.040   0.035   0.040    1989 0.01615
  464     RX       0     100     110     132     159     181     191     291
  465     RY      14      12      12      10      10      12      12      14
          *
  466     KK     N46
  467     KM   AREA I SUBBASIN N46
  468     BA   0.043
  469     PB    2.86
  470     LS       0    87.7
  471     UD  0.4169
          *
```



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

  472     KK     N53
  473     KM   AREA I SUBBASIN N53
  474     BA   0.009
  475     PB    2.86
  476     LS       0    88.9
  477     UD  0.2901
          *
  478     KK    CP46
  479     KM   COMBINE DIVERTED 45 AND 51, 46, 53 AT BLUE DIAMOND
  480     HC       4
          *
  481     KK    DF46
  482     KM   DIVERSION OF FLOW TO SUBBASIN 38
  483     DT   DFV46
  484     DI       0     230     340     680     780     890    1140    1270
  485     DQ       0       0      70     300     360     425     560     630
          *
  486     KK  RT47-1
  487     KM   46&53TO47
  488     RS       4    FLOW      -1
  489     RC   0.040   0.035   0.040    2370 0.01970
  490     RX       0     100     110     127     149     166     176     276
  491     RY      14      12      12      10      10      12      12      14
          *
  492     KK     N60
  493     KM   AREA I SUBBASIN N60
  494     BA    0.07
  495     PB    2.86
  496     LS       0      87
  497     UD  0.4844
          *
  498     KK  RT47-1
  499     KM   60TO47
  500     RS       2    FLOW      -1
  501     RC   0.040   0.035   0.040    1028 0.01170
  502     RX       0     100     110     126     142     158     168     268
  503     RY      14      12      12      10      10      12      12      14
          *
  504     KK     N47
  505     KM   AREA I SUBBASIN N47
  506     BA   0.133
  507     PB    2.86
  508     LS       0    87.5
  509     UD  1.0255
          *
```



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

  510     KK    CP46
  511     KM   COMBINE 60,47,46
  512     HC       3
          *
  513     KK  RT43-1
  514     KM   47&60TO43
  515     RS       1    FLOW      -1
  516     RC   0.040   0.035   0.040     519 0.01350
  517     RX       0     100     110     125     140     155     165     265
  518     RY      13      11      11      10      10      11      11      13
          *
  519     KK    DF46
  520     KM   AREA I SUBBASIN FLOW DIVERTED AT BASIN 46 CULVERT
```

```
521          DR   DFV46
             *
522          KK RT46-38
523          KM   ROUTE DIVERTED FLOW FROM BASIN 46 TO NEXT CULVERT
524          RS       3    FLOW       -1
525          RC   0.040   0.035   0.040     2000 0.01615
526          RX       0     100     110      132      152      181      191      291
527          RY      15      15      15       10       10       14       14       16
             *
528          KK     N38
529          KM   AREA I SUBBASIN N38
530          BA   0.048
531          PB    2.86
532          LS       0    87.3
533          UD  0.3646
             *
534          KK    CP38
535          KM   DIVERTED FLOW FROM 46 TO 38
536          HC       2
             *
537          KK  RT43-1
538          KM   38TO43
539          RS       1    FLOW       -1
540          RC   0.040   0.035   0.040      725 0.02340
541          RX       0     100     110      146      182      218      228      328
542          RY      16      14      14       10       10       14       14       16
             *
543          KK     N43
544          KM   AREA I SUBBASIN N43
545          BA   0.017
546          PB    2.86
547          LS       0    87.8
548          UD  0.2349
             *
1                                        HEC-1 INPUT                                        PAGE 15

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

549          KK    CP43
550          KM   COMBINE 47,60,38,43
551          HC       3
             *
552          KK  RT41-1
553          KM   ROUTE43TO41
554          RS       0    FLOW       -1
555          RC   0.040   0.035   0.040      237 0.00420
556          RX       0     100     110      125      140      155      165      265
557          RY      15      13      13       10       10       13       13       15
             *
558          KK     N41
559          KM   AREA I SUBBASIN N41
560          BA   0.034
561          PB    2.86
562          LS       0    87.6
563          UD  0.5315
             *
564          KK CUPRR-1
565          KM   COMBINE CP43 + N41
566          HC       2
             *
567          KK   RTN-1
568          KM   ROUTE CUPRR-1 TO BASIN N OUTFALL
569          RS       1    FLOW       -1
570          RC   0.040   0.035   0.040      429 0.01860
571          RX       0     100     110      134      158      182      192      292
572          RY      14      12      12       10       10       12       12       14
             *
573          KK  BDB-D1
574          KM   DIVERT FLOWS INTO BASIN BDB BENEATH THE UPRR THROUGH (2) 36" CMP CULVERTS
575          DT  BDB-D1
576          DI       0     160     400      600      800     1000     1200     1400     1600     1800
577          DQ       0     160     180      184      186      188      190      191      193      194
             *
578          KK  BDB-D2
579          KM   DIVERT FLOWS INTO BASIN BDB OVER THE RAILROAD TRACKS
580          DT  BDB-D2
581          DI       0    1800
582          DQ       0     900
             *
583          KKRCUPRR-1
584          KM   ROUTE CUPRR-1 NORTHEAST TO THE 8'x 4' UPRR CULVERT JUST NORTH OF
585          KM   BLUE DIAMOND ROAD
586          RM       1    0.09    0.15
             *
1                                        HEC-1 INPUT                                        PAGE 16

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

587          KK    O23*
588          KM   AREA I SUBBASIN O23
589          BA   0.071
590          PB    2.85
591          LS       0    87.2
592          UD   0.407
             *
593          KK     P40
594          KM   AREA I SUBBASIN P40
595          BA    .038
596          PB    3.00
597          LS       0      87
598          UD   .3921
             *
599          KK  RT21-1
600          KM   40TO21
601          RS       4    FLOW       -1
602          RC   0.040   0.035   0.040     2240 0.02167
603          RX     0.0     100     110      150      191      231      241      341
604          RY    16.2    14.2    14.0     10.0     10.0     14.0     14.2     16.2
             *
605          KK     P21
606          KM   AREA I SUBBASIN P21
607          BA    .315
608          PB    2.98
```

```
609          LS       0    86.9
610          UD   .7341
             *

611          KK CP21-40
612          KM   COMBINE 21&40
613          HC       2
             *

614          KK  RT30-1
615          KM   21TO30
616          RS       9    FLOW      -1
617          RC   0.040   0.035   0.040    5647 0.01808
618          RX     0.0     100     110     150     190     230     240     340
619          RY    16.2    14.2    14.0    10.0    10.0    14.0    14.2    16.2
             *

620          KK     P20
621          KM   AREA I SUBBASIN P20
622          BA    .153
623          PB    2.91
624          LS       0    86.4
625          UD   .5815
             *

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

626          KK  RT24-1
627          KM   20 TO 24
628          RS       9    FLOW      -1
629          RC   0.040   0.035   0.040    5361 0.01890
630          RX     0.0     100     110     154     194     238     248     348
631          RY    16.2    14.2    14.0    10.0    10.0    14.0    14.2    16.2
             *

632          KK     P24
633          KM   AREA I SUBBASIN P24
634          BA    .155
635          PB    2.79
636          LS       0    86.3
637          UD   .4232
             *

638          KK     P30
639          KM   AREA I SUBBASIN P30
640          BA    .134
641          PB    2.86
642          LS       0    82.7
643          UD   .5693
             *

644          KK CP21-30
645          KM   COMBINE 21,30,20,24
646          HC       4
             *

647          KK  RT25-1
648          KM   24,30TO25
649          RS       6    FLOW      -1
650          RC   0.040   0.035   0.040    3843 0.01647
651          RX     0.0     100     110     140     170     200     210     310
652          RY    15.2    13.2    13.0    10.0    10.0    13.0    13.2    15.2
             *

653          KK     P25
654          KM   AREA I SUBBASIN P25
655          BA    .063
656          PB     2.8
657          LS       0    86.4
658          UD   .2811
             *

659          KK     P29
660          KM   AREA I SUBBASIN P29
661          BA    .085
662          PB    2.86
663          LS       0    86.7
664          UD    .585
             *

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

665          KK CP25-29
666          KM   COMBINE 25,29,30
667          HC       3
             *

668          KK  RT22-1
669          KM   25&29TO22
670          RS       3    FLOW      -1
671          RC   0.040   0.035   0.040    1857 0.01695
672          RX     0.0     100     110     160     210     260     270     370
673          RY    14.2    12.2    12.0    10.0    10.0    12.0    12.2    14.2
             *

674          KK     P17
675          KM   AREA I SUBBASIN P17
676          BA    .056
677          PB    2.86
678          LS       0    86.8
679          UD   .3676
             *

680          KK  RT18-1
681          KM   17 TO 18
682          RS       9    FLOW      -1
683          RC   0.040   0.035   0.040    5494 0.01860
684          RX     0.0     100     110     133     155     178     188     288
685          RY    13.2    11.2    11.0    10.0    10.0    11.0    11.2    13.2
             *

686          KK     P18
687          KM   AREA I SUBBASIN P18
688          BA    .158
689          PB    2.77
690          LS       0    86.3
691          UD   .5083
             *

692          KK CP18-17
693          KM   COMBINE 17,18
694          HC       2
             *

695          KK  RT22-1
696          KM   18TO19&22
```

```
 697          RS       8    FLOW      -1
 698          RC   0.040   0.035   0.040    5081  0.0190
 699          RX     0.0     100     110     130     150     170     180     280
 700          RY    14.2    12.2    12.0    10.0    10.0    12.0    12.2    14.2
              *
1                                    HEC-1 INPUT                                    PAGE 19

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

 701          KK     P22
 702          KM   AREA I SUBBASIN P22
 703          BA    .023
 704          PB    2.79
 705          LS       0    87.4
 706          UD   .2403
              *

 707          KK     P19*
 708          KM   AREA I SUBBASIN P19
 709          BA    .094
 710          PB    2.77
 711          LS       0    86.1
 712          UD    .524
              *

 713          KK      CP
 714          KM   AREA I BASIN P OUTFALL
 715          HC       4
              *

 716          KK CUPRR-2
 717          KM   COMBINE CP + 023 + CUPRR-1 AT 8'X 4' RCB CULVERT BENEATH UPRR
 718          HC       3
              *

 719          KK  BDE-D1
 720          KM   DIVERT FLOWS INTO BASIN BDE BENEATH THE UPRR THROUGH THE 8'X 4' RCB CULVERT
 721          KO       1
 722          DT  BDE-D1
 723          DI       0     200     300     600     800    1000    1200    1400    1600    2000
 724          DQ       0     200     262     310     327     341     352     361     367     373
              *

 725          KKRCUPRR-2
 726          KM   ROUTE CUPRR-2 NORTHEAST TO THE (2) 36" CMP UPRR CULVERT
 727          RM       1    0.06    0.15
              *

 728          KK     Q15*
 729          KM   MODIFIED AREA I SUBBASIN Q15
 730          BA    .129
 731          PB    2.77
 732          LS       0      86
 733          UD    .550
              *

 734          KK      R8
 735          KM   AREA I SUBBASIN R8
 736          BA    .103
 737          PB    2.79
 738          LS       0    86.8
 739          UD   .6132
              *
1                                    HEC-1 INPUT                                    PAGE 20

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

 740          KK   RT7-1
 741          KM   8TO7
 742          RS       5    FLOW      -1
 743          RC   0.040   0.035   0.040    3218 0.02003
 744          RX     0.0     100     110     132     154     176     186     286
 745          RY    14.2    12.2    12.0    10.0    10.0    12.0    12.2    14.2
              *

 746          KK      R7
 747          KM   AREA I SUBBASIN R7
 748          BA    .041
 749          PB    2.77
 750          LS       0      87
 751          UD   .2438
              *

 752          KK     R13
 753          KM   AREA I SUBBASIN R13
 754          BA     .11
 755          PB    2.77
 756          LS       0    86.6
 757          UD    .548
              *

 758          KK  RT11-1
 759          KM   13TO11
 760          RS       6    FLOW      -1
 761          RC   0.040   0.035   0.040    3465 0.02140
 762          RX     0.0     100     110     149     188     227     237     337
 763          RY    15.2    13.2    13.0    10.0    10.0    13.0    13.2    15.2
              *

 764          KK     R11
 765          KM   AREA I SUBBASIN R11
 766          BA    .076
 767          PB    2.77
 768          LS       0      87
 769          UD   .3141
              *

 770          KK    CP11
 771          KM   COMBINE 8,7,11,13
 772          HC       4
              *

 773          KK   RT6-1
 774          KM   7&11TO6
 775          RS       2    FLOW      -1
 776          RC   0.040   0.035   0.040    1188 0.01430
 777          RX     0.0     100     110     174     238     302     312     412
 778          RY    20.2    18.2    18.0    10.0    10.0    18.0    18.2    20.2
              *
                                     HEC-1 INPUT                                    PAGE 21

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

 779          KK      R6
 780          KM   AREA I SUBBASIN R6
 781          BA    .038
 782          PB    2.77
```

```
LS       0      87
UD   .3733
*

KK     R14
KM   AREA I SUBBASIN R14
BA    .049
PB    2.77
LS       0    86.7
UD   .5438
*

KK     CP6
KM   COMBINE 11,14,6
HC       3
*

KK  RT10-1
KM   6&14TO10
RS       2    FLOW      -1
RC   0.040   0.035   0.040    1327 0.01730
RX     0.0     100     110     134     158     182     192     292
RY    16.2    14.2    14.0    10.0    10.0    14.0    14.2    16.2
*

KK    R10*
KM   REVISED AREA I SUBBASIN R10
BA    .043
PB    2.77
LS       0      87
UD    .253
*

KK      CR
KM   AREA I BASIN R OUTFALL
HC       2
*

KK CUPRR-3
KM   COMBINE CUPRR-2 + Q15* + CR AT (2) 36" RCP CULVERT BENEATH UPRR
HC       3
*

KK  BDG-D1
KM   DIVERT FLOWS INTO BASIN BDG BENEATH THE UPRR THROUGH (2) 36" RCP CULVERTS
DT  BDG-D1
DI       0     110     400     600     800    1000    1200    1400    1600    1800
DQ       0      86     113     122     128     133     136     138     140     141
*

1                                    HEC-1 INPUT                                    PAGE 22

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

KKRCUPRR-3
KM   ROUTE REMAINING FLOWS FROM CUPRR-3 TO OUTLET OF BDI-1
RM       1     .08     .15
*

KK    Ra5*
KM   REVISED AREA I SUBBASIN Ra5
BA    .024
PB    2.77
LS       0      87
UD   .3352
*

KK   RRa5*
KM   ROUTE Ra* FLOWS TO OUTLET OF BDI-1
RM       1     .12     .15
*

KK   BDI-1
KM   AREA II SUBBASIN BDI-1
BA    .023
PB    2.77
LS       0      88
UD    .190
*

KK CUPRR-4
KM   COMBINE CUPRR-3 + Ra5+ BDI-1
HC       3
*

KKRCUPRR-4
KM   ROUTE CUPRR-4 FLOWS TO OUTLET OF BDI-2
RM       1     .05     .15
*

KK      S3
KM   AREA I SUBBASIN S3
BA    .078
PB    2.77
LS       0      87
UD   .5069
*

KK     RS3
KM   ROUTE S3 TO BDI-2 OUTFALL
RM       1     .15     .15
*

1                                    HEC-1 INPUT                                    PAGE 23

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

KK   BDI-2
KM   AREA II SUBBASIN BDI-2
BA    .036
PB    2.77
LS       0      76
UD    .253
*

KK CUPRR-5
KM   COMBINE CUPRR-4 + S3 + BDI-2
HC       3
*

KKRCUPRR-5
KM   ROUTE CUPRR-5 FLOWS TO OUTLET OF BDI-4
RM       1     .04     .15
*

KK      T9
KM   AREA I SUBBASIN T9
BA    .203
PB    2.94
LS       0    86.3
```

```
867          UD   .6751
             *

868          KK     T12
869          KM   AREA I SUBBASIN T12
870          BA    .134
871          PB    2.92
872          LS       0    86.4
873          UD   .6089
             *

874          KK  CP9-12
875          KM   COMBINE 9&12
876          HC       2
             *

877          KK   RT4-1
878          KM   9&12TO4
879          RS       9    FLOW      -1
880          RC   0.040   0.035   0.040    5529 0.01826
881          RX     0.0     100     110     146     182     218     228     328
882          RY    15.2    13.2    13.0    10.0    10.0    13.0    13.2    15.2
             *

883          KK      T4
884          KM   AREA I SUBBASIN T4
885          BA    .172
886          PB    2.78
887          LS       0    86.7
888          UD   .5762
             *
```



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

889          KK     CP4
890          KM   COMBINE 9,12,4
891          HC       2
             *

892          KK RT120-1
893          KM   4TO120
894          RS      10    FLOW      -1
895          RC   0.040   0.035   0.040    5844 0.01873
896          RX     0.0     100     110     138     166     194     204     304
897          RY    16.2    14.2    14.0    10.0    10.0    14.0    14.2    16.2
             *

898          KK    T120
899          KM   AREA I SUBBASIN T120
900          BA    .101
901          PB    2.77
902          LS       0      87
903          UD   .4535
             *

904          KK      CT
905          KM   BASIN T OUTFALL
906          HC       2
             *

907          KK      RT
908          KM   ROUTE CT FLOWS TO OUTLET OF BDI-4
909          RM       2     .13     .15
             *

910          KK   BDI-3
911          KM   AREA II SUBBASIN BDI-3
912          BA    .030
913          PB    2.77
914          LS       0      63
915          UD    .374
             *

916          KK CUPRR-6
917          KM   COMBINE CUPRR-5 + CT + BDI-3
918          HC       3
             *

919          KK     U59
920          KM   AREA I BASIN U59
921          BA    .073
922          PB    2.77
923          LS       0   65.93
924          UD   .5329
             *
```



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

925          KK    RU59
926          KM   ROUTE U59 FLOWS TO OUTLET OF BDI-4
927          RM       3     .37     .15
             *

928          KK   BDI-4
929          KM   AREA II SUBBASIN BDI-4
930          BA    .054
931          PB    2.77
932          LS       0      63
933          UD    .471
             *

934          KK   BDI-5
935          KM   AREA II SUBBASIN BDI-5
936          BA    .031
937          PB    2.77
938          LS       0    78.2
939          UD    .403
             *

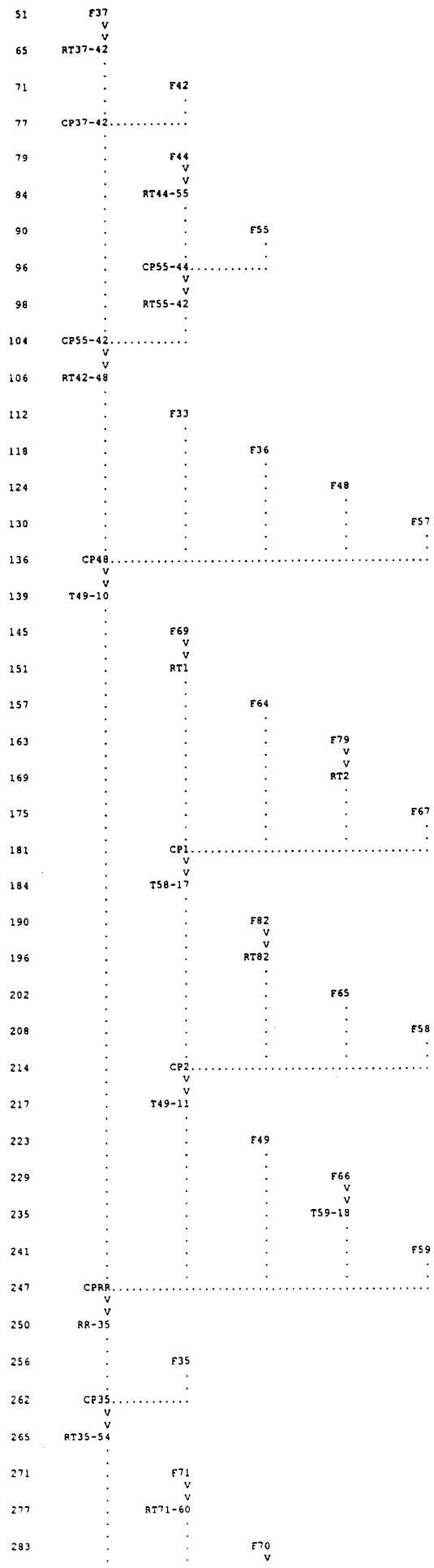
940          KK CUPRR-7
941          KM   COMBINE CUPRR-6 + U59 + BDI-4 + BDI-5 AT 41'X 5' BRIDGE
942          HC       4
             *

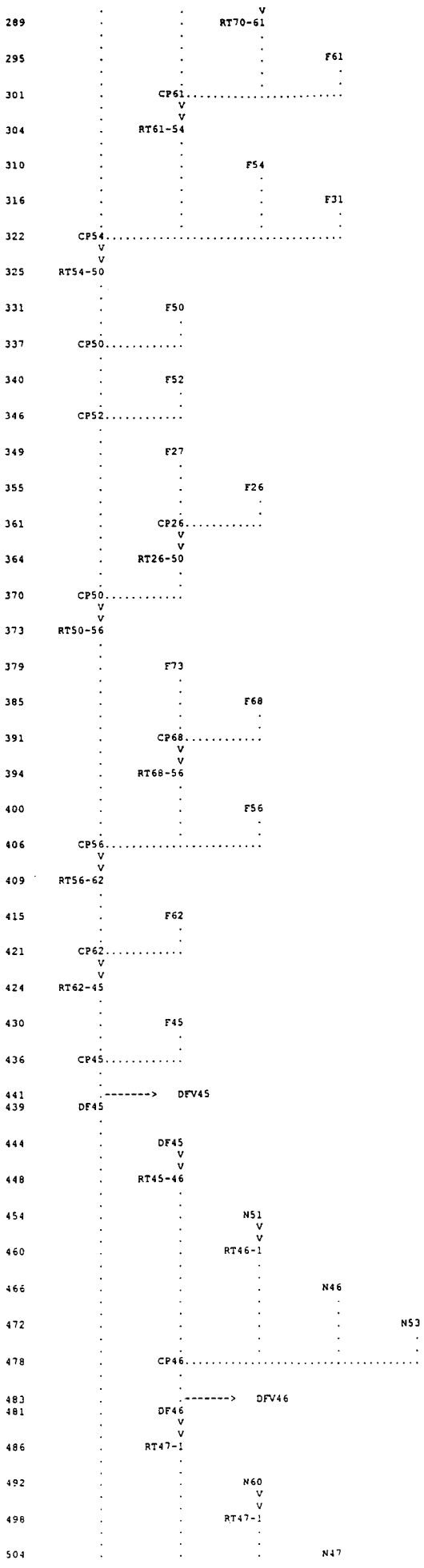
943          KK  BDI-D1
944          KM   DIVERT FLOWS INTO SUBBASIN BDI-16 BENEATH URPR THROUGH A 41'X 5' BRIDGE
945          DT  BDI-D1
946          DI       0     600    1200    1700    2400    3000    3600    4200    4800    5400
947          DQ       0     600    1200    1700    1797    1857    1906    1947    1986    2022
             *

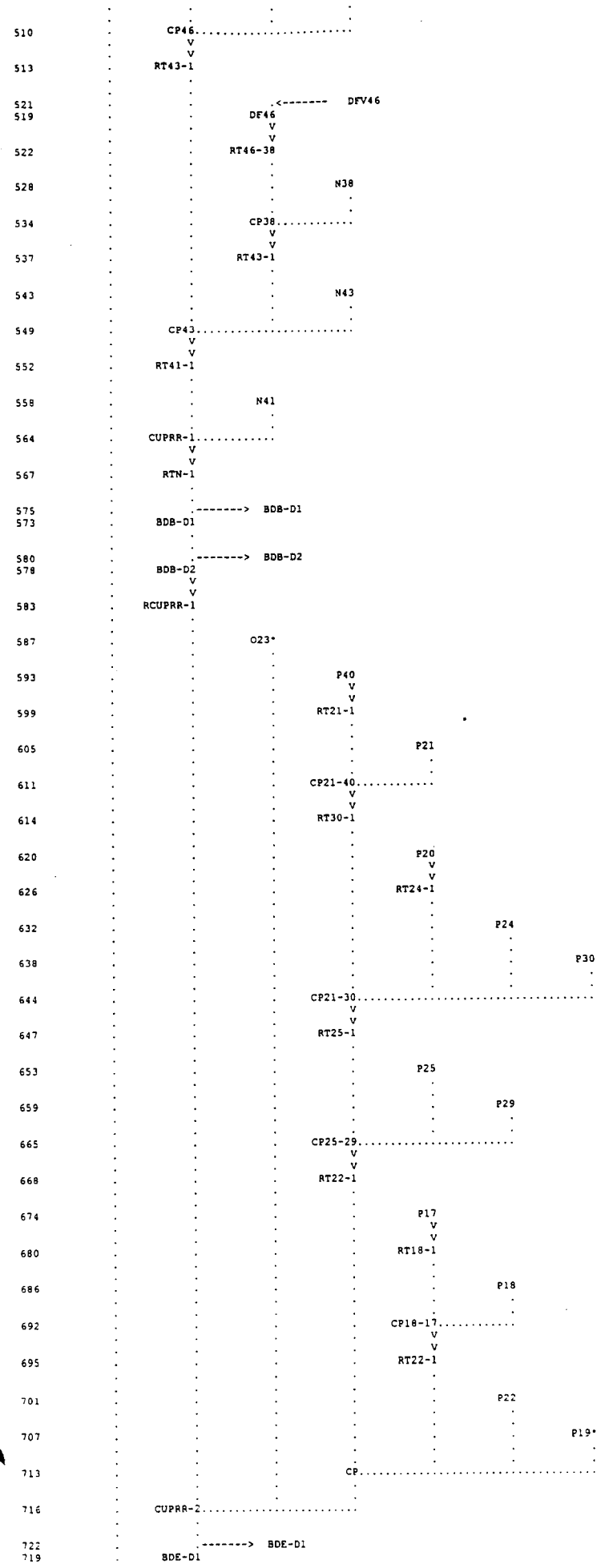
948          ZZ
```

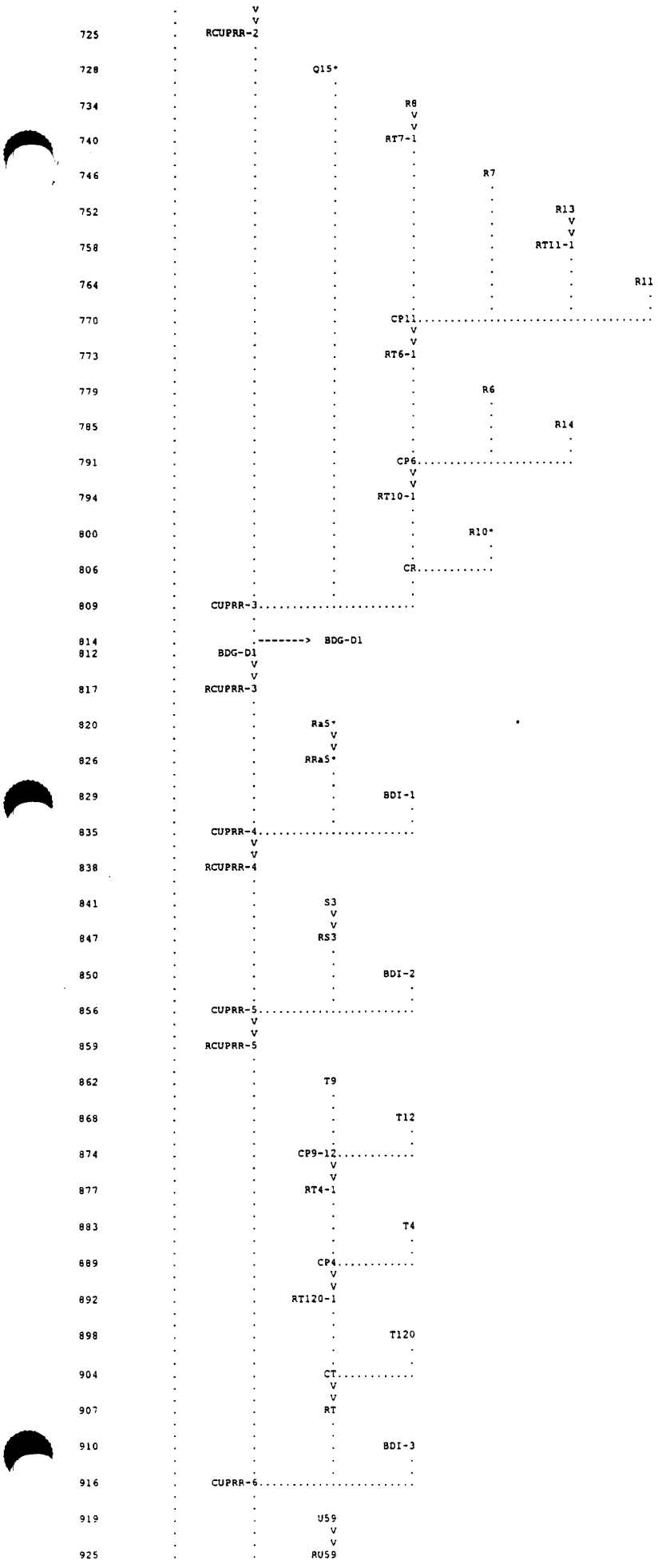
1 SCHEMATIC DIAGRAM OF STREAM NETWORK

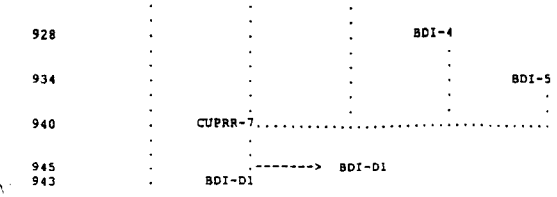
INPUT LINE (V) ROUTING (---->) DIVERSION OR PUMP FLOW


NO.
(.) CONNECTOR
(<---) RETURN OF DIVERTED OR PUMPED FLOW
51 F37
65 RT37-42
71 F42
77 CP37-42
79 F44
84 RT44-55
90 F55
96 CP55-44
98 RT55-42
104 CP55-42
106 RT42-48
112 F33
118 F36
124 F48
130 F57
136 CP48
139 T49-10
145 F69
151 RT1
157 F64
163 F79
169 RT2
175 F67
181 CP1
184 T58-17
190 F82
196 RT82
202 F65
208 F58
214 CP2
217 T49-11
223 F49
229 F66
235 T59-18
241 F59
247 CPRR
250 RR-35
256 F35
262 CP35
265 RT35-54
271 F71
277 RT71-60
283 F70


289
RT70-61
295
F61
301
CP61
304
RT61-54
310
F54
316
F31
322
CP54
325
RT54-50
331
F50
337
CP50
340
F52
346
CP52
349
F27
355
F26
361
CP26
364
RT26-50
370
CP50
373
RT50-56
379
F73
385
F68
391
CP68
394
RT68-56
400
F56
406
CP56
409
RT56-62
415
F62
421
CP62
424
RT62-45
430
F45
436
CP45
441
DFV45
439
DF45
444
DF45
448
RT45-46
454
N51
460
RT46-1
466
N46
472
N53
478
CP46
483
DFV46
481
DF46
486
RT47-1
492
N60
498
RT47-1
504
N47


510
CP46
513
RT43-1
521
519
DF46
DFV46
522
RT46-38
528
N38
534
CP38
537
RT43-1
543
N43
549
CP43
552
RT41-1
558
N41
564
CUPRR-1
567
RTN-1
575
573
BDB-D1
BDB-D1
580
578
BDB-D2
BDB-D2
583
RCUPRR-1
587
O23*
593
P40
599
RT21-1
605
P21
611
CP21-40
614
RT30-1
620
P20
626
RT24-1
632
P24
638
P30
644
CP21-30
647
RT25-1
653
P25
659
P29
665
CP25-29
668
RT22-1
674
P17
680
RT18-1
686
P18
692
CP18-17
695
RT22-1
701
P22
707
P19*
713
CP
716
CUPRR-2
722
719
BDE-D1
BDE-D1


RCUPRR-2
Q15*
R8
RT7-1
R7
R13
RT11-1
R11
CP11
RT6-1
R6
R14
CP6
RT10-1
R10*
CR
CUPRR-3
BDG-D1
BDG-D1
RCUPRR-3
Ra5*
RRa5*
BDI-1
CUPRR-4
RCUPRR-4
S3
RS3
BDI-2
CUPRR-5
RCUPRR-5
T9
T12
CP9-12
RT4-1
T4
CP4
RT120-1
T120
CT
RT
BDI-3
CUPRR-6
U59
RU59



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*         SEPTEMBER 1990                *
*          VERSION 4.0                  *
*                                       *
*  RUN DATE  10/18/1995  TIME  13:43:07 *
*                                       *
*****************************************
```

```
*****************************************
*                                       *
*    U.S. ARMY CORPS OF ENGINEERS       *
*    HYDROLOGIC ENGINEERING CENTER      *
*          609 SECOND STREET            *
*        DAVIS, CALIFORNIA 95616        *
*           (916) 756-1104              *
*                                       *
*****************************************
```

file: uprr1-10.dat

Performed by: Post, Buckley, Schuh & Jernigan, Inc.

****

Clark County Department of Public Works

SOUTHWEST LAS VEGAS DEVELOPMENT GUIDELINES
AREA II

- UNION PACIFIC RAILROAD CONVEYANCES NO. 1 -

EXISTING DRAINAGE CONDITIONS
10-YEAR PEAK FLOW RATES, 6-HOUR STORM (SDN3)

****

CONCENTRATION POINT I.D.	AREA (sq. mi.)	DARF	10-YEAR RATIO
BDI-1	0.023	1.00	0.57
BDI-2	0.036	1.00	0.57
BDI-3	0.030	1.00	0.57
BDI-4	0.054	1.00	0.57
BDI-5	0.031	1.00	0.57
023*	0.071	1.00	0.57
CP	1.274	0.96	0.55
Q15*	0.129	0.99	0.57
CR	0.460	0.98	0.56
Ra5*	0.024	1.00	0.57
S3	0.078	1.00	0.57
CT	0.610	0.98	0.56
U59	0.073	1.00	0.57
CUPRR-1	1.675**	0.94	0.54
CUPRR-2	3.022**	0.92	0.52
CUPRR-3	3.611**	0.91	0.52
CUPRR-4	3.658**	0.91	0.52
CUPRR-5	3.772**	0.91	0.52
CUPRR-6	4.412**	0.91	0.52
CUPRR-7	4.570**	0.91	0.52

* REVISED AREA I BASIN/SUBBASIN
** PRORATED AREA ACCOUNTS FOR UPSTREAM DIVERSION(S)

4-MINUTE COMPUTATION INTERVAL

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

    IT          HYDROGRAPH TIME DATA
                     NMIN           4  MINUTES IN COMPUTATION INTERVAL
                    IDATE      1    0  STARTING DATE
                    ITIME        0000  STARTING TIME
                       NQ         300  NUMBER OF HYDROGRAPH ORDINATES
                   NDDATE      1    0  ENDING DATE
                   NDTIME        1956  ENDING TIME
                   ICENT          19  CENTURY MARK

                 COMPUTATION INTERVAL      .07 HOURS
                     TOTAL TIME BASE   19.93 HOURS

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

    JP          MULTI-PLAN OPTION
                     NPLAN          1  NUMBER OF PLANS

    JR          MULTI-RATIO OPTION
                    RATIOS OF PRECIPITATION
                    .57       .56       .55       .54       .52
```

*** ***

```
          *************
          *           *
719 KK    *   BDE-D1  *
          *           *
          *************

721 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          1  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

    DT          DIVERSION
                     ISTAD      BDE-D1  DIVERSION HYDROGRAPH IDENTIFICATION

    DI             INFLOW         .00    200.00    300.00    600.00    800.00   1000.00   1200.00   1400.00   1600.00   2000.00
```

DQ	DIVERTED FLOW	.00	200.00	262.00	310.00	327.00	341.00	352.00	361.00	367.00	373.00

***

DIVERSION HYDROGRAPH BDE-D1
PLAN 1, RATIO = .57

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0500	76	262.	1		1000	151	0.	1		1500	226	0.
1		0004	2	0.	1		0504	77	253.	1		1004	152	0.	1		1504	227	0.
1		0008	3	0.	1		0508	78	244.	1		1008	153	0.	1		1508	228	0.
1		0012	4	0.	1		0512	79	233.	1		1012	154	0.	1		1512	229	0.
1		0016	5	0.	1		0516	80	223.	1		1016	155	0.	1		1516	230	0.
1		0020	6	0.	1		0520	81	212.	1		1020	156	0.	1		1520	231	0.
1		0024	7	0.	1		0524	82	200.	1		1024	157	0.	1		1524	232	0.
1		0028	8	0.	1		0528	83	184.	1		1028	158	0.	1		1528	233	0.
1		0032	9	0.	1		0532	84	167.	1		1032	159	0.	1		1532	234	0.
1		0036	10	0.	1		0536	85	152.	1		1036	160	0.	1		1536	235	0.
1		0040	11	0.	1		0540	86	139.	1		1040	161	0.	1		1540	236	0.
1		0044	12	0.	1		0544	87	127.	1		1044	162	0.	1		1544	237	0.
1		0048	13	0.	1		0548	88	118.	1		1048	163	0.	1		1548	238	0.
1		0052	14	0.	1		0552	89	110.	1		1052	164	0.	1		1552	239	0.
1		0056	15	0.	1		0556	90	103.	1		1056	165	0.	1		1556	240	0.
1		0100	16	0.	1		0600	91	97.	1		1100	166	0.	1		1600	241	0.
1		0104	17	0.	1		0604	92	91.	1		1104	167	0.	1		1604	242	0.
1		0108	18	0.	1		0608	93	86.	1		1108	168	0.	1		1608	243	0.
1		0112	19	0.	1		0612	94	82.	1		1112	169	0.	1		1612	244	0.
1		0116	20	0.	1		0616	95	78.	1		1116	170	0.	1		1616	245	0.
1		0120	21	0.	1		0620	96	74.	1		1120	171	0.	1		1620	246	0.
1		0124	22	0.	1		0624	97	70.	1		1124	172	0.	1		1624	247	0.
1		0128	23	0.	1		0628	98	66.	1		1128	173	0.	1		1628	248	0.
1		0132	24	0.	1		0632	99	62.	1		1132	174	0.	1		1632	249	0.
1		0136	25	0.	1		0636	100	58.	1		1136	175	0.	1		1636	250	0.
1		0140	26	0.	1		0640	101	54.	1		1140	176	0.	1		1640	251	0.
1		0144	27	0.	1		0644	102	50.	1		1144	177	0.	1		1644	252	0.
1		0148	28	0.	1		0648	103	46.	1		1148	178	0.	1		1648	253	0.
1		0152	29	0.	1		0652	104	42.	1		1152	179	0.	1		1652	254	0.
1		0156	30	0.	1		0656	105	38.	1		1156	180	0.	1		1656	255	0.
1		0200	31	0.	1		0700	106	34.	1		1200	181	0.	1		1700	256	0.
1		0204	32	0.	1		0704	107	31.	1		1204	182	0.	1		1704	257	0.
1		0208	33	0.	1		0708	108	28.	1		1208	183	0.	1		1708	258	0.
1		0212	34	0.	1		0712	109	27.	1		1212	184	0.	1		1712	259	0.
1		0216	35	0.	1		0716	110	26.	1		1216	185	0.	1		1716	260	0.
1		0220	36	0.	1		0720	111	24.	1		1220	186	0.	1		1720	261	0.
1		0224	37	0.	1		0724	112	23.	1		1224	187	0.	1		1724	262	0.
1		0228	38	1.	1		0728	113	21.	1		1228	188	0.	1		1728	263	0.
1		0232	39	1.	1		0732	114	20.	1		1232	189	0.	1		1732	264	0.
1		0236	40	1.	1		0736	115	19.	1		1236	190	0.	1		1736	265	0.
1		0240	41	1.	1		0740	116	17.	1		1240	191	0.	1		1740	266	0.
1		0244	42	2.	1		0744	117	16.	1		1244	192	0.	1		1744	267	0.
1		0248	43	2.	1		0748	118	14.	1		1248	193	0.	1		1748	268	0.
1		0252	44	2.	1		0752	119	13.	1		1252	194	0.	1		1752	269	0.
1		0256	45	3.	1		0756	120	11.	1		1256	195	0.	1		1756	270	0.
1		0300	46	3.	1		0800	121	10.	1		1300	196	0.	1		1800	271	0.
1		0304	47	3.	1		0804	122	9.	1		1304	197	0.	1		1804	272	0.
1		0308	48	4.	1		0808	123	8.	1		1308	198	0.	1		1808	273	0.
1		0312	49	5.	1		0812	124	7.	1		1312	199	0.	1		1812	274	0.
1		0316	50	7.	1		0816	125	6.	1		1316	200	0.	1		1816	275	0.
1		0320	51	10.	1		0820	126	5.	1		1320	201	0.	1		1820	276	0.
1		0324	52	16.	1		0824	127	4.	1		1324	202	0.	1		1824	277	0.
1		0328	53	23.	1		0828	128	4.	1		1328	203	0.	1		1828	278	0.
1		0332	54	34.	1		0832	129	3.	1		1332	204	0.	1		1832	279	0.
1		0336	55	46.	1		0836	130	3.	1		1336	205	0.	1		1836	280	0.
1		0340	56	60.	1		0840	131	2.	1		1340	206	0.	1		1840	281	0.
1		0344	57	75.	1		0844	132	2.	1		1344	207	0.	1		1844	282	0.
1		0348	58	96.	1		0848	133	2.	1		1348	208	0.	1		1848	283	0.
1		0352	59	111.	1		0852	134	2.	1		1352	209	0.	1		1852	284	0.
1		0356	60	128.	1		0856	135	1.	1		1356	210	0.	1		1856	285	0.
1		0400	61	152.	1		0900	136	1.	1		1400	211	0.	1		1900	286	0.
1		0404	62	178.	1		0904	137	1.	1		1404	212	0.	1		1904	287	0.
1		0408	63	195.	1		0908	138	1.	1		1408	213	0.	1		1908	288	0.
1		0412	64	203.	1		0912	139	1.	1		1412	214	0.	1		1912	289	0.
1		0416	65	206.	1		0916	140	1.	1		1416	215	0.	1		1916	290	0.
1		0420	66	209.	1		0920	141	0.	1		1420	216	0.	1		1920	291	0.
1		0424	67	217.	1		0924	142	0.	1		1424	217	0.	1		1924	292	0.
1		0428	68	238.	1		0928	143	0.	1		1428	218	0.	1		1928	293	0.
1		0432	69	263.	1		0932	144	0.	1		1432	219	0.	1		1932	294	0.
1		0436	70	268.	1		0936	145	0.	1		1436	220	0.	1		1936	295	0.
1		0440	71	270.	1		0940	146	0.	1		1440	221	0.	1		1940	296	0.
1		0444	72	270.	1		0944	147	0.	1		1444	222	0.	1		1944	297	0.
1		0448	73	269.	1		0948	148	0.	1		1448	223	0.	1		1948	298	0.
1		0452	74	267.	1		0952	149	0.	1		1452	224	0.	1		1952	299	0.
1		0456	75	265.	1		0956	150	0.	1		1456	225	0.	1		1956	300	0.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	19.93-HR
(CFS)	(HR)					
		(CFS)				
270.	4.73		91.	28.	28.	28.
		(INCHES)	.441	.442	.442	.442
		(AC-FT)	45.	45.	45.	45.

CUMULATIVE AREA = 1.92 SQ MI

HYDROGRAPH AT STATION BDE-D1
PLAN 1, RATIO = .57

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0500	76	40.	1		1000	151	0.	1		1500	226	0.
1		0004	2	0.	1		0504	77	33.	1		1004	152	0.	1		1504	227	0.
1		0008	3	0.	1		0508	78	27.	1		1008	153	0.	1		1508	228	0.
1		0012	4	0.	1		0512	79	20.	1		1012	154	0.	1		1512	229	0.
1		0016	5	0.	1		0516	80	14.	1		1016	155	0.	1		1516	230	0.
1		0020	6	0.	1		0520	81	7.	1		1020	156	0.	1		1520	231	0.
1		0024	7	0.	1		0524	82	0.	1		1024	157	0.	1		1524	232	0.
1		0028	8	0.	1		0528	83	0.	1		1028	158	0.	1		1528	233	0.
1		0032	9	0.	1		0532	84	0.	1		1032	159	0.	1		1532	234	0.
1		0036	10	0.	1		0536	85	0.	1		1036	160	0.	1		1536	235	0.
1		0040	11	0.	1		0540	86	0.	1		1040	161	0.	1		1540	236	0.
1		0044	12	0.	1		0544	87	0.	1		1044	162	0.	1		1544	237	0.
1		0048	13	0.	1		0548	88	0.	1		1048	163	0.	1		1548	238	0.
1		0052	14	0.	1		0552	89	0.	1		1052	164	0.	1		1552	239	0.
1		0056	15	0.	1		0556	90	0.	1		1056	165	0.	1		1556	240	0.
1		0100	16	0.	1		0600	91	0.	1		1100	166	0.	1		1600	241	0.
1		0104	17	0.	1		0604	92	0.	1		1104	167	0.	1		1604	242	0.

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0108	18	0.	1		0608	93	0.	1		1108	168	0.	1		1608	243	0.
1		0112	19	0.	1		0612	94	0.	1		1112	169	0.	1		1612	244	0.
1		0116	20	0.	1		0616	95	0.	1		1116	170	0.	1		1616	245	0.
1		0120	21	0.	1		0620	96	0.	1		1120	171	0.	1		1620	246	0.
1		0124	22	0.	1		0624	97	0.	1		1124	172	0.	1		1624	247	0.
1		0128	23	0.	1		0628	98	0.	1		1128	173	0.	1		1628	248	0.
1		0132	24	0.	1		0632	99	0.	1		1132	174	0.	1		1632	249	0.
1		0136	25	0.	1		0636	100	0.	1		1136	175	0.	1		1636	250	0.
1		0140	26	0.	1		0640	101	0.	1		1140	176	0.	1		1640	251	0.
1		0144	27	0.	1		0644	102	0.	1		1144	177	0.	1		1644	252	0.
1		0148	28	0.	1		0648	103	0.	1		1148	178	0.	1		1648	253	0.
1		0152	29	0.	1		0652	104	0.	1		1152	179	0.	1		1652	254	0.
1		0156	30	0.	1		0656	105	0.	1		1156	180	0.	1		1656	255	0.
1		0200	31	0.	1		0700	106	0.	1		1200	181	0.	1		1700	256	0.
1		0204	32	0.	1		0704	107	0.	1		1204	182	0.	1		1704	257	0.
1		0208	33	0.	1		0708	108	0.	1		1208	183	0.	1		1708	258	0.
1		0212	34	0.	1		0712	109	0.	1		1212	184	0.	1		1712	259	0.
1		0216	35	0.	1		0716	110	0.	1		1216	185	0.	1		1716	260	0.
1		0220	36	0.	1		0720	111	0.	1		1220	186	0.	1		1720	261	0.
1		0224	37	0.	1		0724	112	0.	1		1224	187	0.	1		1724	262	0.
1		0228	38	0.	1		0728	113	0.	1		1228	188	0.	1		1728	263	0.
1		0232	39	0.	1		0732	114	0.	1		1232	189	0.	1		1732	264	0.
1		0236	40	0.	1		0736	115	0.	1		1236	190	0.	1		1736	265	0.
1		0240	41	0.	1		0740	116	0.	1		1240	191	0.	1		1740	266	0.
1		0244	42	0.	1		0744	117	0.	1		1244	192	0.	1		1744	267	0.
1		0248	43	0.	1		0748	118	0.	1		1248	193	0.	1		1748	268	0.
1		0252	44	0.	1		0752	119	0.	1		1252	194	0.	1		1752	269	0.
1		0256	45	0.	1		0756	120	0.	1		1256	195	0.	1		1756	270	0.
1		0300	46	0.	1		0800	121	0.	1		1300	196	0.	1		1800	271	0.
1		0304	47	0.	1		0804	122	0.	1		1304	197	0.	1		1804	272	0.
1		0308	48	0.	1		0808	123	0.	1		1308	198	0.	1		1808	273	0.
1		0312	49	0.	1		0812	124	0.	1		1312	199	0.	1		1812	274	0.
1		0316	50	0.	1		0816	125	0.	1		1316	200	0.	1		1816	275	0.
1		0320	51	0.	1		0820	126	0.	1		1320	201	0.	1		1820	276	0.
1		0324	52	0.	1		0824	127	0.	1		1324	202	0.	1		1824	277	0.
1		0328	53	0.	1		0828	128	0.	1		1328	203	0.	1		1828	278	0.
1		0332	54	0.	1		0832	129	0.	1		1332	204	0.	1		1832	279	0.
1		0336	55	0.	1		0836	130	0.	1		1336	205	0.	1		1836	280	0.
1		0340	56	0.	1		0840	131	0.	1		1340	206	0.	1		1840	281	0.
1		0344	57	0.	1		0844	132	0.	1		1344	207	0.	1		1844	282	0.
1		0348	58	0.	1		0848	133	0.	1		1348	208	0.	1		1848	283	0.
1		0352	59	0.	1		0852	134	0.	1		1352	209	0.	1		1852	284	0.
1		0356	60	0.	1		0856	135	0.	1		1356	210	0.	1		1856	285	0.
1		0400	61	0.	1		0900	136	0.	1		1400	211	0.	1		1900	286	0.
1		0404	62	0.	1		0904	137	0.	1		1404	212	0.	1		1904	287	0.
1		0408	63	0.	1		0908	138	0.	1		1408	213	0.	1		1908	288	0.
1		0412	64	2.	1		0912	139	0.	1		1412	214	0.	1		1912	289	0.
1		0416	65	4.	1		0916	140	0.	1		1416	215	0.	1		1916	290	0.
1		0420	66	6.	1		0920	141	0.	1		1420	216	0.	1		1920	291	0.
1		0424	67	11.	1		0924	142	0.	1		1424	217	0.	1		1924	292	0.
1		0428	68	23.	1		0928	143	0.	1		1428	218	0.	1		1928	293	0.
1		0432	69	43.	1		0932	144	0.	1		1432	219	0.	1		1932	294	0.
1		0436	70	69.	1		0936	145	0.	1		1436	220	0.	1		1936	295	0.
1		0440	71	81.	1		0940	146	0.	1		1440	221	0.	1		1940	296	0.
1		0444	72	81.	1		0944	147	0.	1		1444	222	0.	1		1944	297	0.
1		0448	73	75.	1		0948	148	0.	1		1448	223	0.	1		1948	298	0.
1		0452	74	65.	1		0952	149	0.	1		1452	224	0.	1		1952	299	0.
1		0456	75	53.	1		0956	150	0.	1		1456	225	0.	1		1956	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	19.93-HR
(CFS)	(HR)				
		(CFS)			
81.	4.73	7.	2.	2.	2.
		(INCHES) .035	.035	.035	.035
		(AC-FT) 4.	4.	4.	4.

CUMULATIVE AREA = 1.92 SQ MI

DIVERSION HYDROGRAPH BDE-D1
PLAN 1, RATIO = .56

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0500	76	257.	1		1000	151	0.	1		1500	226	0.
1		0004	2	0.	1		0504	77	248.	1		1004	152	0.	1		1504	227	0.
1		0008	3	0.	1		0508	78	238.	1		1008	153	0.	1		1508	228	0.
1		0012	4	0.	1		0512	79	228.	1		1012	154	0.	1		1512	229	0.
1		0016	5	0.	1		0516	80	217.	1		1016	155	0.	1		1516	230	0.
1		0020	6	0.	1		0520	81	206.	1		1020	156	0.	1		1520	231	0.
1		0024	7	0.	1		0524	82	192.	1		1024	157	0.	1		1524	232	0.
1		0028	8	0.	1		0528	83	175.	1		1028	158	0.	1		1528	233	0.
1		0032	9	0.	1		0532	84	160.	1		1032	159	0.	1		1532	234	0.
1		0036	10	0.	1		0536	85	145.	1		1036	160	0.	1		1536	235	0.
1		0040	11	0.	1		0540	86	132.	1		1040	161	0.	1		1540	236	0.
1		0044	12	0.	1		0544	87	123.	1		1044	162	0.	1		1544	237	0.
1		0048	13	0.	1		0548	88	114.	1		1048	163	0.	1		1548	238	0.
1		0052	14	0.	1		0552	89	107.	1		1052	164	0.	1		1552	239	0.
1		0056	15	0.	1		0556	90	100.	1		1056	165	0.	1		1556	240	0.
1		0100	16	0.	1		0600	91	95.	1		1100	166	0.	1		1600	241	0.
1		0104	17	0.	1		0604	92	90.	1		1104	167	0.	1		1604	242	0.
1		0108	18	0.	1		0608	93	85.	1		1108	168	0.	1		1608	243	0.
1		0112	19	0.	1		0612	94	80.	1		1112	169	0.	1		1612	244	0.
1		0116	20	0.	1		0616	95	76.	1		1116	170	0.	1		1616	245	0.
1		0120	21	0.	1		0620	96	73.	1		1120	171	0.	1		1620	246	0.
1		0124	22	0.	1		0624	97	69.	1		1124	172	0.	1		1624	247	0.
1		0128	23	0.	1		0628	98	65.	1		1128	173	0.	1		1628	248	0.
1		0132	24	0.	1		0632	99	61.	1		1132	174	0.	1		1632	249	0.
1		0136	25	0.	1		0636	100	57.	1		1136	175	0.	1		1636	250	0.
1		0140	26	0.	1		0640	101	53.	1		1140	176	0.	1		1640	251	0.
1		0144	27	0.	1		0644	102	49.	1		1144	177	0.	1		1644	252	0.
1		0148	28	0.	1		0648	103	45.	1		1148	178	0.	1		1648	253	0.
1		0152	29	0.	1		0652	104	41.	1		1152	179	0.	1		1652	254	0.
1		0156	30	0.	1		0656	105	37.	1		1156	180	0.	1		1656	255	0.
1		0200	31	0.	1		0700	106	33.	1		1200	181	0.	1		1700	256	0.
1		0204	32	0.	1		0704	107	30.	1		1204	182	0.	1		1704	257	0.
1		0208	33	0.	1		0708	108	28.	1		1208	183	0.	1		1708	258	0.
1		0212	34	0.	1		0712	109	27.	1		1212	184	0.	1		1712	259	0.
1		0216	35	0.	1		0716	110	25.	1		1216	185	0.	1		1716	260	0.
1		0220	36	0.	1		0720	111	24.	1		1220	186	0.	1		1720	261	0.
1		0224	37	0.	1		0724	112	22.	1		1224	187	0.	1		1724	262	0.
1		0228	38	1.	1		0728	113	21.	1		1228	188	0.	1		1728	263	0.
1		0232	39	1.	1		0732	114	20.	1		1232	189	0.	1		1732	264	0.
1		0236	40	1.	1		0736	115	18.	1		1236	190	0.	1		1736	265	0.
1		0240	41	1.	1		0740	116	17.	1		1240	191	0.	1		1740	266	0.
1		0244	42	1.	1		0744	117	15.	1		1244	192	0.	1		1744	267	0.
1		0248	43	2.	1		0748	118	14.	1		1248	193	0.	1		1748	268	0.
1		0252	44	2.	1		0752	119	12.	1		1252	194	0.	1		1752	269	0.
1		0256	45	2.	1		0756	120	11.	1		1256	195	0.	1		1756	270	0.
1		0300	46	3.	1		0800	121	10.	1		1300	196	0.	1		1800	271	0.
1		0304	47	3.	1		0804	122	9.	1		1304	197	0.	1		1804	272	0.
1		0308	48	4.	1		0808	123	8.	1		1308	198	0.	1		1808	273	0.
1		0312	49	5.	1		0812	124	7.	1		1312	199	0.	1		1812	274	0.

1	0316	50	7.	*	1	0816	125	6.	*	1	1316	200	0.	*	1	1816	275	0.
1	0320	51	10.	*	1	0820	126	5.	*	1	1320	201	0.	*	1	1820	276	0.
1	0324	52	15.	*	1	0824	127	4.	*	1	1324	202	0.	*	1	1824	277	0.
1	0328	53	22.	*	1	0828	128	4.	*	1	1328	203	0.	*	1	1828	278	0.
1	0332	54	32.	*	1	0832	129	3.	*	1	1332	204	0.	*	1	1832	279	0.
1	0336	55	44.	*	1	0836	130	3.	*	1	1336	205	0.	*	1	1836	280	0.
1	0340	56	57.	*	1	0840	131	2.	*	1	1340	206	0.	*	1	1840	281	0.
1	0344	57	72.	*	1	0844	132	2.	*	1	1344	207	0.	*	1	1844	282	0.
1	0348	58	90.	*	1	0848	133	2.	*	1	1348	208	0.	*	1	1848	283	0.
1	0352	59	105.	*	1	0852	134	1.	*	1	1352	209	0.	*	1	1852	284	0.
1	0356	60	121.	*	1	0856	135	1.	*	1	1356	210	0.	*	1	1856	285	0.
1	0400	61	143.	*	1	0900	136	1.	*	1	1400	211	0.	*	1	1900	286	0.
1	0404	62	168.	*	1	0904	137	1.	*	1	1404	212	0.	*	1	1904	287	0.
1	0408	63	186.	*	1	0908	138	1.	*	1	1408	213	0.	*	1	1908	288	0.
1	0412	64	197.	*	1	0912	139	1.	*	1	1412	214	0.	*	1	1912	289	0.
1	0416	65	201.	*	1	0916	140	1.	*	1	1416	215	0.	*	1	1916	290	0.
1	0420	66	204.	*	1	0920	141	0.	*	1	1420	216	0.	*	1	1920	291	0.
1	0424	67	210.	*	1	0924	142	0.	*	1	1424	217	0.	*	1	1924	292	0.
1	0428	68	226.	*	1	0928	143	0.	*	1	1428	218	0.	*	1	1928	293	0.
1	0432	69	251.	*	1	0932	144	0.	*	1	1432	219	0.	*	1	1932	294	0.
1	0436	70	265.	*	1	0936	145	0.	*	1	1436	220	0.	*	1	1936	295	0.
1	0440	71	267.	*	1	0940	146	0.	*	1	1440	221	0.	*	1	1940	296	0.
1	0444	72	268.	*	1	0944	147	0.	*	1	1444	222	0.	*	1	1944	297	0.
1	0448	73	267.	*	1	0948	148	0.	*	1	1448	223	0.	*	1	1948	298	0.
1	0452	74	265.	*	1	0952	149	0.	*	1	1452	224	0.	*	1	1952	299	0.
1	0456	75	263.	*	1	0956	150	0.	*	1	1456	225	0.	*	1	1956	300	0.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	19.93-HR
(CFS)	(HR)					
		(CFS)				
268.	4.73		89.	27.	27.	27.
		(INCHES)	.428	.429	.429	.429
		(AC-FT)	44.	44.	44.	44.

CUMULATIVE AREA = 1.92 SQ MI

HYDROGRAPH AT STATION BDE-D1
PLAN 1, RATIO = .56

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0500	76	35.	1		1000	151	0.	1		1500	226	0.
1		0004	2	0.	1		0504	77	29.	1		1004	152	0.	1		1504	227	0.
1		0008	3	0.	1		0508	78	23.	1		1008	153	0.	1		1508	228	0.
1		0012	4	0.	1		0512	79	17.	1		1012	154	0.	1		1512	229	0.
1		0016	5	0.	1		0516	80	10.	1		1016	155	0.	1		1516	230	0.
1		0020	6	0.	1		0520	81	4.	1		1020	156	0.	1		1520	231	0.
1		0024	7	0.	1		0524	82	0.	1		1024	157	0.	1		1524	232	0.
1		0028	8	0.	1		0528	83	0.	1		1028	158	0.	1		1528	233	0.
1		0032	9	0.	1		0532	84	0.	1		1032	159	0.	1		1532	234	0.
1		0036	10	0.	1		0536	85	0.	1		1036	160	0.	1		1536	235	0.
1		0040	11	0.	1		0540	86	0.	1		1040	161	0.	1		1540	236	0.
1		0044	12	0.	1		0544	87	0.	1		1044	162	0.	1		1544	237	0.
1		0048	13	0.	1		0548	88	0.	1		1048	163	0.	1		1548	238	0.
1		0052	14	0.	1		0552	89	0.	1		1052	164	0.	1		1552	239	0.
1		0056	15	0.	1		0556	90	0.	1		1056	165	0.	1		1556	240	0.
1		0100	16	0.	1		0600	91	0.	1		1100	166	0.	1		1600	241	0.
1		0104	17	0.	1		0604	92	0.	1		1104	167	0.	1		1604	242	0.
1		0108	18	0.	1		0608	93	0.	1		1108	168	0.	1		1608	243	0.
1		0112	19	0.	1		0612	94	0.	1		1112	169	0.	1		1612	244	0.
1		0116	20	0.	1		0616	95	0.	1		1116	170	0.	1		1616	245	0.
1		0120	21	0.	1		0620	96	0.	1		1120	171	0.	1		1620	246	0.
1		0124	22	0.	1		0624	97	0.	1		1124	172	0.	1		1624	247	0.
1		0128	23	0.	1		0628	98	0.	1		1128	173	0.	1		1628	248	0.
1		0132	24	0.	1		0632	99	0.	1		1132	174	0.	1		1632	249	0.
1		0136	25	0.	1		0636	100	0.	1		1136	175	0.	1		1636	250	0.
1		0140	26	0.	1		0640	101	0.	1		1140	176	0.	1		1640	251	0.
1		0144	27	0.	1		0644	102	0.	1		1144	177	0.	1		1644	252	0.
1		0148	28	0.	1		0648	103	0.	1		1148	178	0.	1		1648	253	0.
1		0152	29	0.	1		0652	104	0.	1		1152	179	0.	1		1652	254	0.
1		0156	30	0.	1		0656	105	0.	1		1156	180	0.	1		1656	255	0.
1		0200	31	0.	1		0700	106	0.	1		1200	181	0.	1		1700	256	0.
1		0204	32	0.	1		0704	107	0.	1		1204	182	0.	1		1704	257	0.
1		0208	33	0.	1		0708	108	0.	1		1208	183	0.	1		1708	258	0.
1		0212	34	0.	1		0712	109	0.	1		1212	184	0.	1		1712	259	0.
1		0216	35	0.	1		0716	110	0.	1		1216	185	0.	1		1716	260	0.
1		0220	36	0.	1		0720	111	0.	1		1220	186	0.	1		1720	261	0.
1		0224	37	0.	1		0724	112	0.	1		1224	187	0.	1		1724	262	0.
1		0228	38	0.	1		0728	113	0.	1		1228	188	0.	1		1728	263	0.
1		0232	39	0.	1		0732	114	0.	1		1232	189	0.	1		1732	264	0.
1		0236	40	0.	1		0736	115	0.	1		1236	190	0.	1		1736	265	0.
1		0240	41	0.	1		0740	116	0.	1		1240	191	0.	1		1740	266	0.
1		0244	42	0.	1		0744	117	0.	1		1244	192	0.	1		1744	267	0.
1		0248	43	0.	1		0748	118	0.	1		1248	193	0.	1		1748	268	0.
1		0252	44	0.	1		0752	119	0.	1		1252	194	0.	1		1752	269	0.
1		0256	45	0.	1		0756	120	0.	1		1256	195	0.	1		1756	270	0.
1		0300	46	0.	1		0800	121	0.	1		1300	196	0.	1		1800	271	0.
1		0304	47	0.	1		0804	122	0.	1		1304	197	0.	1		1804	272	0.
1		0308	48	0.	1		0808	123	0.	1		1308	198	0.	1		1808	273	0.
1		0312	49	0.	1		0812	124	0.	1		1312	199	0.	1		1812	274	0.
1		0316	50	0.	1		0816	125	0.	1		1316	200	0.	1		1816	275	0.
1		0320	51	0.	1		0820	126	0.	1		1320	201	0.	1		1820	276	0.
1		0324	52	0.	1		0824	127	0.	1		1324	202	0.	1		1824	277	0.
1		0328	53	0.	1		0828	128	0.	1		1328	203	0.	1		1828	278	0.
1		0332	54	0.	1		0832	129	0.	1		1332	204	0.	1		1832	279	0.
1		0336	55	0.	1		0836	130	0.	1		1336	205	0.	1		1836	280	0.
1		0340	56	0.	1		0840	131	0.	1		1340	206	0.	1		1840	281	0.
1		0344	57	0.	1		0844	132	0.	1		1344	207	0.	1		1844	282	0.
1		0348	58	0.	1		0848	133	0.	1		1348	208	0.	1		1848	283	0.
1		0352	59	0.	1		0852	134	0.	1		1352	209	0.	1		1852	284	0.
1		0356	60	0.	1		0856	135	0.	1		1356	210	0.	1		1856	285	0.
1		0400	61	0.	1		0900	136	0.	1		1400	211	0.	1		1900	286	0.
1		0404	62	0.	1		0904	137	0.	1		1404	212	0.	1		1904	287	0.
1		0408	63	0.	1		0908	138	0.	1		1408	213	0.	1		1908	288	0.
1		0412	64	0.	1		0912	139	0.	1		1412	214	0.	1		1912	289	0.
1		0416	65	1.	1		0916	140	0.	1		1416	215	0.	1		1916	290	0.
1		0420	66	2.	1		0920	141	0.	1		1420	216	0.	1		1920	291	0.
1		0424	67	6.	1		0924	142	0.	1		1424	217	0.	1		1924	292	0.
1		0428	68	16.	1		0928	143	0.	1		1428	218	0.	1		1928	293	0.
1		0432	69	31.	1		0932	144	0.	1		1432	219	0.	1		1932	294	0.
1		0436	70	52.	1		0936	145	0.	1		1436	220	0.	1		1936	295	0.
1		0440	71	65.	1		0940	146	0.	1		1440	221	0.	1		1940	296	0.
1		0444	72	67.	1		0944	147	0.	1		1444	222	0.	1		1944	297	0.
1		0448	73	63.	1		0948	148	0.	1		1448	223	0.	1		1948	298	0.
1		0452	74	54.	1		0952	149	0.	1		1452	224	0.	1		1952	299	0.
1		0456	75	43.	1		0956	150	0.	1		1456	225	0.	1		1956	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	19.93-HR
(CFS)	(HR)				

		(CFS)				
+ 67.	4.73		6.	2.	2.	2.
		(INCHES)	.028	.028	.028	.028
		(AC-FT)	3.	3.	3.	3.

CUMULATIVE AREA = 1.92 SQ MI

DIVERSION HYDROGRAPH BDE-D1
PLAN 1, RATIO = .55

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0500	76	250.	1		1000	151	0.	1		1500	226	0.
1		0004	2	0.	1		0504	77	242.	1		1004	152	0.	1		1504	227	0.
1		0008	3	0.	1		0508	78	232.	1		1008	153	0.	1		1508	228	0.
1		0012	4	0.	1		0512	79	222.	1		1012	154	0.	1		1512	229	0.
1		0016	5	0.	1		0516	80	211.	1		1016	155	0.	1		1516	230	0.
1		0020	6	0.	1		0520	81	200.	1		1020	156	0.	1		1520	231	0.
1		0024	7	0.	1		0524	82	183.	1		1024	157	0.	1		1524	232	0.
1		0028	8	0.	1		0528	83	167.	1		1028	158	0.	1		1528	233	0.
1		0032	9	0.	1		0532	84	152.	1		1032	159	0.	1		1532	234	0.
1		0036	10	0.	1		0536	85	138.	1		1036	160	0.	1		1536	235	0.
1		0040	11	0.	1		0540	86	127.	1		1040	161	0.	1		1540	236	0.
1		0044	12	0.	1		0544	87	119.	1		1044	162	0.	1		1544	237	0.
1		0048	13	0.	1		0548	88	111.	1		1048	163	0.	1		1548	238	0.
1		0052	14	0.	1		0552	89	104.	1		1052	164	0.	1		1552	239	0.
1		0056	15	0.	1		0556	90	98.	1		1056	165	0.	1		1556	240	0.
1		0100	16	0.	1		0600	91	93.	1		1100	166	0.	1		1600	241	0.
1		0104	17	0.	1		0604	92	88.	1		1104	167	0.	1		1604	242	0.
1		0108	18	0.	1		0608	93	83.	1		1108	168	0.	1		1608	243	0.
1		0112	19	0.	1		0612	94	79.	1		1112	169	0.	1		1612	244	0.
1		0116	20	0.	1		0616	95	75.	1		1116	170	0.	1		1616	245	0.
1		0120	21	0.	1		0620	96	71.	1		1120	171	0.	1		1620	246	0.
1		0124	22	0.	1		0624	97	68.	1		1124	172	0.	1		1624	247	0.
1		0128	23	0.	1		0628	98	64.	1		1128	173	0.	1		1628	248	0.
1		0132	24	0.	1		0632	99	60.	1		1132	174	0.	1		1632	249	0.
1		0136	25	0.	1		0636	100	56.	1		1136	175	0.	1		1636	250	0.
1		0140	26	0.	1		0640	101	52.	1		1140	176	0.	1		1640	251	0.
1		0144	27	0.	1		0644	102	48.	1		1144	177	0.	1		1644	252	0.
1		0148	28	0.	1		0648	103	44.	1		1148	178	0.	1		1648	253	0.
1		0152	29	0.	1		0652	104	40.	1		1152	179	0.	1		1652	254	0.
1		0156	30	0.	1		0656	105	36.	1		1156	180	0.	1		1656	255	0.
1		0200	31	0.	1		0700	106	32.	1		1200	181	0.	1		1700	256	0.
1		0204	32	0.	1		0704	107	29.	1		1204	182	0.	1		1704	257	0.
1		0208	33	0.	1		0708	108	28.	1		1208	183	0.	1		1708	258	0.
1		0212	34	0.	1		0712	109	26.	1		1212	184	0.	1		1712	259	0.
1		0216	35	0.	1		0716	110	25.	1		1216	185	0.	1		1716	260	0.
1		0220	36	0.	1		0720	111	24.	1		1220	186	0.	1		1720	261	0.
1		0224	37	0.	1		0724	112	22.	1		1224	187	0.	1		1724	262	0.
1		0228	38	1.	1		0728	113	21.	1		1228	188	0.	1		1728	263	0.
1		0232	39	1.	1		0732	114	19.	1		1232	189	0.	1		1732	264	0.
1		0236	40	1.	1		0736	115	18.	1		1236	190	0.	1		1736	265	0.
1		0240	41	1.	1		0740	116	16.	1		1240	191	0.	1		1740	266	0.
1		0244	42	1.	1		0744	117	15.	1		1244	192	0.	1		1744	267	0.
1		0248	43	2.	1		0748	118	13.	1		1248	193	0.	1		1748	268	0.
1		0252	44	2.	1		0752	119	12.	*1		1252	194	0.	1		1752	269	0.
1		0256	45	2.	1		0756	120	11.	1		1256	195	0.	1		1756	270	0.
1		0300	46	2.	1		0800	121	10.	1		1300	196	0.	1		1800	271	0.
1		0304	47	3.	1		0804	122	8.	1		1304	197	0.	1		1804	272	0.
1		0308	48	3.	1		0808	123	7.	1		1308	198	0.	1		1808	273	0.
1		0312	49	4.	1		0812	124	7.	1		1312	199	0.	1		1812	274	0.
1		0316	50	6.	1		0816	125	6.	1		1316	200	0.	1		1816	275	0.
1		0320	51	9.	1		0820	126	5.	1		1320	201	0.	1		1820	276	0.
1		0324	52	14.	1		0824	127	4.	1		1324	202	0.	1		1824	277	0.
1		0328	53	21.	1		0828	128	4.	1		1328	203	0.	1		1828	278	0.
1		0332	54	31.	1		0832	129	3.	1		1332	204	0.	1		1832	279	0.
1		0336	55	42.	1		0836	130	3.	1		1336	205	0.	1		1836	280	0.
1		0340	56	55.	1		0840	131	2.	1		1340	206	0.	1		1840	281	0.
1		0344	57	68.	1		0844	132	2.	1		1344	207	0.	1		1844	282	0.
1		0348	58	85.	1		0848	133	2.	1		1348	208	0.	1		1848	283	0.
1		0352	59	100.	1		0852	134	1.	1		1352	209	0.	1		1852	284	0.
1		0356	60	115.	1		0856	135	1.	1		1356	210	0.	1		1856	285	0.
1		0400	61	134.	1		0900	136	1.	1		1400	211	0.	1		1900	286	0.
1		0404	62	158.	1		0904	137	1.	1		1404	212	0.	1		1904	287	0.
1		0408	63	177.	1		0908	138	1.	1		1408	213	0.	1		1908	288	0.
1		0412	64	188.	1		0912	139	1.	1		1412	214	0.	1		1912	289	0.
1		0416	65	194.	1		0916	140	1.	1		1416	215	0.	1		1916	290	0.
1		0420	66	197.	1		0920	141	0.	1		1420	216	0.	1		1920	291	0.
1		0424	67	203.	1		0924	142	0.	1		1424	217	0.	1		1924	292	0.
1		0428	68	214.	1		0928	143	0.	1		1428	218	0.	1		1928	293	0.
1		0432	69	237.	1		0932	144	0.	1		1432	219	0.	1		1932	294	0.
1		0436	70	259.	1		0936	145	0.	1		1436	220	0.	1		1936	295	0.
1		0440	71	264.	1		0940	146	0.	1		1440	221	0.	1		1940	296	0.
1		0444	72	265.	1		0944	147	0.	1		1444	222	0.	1		1944	297	0.
1		0448	73	264.	1		0948	148	0.	1		1448	223	0.	1		1948	298	0.
1		0452	74	263.	1		0952	149	0.	1		1452	224	0.	1		1952	299	0.
1		0456	75	259.	1		0956	150	0.	1		1456	225	0.	1		1956	300	0.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	19.93-HR
+ (CFS)	(HR)					
		(CFS)				
+ 265.	4.73		86.	26.	26.	26.
		(INCHES)	.415	.416	.416	.416
		(AC-FT)	43.	43.	43.	43.

CUMULATIVE AREA = 1.92 SQ MI

HYDROGRAPH AT STATION BDE-D1
PLAN 1, RATIO = .55

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0500	76	31.	1		1000	151	0.	1		1500	226	0.
1		0004	2	0.	1		0504	77	26.	1		1004	152	0.	1		1504	227	0.
1		0008	3	0.	1		0508	78	20.	1		1008	153	0.	1		1508	228	0.
1		0012	4	0.	1		0512	79	14.	1		1012	154	0.	1		1512	229	0.
1		0016	5	0.	1		0516	80	7.	1		1016	155	0.	1		1516	230	0.
1		0020	6	0.	1		0520	81	0.	1		1020	156	0.	1		1520	231	0.
1		0024	7	0.	1		0524	82	0.	1		1024	157	0.	1		1524	232	0.
1		0028	8	0.	1		0528	83	0.	1		1028	158	0.	1		1528	233	0.
1		0032	9	0.	1		0532	84	0.	1		1032	159	0.	1		1532	234	0.
1		0036	10	0.	1		0536	85	0.	1		1036	160	0.	1		1536	235	0.
1		0040	11	0.	1		0540	86	0.	1		1040	161	0.	1		1540	236	0.
1		0044	12	0.	1		0544	87	0.	1		1044	162	0.	1		1544	237	0.
1		0048	13	0.	1		0548	88	0.	1		1048	163	0.	1		1548	238	0.
1		0052	14	0.	1		0552	89	0.	1		1052	164	0.	1		1552	239	0.
1		0056	15	0.	1		0556	90	0.	1		1056	165	0.	1		1556	240	0.

1	0100	16	0.	*	1	0600	91	0.	*	1	1100	166	0.	*	1	1600	241	0.
1	0104	17	0.	*	1	0604	92	0.	*	1	1104	167	0.	*	1	1604	242	0.
1	0108	18	0.	*	1	0608	93	0.	*	1	1108	168	0.	*	1	1608	243	0.
1	0112	19	0.	*	1	0612	94	0.	*	1	1112	169	0.	*	1	1612	244	0.
1	0116	20	0.	*	1	0616	95	0.	*	1	1116	170	0.	*	1	1616	245	0.
1	0120	21	0.	*	1	0620	96	0.	*	1	1120	171	0.	*	1	1620	246	0.
1	0124	22	0.	*	1	0624	97	0.	*	1	1124	172	0.	*	1	1624	247	0.
1	0128	23	0.	*	1	0628	98	0.	*	1	1128	173	0.	*	1	1628	248	0.
1	0132	24	0.	*	1	0632	99	0.	*	1	1132	174	0.	*	1	1632	249	0.
1	0136	25	0.	*	1	0636	100	0.	*	1	1136	175	0.	*	1	1636	250	0.
1	0140	26	0.	*	1	0640	101	0.	*	1	1140	176	0.	*	1	1640	251	0.
1	0144	27	0.	*	1	0644	102	0.	*	1	1144	177	0.	*	1	1644	252	0.
1	0148	28	0.	*	1	0648	103	0.	*	1	1148	178	0.	*	1	1648	253	0.
1	0152	29	0.	*	1	0652	104	0.	*	1	1152	179	0.	*	1	1652	254	0.
1	0156	30	0.	*	1	0656	105	0.	*	1	1156	180	0.	*	1	1656	255	0.
1	0200	31	0.	*	1	0700	106	0.	*	1	1200	181	0.	*	1	1700	256	0.
1	0204	32	0.	*	1	0704	107	0.	*	1	1204	182	0.	*	1	1704	257	0.
1	0208	33	0.	*	1	0708	108	0.	*	1	1208	183	0.	*	1	1708	258	0.
1	0212	34	0.	*	1	0712	109	0.	*	1	1212	184	0.	*	1	1712	259	0.
1	0216	35	0.	*	1	0716	110	0.	*	1	1216	185	0.	*	1	1716	260	0.
1	0220	36	0.	*	1	0720	111	0.	*	1	1220	186	0.	*	1	1720	261	0.
1	0224	37	0.	*	1	0724	112	0.	*	1	1224	187	0.	*	1	1724	262	0.
1	0228	38	0.	*	1	0728	113	0.	*	1	1228	188	0.	*	1	1728	263	0.
1	0232	39	0.	*	1	0732	114	0.	*	1	1232	189	0.	*	1	1732	264	0.
1	0236	40	0.	*	1	0736	115	0.	*	1	1236	190	0.	*	1	1736	265	0.
1	0240	41	0.	*	1	0740	116	0.	*	1	1240	191	0.	*	1	1740	266	0.
1	0244	42	0.	*	1	0744	117	0.	*	1	1244	192	0.	*	1	1744	267	0.
1	0248	43	0.	*	1	0748	118	0.	*	1	1248	193	0.	*	1	1748	268	0.
1	0252	44	0.	*	1	0752	119	0.	*	1	1252	194	0.	*	1	1752	269	0.
1	0256	45	0.	*	1	0756	120	0.	*	1	1256	195	0.	*	1	1756	270	0.
1	0300	46	0.	*	1	0800	121	0.	*	1	1300	196	0.	*	1	1800	271	0.
1	0304	47	0.	*	1	0804	122	0.	*	1	1304	197	0.	*	1	1804	272	0.
1	0308	48	0.	*	1	0808	123	0.	*	1	1308	198	0.	*	1	1808	273	0.
1	0312	49	0.	*	1	0812	124	0.	*	1	1312	199	0.	*	1	1812	274	0.
1	0316	50	0.	*	1	0816	125	0.	*	1	1316	200	0.	*	1	1816	275	0.
1	0320	51	0.	*	1	0820	126	0.	*	1	1320	201	0.	*	1	1820	276	0.
1	0324	52	0.	*	1	0824	127	0.	*	1	1324	202	0.	*	1	1824	277	0.
1	0328	53	0.	*	1	0828	128	0.	*	1	1328	203	0.	*	1	1828	278	0.
1	0332	54	0.	*	1	0832	129	0.	*	1	1332	204	0.	*	1	1832	279	0.
1	0336	55	0.	*	1	0836	130	0.	*	1	1336	205	0.	*	1	1836	280	0.
1	0340	56	0.	*	1	0840	131	0.	*	1	1340	206	0.	*	1	1840	281	0.
1	0344	57	0.	*	1	0844	132	0.	*	1	1344	207	0.	*	1	1844	282	0.
1	0348	58	0.	*	1	0848	133	0.	*	1	1348	208	0.	*	1	1848	283	0.
1	0352	59	0.	*	1	0852	134	0.	*	1	1352	209	0.	*	1	1852	284	0.
1	0356	60	0.	*	1	0856	135	0.	*	1	1356	210	0.	*	1	1856	285	0.
1	0400	61	0.	*	1	0900	136	0.	*	1	1400	211	0.	*	1	1900	286	0.
1	0404	62	0.	*	1	0904	137	0.	*	1	1404	212	0.	*	1	1904	287	0.
1	0408	63	0.	*	1	0908	138	0.	*	1	1408	213	0.	*	1	1908	288	0.
1	0412	64	0.	*	1	0912	139	0.	*	1	1412	214	0.	*	1	1912	289	0.
1	0416	65	0.	*	1	0916	140	0.	*	1	1416	215	0.	*	1	1916	290	0.
1	0420	66	0.	*	1	0920	141	0.	*	1	1420	216	0.	*	1	1920	291	0.
1	0424	67	2.	*	1	0924	142	0.	*	1	1424	217	0.	*	1	1924	292	0.
1	0428	68	9.	*	1	0928	143	0.	*	1	1428	218	0.	*	1	1928	293	0.
1	0432	69	23.	*	1	0932	144	0.	*	1	1432	219	0.	*	1	1932	294	0.
1	0436	70	36.	*	1	0936	145	0.	*	1	1436	220	0.	*	1	1936	295	0.
1	0440	71	49.	*	1	0940	146	0.	*	1	1440	221	0.	*	1	1940	296	0.
1	0444	72	53.	*	1	0944	147	0.	*	1	1444	222	0.	*	1	1944	297	0.
1	0448	73	50.	*	1	0948	148	0.	*	1	1448	223	0.	*	1	1948	298	0.
1	0452	74	43.	*	1	0952	149	0.	*	1	1452	224	0.	*	1	1952	299	0.
1	0456	75	36.	*	1	0956	150	0.	*	1	1456	225	0.	*	1	1956	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	19.93-HR
(CFS)	(HR)				
		(CFS)			
53.	4.73	4.	1.	1.	1.
		(INCHES) .021	.021	.021	.021
		(AC-FT) 2.	2.	2.	2.

CUMULATIVE AREA = 1.92 SQ MI

DIVERSION HYDROGRAPH BDE-D1
PLAN 1, RATIO = .54

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0500	76	244.	1		1000	151	0.	1		1500	226	0.
1		0004	2	0.	1		0504	77	236.	1		1004	152	0.	1		1504	227	0.
1		0008	3	0.	1		0508	78	226.	1		1008	153	0.	1		1508	228	0.
1		0012	4	0.	1		0512	79	216.	1		1012	154	0.	1		1512	229	0.
1		0016	5	0.	1		0516	80	205.	1		1016	155	0.	1		1516	230	0.
1		0020	6	0.	1		0520	81	191.	1		1020	156	0.	1		1520	231	0.
1		0024	7	0.	1		0524	82	174.	1		1024	157	0.	1		1524	232	0.
1		0028	8	0.	1		0528	83	159.	1		1028	158	0.	1		1528	233	0.
1		0032	9	0.	1		0532	84	144.	1		1032	159	0.	1		1532	234	0.
1		0036	10	0.	1		0536	85	132.	1		1036	160	0.	1		1536	235	0.
1		0040	11	0.	1		0540	86	123.	1		1040	161	0.	1		1540	236	0.
1		0044	12	0.	1		0544	87	115.	1		1044	162	0.	1		1544	237	0.
1		0048	13	0.	1		0548	88	108.	1		1048	163	0.	1		1548	238	0.
1		0052	14	0.	1		0552	89	101.	1		1052	164	0.	1		1552	239	0.
1		0056	15	0.	1		0556	90	95.	1		1056	165	0.	1		1556	240	0.
1		0100	16	0.	1		0600	91	91.	1		1100	166	0.	1		1600	241	0.
1		0104	17	0.	1		0604	92	86.	1		1104	167	0.	1		1604	242	0.
1		0108	18	0.	1		0608	93	82.	1		1108	168	0.	1		1608	243	0.
1		0112	19	0.	1		0612	94	78.	1		1112	169	0.	1		1612	244	0.
1		0116	20	0.	1		0616	95	74.	1		1116	170	0.	1		1616	245	0.
1		0120	21	0.	1		0620	96	70.	1		1120	171	0.	1		1620	246	0.
1		0124	22	0.	1		0624	97	67.	1		1124	172	0.	1		1624	247	0.
1		0128	23	0.	1		0628	98	63.	1		1128	173	0.	1		1628	248	0.
1		0132	24	0.	1		0632	99	59.	1		1132	174	0.	1		1632	249	0.
1		0136	25	0.	1		0636	100	55.	1		1136	175	0.	1		1636	250	0.
1		0140	26	0.	1		0640	101	51.	1		1140	176	0.	1		1640	251	0.
1		0144	27	0.	1		0644	102	47.	1		1144	177	0.	1		1644	252	0.
1		0148	28	0.	1		0648	103	43.	1		1148	178	0.	1		1648	253	0.
1		0152	29	0.	1		0652	104	39.	1		1152	179	0.	1		1652	254	0.
1		0156	30	0.	1		0656	105	35.	1		1156	180	0.	1		1656	255	0.
1		0200	31	0.	1		0700	106	31.	1		1200	181	0.	1		1700	256	0.
1		0204	32	0.	1		0704	107	29.	1		1204	182	0.	1		1704	257	0.
1		0208	33	0.	1		0708	108	27.	1		1208	183	0.	1		1708	258	0.
1		0212	34	0.	1		0712	109	26.	1		1212	184	0.	1		1712	259	0.
1		0216	35	0.	1		0716	110	25.	1		1216	185	0.	1		1716	260	0.
1		0220	36	0.	1		0720	111	23.	1		1220	186	0.	1		1720	261	0.
1		0224	37	0.	1		0724	112	22.	1		1224	187	0.	1		1724	262	0.
1		0228	38	0.	1		0728	113	20.	1		1228	188	0.	1		1728	263	0.
1		0232	39	1.	1		0732	114	19.	1		1232	189	0.	1		1732	264	0.
1		0236	40	1.	1		0736	115	18.	1		1236	190	0.	1		1736	265	0.
1		0240	41	1.	1		0740	116	16.	1		1240	191	0.	1		1740	266	0.
1		0244	42	1.	1		0744	117	15.	1		1244	192	0.	1		1744	267	0.
1		0248	43	1.	1		0748	118	13.	1		1248	193	0.	1		1748	268	0.
1		0252	44	2.	1		0752	119	12.	1		1252	194	0.	1		1752	269	0.
1		0256	45	2.	1		0756	120	11.	1		1256	195	0.	1		1756	270	0.
1		0300	46	2.	1		0800	121	9.	1		1300	196	0.	1		1800	271	0.
1		0304	47	2.	1		0804	122	8.	1		1304	197	0.	1		1804	272	0.

1	0308	48	3.	*	1	0808	123	7.	*	1	1308	198	0.	*	1	1808	273	0.
1	0312	49	4.	*	1	0812	124	6.	*	1	1312	199	0.	*	1	1812	274	0.
1	0316	50	6.	*	1	0816	125	6.	*	1	1316	200	0.	*	1	1816	275	0.
1	0320	51	8.	*	1	0820	126	5.	*	1	1320	201	0.	*	1	1820	276	0.
1	0324	52	13.	*	1	0824	127	4.	*	1	1324	202	0.	*	1	1824	277	0.
1	0328	53	20.	*	1	0828	128	4.	*	1	1328	203	0.	*	1	1828	278	0.
1	0332	54	29.	*	1	0832	129	3.	*	1	1332	204	0.	*	1	1832	279	0.
1	0336	55	40.	*	1	0836	130	3.	*	1	1336	205	0.	*	1	1836	280	0.
1	0340	56	52.	*	1	0840	131	2.	*	1	1340	206	0.	*	1	1840	281	0.
1	0344	57	65.	*	1	0844	132	2.	*	1	1344	207	0.	*	1	1844	282	0.
1	0348	58	80.	*	1	0848	133	2.	*	1	1348	208	0.	*	1	1848	283	0.
1	0352	59	95.	*	1	0852	134	1.	*	1	1352	209	0.	*	1	1852	284	0.
1	0356	60	109.	*	1	0856	135	1.	*	1	1356	210	0.	*	1	1856	285	0.
1	0400	61	126.	*	1	0900	136	1.	*	1	1400	211	0.	*	1	1900	286	0.
1	0404	62	149.	*	1	0904	137	1.	*	1	1404	212	0.	*	1	1904	287	0.
1	0408	63	168.	*	1	0908	138	1.	*	1	1408	213	0.	*	1	1908	288	0.
1	0412	64	179.	*	1	0912	139	1.	*	1	1412	214	0.	*	1	1912	289	0.
1	0416	65	186.	*	1	0916	140	1.	*	1	1416	215	0.	*	1	1916	290	0.
1	0420	66	189.	*	1	0920	141	0.	*	1	1420	216	0.	*	1	1920	291	0.
1	0424	67	194.	*	1	0924	142	0.	*	1	1424	217	0.	*	1	1924	292	0.
1	0428	68	205.	*	1	0928	143	0.	*	1	1428	218	0.	*	1	1928	293	0.
1	0432	69	225.	*	1	0932	144	0.	*	1	1432	219	0.	*	1	1932	294	0.
1	0436	70	246.	*	1	0936	145	0.	*	1	1436	220	0.	*	1	1936	295	0.
1	0440	71	259.	*	1	0940	146	0.	*	1	1440	221	0.	*	1	1940	296	0.
1	0444	72	262.	*	1	0944	147	0.	*	1	1444	222	0.	*	1	1944	297	0.
1	0448	73	262.	*	1	0948	148	0.	*	1	1448	223	0.	*	1	1948	298	0.
1	0452	74	257.	*	1	0952	149	0.	*	1	1452	224	0.	*	1	1952	299	0.
1	0456	75	251.	*	1	0956	150	0.	*	1	1456	225	0.	*	1	1956	300	0.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	19.93-HR
(CFS)	(HR)					
		(CFS)				
262.	4.73		83.	25.	25.	25.
		(INCHES)	.401	.402	.402	.402
		(AC-FT)	41.	41.	41.	41.

CUMULATIVE AREA = 1.92 SQ MI

HYDROGRAPH AT STATION BDE-D1
PLAN 1, RATIO = .54

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		0500	76	27.	*	1		1000	151	0.	*	1		1500	226	0.
1		0004	2	0.	*	1		0504	77	22.	*	1		1004	152	0.	*	1		1504	227	0.
1		0008	3	0.	*	1		0508	78	16.	*	1		1008	153	0.	*	1		1508	228	0.
1		0012	4	0.	*	1		0512	79	10.	*	1		1012	154	0.	*	1		1512	229	0.
1		0016	5	0.	*	1		0516	80	3.	*	1		1016	155	0.	*	1		1516	230	0.
1		0020	6	0.	*	1		0520	81	0.	*	1		1020	156	0.	*	1		1520	231	0.
1		0024	7	0.	*	1		0524	82	0.	*	1		1024	157	0.	*	1		1524	232	0.
1		0028	8	0.	*	1		0528	83	0.	*	1		1028	158	0.	*	1		1528	233	0.
1		0032	9	0.	*	1		0532	84	0.	*	1		1032	159	0.	*	1		1532	234	0.
1		0036	10	0.	*	1		0536	85	0.	*	1		1036	160	0.	*	1		1536	235	0.
1		0040	11	0.	*	1		0540	86	0.	*	1		1040	161	0.	*	1		1540	236	0.
1		0044	12	0.	*	1		0544	87	0.	*	1		1044	162	0.	*	1		1544	237	0.
1		0048	13	0.	*	1		0548	88	0.	*	1		1048	163	0.	*	1		1548	238	0.
1		0052	14	0.	*	1		0552	89	0.	*	1		1052	164	0.	*	1		1552	239	0.
1		0056	15	0.	*	1		0556	90	0.	*	1		1056	165	0.	*	1		1556	240	0.
1		0100	16	0.	*	1		0600	91	0.	*	1		1100	166	0.	*	1		1600	241	0.
1		0104	17	0.	*	1		0604	92	0.	*	1		1104	167	0.	*	1		1604	242	0.
1		0108	18	0.	*	1		0608	93	0.	*	1		1108	168	0.	*	1		1608	243	0.
1		0112	19	0.	*	1		0612	94	0.	*	1		1112	169	0.	*	1		1612	244	0.
1		0116	20	0.	*	1		0616	95	0.	*	1		1116	170	0.	*	1		1616	245	0.
1		0120	21	0.	*	1		0620	96	0.	*	1		1120	171	0.	*	1		1620	246	0.
1		0124	22	0.	*	1		0624	97	0.	*	1		1124	172	0.	*	1		1624	247	0.
1		0128	23	0.	*	1		0628	98	0.	*	1		1128	173	0.	*	1		1628	248	0.
1		0132	24	0.	*	1		0632	99	0.	*	1		1132	174	0.	*	1		1632	249	0.
1		0136	25	0.	*	1		0636	100	0.	*	1		1136	175	0.	*	1		1636	250	0.
1		0140	26	0.	*	1		0640	101	0.	*	1		1140	176	0.	*	1		1640	251	0.
1		0144	27	0.	*	1		0644	102	0.	*	1		1144	177	0.	*	1		1644	252	0.
1		0148	28	0.	*	1		0648	103	0.	*	1		1148	178	0.	*	1		1648	253	0.
1		0152	29	0.	*	1		0652	104	0.	*	1		1152	179	0.	*	1		1652	254	0.
1		0156	30	0.	*	1		0656	105	0.	*	1		1156	180	0.	*	1		1656	255	0.
1		0200	31	0.	*	1		0700	106	0.	*	1		1200	181	0.	*	1		1700	256	0.
1		0204	32	0.	*	1		0704	107	0.	*	1		1204	182	0.	*	1		1704	257	0.
1		0208	33	0.	*	1		0708	108	0.	*	1		1208	183	0.	*	1		1708	258	0.
1		0212	34	0.	*	1		0712	109	0.	*	1		1212	184	0.	*	1		1712	259	0.
1		0216	35	0.	*	1		0716	110	0.	*	1		1216	185	0.	*	1		1716	260	0.
1		0220	36	0.	*	1		0720	111	0.	*	1		1220	186	0.	*	1		1720	261	0.
1		0224	37	0.	*	1		0724	112	0.	*	1		1224	187	0.	*	1		1724	262	0.
1		0228	38	0.	*	1		0728	113	0.	*	1		1228	188	0.	*	1		1728	263	0.
1		0232	39	0.	*	1		0732	114	0.	*	1		1232	189	0.	*	1		1732	264	0.
1		0236	40	0.	*	1		0736	115	0.	*	1		1236	190	0.	*	1		1736	265	0.
1		0240	41	0.	*	1		0740	116	0.	*	1		1240	191	0.	*	1		1740	266	0.
1		0244	42	0.	*	1		0744	117	0.	*	1		1244	192	0.	*	1		1744	267	0.
1		0248	43	0.	*	1		0748	118	0.	*	1		1248	193	0.	*	1		1748	268	0.
1		0252	44	0.	*	1		0752	119	0.	*	1		1252	194	0.	*	1		1752	269	0.
1		0256	45	0.	*	1		0756	120	0.	*	1		1256	195	0.	*	1		1756	270	0.
1		0300	46	0.	*	1		0800	121	0.	*	1		1300	196	0.	*	1		1800	271	0.
1		0304	47	0.	*	1		0804	122	0.	*	1		1304	197	0.	*	1		1804	272	0.
1		0308	48	0.	*	1		0808	123	0.	*	1		1308	198	0.	*	1		1808	273	0.
1		0312	49	0.	*	1		0812	124	0.	*	1		1312	199	0.	*	1		1812	274	0.
1		0316	50	0.	*	1		0816	125	0.	*	1		1316	200	0.	*	1		1816	275	0.
1		0320	51	0.	*	1		0820	126	0.	*	1		1320	201	0.	*	1		1820	276	0.
1		0324	52	0.	*	1		0824	127	0.	*	1		1324	202	0.	*	1		1824	277	0.
1		0328	53	0.	*	1		0828	128	0.	*	1		1328	203	0.	*	1		1828	278	0.
1		0332	54	0.	*	1		0832	129	0.	*	1		1332	204	0.	*	1		1832	279	0.
1		0336	55	0.	*	1		0836	130	0.	*	1		1336	205	0.	*	1		1836	280	0.
1		0340	56	0.	*	1		0840	131	0.	*	1		1340	206	0.	*	1		1840	281	0.
1		0344	57	0.	*	1		0844	132	0.	*	1		1344	207	0.	*	1		1844	282	0.
1		0348	58	0.	*	1		0848	133	0.	*	1		1348	208	0.	*	1		1848	283	0.
1		0352	59	0.	*	1		0852	134	0.	*	1		1352	209	0.	*	1		1852	284	0.
1		0356	60	0.	*	1		0856	135	0.	*	1		1356	210	0.	*	1		1856	285	0.
1		0400	61	0.	*	1		0900	136	0.	*	1		1400	211	0.	*	1		1900	286	0.
1		0404	62	0.	*	1		0904	137	0.	*	1		1404	212	0.	*	1		1904	287	0.
1		0408	63	0.	*	1		0908	138	0.	*	1		1408	213	0.	*	1		1908	288	0.
1		0412	64	0.	*	1		0912	139	0.	*	1		1412	214	0.	*	1		1912	289	0.
1		0416	65	0.	*	1		0916	140	0.	*	1		1416	215	0.	*	1		1916	290	0.
1		0420	66	0.	*	1		0920	141	0.	*	1		1420	216	0.	*	1		1920	291	0.
1		0424	67	0.	*	1		0924	142	0.	*	1		1424	217	0.	*	1		1924	292	0.
1		0428	68	3.	*	1		0928	143	0.	*	1		1428	218	0.	*	1		1928	293	0.
1		0432	69	15.	*	1		0932	144	0.	*	1		1432	219	0.	*	1		1932	294	0.
1		0436	70	28.	*	1		0936	145	0.	*	1		1436	220	0.	*	1		1936	295	0.
1		0440	71	36.	*	1		0940	146	0.	*	1		1440	221	0.	*	1		1940	296	0.
1		0444	72	39.	*	1		0944	147	0.	*	1		1444	222	0.	*	1		1944	297	0.
1		0448	73	38.	*	1		0948	148	0.	*	1		1448	223	0.	*	1		1948	298	0.
1		0452	74	35.	*	1		0952	149	0.	*	1		1452	224	0.	*	1		1952	299	0.
1		0456	75	31.	*	1		0956	150	0.	*	1		1456	225	0.	*	1		1956	300	0.

PEAK FLOW TIME MAXIMUM AVERAGE FLOW

			6-HR	24-HR	72-HR	19.93-HR
	(CFS)	(HR)				
		(CFS)				
+	39.	4.73	3.	1.	1.	1.
		(INCHES)	.016	.016	.016	.016
		(AC-FT)	2.	2.	2.	2.

CUMULATIVE AREA = 1.92 SQ MI

DIVERSION HYDROGRAPH BDE-D1
PLAN 1, RATIO = .52

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0500	76	230.	1		1000	151	0.	1		1500	226	0.
1		0004	2	0.	1		0504	77	223.	1		1004	152	0.	1		1504	227	0.
1		0008	3	0.	1		0508	78	213.	1		1008	153	0.	1		1508	228	0.
1		0012	4	0.	1		0512	79	203.	1		1012	154	0.	1		1512	229	0.
1		0016	5	0.	1		0516	80	188.	1		1016	155	0.	1		1516	230	0.
1		0020	6	0.	1		0520	81	172.	1		1020	156	0.	1		1520	231	0.
1		0024	7	0.	1		0524	82	157.	1		1024	157	0.	1		1524	232	0.
1		0028	8	0.	1		0528	83	143.	1		1028	158	0.	1		1528	233	0.
1		0032	9	0.	1		0532	84	131.	1		1032	159	0.	1		1532	234	0.
1		0036	10	0.	1		0536	85	123.	1		1036	160	0.	1		1536	235	0.
1		0040	11	0.	1		0540	86	115.	1		1040	161	0.	1		1540	236	0.
1		0044	12	0.	1		0544	87	108.	1		1044	162	0.	1		1544	237	0.
1		0048	13	0.	1		0548	88	101.	1		1048	163	0.	1		1548	238	0.
1		0052	14	0.	1		0552	89	96.	1		1052	164	0.	1		1552	239	0.
1		0056	15	0.	1		0556	90	91.	1		1056	165	0.	1		1556	240	0.
1		0100	16	0.	1		0600	91	86.	1		1100	166	0.	1		1600	241	0.
1		0104	17	0.	1		0604	92	82.	1		1104	167	0.	1		1604	242	0.
1		0108	18	0.	1		0608	93	78.	1		1108	168	0.	1		1608	243	0.
1		0112	19	0.	1		0612	94	75.	1		1112	169	0.	1		1612	244	0.
1		0116	20	0.	1		0616	95	71.	1		1116	170	0.	1		1616	245	0.
1		0120	21	0.	1		0620	96	68.	1		1120	171	0.	1		1620	246	0.
1		0124	22	0.	1		0624	97	64.	1		1124	172	0.	1		1624	247	0.
1		0128	23	0.	1		0628	98	61.	1		1128	173	0.	1		1628	248	0.
1		0132	24	0.	1		0632	99	57.	1		1132	174	0.	1		1632	249	0.
1		0136	25	0.	1		0636	100	53.	1		1136	175	0.	1		1636	250	0.
1		0140	26	0.	1		0640	101	48.	1		1140	176	0.	1		1640	251	0.
1		0144	27	0.	1		0644	102	44.	1		1144	177	0.	1		1644	252	0.
1		0148	28	0.	1		0648	103	40.	1		1148	178	0.	1		1648	253	0.
1		0152	29	0.	1		0652	104	37.	1		1152	179	0.	1		1652	254	0.
1		0156	30	0.	1		0656	105	33.	1		1156	180	0.	1		1656	255	0.
1		0200	31	0.	1		0700	106	30.	1		1200	181	0.	1		1700	256	0.
1		0204	32	0.	1		0704	107	28.	1		1204	182	0.	1		1704	257	0.
1		0208	33	0.	1		0708	108	27.	1		1208	183	0.	1		1708	258	0.
1		0212	34	0.	1		0712	109	25.	1		1212	184	0.	1		1712	259	0.
1		0216	35	0.	1		0716	110	24.	1		1216	185	0.	1		1716	260	0.
1		0220	36	0.	1		0720	111	23.	1		1220	186	0.	1		1720	261	0.
1		0224	37	0.	1		0724	112	21.	1		1224	187	0.	1		1724	262	0.
1		0228	38	0.	1		0728	113	20.	1		1228	188	0.	1		1728	263	0.
1		0232	39	0.	1		0732	114	18.	1		1232	189	0.	1		1732	264	0.
1		0236	40	0.	1		0736	115	17.	1		1236	190	0.	1		1736	265	0.
1		0240	41	1.	1		0740	116	15.	1		1240	191	0.	1		1740	266	0.
1		0244	42	1.	1		0744	117	14.	1		1244	192	0.	1		1744	267	0.
1		0248	43	1.	1		0748	118	13.	1		1248	193	0.	1		1748	268	0.
1		0252	44	1.	1		0752	119	11.	1		1252	194	0.	1		1752	269	0.
1		0256	45	1.	1		0756	120	10.	1		1256	195	0.	1		1756	270	0.
1		0300	46	2.	1		0800	121	9.	1		1300	196	0.	1		1800	271	0.
1		0304	47	2.	1		0804	122	8.	1		1304	197	0.	1		1804	272	0.
1		0308	48	2.	1		0808	123	7.	1		1308	198	0.	1		1808	273	0.
1		0312	49	3.	1		0812	124	6.	1		1312	199	0.	1		1812	274	0.
1		0316	50	5.	1		0816	125	5.	1		1316	200	0.	1		1816	275	0.
1		0320	51	7.	1		0820	126	5.	1		1320	201	0.	1		1820	276	0.
1		0324	52	11.	1		0824	127	4.	1		1324	202	0.	1		1824	277	0.
1		0328	53	17.	1		0828	128	3.	1		1328	203	0.	1		1828	278	0.
1		0332	54	26.	1		0832	129	3.	1		1332	204	0.	1		1832	279	0.
1		0336	55	36.	1		0836	130	3.	1		1336	205	0.	1		1836	280	0.
1		0340	56	47.	1		0840	131	2.	1		1340	206	0.	1		1840	281	0.
1		0344	57	58.	1		0844	132	2.	1		1344	207	0.	1		1844	282	0.
1		0348	58	70.	1		0848	133	2.	1		1348	208	0.	1		1848	283	0.
1		0352	59	86.	1		0852	134	1.	1		1352	209	0.	1		1852	284	0.
1		0356	60	97.	1		0856	135	1.	1		1356	210	0.	1		1856	285	0.
1		0400	61	111.	1		0900	136	1.	1		1400	211	0.	1		1900	286	0.
1		0404	62	131.	1		0904	137	1.	1		1404	212	0.	1		1904	287	0.
1		0408	63	148.	1		0908	138	1.	1		1408	213	0.	1		1908	288	0.
1		0412	64	161.	1		0912	139	1.	1		1412	214	0.	1		1912	289	0.
1		0416	65	169.	1		0916	140	1.	1		1416	215	0.	1		1916	290	0.
1		0420	66	173.	1		0920	141	0.	1		1420	216	0.	1		1920	291	0.
1		0424	67	176.	1		0924	142	0.	1		1424	217	0.	1		1924	292	0.
1		0428	68	183.	1		0928	143	0.	1		1428	218	0.	1		1928	293	0.
1		0432	69	201.	1		0932	144	0.	1		1432	219	0.	1		1932	294	0.
1		0436	70	220.	1		0936	145	0.	1		1436	220	0.	1		1936	295	0.
1		0440	71	236.	1		0940	146	0.	1		1440	221	0.	1		1940	296	0.
1		0444	72	243.	1		0944	147	0.	1		1444	222	0.	1		1944	297	0.
1		0448	73	243.	1		0948	148	0.	1		1448	223	0.	1		1948	298	0.
1		0452	74	241.	1		0952	149	0.	1		1452	224	0.	1		1952	299	0.
1		0456	75	237.	1		0956	150	0.	1		1456	225	0.	1		1956	300	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	19.93-HR
+ (CFS)	(HR)				
	(CFS)				
+ 243.	4.80	77.	23.	23.	23.
	(INCHES)	.370	.371	.371	.371
	(AC-FT)	38.	38.	38.	38.

CUMULATIVE AREA = 1.92 SQ MI

HYDROGRAPH AT STATION BDE-D1
PLAN 1, RATIO = .52

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		0500	76	19.	1		1000	151	0.	1		1500	226	0.
1		0004	2	0.	1		0504	77	14.	1		1004	152	0.	1		1504	227	0.
1		0008	3	0.	1		0508	78	8.	1		1008	153	0.	1		1508	228	0.
1		0012	4	0.	1		0512	79	2.	1		1012	154	0.	1		1512	229	0.
1		0016	5	0.	1		0516	80	0.	1		1016	155	0.	1		1516	230	0.
1		0020	6	0.	1		0520	81	0.	1		1020	156	0.	1		1520	231	0.
1		0024	7	0.	1		0524	82	0.	1		1024	157	0.	1		1524	232	0.
1		0028	8	0.	1		0528	83	0.	1		1028	158	0.	1		1528	233	0.
1		0032	9	0.	1		0532	84	0.	1		1032	159	0.	1		1532	234	0.
1		0036	10	0.	1		0536	85	0.	1		1036	160	0.	1		1536	235	0.
1		0040	11	0.	1		0540	86	0.	1		1040	161	0.	1		1540	236	0.
1		0044	12	0.	1		0544	87	0.	1		1044	162	0.	1		1544	237	0.
1		0048	13	0.	1		0548	88	0.	1		1048	163	0.	1		1548	238	0.

1	0052	14	0.	*	1	0552	89	0.	*	1	1052	164	0.	*	1	1552	239	0.
1	0056	15	0.	*	1	0556	90	0.	*	1	1056	165	0.	*	1	1556	240	0.
1	0100	16	0.	*	1	0600	91	0.	*	1	1100	166	0.	*	1	1600	241	0.
1	0104	17	0.	*	1	0604	92	0.	*	1	1104	167	0.	*	1	1604	242	0.
1	0108	18	0.	*	1	0608	93	0.	*	1	1108	168	0.	*	1	1608	243	0.
1	0112	19	0.	*	1	0612	94	0.	*	1	1112	169	0.	*	1	1612	244	0.
1	0116	20	0.	*	1	0616	95	0.	*	1	1116	170	0.	*	1	1616	245	0.
1	0120	21	0.	*	1	0620	96	0.	*	1	1120	171	0.	*	1	1620	246	0.
1	0124	22	0.	*	1	0624	97	0.	*	1	1124	172	0.	*	1	1624	247	0.
1	0128	23	0.	*	1	0628	98	0.	*	1	1128	173	0.	*	1	1628	248	0.
1	0132	24	0.	*	1	0632	99	0.	*	1	1132	174	0.	*	1	1632	249	0.
1	0136	25	0.	*	1	0636	100	0.	*	1	1136	175	0.	*	1	1636	250	0.
1	0140	26	0.	*	1	0640	101	0.	*	1	1140	176	0.	*	1	1640	251	0.
1	0144	27	0.	*	1	0644	102	0.	*	1	1144	177	0.	*	1	1644	252	0.
1	0148	28	0.	*	1	0648	103	0.	*	1	1148	178	0.	*	1	1648	253	0.
1	0152	29	0.	*	1	0652	104	0.	*	1	1152	179	0.	*	1	1652	254	0.
1	0156	30	0.	*	1	0656	105	0.	*	1	1156	180	0.	*	1	1656	255	0.
1	0200	31	0.	*	1	0700	106	0.	*	1	1200	181	0.	*	1	1700	256	0.
1	0204	32	0.	*	1	0704	107	0.	*	1	1204	182	0.	*	1	1704	257	0.
1	0208	33	0.	*	1	0708	108	0.	*	1	1208	183	0.	*	1	1708	258	0.
1	0212	34	0.	*	1	0712	109	0.	*	1	1212	184	0.	*	1	1712	259	0.
1	0216	35	0.	*	1	0716	110	0.	*	1	1216	185	0.	*	1	1716	260	0.
1	0220	36	0.	*	1	0720	111	0.	*	1	1220	186	0.	*	1	1720	261	0.
1	0224	37	0.	*	1	0724	112	0.	*	1	1224	187	0.	*	1	1724	262	0.
1	0228	38	0.	*	1	0728	113	0.	*	1	1228	188	0.	*	1	1728	263	0.
1	0232	39	0.	*	1	0732	114	0.	*	1	1232	189	0.	*	1	1732	264	0.
1	0236	40	0.	*	1	0736	115	0.	*	1	1236	190	0.	*	1	1736	265	0.
1	0240	41	0.	*	1	0740	116	0.	*	1	1240	191	0.	*	1	1740	266	0.
1	0244	42	0.	*	1	0744	117	0.	*	1	1244	192	0.	*	1	1744	267	0.
1	0248	43	0.	*	1	0748	118	0.	*	1	1248	193	0.	*	1	1748	268	0.
1	0252	44	0.	*	1	0752	119	0.	*	1	1252	194	0.	*	1	1752	269	0.
1	0256	45	0.	*	1	0756	120	0.	*	1	1256	195	0.	*	1	1756	270	0.
1	0300	46	0.	*	1	0800	121	0.	*	1	1300	196	0.	*	1	1800	271	0.
1	0304	47	0.	*	1	0804	122	0.	*	1	1304	197	0.	*	1	1804	272	0.
1	0308	48	0.	*	1	0808	123	0.	*	1	1308	198	0.	*	1	1808	273	0.
1	0312	49	0.	*	1	0812	124	0.	*	1	1312	199	0.	*	1	1812	274	0.
1	0316	50	0.	*	1	0816	125	0.	*	1	1316	200	0.	*	1	1816	275	0.
1	0320	51	0.	*	1	0820	126	0.	*	1	1320	201	0.	*	1	1820	276	0.
1	0324	52	0.	*	1	0824	127	0.	*	1	1324	202	0.	*	1	1824	277	0.
1	0328	53	0.	*	1	0828	128	0.	*	1	1328	203	0.	*	1	1828	278	0.
1	0332	54	0.	*	1	0832	129	0.	*	1	1332	204	0.	*	1	1832	279	0.
1	0336	55	0.	*	1	0836	130	0.	*	1	1336	205	0.	*	1	1836	280	0.
1	0340	56	0.	*	1	0840	131	0.	*	1	1340	206	0.	*	1	1840	281	0.
1	0344	57	0.	*	1	0844	132	0.	*	1	1344	207	0.	*	1	1844	282	0.
1	0348	58	0.	*	1	0848	133	0.	*	1	1348	208	0.	*	1	1848	283	0.
1	0352	59	0.	*	1	0852	134	0.	*	1	1352	209	0.	*	1	1852	284	0.
1	0356	60	0.	*	1	0856	135	0.	*	1	1356	210	0.	*	1	1856	285	0.
1	0400	61	0.	*	1	0900	136	0.	*	1	1400	211	0.	*	1	1900	286	0.
1	0404	62	0.	*	1	0904	137	0.	*	1	1404	212	0.	*	1	1904	287	0.
1	0408	63	0.	*	1	0908	138	0.	*	1	1408	213	0.	*	1	1908	288	0.
1	0412	64	0.	*	1	0912	139	0.	*	1	1412	214	0.	*	1	1912	289	0.
1	0416	65	0.	*	1	0916	140	0.	*	1	1416	215	0.	*	1	1916	290	0.
1	0420	66	0.	*	1	0920	141	0.	*	1	1420	216	0.	*	1	1920	291	0.
1	0424	67	0.	*	1	0924	142	0.	*	1	1424	217	0.	*	1	1924	292	0.
1	0428	68	0.	*	1	0928	143	0.	*	1	1428	218	0.	*	1	1928	293	0.
1	0432	69	0.	*	1	0932	144	0.	*	1	1432	219	0.	*	1	1932	294	0.
1	0436	70	12.	*	1	0936	145	0.	*	1	1436	220	0.	*	1	1936	295	0.
1	0440	71	22.	*	1	0940	146	0.	*	1	1440	221	0.	*	1	1940	296	0.
1	0444	72	26.	*	1	0944	147	0.	*	1	1444	222	0.	*	1	1944	297	0.
1	0448	73	26.	*	1	0948	148	0.	*	1	1448	223	0.	*	1	1948	298	0.
1	0452	74	25.	*	1	0952	149	0.	*	1	1452	224	0.	*	1	1952	299	0.
1	0456	75	22.	*	1	0956	150	0.	*	1	1456	225	0.	*	1	1956	300	0.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	19.93-HR
(CFS)	(HR)					
		(CFS)				
+ 26.	4.80		2.	1.	1.	1.
		(INCHES)	.010	.010	.010	.010
		(AC-FT)	1.	1.	1.	1.

CUMULATIVE AREA = 1.92 SQ MI

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

					RATIOS APPLIED TO PRECIPITATION				
OPERATION	STATION	AREA	PLAN		RATIO 1 .57	RATIO 2 .56	RATIO 3 .55	RATIO 4 .54	RATIO 5 .52
HYDROGRAPH AT									
+	F37	.09	1	FLOW	44.	43.	42.	40.	37.
				TIME	3.73	3.73	3.73	3.73	3.73
ROUTED TO									
+	RT37-42	.09	1	FLOW	43.	42.	41.	39.	36.
				TIME	3.80	3.80	3.80	3.80	3.80
			** PEAK STAGES IN FEET **						
			1	STAGE	10.52	10.51	10.50	10.49	10.48
				TIME	3.80	3.80	3.80	3.80	3.80
HYDROGRAPH AT									
+	F42	.02	1	FLOW	13.	12.	12.	11.	11.
				TIME	3.60	3.60	3.60	3.60	3.60
2 COMBINED AT									
+	CP37-42	.11	1	FLOW	51.	50.	48.	47.	43.
				TIME	3.80	3.80	3.80	3.80	3.80
HYDROGRAPH AT									
+	F44	.40	1	FLOW	136.	132.	127.	123.	114.
				TIME	4.07	4.07	4.07	4.07	4.07
ROUTED TO									
+	RT44-55	.40	1	FLOW	135.	131.	127.	122.	114.
				TIME	4.13	4.13	4.13	4.13	4.13
			** PEAK STAGES IN FEET **						
			1	STAGE	10.92	10.91	10.89	10.88	10.85
				TIME	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT									
+	F55	.02	1	FLOW	13.	12.	12.	12.	11.
				TIME	3.53	3.53	3.53	3.53	3.53
2 COMBINED AT									
	CP55-44	.42	1	FLOW	137.	132.	128.	124.	115.
				TIME	4.07	4.07	4.07	4.13	4.13
ROUTED TO									
+	RT55-42	.42	1	FLOW	137.	132.	128.	124.	115.
				TIME	4.13	4.13	4.13	4.13	4.13

				** PEAK STAGES IN FEET **					
			1	STAGE	10.84	10.82	10.81	10.79	10.76
				TIME	4.13	4.13	4.13	4.13	4.13
2 COMBINED AT									
+	CP55-42	.53	1	FLOW	166.	161.	156.	151.	140.
				TIME	4.07	4.07	4.07	4.07	4.07
ROUTED TO									
+	RT42-48	.53	1	FLOW	164.	159.	154.	149.	139.
				TIME	4.20	4.20	4.20	4.20	4.20
				** PEAK STAGES IN FEET **					
			1	STAGE	10.94	10.92	10.90	10.89	10.86
				TIME	4.20	4.20	4.20	4.20	4.20
HYDROGRAPH AT									
+	F33	.06	1	FLOW	24.	23.	22.	22.	20.
				TIME	3.87	3.87	3.87	3.87	3.87
HYDROGRAPH AT									
+	F36	.06	1	FLOW	28.	27.	26.	25.	23.
				TIME	3.73	3.73	3.73	3.73	3.73
HYDROGRAPH AT									
+	F48	.06	1	FLOW	40.	39.	38.	37.	34.
				TIME	3.53	3.53	3.53	3.53	3.53
HYDROGRAPH AT									
+	F57	.04	1	FLOW	17.	17.	16.	16.	15.
				TIME	3.73	3.73	3.73	3.73	3.73
5 COMBINED AT									
+	CP48	.74	1	FLOW	211.	204.	197.	190.	175.
				TIME	4.07	4.07	4.07	4.07	4.07
ROUTED TO									
+	T49-10	.74	1	FLOW	210.	203.	196.	189.	175.
				TIME	4.13	4.13	4.13	4.13	4.13
				** PEAK STAGES IN FEET **					
			1	STAGE	11.15	11.13	11.11	11.09	11.04
				TIME	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT									
+	F69	.01	1	FLOW	7.	7.	7.	6.	6.
				TIME	3.53	3.53	3.53	3.53	3.53
ROUTED TO									
+	RT1	.01	1	FLOW	4.	4.	4.	4.	3.
				TIME	3.93	3.93	3.93	3.93	3.93
				** PEAK STAGES IN FEET **					
			1	STAGE	10.06	10.06	10.06	10.06	10.05
				TIME	3.93	3.93	3.93	3.93	3.93
HYDROGRAPH AT									
+	F64	.04	1	FLOW	20.	20.	19.	18.	17.
				TIME	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT									
+	F79	.01	1	FLOW	6.	6.	6.	6.	5.
				TIME	3.47	3.47	3.47	3.47	3.47
ROUTED TO									
+	RT2	.01	1	FLOW	5.	5.	4.	4.	4.
				TIME	3.67	3.67	3.67	3.67	3.67
				** PEAK STAGES IN FEET **					
			1	STAGE	10.07	10.07	10.07	10.07	10.06
				TIME	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT									
+	F67	.04	1	FLOW	22.	22.	21.	20.	19.
				TIME	3.60	3.60	3.60	3.60	3.60
4 COMBINED AT									
+	CP1	.09	1	FLOW	48.	47.	45.	44.	41.
				TIME	3.67	3.67	3.67	3.67	3.67
ROUTED TO									
+	T58-17	.09	1	FLOW	45.	44.	43.	41.	38.
				TIME	3.80	3.80	3.80	3.80	3.80
				** PEAK STAGES IN FEET **					
			1	STAGE	10.47	10.46	10.46	10.45	10.43
				TIME	3.80	3.80	3.80	3.80	3.80
HYDROGRAPH AT									
+	F82	.10	1	FLOW	56.	54.	52.	50.	47.
				TIME	3.67	3.67	3.67	3.67	3.67
ROUTED TO									
+	RT82	.10	1	FLOW	49.	47.	45.	44.	39.
				TIME	4.00	4.00	4.00	4.00	4.07
				** PEAK STAGES IN FEET **					
			1	STAGE	10.36	10.35	10.34	10.34	10.32
				TIME	4.00	4.00	4.00	4.00	4.07
HYDROGRAPH AT									
+	F65	.08	1	FLOW	38.	37.	35.	34.	32.
				TIME	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT									
+	F58	.07	1	FLOW	29.	28.	27.	26.	24.
				TIME	3.87	3.87	3.87	3.87	3.87
4 COMBINED AT									
+	CP2	.34	1	FLOW	138.	132.	126.	121.	112.
				TIME	3.93	3.93	3.87	3.87	3.87
ROUTED TO									
+	T49-11	.34	1	FLOW	137.	131.	126.	121.	111.
				TIME	3.93	3.93	3.93	3.93	3.93
				** PEAK STAGES IN FEET **					
			1	STAGE	10.92	10.90	10.87	10.85	10.81
				TIME	3.93	3.93	3.93	3.93	3.93
HYDROGRAPH AT									
	F49	.03	1	FLOW	18.	17.	17.	16.	15.
				TIME	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT									
-	F66	.08	1	FLOW	29.	28.	27.	26.	24.
				TIME	4.00	4.00	4.00	4.00	4.00
ROUTED TO									
+	T59-18	.08	1	FLOW	28.	27.	26.	25.	23.

				TIME	4.13	4.13	4.13	4.13	4.13
				** PEAK STAGES IN FEET **					
			1	STAGE	10.20	10.20	10.19	10.18	10.17
				TIME	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT									
+	F59	.02	1	FLOW	13.	13.	12.	12.	11.
				TIME	3.60	3.60	3.60	3.60	3.60
5 COMBINED AT									
+	CPRR	1.22	1	FLOW	377.	363.	349.	335.	308.
				TIME	4.00	4.00	4.00	4.00	4.00
ROUTED TO									
+	RR-35	1.22	1	FLOW	374.	360.	347.	334.	307.
				TIME	4.13	4.13	4.13	4.13	4.13
				** PEAK STAGES IN FEET **					
			1	STAGE	11.74	11.71	11.67	11.64	11.57
				TIME	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT									
+	F35	.14	1	FLOW	49.	48.	46.	44.	41.
				TIME	3.93	3.93	3.93	3.93	3.93
2 COMBINED AT									
+	CP35	1.36	1	FLOW	419.	403.	388.	373.	344.
				TIME	4.07	4.07	4.07	4.07	4.07
ROUTED TO									
+	RT35-54	1.36	1	FLOW	418.	403.	388.	373.	344.
				TIME	4.13	4.13	4.13	4.13	4.13
				** PEAK STAGES IN FEET **					
			1	STAGE	11.97	11.93	11.89	11.85	11.76
				TIME	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT									
+	F71	.02	1	FLOW	8.	8.	7.	7.	7.
				TIME	3.80	3.80	3.87	3.87	3.87
ROUTED TO									
+	RT71-60	.02	1	FLOW	8.	8.	7.	7.	7.
				TIME	3.87	3.87	3.87	3.87	3.87
				** PEAK STAGES IN FEET **					
			1	STAGE	10.43	10.42	10.41	10.40	10.38
				TIME	3.87	3.87	3.87	3.87	3.87
HYDROGRAPH AT									
+	F70	.04	1	FLOW	16.	16.	15.	15.	14.
				TIME	3.80	3.80	3.80	3.80	3.80
ROUTED TO									
+	RT70-61	.04	1	FLOW	16.	15.	15.	14.	13.
				TIME	3.87	3.87	3.87	3.87	3.87
				** PEAK STAGES IN FEET **					
			1	STAGE	10.72	10.71	10.70	10.69	10.67
				TIME	3.87	3.87	3.87	3.87	3.87
HYDROGRAPH AT									
+	F61	.03	1	FLOW	21.	20.	19.	19.	18.
				TIME	3.47	3.47	3.47	3.47	3.47
3 COMBINED AT									
+	CP61	.08	1	FLOW	29.	28.	28.	27.	25.
				TIME	3.73	3.73	3.73	3.73	3.73
ROUTED TO									
+	RT61-54	.08	1	FLOW	28.	27.	26.	26.	24.
				TIME	3.80	3.80	3.80	3.80	3.80
				** PEAK STAGES IN FEET **					
			1	STAGE	10.34	10.34	10.33	10.32	10.31
				TIME	3.80	3.80	3.80	3.80	3.80
HYDROGRAPH AT									
+	F54	.03	1	FLOW	14.	13.	13.	12.	12.
				TIME	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT									
+	F31	.13	1	FLOW	40.	39.	38.	36.	34.
				TIME	4.07	4.07	4.07	4.07	4.07
4 COMBINED AT									
+	CP54	1.60	1	FLOW	483.	466.	449.	431.	399.
				TIME	4.07	4.07	4.07	4.13	4.13
ROUTED TO									
+	RT54-50	1.60	1	FLOW	484.	467.	450.	432.	399.
				TIME	4.13	4.13	4.13	4.13	4.13
				** PEAK STAGES IN FEET **					
			1	STAGE	11.16	11.13	11.11	11.08	11.03
				TIME	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT									
+	F50	.01	1	FLOW	6.	6.	6.	6.	5.
				TIME	3.60	3.60	3.60	3.60	3.60
2 COMBINED AT									
+	CP50	1.61	1	FLOW	486.	468.	451.	434.	400.
				TIME	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT									
+	F52	.03	1	FLOW	12.	12.	11.	11.	10.
				TIME	3.80	3.80	3.80	3.80	3.80
2 COMBINED AT									
+	CP52	1.64	1	FLOW	494.	476.	459.	441.	406.
				TIME	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT									
+	F27	.12	1	FLOW	41.	40.	39.	37.	35.
				TIME	3.93	3.93	3.93	3.93	3.93
HYDROGRAPH AT									
+	F26	.05	1	FLOW	19.	18.	17.	17.	16.
				TIME	3.87	3.87	3.87	3.87	3.87
2 COMBINED AT									
+	CP26	.17	1	FLOW	60.	58.	56.	54.	50.
				TIME	3.93	3.93	3.93	3.93	3.93
ROUTED TO									
+	RT26-50	.17	1	FLOW	60.	58.	56.	54.	50.
				TIME	3.93	3.93	3.93	3.93	4.00

			** PEAK STAGES IN FEET **						
			1	STAGE	10.47	10.46	10.45	10.45	10.43
				TIME	3.93	3.93	3.93	3.93	4.00
2 COMBINED AT									
+	CP50	1.81	1	FLOW	546.	527.	508.	488.	452.
				TIME	4.07	4.13	4.13	4.13	4.13
ROUTED TO									
+	RT50-56	1.81	1	FLOW	546.	527.	507.	488.	450.
				TIME	4.20	4.20	4.20	4.20	4.20
			** PEAK STAGES IN FEET **						
			1	STAGE	11.88	11.84	11.80	11.77	11.69
				TIME	4.20	4.20	4.20	4.20	4.20
HYDROGRAPH AT									
+	F73	.08	1	FLOW	30.	29.	28.	27.	25.
				TIME	3.93	3.93	3.93	3.93	3.93
HYDROGRAPH AT									
+	F68	.03	1	FLOW	9.	9.	8.	8.	8.
				TIME	3.93	3.93	3.93	3.93	3.93
2 COMBINED AT									
+	CP68	.11	1	FLOW	39.	38.	37.	35.	33.
				TIME	3.93	3.93	3.93	3.93	3.93
ROUTED TO									
+	RT68-56	.11	1	FLOW	38.	36.	35.	34.	32.
				TIME	4.13	4.13	4.13	4.13	4.13
			** PEAK STAGES IN FEET **						
			1	STAGE	10.35	10.35	10.34	10.33	10.32
				TIME	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT									
+	F56	.10	1	FLOW	33.	32.	31.	30.	28.
				TIME	4.07	4.07	4.07	4.07	4.07
3 COMBINED AT									
+	CP56	2.02	1	FLOW	613.	592.	570.	549.	507.
				TIME	4.20	4.20	4.20	4.20	4.20
ROUTED TO									
+	RT56-62	2.02	1	FLOW	612.	591.	569.	548.	505.
				TIME	4.20	4.20	4.20	4.20	4.20
			** PEAK STAGES IN FEET **						
			1	STAGE	12.18	12.14	12.11	12.07	11.99
				TIME	4.20	4.20	4.20	4.20	4.20
HYDROGRAPH AT									
+	F62	.03	1	FLOW	18.	17.	16.	16.	15.
				TIME	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT									
+	CP62	2.05	1	FLOW	617.	595.	573.	552.	508.
				TIME	4.20	4.20	4.20	4.20	4.20
ROUTED TO									
+	RT62-45	2.05	1	FLOW	614.	592.	571.	550.	508.
				TIME	4.27	4.27	4.27	4.27	4.27
			** PEAK STAGES IN FEET **						
			1	STAGE	12.41	12.36	12.32	12.27	12.18
				TIME	4.27	4.27	4.27	4.27	4.27
HYDROGRAPH AT									
+	F45	.06	1	FLOW	32.	31.	30.	29.	27.
				TIME	3.60	3.60	3.60	3.60	3.60
2 COMBINED AT									
+	CP45	2.11	1	FLOW	619.	597.	576.	555.	512.
				TIME	4.27	4.27	4.27	4.27	4.27
DIVERSION TO									
+	DFV45	2.11	1	FLOW	299.	286.	274.	261.	236.
				TIME	4.27	4.27	4.27	4.27	4.27
HYDROGRAPH AT									
+	DF45	2.11	1	FLOW	320.	311.	302.	294.	276.
				TIME	4.27	4.27	4.27	4.27	4.27
HYDROGRAPH AT									
+	DF45	.00	1	FLOW	299.	286.	274.	261.	236.
				TIME	4.27	4.27	4.27	4.27	4.27
ROUTED TO									
+	RT45-46	.00	1	FLOW	298.	285.	273.	260.	239.
				TIME	4.40	4.40	4.40	4.40	4.47
			** PEAK STAGES IN FEET **						
			1	STAGE	11.63	11.59	11.55	11.51	11.44
				TIME	4.40	4.40	4.40	4.40	4.47
HYDROGRAPH AT									
+	N51	.22	1	FLOW	49.	47.	46.	44.	41.
				TIME	4.33	4.33	4.33	4.33	4.33
ROUTED TO									
+	RT46-1	.22	1	FLOW	49.	47.	45.	44.	41.
				TIME	4.47	4.47	4.47	4.47	4.47
			** PEAK STAGES IN FEET **						
			1	STAGE	10.49	10.48	10.47	10.46	10.44
				TIME	4.47	4.47	4.47	4.47	4.47
HYDROGRAPH AT									
+	N46	.04	1	FLOW	16.	15.	15.	14.	13.
				TIME	3.87	3.87	3.87	3.87	3.87
HYDROGRAPH AT									
+	N53	.01	1	FLOW	4.	4.	4.	4.	4.
				TIME	3.73	3.73	3.73	3.73	3.73
4 COMBINED AT									
+	CP46	.28	1	FLOW	354.	339.	325.	310.	285.
				TIME	4.40	4.40	4.40	4.40	4.47
DIVERSION TO									
+	DFV46	.28	1	FLOW	79.	69.	61.	51.	35.
				TIME	4.40	4.40	4.40	4.40	4.47
HYDROGRAPH AT									
+	DF46	.28	1	FLOW	274.	270.	265.	259.	250.
				TIME	4.40	4.40	4.40	4.40	4.47
ROUTED TO									
+	RT47-1	.28	1	FLOW	279.	272.	268.	264.	251.

				TIME	4.47	4.47	4.53	4.53	4.53
			** PEAK STAGES IN FEET **						
			1	STAGE	11.37	11.35	11.34	11.33	11.30
				TIME	4.47	4.47	4.53	4.53	4.53
HYDROGRAPH AT									
+	N60	.07	1	FLOW	22.	22.	21.	20.	19.
				TIME	3.93	3.93	3.93	3.93	3.93
ROUTED TO									
+	RT47-1	.07	1	FLOW	22.	21.	21.	20.	18.
				TIME	4.00	4.07	4.07	4.07	4.07
			** PEAK STAGES IN FEET **						
			1	STAGE	10.45	10.45	10.44	10.43	10.41
				TIME	4.00	4.07	4.07	4.07	4.07
HYDROGRAPH AT									
+	N47	.13	1	FLOW	27.	26.	25.	24.	23.
				TIME	4.53	4.53	4.53	4.53	4.60
3 COMBINED AT									
+	CP46	.48	1	FLOW	319.	310.	304.	299.	284.
				TIME	4.47	4.47	4.53	4.53	4.53
ROUTED TO									
+	RT43-1	.48	1	FLOW	316.	311.	304.	296.	284.
				TIME	4.53	4.53	4.53	4.53	4.60
			** PEAK STAGES IN FEET **						
			1	STAGE	11.47	11.46	11.45	11.44	11.41
				TIME	4.53	4.53	4.53	4.53	4.60
HYDROGRAPH AT									
+	DF46	.00	1	FLOW	79.	69.	61.	51.	35.
				TIME	4.40	4.40	4.40	4.40	4.47
ROUTED TO									
+	RT46-38	.00	1	FLOW	76.	66.	56.	45.	27.
				TIME	4.53	4.60	4.60	4.60	4.67
			** PEAK STAGES IN FEET **						
			1	STAGE	10.75	10.70	10.64	10.56	10.40
				TIME	4.53	4.60	4.60	4.60	4.67
HYDROGRAPH AT									
+	N38	.05	1	FLOW	18.	18.	17.	17.	15.
				TIME	3.80	3.80	3.80	3.80	3.80
2 COMBINED AT									
+	CP38	.05	1	FLOW	81.	71.	60.	50.	31.
				TIME	4.53	4.60	4.60	4.60	4.67
ROUTED TO									
+	RT43-1	.05	1	FLOW	80.	69.	59.	49.	27.
				TIME	4.60	4.60	4.67	4.67	4.73
			** PEAK STAGES IN FEET **						
			1	STAGE	10.49	10.45	10.41	10.37	10.24
				TIME	4.60	4.60 *	4.67	4.67	4.73
HYDROGRAPH AT									
+	N43	.02	1	FLOW	8.	8.	8.	7.	7.
				TIME	3.67	3.67	3.67	3.67	3.67
3 COMBINED AT									
	CP43	.54	1	FLOW	392.	375.	355.	338.	303.
				TIME	4.60	4.60	4.60	4.67	4.67
ROUTED TO									
+	RT41-1	.54	1	FLOW	392.	373.	356.	337.	304.
				TIME	4.60	4.60	4.67	4.67	4.67
			** PEAK STAGES IN FEET **						
			1	STAGE	12.99	12.93	12.87	12.79	12.65
				TIME	4.60	4.60	4.67	4.67	4.67
HYDROGRAPH AT									
+	N41	.03	1	FLOW	11.	10.	10.	10.	9.
				TIME	4.00	4.00	4.00	4.00	4.00
2 COMBINED AT									
+	CUPRR-1	.58	1	FLOW	397.	378.	361.	341.	308.
				TIME	4.60	4.60	4.67	4.67	4.67
ROUTED TO									
+	RTN-1	.58	1	FLOW	396.	378.	361.	340.	309.
				TIME	4.60	4.67	4.67	4.73	4.67
			** PEAK STAGES IN FEET **						
			1	STAGE	11.53	11.50	11.47	11.42	11.35
				TIME	4.60	4.67	4.67	4.73	4.67
DIVERSION TO									
+	BDB-D1	.58	1	FLOW	180.	178.	177.	175.	172.
				TIME	4.60	4.67	4.67	4.73	4.67
HYDROGRAPH AT									
+	BDB-D1	.58	1	FLOW	216.	200.	184.	165.	137.
				TIME	4.60	4.67	4.67	4.73	4.67
DIVERSION TO									
+	BDB-D2	.58	1	FLOW	108.	100.	92.	83.	68.
				TIME	4.60	4.67	4.67	4.73	4.67
HYDROGRAPH AT									
+	BDB-D2	.58	1	FLOW	108.	100.	92.	83.	68.
				TIME	4.60	4.67	4.67	4.73	4.67
ROUTED TO									
+	RCUPRR-1	.58	1	FLOW	103.	95.	87.	80.	65.
				TIME	4.73	4.73	4.80	4.80	4.80
HYDROGRAPH AT									
+	O23*	.07	1	FLOW	25.	24.	24.	23.	21.
				TIME	3.87	3.87	3.87	3.87	3.87
HYDROGRAPH AT									
+	P40	.04	1	FLOW	15.	14.	14.	14.	13.
				TIME	3.87	3.87	3.87	3.87	3.87
ROUTED TO									
+	RT21-1	.04	1	FLOW	14.	14.	13.	13.	12.
				TIME	4.07	4.07	4.07	4.07	4.07
			** PEAK STAGES IN FEET **						
			1	STAGE	10.11	10.11	10.10	10.10	10.09
				TIME	4.07	4.07	4.07	4.07	4.07

HYDROGRAPH AT									
+	P21	.31	1	FLOW	83.	80.	77.	75.	69.
				TIME	4.20	4.20	4.20	4.20	4.20
2 COMBINED AT									
+	CP21-40	.35	1	FLOW	96.	93.	90.	87.	81.
				TIME	4.20	4.20	4.20	4.20	4.20
ROUTED TO									
+	RT30-1	.35	1	FLOW	93.	90.	87.	84.	78.
				TIME	4.53	4.53	4.53	4.53	4.53
			** PEAK STAGES IN FEET **						
			1	STAGE	10.55	10.54	10.53	10.51	10.49
				TIME	4.53	4.53	4.53	4.53	4.53
HYDROGRAPH AT									
+	P20	.15	1	FLOW	43.	42.	40.	39.	36.
				TIME	4.07	4.07	4.07	4.07	4.07
ROUTED TO									
+	RT24-1	.15	1	FLOW	39.	37.	36.	35.	32.
				TIME	4.53	4.60	4.67	4.67	4.67
			** PEAK STAGES IN FEET **						
			1	STAGE	10.33	10.33	10.31	10.30	10.28
				TIME	4.53	4.60	4.67	4.67	4.67
HYDROGRAPH AT									
+	P24	.16	1	FLOW	48.	46.	45.	43.	40.
				TIME	3.87	3.87	3.87	3.87	3.93
HYDROGRAPH AT									
+	P30	.13	1	FLOW	27.	26.	25.	24.	22.
				TIME	4.07	4.07	4.07	4.07	4.07
4 COMBINED AT									
+	CP21-30	.79	1	FLOW	170.	162.	156.	150.	139.
				TIME	4.47	4.47	4.47	4.47	4.47
ROUTED TO									
+	RT25-1	.79	1	FLOW	168.	161.	155.	149.	138.
				TIME	4.60	4.60	4.60	4.60	4.67
			** PEAK STAGES IN FEET **						
			1	STAGE	10.93	10.91	10.89	10.87	10.84
				TIME	4.60	4.60	4.60	4.60	4.67
HYDROGRAPH AT									
+	P25	.06	1	FLOW	24.	24.	23.	22.	20.
				TIME	3.73	3.73	3.73	3.73	3.73
HYDROGRAPH AT									
+	P29	.09	1	FLOW	24.	23.	22.	21.	20.
				TIME	4.07	4.07	4.07	4.07	4.07
3 COMBINED AT									
+	CP25-29	.94	1	FLOW	187.	180.	173.	167.	155.
				TIME	4.60	4.60	4.60	4.60	4.67
ROUTED TO									
+	RT22-1	.94	1	FLOW	186.	179.	172.	166.	153.
				TIME	4.67	4.73	4.73	4.73	4.80
			** PEAK STAGES IN FEET **						
			1	STAGE	10.71	10.70	10.69	10.67	10.64
				TIME	4.67	4.73	4.73	4.73	4.80
HYDROGRAPH AT									
+	P17	.06	1	FLOW	20.	20.	19.	18.	17.
				TIME	3.80	3.80	3.80	3.80	3.87
ROUTED TO									
+	RT18-1	.06	1	FLOW	17.	17.	16.	15.	14.
				TIME	4.40	4.40	4.40	4.40	4.40
			** PEAK STAGES IN FEET **						
			1	STAGE	10.27	10.26	10.26	10.25	10.24
				TIME	4.40	4.40	4.40	4.40	4.40
HYDROGRAPH AT									
+	P18	.16	1	FLOW	44.	42.	41.	39.	36.
				TIME	4.00	4.00	4.00	4.00	4.00
2 COMBINED AT									
+	CP18-17	.21	1	FLOW	50.	47.	45.	44.	40.
				TIME	4.20	4.20	4.27	4.27	4.27
ROUTED TO									
+	RT22-1	.21	1	FLOW	48.	46.	44.	42.	38.
				TIME	4.47	4.47	4.47	4.47	4.47
			** PEAK STAGES IN FEET **						
			1	STAGE	10.54	10.53	10.51	10.50	10.48
				TIME	4.47	4.47	4.47	4.47	4.47
HYDROGRAPH AT									
+	P22	.02	1	FLOW	10.	10.	10.	9.	9.
				TIME	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT									
+	P19*	.09	1	FLOW	25.	24.	23.	22.	21.
				TIME	4.00	4.00	4.00	4.00	4.00
4 COMBINED AT									
+	CP	1.27	1	FLOW	244.	235.	226.	217.	200.
				TIME	4.60	4.67	4.67	4.67	4.73
3 COMBINED AT									
+	CUPRR-2	1.92	1	FLOW	352.	335.	318.	301.	270.
				TIME	4.73	4.73	4.73	4.73	4.80
DIVERSION TO									
+	BDE-D1	1.92	1	FLOW	270.	268.	265.	262.	243.
				TIME	4.73	4.73	4.73	4.73	4.80
HYDROGRAPH AT									
+	BDE-D1	1.92	1	FLOW	81.	67.	53.	39.	26.
				TIME	4.73	4.73	4.73	4.73	4.80
ROUTED TO									
	RCUPRR-2	1.92	1	FLOW	79.	65.	51.	38.	26.
				TIME	4.80	4.80	4.80	4.80	4.87
HYDROGRAPH AT									
+	Q15*	.13	1	FLOW	33.	32.	31.	30.	27.
				TIME	4.07	4.07	4.07	4.07	4.07
HYDROGRAPH AT									
+	R8	.10	1	FLOW	27.	26.	25.	24.	22.

				TIME	4.07	4.13	4.13	4.13	4.13
ROUTED TO									
+	RT7-1	.10	1	FLOW	26.	25.	24.	23.	22.
				TIME	4.33	4.33	4.33	4.33	4.33
			** PEAK STAGES IN FEET **						
			1	STAGE	10.35	10.34	10.33	10.32	10.31
				TIME	4.33	4.33	4.33	4.33	4.33
HYDROGRAPH AT									
+	R7	.04	1	FLOW	17.	17.	16.	16.	14.
				TIME	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT									
+	R13	.11	1	FLOW	30.	29.	28.	27.	25.
				TIME	4.00	4.00	4.07	4.07	4.07
ROUTED TO									
+	RT11-1	.11	1	FLOW	27.	26.	25.	24.	23.
				TIME	4.40	4.40	4.47	4.47	4.47
			** PEAK STAGES IN FEET **						
			1	STAGE	10.26	10.25	10.24	10.23	10.21
				TIME	4.40	4.40	4.47	4.47	4.47
HYDROGRAPH AT									
+	R11	.08	1	FLOW	29.	28.	27.	26.	24.
				TIME	3.80	3.80	3.80	3.80	3.80
4 COMBINED AT									
+	CP11	.33	1	FLOW	66.	64.	62.	59.	55.
				TIME	4.27	4.27	4.27	4.27	4.27
ROUTED TO									
+	RT6-1	.33	1	FLOW	66.	63.	61.	59.	55.
				TIME	4.33	4.33	4.40	4.40	4.40
			** PEAK STAGES IN FEET **						
			1	STAGE	10.30	10.29	10.28	10.27	10.25
				TIME	4.33	4.33	4.40	4.40	4.40
HYDROGRAPH AT									
+	R6	.04	1	FLOW	13.	13.	12.	12.	11.
				TIME	3.87	3.87	3.87	3.87	3.87
HYDROGRAPH AT									
+	R14	.05	1	FLOW	13.	13.	12.	12.	11.
				TIME	4.00	4.00	4.00	4.00	4.00
3 COMBINED AT									
+	CP6	.42	1	FLOW	83.	80.	77.	74.	68.
				TIME	4.20	4.27	4.27	4.27	4.27
ROUTED TO									
+	RT10-1	.42	1	FLOW	82.	79.	77.	74.	68.
				TIME	4.27	4.27	4.33	4.33	4.33
			** PEAK STAGES IN FEET **						
			1	STAGE	10.71	10.69	10.68	10.67	10.64
				TIME	4.27	4.27 *	4.33	4.33	4.33
HYDROGRAPH AT									
+	R10*	.04	1	FLOW	18.	17.	17.	16.	15.
				TIME	3.73	3.73	3.73	3.73	3.73
2 COMBINED AT									
	CR	.46	1	FLOW	89.	86.	83.	79.	73.
				TIME	3.93	3.93	4.00	4.00	4.00
3 COMBINED AT									
+	CUPRR-3	2.51	1	FLOW	168.	150.	133.	117.	101.
				TIME	4.73	4.73	4.80	4.80	4.00
DIVERSION TO									
+	BDG-D1	2.51	1	FLOW	91.	90.	88.	87.	79.
				TIME	4.73	4.73	4.80	4.80	4.00
HYDROGRAPH AT									
+	BDG-D1	2.51	1	FLOW	77.	61.	45.	30.	22.
				TIME	4.73	4.73	4.80	4.80	4.00
ROUTED TO									
+	RCUPRR-3	2.51	1	FLOW	73.	58.	43.	29.	22.
				TIME	4.87	4.87	4.87	4.87	4.13
HYDROGRAPH AT									
+	Ra5*	.02	1	FLOW	9.	9.	8.	8.	7.
				TIME	3.80	3.80	3.80	3.80	3.80
ROUTED TO									
+	RRa5*	.02	1	FLOW	8.	8.	8.	7.	7.
				TIME	3.93	3.93	3.93	3.93	3.93
HYDROGRAPH AT									
+	BDI-1	.02	1	FLOW	11.	11.	11.	10.	10.
				TIME	3.60	3.60	3.60	3.60	3.60
3 COMBINED AT									
+	CUPRR-4	2.56	1	FLOW	78.	63.	48.	34.	32.
				TIME	4.87	4.87	4.87	4.87	4.00
ROUTED TO									
+	RCUPRR-4	2.56	1	FLOW	77.	62.	47.	34.	32.
				TIME	4.87	4.87	4.93	4.00	4.00
HYDROGRAPH AT									
+	S3	.08	1	FLOW	23.	22.	21.	21.	19.
				TIME	4.00	4.00	4.00	4.00	4.00
ROUTED TO									
+	RS3	.08	1	FLOW	22.	21.	20.	19.	18.
				TIME	4.13	4.13	4.13	4.13	4.13
HYDROGRAPH AT									
+	BDI-2	.04	1	FLOW	5.	5.	4.	4.	4.
				TIME	3.80	3.80	3.80	3.80	3.80
3 COMBINED AT									
+	CUPRR-5	2.67	1	FLOW	89.	73.	59.	56.	51.
				TIME	4.87	4.87	4.07	4.07	4.07
ROUTED TO									
+	RCUPRR-5	2.67	1	FLOW	89.	73.	59.	55.	51.
				TIME	4.93	4.93	4.13	4.07	4.13
HYDROGRAPH AT									
+	T9	.20	1	FLOW	53.	51.	49.	47.	44.
				TIME	4.13	4.20	4.20	4.20	4.20

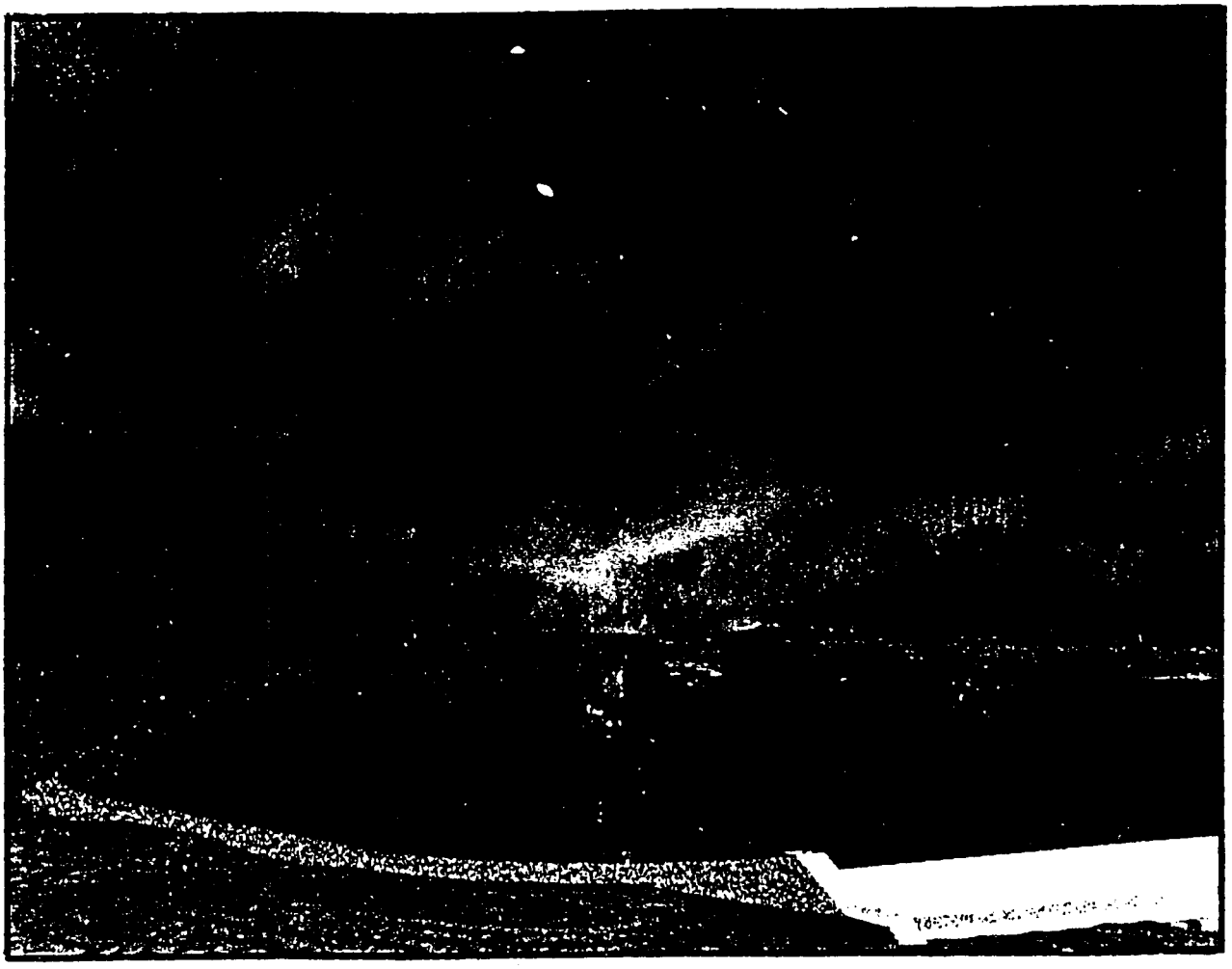
HYDROGRAPH AT									
+	T12	.13	1	FLOW	37.	36.	34.	33.	31.
				TIME	4.07	4.07	4.07	4.07	4.13
2 COMBINED AT									
+	CP9-12	.34	1	FLOW	89.	86.	83.	80.	75.
				TIME	4.13	4.13	4.13	4.13	4.13
ROUTED TO									
+	RT4-1	.34	1	FLOW	87.	84.	80.	78.	72.
				TIME	4.40	4.47	4.47	4.47	4.47
			** PEAK STAGES IN FEET **						
			1	STAGE	10.57	10.56	10.54	10.53	10.50
				TIME	4.40	4.47	4.47	4.47	4.47
HYDROGRAPH AT									
+	T4	.17	1	FLOW	46.	44.	43.	41.	38.
				TIME	4.07	4.07	4.07	4.07	4.07
2 COMBINED AT									
+	CP4	.51	1	FLOW	121.	116.	110.	106.	99.
				TIME	4.40	4.40	4.40	4.40	4.40
ROUTED TO									
+	RT120-1	.51	1	FLOW	119.	114.	110.	106.	98.
				TIME	4.60	4.60	4.60	4.60	4.67
			** PEAK STAGES IN FEET **						
			1	STAGE	10.78	10.76	10.74	10.73	10.70
				TIME	4.60	4.60	4.60	4.60	4.67
HYDROGRAPH AT									
+	T120	.10	1	FLOW	32.	31.	29.	28.	26.
				TIME	3.93	3.93	3.93	3.93	3.93
2 COMBINED AT									
+	CT	.61	1	FLOW	131.	126.	121.	117.	108.
				TIME	4.60	4.60	4.60	4.60	4.60
ROUTED TO									
+	RT	.61	1	FLOW	129.	123.	118.	114.	106.
				TIME	4.73	4.73	4.73	4.80	4.80
HYDROGRAPH AT									
+	BDI-3	.03	1	FLOW	0.	0.	0.	0.	0.
				TIME	5.07	5.07	5.07	5.07	5.07
3 COMBINED AT									
+	CUPRR-6	3.31	1	FLOW	211.	191.	172.	156.	141.
				TIME	4.87	4.87	4.87	4.87	4.80
HYDROGRAPH AT									
+	U59	.07	1	FLOW	2.	1.	1.	1.	1.
				TIME	5.13	5.13	5.20	5.20	5.20
ROUTED TO									
+	RU59	.07	1	FLOW	1.	1.	1.	1.	1.
				TIME	5.47	5.53	5.53	5.53	5.53
HYDROGRAPH AT									
+	BDI-4	.05	1	FLOW	1.	1.	1.	0.	0.
				TIME	5.13	5.13	5.13	5.13	5.20
HYDROGRAPH AT									
+	BDI-5	.03	1	FLOW	4.	4.	4.	4.	3.
				TIME	3.93	3.93	3.93	3.93	3.93
4 COMBINED AT									
+	CUPRR-7	3.47	1	FLOW	215.	195.	176.	159.	143.
				TIME	4.87	4.87	4.87	4.87	4.80
DIVERSION TO									
+	BDI-D1	3.47	1	FLOW	215.	195.	176.	159.	143.
				TIME	4.87	4.87	4.87	4.87	4.80
HYDROGRAPH AT									
+	BDI-D1	3.47	1	FLOW	0.	0.	0.	0.	0.
				TIME	.07	.07	.07	.07	.07

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

COE B.1

US Army Corps of Engineers
Los Angeles District

Las Vegas Wash and Tributaries
(Tropicana and Flamingo Washes), Nevada



DESIGN MEMORANDUM

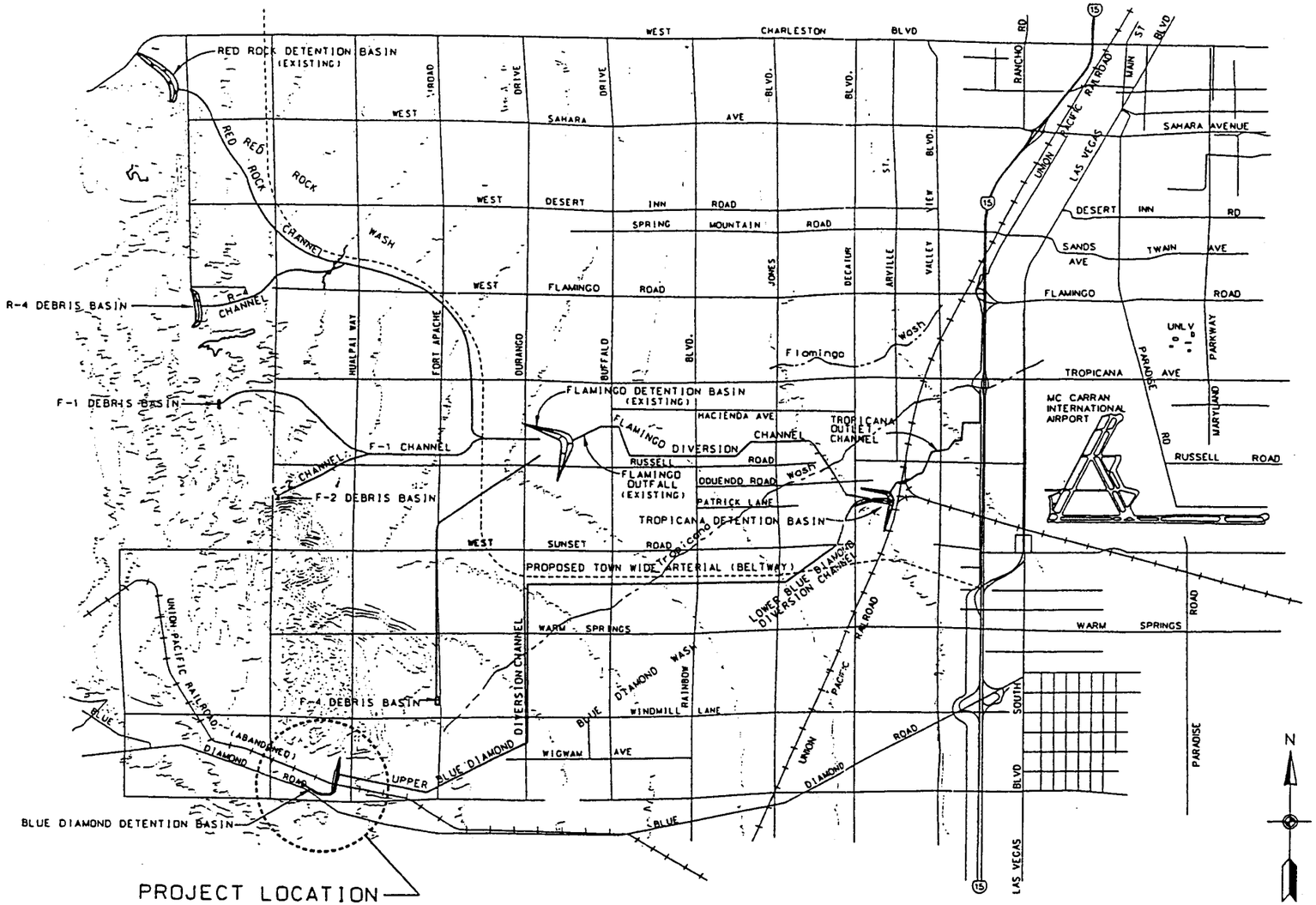
BLUE DIAMOND DETENTION BASIN

April 1998

PERTINENT DATA

Purpose: Flood Control
Survey controls
Horizontal: North American Datum of 1983 (NAD 83)
Vertical: North American Vertical Datum of 1988 (NAVD 88)

Item	Unit	Amount
Drainage Area	km^2	176.770
Total length of dam	m	1494.850
Dam embankment (earthfill)		
Crest elevation	m	907.000
Crest length	m	936.656
Crest width	m	6.000
Maximum height	m	16.750
Spillway		
Crest elevation	m	903.750
Crest length	m	558.194
Elevation of maximum water surface	m	906.05
Design discharge	m^3/s	4105.94
Outlet works (ungated steel bulkhead with a 762 mm wide by 762 mm high opening)		
Height of concrete box conduit	m	1.400
Width of concrete box conduit	m	1.400
Length of RCP conduit	m	73.000
Intake elevation	m	889.330
Reservoir		
Area at dam spillway crest	m^2	451 245
Gross capacity at dam spillway crest	m^3	2 797 691
Storage allocation below dam spillway crest		
Flood Control	m^3	2 504 120
Sedimentation (by reservoir design flood)	m^3	293 571
100-year flood (reservoir design flood)		
Inflow volume (24-hr)	m^3	2 923 371
Maximum inflow	m^3/s	390.77
Maximum outflow	m^3/s	6.03
Drawdown time (99% recovery)	day	7
Probable maximum flood (spillway design flood)		
Inflow volume (24-hr)	m^3	36 881 351
Maximum inflow	m^3/s	4105.94
Maximum outflow	m^3/s	4105.94



PROJECT LOCATION MAP

SCALE: 1000 500 0 1000 2000 METER

VICINITY MAP

ABBREVIATIONS AND SYMBOLS

ABT.	ABOUT
APPROX.	APPROXIMATELY
AVE.	AVENUE
B.C.	BEGINNING-OF-CURVE
BLVD.	BOULEVARD
BOT.	BOTTOM
℄	CENTERLINE/CONTROL LINE
C.S.	CURVE TO SPIRAL
CONSTR. JT./C.J.	CONSTRUCTION JOINT
CL.	CLEARANCE
CONC.	CONCRETE
Δ	DEFLECTION ANGLE
Δs	SPIRAL DEFLECTION ANGLE
DIA.	DIAMETER
DR.	DRIVE
E	EAST
E.C.	END-OF-CURVE
E.F.	EACH FACE
EL./ELEV.	ELEVATION
E.W.	EACH WAY
EXIST.	EXISTING
GAL'V.	GALVANIZED
HORIZ./H	HORIZONTAL
HT/H	HEIGHT
INV.	INVERT
L	LENGTH-OF-CURVE
Ls	SPIRAL LENGTH
LT.	LEFT
MAT'L	MATERIAL
MAX.	MAXIMUM
MIN.	MINIMUM
MISC.	MISCELLANEOUS
m/s	METERS/SECOND
MSL	MEAN SEA LEVEL
N.	NORTH
NE	NORTHEAST
NO.	NUMBER
N.T.S.	NOT TO SCALE
NW	NORTHWEST
ø	DIAMETER
O.C.	ON CENTER
P.I.	POINT-OF-INTERSECTION
P.L.	PROPERTY LINE
R	RADIUS
RT.	RIGHT
R.C.C.	ROLLER COMPACTED CONCRETE
R/W	RIGHT-OF-WAY
S=	SLOPE EQUALS
S	SOUTH
S.C.	SPIRAL TO CURVE
SE	SOUTHEAST
SEC.	SECTION
SHT.	SHEET
ST.	STREET
S.T.	SPIRAL TO TANGET
STA.	STATION
STD.	STANDARD
STL.	STEEL
SW	SOUTHWEST
SYMM.	SYMMETRICAL
T	TANGENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
T.H.	TEST HOLE
T.S.	TANGENT TO SPIRAL
TYP.	TYPICAL
V	VERTICAL

LEGEND

SYMBOL	DESCRIPTION
× J 635.300	EXISTING ELEVATION
• J 633.500	FINISHED GRADE ELEVATION
———	CENTERLINE/CONTROL LINE
— — —	RIGHT-OF-WAY
—— ——	CONSTRUCTION EASEMENT
———	FENCE
+++++++	RAILROAD
	TOP OF SLOPE
	TOE OF SLOPE

NOTE:
ALL ROADS SHOWN ON THIS DRAWING MAY NOT EXIST.

METRIC

PLATE 1

DESIGN MEMORANDUM
DRAWINGS

TROPICANA AND FLAMINGO WASHES FLOOD CONTROL PROJECT
BLUE DIAMOND DETENTION BASIN
VICINITY AND PROJECT LOCATION MAPS
ABBREVIATIONS AND SYMBOLS

U.S. ARMY ENGINEER DISTRICT
LOS ANGELES
CORPS OF ENGINEERS

DESIGNED BY: J. SARKINEN
DRAWN BY: J. SERRANO
CHECKED BY: G. DAVIS
QUANTITIES BY: V. CARSON
CADD FILE NAME: PVI1_VIC.MPF

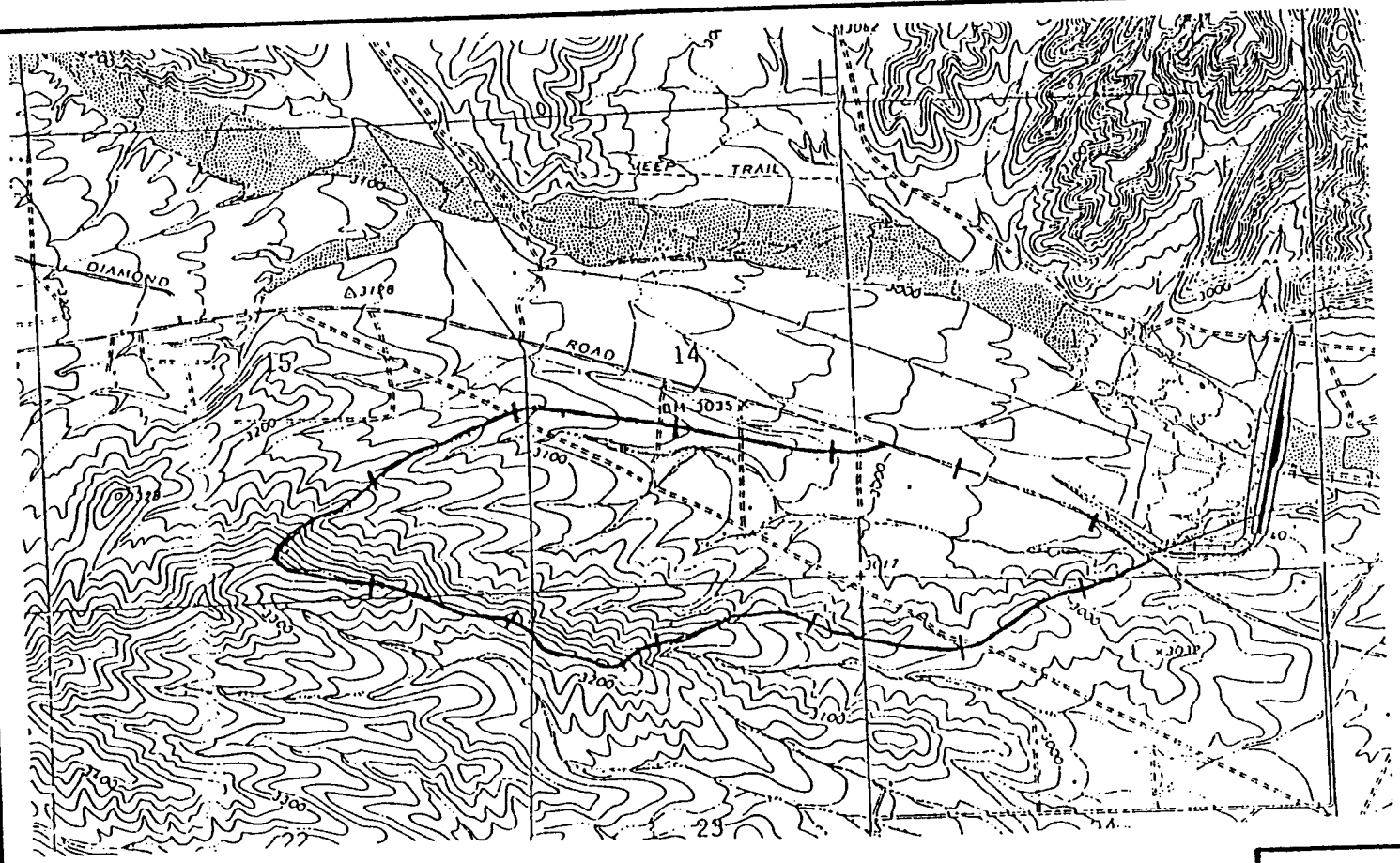
SUBMITTED BY:
ROBERT J. HALL, P.E.
CHIEF, ENGINEERING DIVISION

SPEC. NO. DACW09-90-B-0007

DISTRICT FILE NO. 2980/

SCALE: AS SHOWN

SHEET 1 OF 18 SHEETS



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SCALE 1:24 000

1 0 5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET

LAS VEGAS WASH & TRIBUTARIES
(TROPICANA AND FLAMINGO WASHES, NEVADA)
BLUE DIAMOND DETENTION BASIN

INTERIOR DRAINAGE AREA

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

PLATE 8

1. GENERAL

This report documents specific hydrology for the Blue Diamond Detention Basin. This report updates the "Hydrologic Basis for Design, Las Vegas Wash & Tributaries, Tropicana and Flamingo Washes, Nevada," dated June 1993.

Hydrologic information, such as general description of the drainage area, precipitation and runoff, reservoir design and spillway design flood determination, and sediment yield estimation, were given in "Technical Documentation Report, Las Vegas Wash & Tributaries (Tropicana and Flamingo Washes), Nevada," dated October 1991 (herein called the 1991 Technical Documentation). Design information for Blue Diamond Detention Basin was reviewed and refined as necessary and documented in the "Hydrologic Basis for Design, Las Vegas Wash & Tributaries, Tropicana and Flamingo Washes, Nevada," dated June 1993 (herein called the 1993 Hydrologic Basis for Design).

Blue Diamond Detention Basin is a feature of the Las Vegas Wash and Tributaries project shown on Plate 1. The Blue Diamond Wash originates in the Spring Mountains near the area called Sandstone Bluffs (see Plate 2). The wash flows southward between Sandstone Bluffs and the foothills forming its border with Flamingo and Tropicana Washes then turns and flows eastward through Cottonwood Valley to the Blue Diamond Detention Basin site.

Downstream from Blue Diamond Detention Basin at the fan apex, a flow split exists where historically the flow splits northward towards Tropicana Wash and southward towards Duck Creek (see Plate 1). Blue Diamond Detention Basin spillway flow and/or flow which exceeds downstream channel capacity will overflow across the alluvial fan. The northern portion of the flow will head northward towards Tropicana Wash and the Beltway. The southern portion of the flow will follow the natural terrain and eventually flow into Duck Creek.

2. SYNTHESIS OF RESERVOIR DESIGN FLOOD

2.1 General

The detention basin was designed to control the reservoir design flood (RDF), a 100-year computed probability event, based on a 6-hour summer thunderstorm. The reservoir profile is shown on Plate 4. The level of protection was determined in the NED analysis and is documented in the 1991 Technical Documentation.

2.2 Precipitation

The 100-year design storm was critically centered over the 176.77 km^2 drainage area of Blue Diamond Detention Basin. Table 1 lists the subareas contributing to Blue Diamond Detention Basin. Rainfall excess was determined by applying a constant loss rate of 12.70 mm/hr. The design storm and the 12.70 mm/hr loss rate were determined in the calibration phase of the feasibility study, documented in the 1991 Technical Documentation. Centering of the rainfall resulted in uniform rainfall depth and intensity being applied over the entire drainage area above Blue Diamond Detention Basin. The average total 6-hour rainfall was 56.4 mm, and the intensity pattern number was 4.95.

2.3 Transposition Factor

The transposition factor (TF) is the ratio of average point rainfall from 100-year, 6-hour isopluvial maps (NOAA Atlas II) to the 100-year, 6-hour point rainfall at McCarran Airport from NOAA Atlas II. To account for orographic differences between rainfall at McCarran Airport and other locations in the Las Vegas area, average TFs were developed by James Montgomery Engineering (JMM) for Clark County Regional Flood Control District for all of the subareas in the project area. By using a weighted average of all the TFs from the applicable subareas, the average TF for the area above Blue Diamond Detention Basin was determined. The rainfall depth was determined by multiplying the depth found in the depth-area relationships (Plate 16 of the 1991 Technical Documentation) by a transposition factor of 1.26 as shown in the equation below.

Depth from depth-area relationships	X	TF	=	Depth Used
44.7 mm	X	1.26	=	56.4* mm

* NOTE: Calculation performed in English and then converted to metric.

A more detailed discussion of the TF can be found in the 1993 Hydrologic Basis for Design.

2.4 Rainfall-Runoff Model

The RDF was determined using the stream system analysis approach. A subarea map is displayed on Plate 2. The Soil Conservation Service (SCS)

dimensionless unit hydrograph method was used to develop the subbasin unit hydrographs. Only one input parameter is required to develop the SCS unit hydrograph, the lag time of the subbasin. SCS subarea lag times are listed in Table 2.

LAPRE-1 preprocessor and computer program HEC-1 were used to develop subarea hydrographs, and to route and combine subarea hydrographs. A unit computation time interval of 5 minutes was required to adequately define the runoff hydrograph.

2.5 Base Flow and Snow Melt

Base flow is considered negligible for this study area as runoff occurs only as a direct response to moderate to high intensity rainfall. Allowance for snowmelt is inappropriate in this region for storms occurring in the summer season.

2.6 Flood Routing

Channel routing for the natural channels was performed using the Muskingum method. Routing parameters for the reaches upstream from Blue Diamond Detention Basin, which are not being improved, were taken without change from the 1993 Basis for Design. The value of X used for these undeveloped areas was 0.15. The Muskingum coefficient K, which represents the flood wave travel time, was determined from velocity computations. The Muskingum routing parameters are listed in Table 3. A schematic routing diagram for the drainage area is shown on Plate 3.

Reservoir routing through the detention basin was accomplished by use of the Modified Puls routing procedure. Reservoir elevation-storage-outflow relationships for the Blue Diamond Detention Basin are listed in Table 4.

2.7 Results

The hydrologic routing results for Blue Diamond Detention Basin are listed in Table 5. Plate 5 shows the reservoir design flood routing, including basin hyetograph, inflow hydrograph, outflow hydrograph, and reservoir stage. The detention basin filled to a maximum water surface elevation of 903.75 m NAVD about 8 hours after the start of precipitation during the RDF. The maximum discharge through the outlet was 6.03 m^3/s.

The storage space recovered 1, 2, and 3 days after the reaching of maximum water surface elevation was 18%, 36%, and 53% respectively. Less than 7 days after maximum water surface elevation, 99% of the total storage space was recovered. Table 6 lists the detention basin design parameter values, which have changed since finalization of the 1993 Hydrologic Basis for Design.

3. SYNTHESIS OF PROBABLE MAXIMUM FLOOD

3.1 General

The probable maximum flood (PMF) is required for spillway design at Blue Diamond Detention Basin. The spillway design is an embankment overflow section. Determination of the probable maximum precipitation (PMP) was based on Hydrometeorological Report No. 49, Probable Maximum Precipitation Estimates, Colorado River and Great Basin Drainages, NWS, September 1977. Because of the relatively small size of the drainage area, the 6-hour duration local storm PMP was the critical duration storm.

3.2 Probable Maximum Precipitation

The average depths of the PMP over the Blue Diamond drainage area for 15 minutes, 30 minutes, 1 hour, 2 hours, 3 hours, and 6 hours are listed in Table 7. The PMP was centered over the watershed, and rainfall excess was determined by applying a constant loss rate of 6.35 mm/hr.

3.3 Rainfall-Runoff Model

The PMF was determined using the same hydrologic model as the RDF, except that channel routing coefficients were adjusted to account for lower velocities because of larger amounts of overbank flow. Muskingum routing coefficients used for the PMF are listed in Table 8. The area contributing to Blue Diamond Detention Basin during a PMF is shown on Plate 2.

Computer program HEC-1 was used for routing and combining subarea hydrographs. A computation interval of 15 minutes was used to define the PMF runoff hydrograph for Blue Diamond Detention Basin.

3.4 PMF Flood Routing

Blue Diamond Detention Basin was assumed to be filled to spillway crest prior to the PMF routing. The outlet was assumed to be unplugged and functioning, although the contribution to the total outflow was insignificant during the PMF.

3.5 Results

The hydrologic routing results for the probable maximum flood are included in Table 9. The hyetograph, inflow hydrograph, outflow hydrograph, and reservoir stage are shown on Plate 6. The maximum water surface elevation was 906.05 m NAVD.

4. SEDIMENT AND DEBRIS YIELD

4.1 General

Debris yield and sediment yield estimates were required for design of Blue Diamond Detention Basin, and for Operation and Maintenance purposes. "Debris yield" refers to the result from a single flood event. "Sediment yield" is the term used to describe the average annual accumulation of sediment/debris.

4.2 Method

The method and procedure for making debris yield and sediment yield estimates is presented in the 1991 Technical Documentation. Calculations for this report were performed in English units as shown in this section. The results have been converted to metric units. The equations for a drainage area of 50 to 200 mi^2 are:

(1) $\text{Log DY} = 1.02(\text{LogQ}) + 0.23(\text{Log RR}) + 0.13(\text{FF}) + 0.16(\text{Log A})$

(2) Debris Estimate of Study Area = (A/T)(DY)(DA)

Where:
- DY = Debris Yield (yd^3/mi^2)
- Q = Unit Peak Discharge ($ft^3/s/mi^2$)
- RR = Relief Ratio (ft/mi)
- FF = Fire Factor (dimensionless)
- A = Drainage Area (ac)
- A/T= Adjustment/Transposition Factor (dimensionless)
- DA = Drainage Area of the study watershed (mi^2)

The debris yield estimate for Blue Diamond Detention Basin was determined using the 100-year computed probability peak discharge. The values used in equations (1) and (2) above were:

- DA = 68.25 mi^2
- Q = 202 $ft^3/s/mi^2$ (calculated from 100-year peak discharge of 13,800 cfs, and the DA of 68.25 mi^2)
- RR = 316 (from Table 24 of the 1991 Technical Documentation)
- FF = 3.00 (from Table 24 of the 1991 Technical Documentation)
- A/T= 0.5 (from Table 24 of the 1991 Technical Documentation)
- A = 43,680 ac (converted from Drainage Area of 68.25 mi^2)

4.3 Results

The 100-year computed probability debris yield estimate for Blue Diamond Detention Basin is 293,571 m^3, which is included in the inflow hydrograph presented on Plate 5. The average annual sediment yield is 19,571 m^3/yr (1/15 of the 100-year computed probability debris yield). No antecedent debris accumulation was included in the detention basin design since the local sponsor has indicated they will perform O&M clean-outs after each storm or on an annual basis.

5. INTERIOR DRAINAGE

There is one interior drainage area for the Blue Diamond Detention Basin. It measures 1.55 km^2 and is located south of Blue Diamond Road (Plate 8). Present conditions allow flow from this area to cross under the road through a 1.22 x 1.83 meter box culvert. The project will extend this culvert through the south embankment of the dam, through the reservoir, and through the east embankment where it will discharge into Blue Diamond Wash. In addition to this area, there is a small 0.26 km^2 area between the road and the dam embankment which will be trapped by the project. This area will be graded to drain downstream of the dam.

Table 1. Contributing Area to Blue Diamond Detention Basin - With-Project

Detention Basin	Area Naturally Contributing to Detention Basin	
	Subarea	Drainage Area (km^2)
Blue Diamond Total D.A.= 176.77 m^2	71 501 502 72 73 503 504	17.87 29.22 70.97 17.04 10.41 14.35 16.91 ------ 176.77

4/29/96

Note: Blue Diamond Detention Basin receives no regulated or diverted flow.

Table 2. Soil Conservation Service (SCS) Subarea Parameters

Subarea	Drainage Area (km^2)	Lag (hrs)	Percent Imperviousness (%)
71	17.87	0.42	0
72	17.04	0.46	0
73	10.41	0.47	0
501	29.22	0.45	0
502	70.97	0.95	0
503	14.35	0.94	2
504	16.91	0.91	0

See Plate 2 for location of subareas.
Taken from Table 14, 1993 Basis for Design.

5/22/96

Table 3. Muskingum Routing Parameters
Natural Conditions, 100-Yr Flood

Channel Reach	Reach Length (km)	Average Velocity (m/s)	NSTPS[1] (No. of sub-reaches)	Muskingum K (hrs)	Muskingum X
ROUTING REACHES ABOVE BLUE DIAMOND DETENTION BASIN (No Revisions from 1993 Hydrologic Basis for Design)					
71-501[2]	4.26	3.05	5	0.39	0.15
501-502[2]	4.46	3.05	5	0.40	0.15
502-503[2]	4.75	3.66	4	0.36	0.15
73-503[2]	4.67	3.66	4	0.36	0.15
503-504[2]	4.75	3.66	4	0.36	0.15

(1) Based on 5-minute computation interval.
(2) Unimproved channel.

8/16/96

Table 4. Elevation-Storage-Outflow Relationships
Blue Diamond Detention Basin - With-project Conditions[1]

Elevation (m NAVD)	Storage Capacity (m^3)	Spillway Discharge (m^3/s)	Outlet Discharge (m^3/s)	Total Outflow (m^3/s)
889.33	0	0.00	0.00	0.00
890.02	2542	0.00	1.36	1.36
890.63	10692	0.00	1.78	1.78
891.54	35693	0.00	2.35	2.35
893.06	121751	0.00	3.07	3.07
893.67	175239	0.00	3.32	3.32
894.59	278726	0.00	3.66	3.66
896.11	514585	0.00	4.16	4.16
896.72	627276	0.00	4.35	4.35
897.64	814934	0.00	4.61	4.61
899.16	1185873	0.00	5.02	5.02
899.77	1356051	0.00	5.18	5.18
900.68	1634131	0.00	5.40	5.40
902.21	2162550	0.00	5.75	5.75
902.82	2402046	0.00	5.89	5.89
903.75	2797687	0.00	6.09	6.09
904.04	2938097	162.09	6.15	168.24
905.26	3541036	2119.90	6.40	2126.30
905.87	3868019	3681.53	6.52	3688.05
906.17	4038485	4555.63	6.58	4562.22

Spillway Crest = 903.75 m NAVD
Top of Dam = 907 m NAVD
(1) Values Differ from Table 3, 1993 Basis for Design.

11/12/97

Table 5. Hydrologic Routing Results - Reservoir Design Flood

Blue Diamond Detention Basin	Drainage Area (km^2)	Maximum Inflow (m^3/s)	Inflow Volume[1] (m^3)	Maximum Outflow (m^3/s)	Maximum Elevation (m NAVD)	Maximum Storage (m^3)
	176.77	390.77	2,923,371 [2]	6.03	903.75 [2]	2,791,388[2]

[1] 24-hour volume.
[2] Value differs from Table 10, 1993 Hydrologic Basis for Design.
Values are from Table 10, 1993 Hydrologic Basis for Design, except as noted.

10/24/96

Table 6. Hydrologic Design Parameters for Blue Diamond Detention Basin

BLUE DIAMOND DETENTION BASIN Drainage Area = 176.77 m^2	
Outlet Sill Elevation	889.33 m NAVD
Outlet Opening	762 mm square opening
Maximum Discharge at Spillway Crest	6.03 m^3/s
Spillway Crest Elevation	903.75 m NAVD
Spillway Crest Length	550 m
Storage at Spillway Crest	2,797,691 m^3
All values differ from Table 9, 1993 Hydrologic Basis for Design.	

11/12/97

Table 7. Probable Maximum Precipitation Values

Location	Drainage Area km²	Precipitation Depths[1]					
		15-min mm	30-min mm	1-hr mm	2-hr mm	3-hr mm	6-hr mm
Blue Diamond Detention Basin	176.77	79	114	150	185	211	246

[1] Centered over
Values are from Table 19, 1993 Hydrologic Basis for Design.

5/1/96

Table 8. Muskingum Routing Parameters
Natural PMF Conditions

Channel Reach	Reach Length (km)	Average Velocity (m/s)	NSTPS[1] (No. of sub-reaches)	Muskingum "K" (hrs)	Muskingum "X"
71-501	4.26	1.83	3	0.65	0.10
501-502	4.46	2.44	2	0.51	0.10
72-503	4.75	2.44	2	0.54	0.10
73-503	4.67	1.83	3	0.72	0.10
502-503	4.75	3.66	1	0.36	0.15
503-504	4.75	3.66	1	0.36	0.15

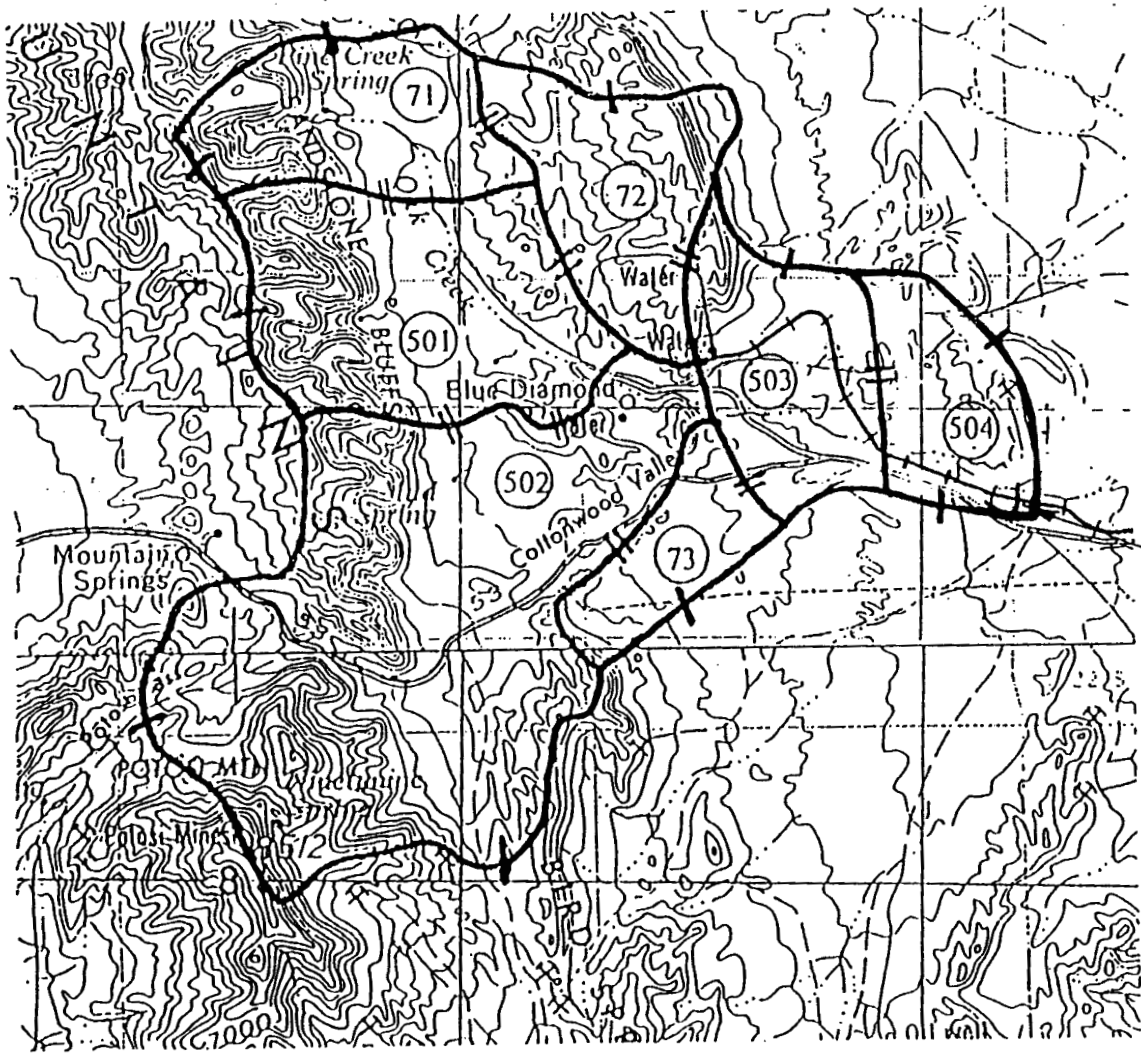
(1) Based on 15-minute computation interval.
Values from Table 21, 1993 Basis for Design

Table 9. Hydrologic Routing Results - Probable Maximum Flood

Blue Diamond Detention Basin	Drainage Area (km^2)	Maximum Inflow (m^3/s)	Inflow Volume[1] (m^3)	Maximum Outflow (m^3/s)	Maximum Elevation (m NAVD)	Maximum Storage (m^3)
	176.77	4,105.94	36,881,351[2]	4,105.94	906.05[2]	3,963,203[2]

[1] 24-hour volume.
[2] Value differs from Table 10, 1993 Hydrologic Basis for Design Values are from Table 10, 1993 Hydrologic Basis for Design, except as noted.

10/24/96



LEGEND

Drainage Area Boundary

Subarea Boundary

(71) Subarea Number

BLUE DIAMOND DAM

N

-8.05 0 8.05 km

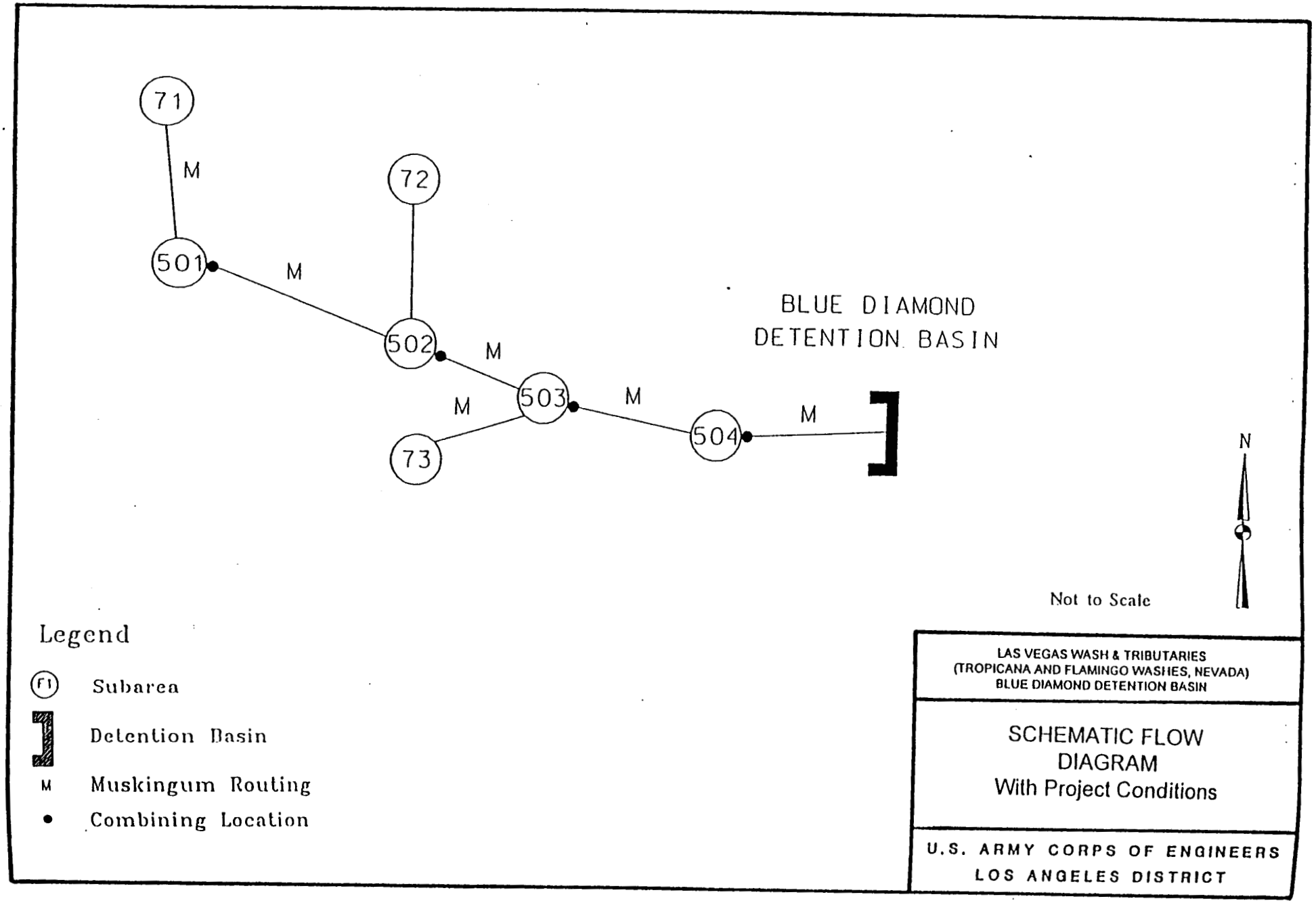
SCALE

LAS VEGAS WASH & TRIBUTARIES
(TROPICANA AND FLAMINGO WASHES, NEVADA)
BLUE DIAMOND DETENTION BASIN

DRAINAGE AREA MAP

U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

PLATE 2


71
M
72
501
M
502
M
503
M
504
M
73
M
BLUE DIAMOND
DETENTION BASIN
N
Not to Scale
Legend
Subarea
Detention Basin
M Muskingum Routing
Combining Location
LAS VEGAS WASH & TRIBUTARIES
(TROPICANA AND FLAMINGO WASHES, NEVADA)
BLUE DIAMOND DETENTION BASIN
SCHEMATIC FLOW
DIAGRAM
With Project Conditions
U.S. ARMY CORPS OF ENGINEERS
LOS ANGELES DISTRICT

Appendix VI: Input and Output Files – Computer Diskettes

as14059

DEVA mod summary.xls
06/10/03 09:45

DEATH VALLEY NATIONAL PARK
COW CREEK MAINTENANCE FACILITY
CONTRACT NO. 1443C8000010902 DEVA-500

RFP #	RFP DATE	DATE OF PROP.	SCOPE	AMOUNT SUBMITTED	ACTION	DATE	AMOUNT APPROVED
1	11/15/01	1/7/02	Clay Soil Conditions, Building CC348	$30,394.00	Mod #1	2/25/02	$30,394.00
2	11/15/01	1/2/02	Sewer System Revision	$18,811.01	Mod #1	2/25/02	$18,811.00
3	1/11/02	2/6/02	Electrical Revisions Drawing E15, Sheet 208/E16 Sheet 204	$64,751.85	Mod#2	5/23/02	$51,454.83
4	1/11/02	2/6/02	Application of Waterproofing/Adobe Building Foundations	$17,280.17	Mod#2	5/23/02	$10,189.56
5	1/11/02	2/6/02	Block Perimeter Wall - Credit	-$9,950.35	Mod#2	5/23/02	-$9,559.00
6	1/23/02	3/25/02	Power to Building CC52	$5,829.73	Mod#2	5/23/02	$5,829.73
7	1/29/02	5/5/02	*Waterproofing and Drainage Below Grade/ CC348*	$27,662.44	Mod#3	9/25/02	$17,568.08
8	2/14/02	3/21/02	Replacement of Deteriorated Deck Joists	$681.86	Mod#2	5/23/02	$681.86
9	2/28/02	3/21/02	Lintels for CC348	$14,482.00	Mod#2	5/23/02	$14,482.00
~~10~~		~~3/21/02~~	~~Outside Lights, Motion/PC Sensors/3way Stair/Hall Switches~~	~~$4,130.79~~	~~None~~		
11		3/21/02	Additional Painting	$2,507.00	Mod#2	5/23/02	$2,507.00
12	3/31/02	6/6/02	Jensen 320 gal. Oil Interceptor-CC348	$13,419.06	Mod#3	9/25/02	$11,418.00
13	4/5/02	6/8/02	Structural Modifications CC-55 - $776.67 CC62 - $13,388.65 CC 348 - orig. $50,170.21 (neg. $44,536.51)	$64,336.07	Mod#4	11/19/02	$58,701.83
14	4/8/02	4/25/02	Fiberglass Grates-High Load Cap	$17,656.04	Mod #3	9/25/02	$12,664.00
~~15~~	~~4/22/02~~	~~5/31/02~~	~~Painting for Overhead Doors - $2,786.00 gov. est.~~	~~$9,256.22~~	~~None~~		
16	4/29/02	5/13/02	Additional Siding & Batten for CC-62				
		n/a	Additional Siding for CC-62	$11,185.88	Mod #3	9/25/02	$6,779.74
		n/a	Additional Batten for CC-62	$3,493.75	Mod #3	9/25/02	$3,001.50
17	5/10/02	5/22/02	GSM Fascia - Building CC348	$1,928.75	Mod#3	9/25/02	$1,928.75
18	6/4/02	7/23/02	Struts for Overhead Doors	$600.48	Mod #3	9/25/02	$551.26
19	6/17/02	6/18/02	Insulation Support CC348 w/Purlins	$23,333.05	Mod #3	9/25/02	$15,163.90
20	8/28/02	8/30/02	Fire Line Installation to Buildings CC348, CC63 and CC54	$5,998.98	Mod #4	11/19/02	$5,998.98
21	8/28/02	9/17/02	Replacement of 2" Steel Decking for 3" on the Low Roof	$3,762.48	Mod #4	11/19/02	$3,762.48
22	8/28/02	7/12/02	Closing Holes at Structural Sheet Trusses - CC348	$1,684.50	Mod #4	11/19/02	$1,684.50
~~23~~	~~9/25/02~~	~~10/11/02~~	~~Credit for Deleted Louvers~~	~~-$7,856.80~~	~~None~~		
24	9/9/02	9/9/02	Sashes for CC50 and CC62	$758.84	Mod #4	11/19/02	$758.84
25	10/9/02	10/11/02	Credit / Boulders/Bollards/Wheelstops/ Conduit	-$12,006.00	Mod #5	02/06/03	-$12,006.00
26	10/10/02	9/6/02	Additional Grading and Credit for Excavated Soil left on site	$19,500.00	Mod #5	02/06/03	$12,148.76
27	10/10/02	12/23/02	Change out of Motors and Controls for Air Compressor	$3,301.83	Mod #6	04/08/03	$3,302.00
28	12/13/02	12/23/02	Removing blown-in insulation from CC-54.	$4,400.00	Mod #5	02/06/03	$4,400.00
29	12/13/02	12/23/02	Additonal attic fire protection for CC-54.	$15,324.75	Mod #6	04/08/03	$11,209.00
30	12/13/02	12/23/02	Additional concrete foundation repair - CC-54 and CC-57.	$1,083.76	Mod #5	02/06/03	$1,080.00
31	12/17/02	12/23/02	Joist/Beam Connection for Loft - CC-54	$4,800.00	Mod #5	02/06/03	$4,300.00
~~32~~	~~12/17/02~~	n/a	~~A35 Clips to Secure Roof - CC-54~~		~~None~~		
33	1/16/03	1/24/03	CC-54: Steel/Existing Rafter Connections to Secure Roof	$10,033.85	Mod #6	04/08/03	$6,381.00
34	1/16/03	1/24/03	CC-54: Electrical Modifications	$10,854.79	Mod #6	04/08/03	$10,411.00
35	1/22/03	1/24/03	Credit for Aluminum Windows, Topsoil, Concrete Pads/Sidewalks	-$25,950.00	Mod #6	04/08/03	-$25,950.20
36	4/2/03	4/8/03	CC-54 and CC-348: Shade Structures for Mechanical Equipment	$0.00	Mod #7		$0.00
~~37~~	~~4/14/03~~	~~4/18/03~~	~~Relocation of Propane Tank~~	~~$687.24~~	~~None~~		
~~38~~	~~n/a~~	~~5/2/03~~	~~Parts Room Light Fixture Repair~~	~~$1,393.84~~	~~None~~		
~~39~~	~~n/a~~	~~5/16/03~~	~~Left-over CMU~~	~~$3,225.60~~	~~None~~		
				$362,787.46			$280,048.40
					Negotiated Savings =		$82,739.06

as14059

DEVA mod summary.xls
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DEATH VALLEY NATIONAL PARK
COW CREEK MAINTENANCE FACILITY
CONTRACT NO. 1443C8000010902 DEVA-500

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9	2/28/02	3/21/02	Lintels for CC348	$14,482.00	Mod#2	5/23/02	$14,482.00
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~~32~~	~~12/17/02~~	~~n/a~~	~~A35 Clips to Secure Roof - CC-54~~		~~None~~		

DEATH VALLEY NATIONAL PARK
COW CREEK MAINTENANCE FACILITY
CONTRACT NO. 1443C8000010902 DEVA-500

33	1/16/03	1/24/03	CC-54: Steel/Existing Rafter Connections to Secure Roof	$10,033.85	Mod #6	04/08/03	$6,381.00
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~~37~~	~~4/14/03~~	~~4/18/03~~	~~Relocation of Propane Tank~~	~~$687.24~~	~~None~~		
~~38~~	~~n/a~~	~~5/2/03~~	~~Parts Room Light Fixture Repair~~	~~$1,393.84~~	~~None~~		
~~39~~	~~n/a~~	~~5/16/03~~	~~Left-over CMU~~	~~$3,225.60~~	~~None~~		
				$362,787.46			$280,048.40
					Negotiated Savings =		$82,739.06