Conditional Letter of Map Revision
Union Hills Service Center

Prepared For

STREET TRANSPORTATION DEPARTMENT
CITY OF PHOENIX
200 WEST WASHINGTON STREET
5TH FLOOR
PHOENIX, ARIZONA 85003

Prepared by:

Aspen Consulting Engineers
426 N. 44th Street, Suite 370
Phoenix, Arizona, 85008

City of Phoenix Project No: PW24470004
ACE Project No: P1002-3

Registered Professional Engineer (Civil)
CERTIFICATE NO. 21699
PHILIP O. LOWE
Date Signed 5/11/06
ARIZONA, U.S.A.

May 2006

City of Phoenix

STREET TRANSPORTATION DEPARTMENT

May 31, 2006

FEMA DEPOT
3601 Eisenhower Avenue
Alexandria, Virginia 22304

In Reply to:
Case No.: 06-09-B371C
Community: City of Phoenix, AZ
Community No.: 040051
316-AD

ATTN: LOMR Depot

RE: CONDITIONAL LETTER OF MAP REVISION (CLOMR)
UNION HILLS MAINTENANCE SERVICE CENTER, PHOENIX, AZ
PANEL 04013C1215K, SEPTEMBER 30, 2005

Please find enclosed a revised Conditional Letter of Map Revision (CLOMR) application for Union Hills Service Center in Phoenix, Arizona. The following items are included with this application.

ITEMS:

1- Check for Additional $3,500.00.
2- Overview & Concurrence Form.
3- Hydrology and Hydraulics Form.
4- Payment Information Form.
5- Ownership Information (Appendix A).
6- Duplicate Effective Model (Appendix B).
7- Revised Model (Appendix C).

A Conditional Letter of Map Revision-Based on Fill (CLOMR-F) was submitted dated February 9, 2006. An application fee of $500.00 was paid at that time. Subsequently, after a first review of the application, we have been advised that a more appropriate approach is to submit a Conditional Letter of Map Revision (CLOMR) instead. Therefore, we are submitting a Conditional Letter of Map Revision (CLOMR) with this correspondence. An additional $3,500.00 is also included with this application.

If you have any technical questions regarding this project, please contact Mr. Philip Lowe, P.E., Aspen Consulting Engineers, phone number 602-231-9221, fax 602-231-8977. If you have any other questions, please contact this office at 602-262-4960.

Sincerely,

Hasan Mushtaq, Ph.D., P.E., CFM
Floodplain Manager

Cc: Mr. Brian Cosson, CFM, Arizona Department of Water Resources
Mr. Tim Murphy, P.E., CFM, Flood Control District of Maricopa County
Mr. Philip Lowe, P.E., Aspen Consulting Engineers
Mr. Gregory Montes, City of Phoenix, Public Works Department

200 West Washington Street, Fifth Floor, Phoenix, Arizona 85003-1611 • 602-262-6284 • Fax: 602-495-2016
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Conditional Letter of Map Revision
Union Hills Service Center
List of Supporting Exhibits, Tables and Appendices

Exhibits

Exhibit 1. Existing FIRM Map Showing Project Location and Requested FIRM Changes.

Exhibit 2. Working Map for FIRM HEC-2 Analysis.

Exhibit 3. Working Map Showing Ineffective Flow Area.

Exhibit 4. Cave Creek FIRM Cross Section AU (Working Map Cross Section CN/22.410).

Exhibit 5. Cave Creek FIRM Cross Section AV (Working Map Cross Section CO/22.483).

Exhibit 6. Cave Creek FIRM Cross Section AW (Working Map Cross Section CP/22.578).

Exhibit 7. Project Phase 1 Grading Plan and Proposed Phase 1 Floodplain Limits.

Exhibit 8. Project Phase 1+2 Grading Plan and Proposed Phase 1+2 Floodplain Limits.

Exhibit 9. Project Phase 1+2+3 Grading Plan and Proposed Phase 1+2+3 Floodplain Limits.

Exhibit 10. Cave Creek Cross Section CO.1/22.50 Existing Conditions.

Exhibit 11. Cave Creek Cross Section CO.1/22.50 With Project Conditions.

Tables

Table 1. Existing Conditions Floodplain Cross Sections and Water Surface Elevations.

Table 2. Without-Project Water Surface Elevations with Cross Section CN/22.50 Added.

Table 3. With-Project Water Surface Elevations with Cross Section CN/22.50 Added.

Appendices

Appendix A. Assessor's Parcels.

Appendix B. Original FIRM HEC-2 Run (Input and Output).

Electronic File: CAVEFW.dat

Appendix C. Original FIRM HEC-2 Run Modified to Reflect Encroachments at the Location of the Proposed Fill (Input and Output).
Electronic File: COENC.dat

Appendix D. Original FIRM HEC-2 Run Modified to Include Cross Section CO.1/22.50 for Existing Conditions (Input and Output).
Electronic File: CAVEFWnx.dat

Appendix E. Original FIRM HEC-2 Run Modified to Include Cross Section CO.1/22.50 for With-Project Conditions (Input and Output).
Electronic File: CAVEFnxF.dat

Appendix F. Grading Cross Sections (Not Referred to in the Report Text).

Existing Floodplain

The existing FIRM map is shown in Exhibit 1. FIRM cross sections AT, AU, AV, AW, AX, AND AY represent the floodplain at the project site, with AT being just downstream of the project, and AY just upstream. The project is also shown on Exhibit 1. The HEC-2 analysis for the FIRM map is provided in Appendix B. The working map for the HEC-2 analysis is provided in Exhibit 2. Table 1 provides a summary of cross section numbers and water surface elevations from the FIRM map, HEC-2 run, and working map. These are the cross sections that encompass the project upstream and downstream.

Table 1. Existing Conditions Floodplain Cross Sections and Water Surface Elevations.

FIRM Cross Section Number From Exhibit 1	100-Year Water Surface Elevation from FIRM Map*	100-Year Water Surface Elevation From Flood Insurance Study Cross Sections**	Working Map Cross Section Number From Exhibit 2	Working Map Water Surface Elevation From Exhibit 2	HEC-2 Cross Section Number From Appendix B	HEC-2 Water Surface Elevation From Appendix B
EXISTING CONDITIONS						
AU	1414.4	1414.2	CN/22.410	1414.2	22.410	1414.2
AV	1416.8	1416.5	CO/22.483	1416.5	22.483	1416.5
AW	1417.0	1416.3	CP/22.578	1416.5	22.578	1416.3
AX	1418.1	1418.0	CQ/22.675	1418.0	22.675	1418.0
AY	1418.9	1418.6	CR/22.794	1418.6	22.794	1418.6
EXISTING CONDITIONS WITH FLOODWAY						
AU	1414.4	1414.2	CN/22.410	1414.2	22.410	1414.1
AV	1416.8	1416.8	CO/22.483	1416.7	22.483	1416.7
AW	1417.0	1417.0	CP/22.578	1417.2	22.578	1417.2
AX	1418.1	1418.7	CQ/22.675	1418.7	22.675	1418.7
AY	1418.9	1419.5	CR/22.794	1419.5	22.794	1419.5

All elevations are NGVD 1929
* Interpolated from the map.
** FIS #04013CV002A Revised September 30, 2005.

The 100-year floodplain in the vicinity of the project consists of a channel, through which flow is conveyed, and a low area adjacent to (east of) the channel which is inundated through a relatively narrow gap, but which provides no flood conveyance. The shaded area shown in Exhibit 3 represents this ineffective flow area into which 100-year flows spill but cannot escape except back through the spill area located between Cross Sections CO/22.483 and CP/22.578 (Note: For purposes of this discussion, the Working Map cross section numbering designations will be used. Refer to Table 1 to see corresponding cross section numbers for the FIRM maps and HEC-2).

There is no connection between that portion of the floodplain shown as the shaded area in Exhibit 3 and the main channel floodplain downstream of Cross Section CO/22.483, nor upstream of Cross Section CP/22.578. Between these cross sections the ineffective flow area shown in Exhibit 3 is indicated by an assumed 1:1 contraction and 4:1 expansion as is typically used in modeling bridges. The area outside (east) of the expansion/contraction lines shown in Exhibit 3 is considered ineffective flow area. Fill placed within this ineffective flow area will not obstruct flow and should have no effect on the adjacent water surface elevations.

Cross sections through the project site, with 100-year water surface elevations, are provided in Exhibits 4, 5 and 6. These cross sections show that the ineffective flow area described above was not modeled as a conveyance area in the development of the FIRM.

Project Description

The proposed project consists of filling the ineffective flow area shown in Exhibit 3 with clean fill to an elevation above the adjacent 100-year flood elevation. The proposed fill is as shown on Exhibits 7, 8 and 9, respectively. Exhibit 7 represents the project Phase 1, Exhibit 8 is Phases 1 plus 2, and Exhibit 9 is Phases 1, 2 and 3 together. This phasing order represents the intended order of fill placement. A separate CLOMR is requested for each of the phases described in Exhibits 7, 8, and 9.

The floodplain fill for all project phases will be limited to the ineffective flow area described under "Existing Floodplain" above. This is illustrated in Exhibits 4, 5 and 6. All of the fill will be above the adjacent 100-year floodplain/floodway elevation. In the case of fill placed downstream of Cross Section CP/22.578, the top of fill will be above the regulatory flood elevation for that portion of the ineffective flow area. No fill will be placed in the floodway.

Hydraulic Analysis

Existing conditions cross sections from the Appendix B HEC-2 runs are provided in Exhibits 4 to 6. These exhibits also show the adjacent ground in the left overbank, and the location of the proposed fill. In every case, the proposed fill is outside the limits of the FIRM HEC-2 cross section, indicating that fill in these areas will not obstruct conveyance and will not affect regulatory water surface elevations.

Appendix C contains floodplain/floodway HEC-2 runs modified to show the effect of assumed left overbank encroachments at the location of the proposed project shown in Exhibit 9. This run uses left overbank encroachments to simulate the proposed fill for Cross Sections CN/22.41, CO/22.483 and CP/22.578. With-project water surface elevations for these and all cross sections are identical to those given in Table 1 for existing conditions.

The existing conditions FIRM HEC-2 run has no cross section at the location of the breakout between Cross Sections CO/22.483 and CP/22.578. In order to evaluate the assumption of ineffective flow as shown in Exhibit 3, a new cross section, designated as CO.1/22.50, was added at the location shown in Exhibit 3. This cross section, intended for illustrative purposes only, is shown in Exhibit 10. The left bank station was placed at Station 9650 (Elevation 1418) in the HEC-2 run, and a levee encroachment (Variable IERA = 10 in Field 1 of the HEC-2 X3 Record) was added to determine whether flow is likely to occur to the left of the high point at Station 9650. This HEC-2 run is provided in Appendix D. Aside from the addition of Cross Section CO.1/22.50, this run is identical to the run provided in Appendix B.

The purpose of the HEC-2 run provided in Appendix D is to demonstrate the ineffective flow area in the left overbank at Cross Section CO.1/22.50,. This run is not intended to be used to revise the FIRM. The results are summarized in Table 2. Cross Section CO.1/22.50 has a water surface elevation of 1416.5, with a left overbank floodplain intersection point (HEC-2 code SSTA) of 9693.49, indicating that flow does not overtop the high point at Station 9650. The area to the left of Station 9650 is ineffective flow area.

Table 2. Without-Project Water Surface Elevations with Cross Section CN/22.50 Added.

FIRM Cross Section Number From Exhibit 1	Working Map Cross Section Number From Exhibit 3	HEC-2 Cross Section Number From Appendix B	HEC-2 Water Surface Elevation From Appendix B (Original Run)	HEC-2 Water Surface Elevation With Cross Section CN/22.50 Added Appendix D
AU	CN/22.410	22.410	1414.2	1414.2
AV	CO/22.483	22.483	1416.5	1416.5
Not Applicable	CO.1/22.50	Not Applicable	Not Applicable	1416.5
AW	CP/22.578	22.578	1416.3	1416.6
AX	CQ/22.675	22.675	1418.0	1418.1
AY	CR/22.794	22.794	1418.6	1418.6

Exhibit 11 shows the maximum extent of proposed fill at Cross Section CO.1/22.50. A HEC-2 run showing the effect of this fill is provided in Appendix E. The results are summarized in Table 3. These results show that there will be no increase in floodplain elevation with the addition of the proposed fill (The Appendix E HEC-2 run is not intended to be used to revise the FIRM. Cross Section CO.1/22.50 is not intended to be used in the official FIRM analysis). The proposed project will have no effect on floodplain elevations. The FIRM can be revised as indicated in the application without affecting floodplain elevations.

Table 2. With-Project Water Surface Elevations with Cross Section CN/22.50 Added.

FIRM Cross Section Number From Exhibit 1	Working Map Cross Section Number From Exhibit 3	Without-Project HEC-2 Water Surface Elevation From Appendix D	With-Project HEC-2 Water Surface Elevation From Appendix E
AU	CN/22.410	1414.2	1414.2
AV	CO/22.483	1416.5	1416.5
Not Applicable	CO.1/22.50	1416.5	1416.5
AW	CP/22.578	1416.6	1416.5
AX	CQ/22.675	1418.1	1418.1
AY	CR/22.794	1418.6	1418.6

As stated in the introduction, the project will be installed in three phases. Maximum possible impact on the floodplain would occur with all three phases in place. Since this has been demonstrated to have no effect on the floodplain, Phases 1 and 1+2 will likewise have no effect on the floodplain.

Explanation of MT-2 Form Entries

MT-2 Form 2 Page 1 of 2, A. Hydrology

No change in hydrology is requested by this application.

MT-2 Form 2 Page 1 of 2, B. Hydraulics

A hydraulic analysis was performed and is described under "Hydraulic Analysis" above. This hydraulic analysis is for reference and background purposes only, and demonstrates that the proposed project will have no effect on conveyance or water surface elevations. No change in the FIRM hydraulic analysis is proposed. No change in FIRM water surface elevations is proposed.

MT-2 Form 2 Page 2 of 2, C. Mapping Requirements

Effective FIRM work map submitted.

FEMA Forms Submitted

MT-2 Form 1
MT-2 Form 2
Payment Information Form

U.S. DEPARTMENT OF HOMELAND SECURITY - FEDERAL EMERGENCY MANAGEMENT AGENCY

OVERVIEW & CONCURRENCE FORM

O.M.B No. 1660-0016
Expires: August 31, 2007

PAPERWORK BURDEN DISCLOSURE NOTICE

Public reporting burden for this form is estimated to average 1 hour per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless a valid OMB control number appears in the upper right corner of this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, U.S. Department of Homeland Security, Federal Emergency Management Agency, 500 C Street, SW, Washington DC 20472, Paperwork Reduction Project (1660-0016). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. **Please do not send your completed survey to the above address.**

A. REQUESTED RESPONSE FROM DHS-FEMA

This request is for a (check one):

☒ CLOMR: A letter from DHS-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 DHS-FEMA officially revising the current NFIP map to show the changes to floodplains, regulatory floodway or flood elevations. (See Parts 60 & 65 of the NFIP Regulations.)

B. OVERVIEW

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

Community No.	Community Name	State	Map No.	Panel No.	Effective Date
040051	Phoenix, City of	AZ	04013C	1215K	09/30/05

2. Flooding Source: Cave Creek

3. Project Name/Identifier: Union Hills Service Center

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

5. Basis for Request and Type of Revision:

a. The basis for this revision request is (check all that apply)

☒ Physical Change ☐ Improved Methodology/Data

☐ Regulatory Floodway Revision ☐ Other (Attach Description)

Note: A photograph and narrative description of the area of concern is not required, but is very helpful during review.

b. The area of revision encompasses the following types of flooding and structures (check all that apply)

Types of Flooding: ☒ Riverine ☐ Coastal ☐ Shallow Flooding (e.g., Zones AO and AH)

☐ Alluvial fan ☐ Lakes ☐ Other (Attach Description)

Structures: ☐ Channelization ☐ Levee/Floodwall ☐ Bridge/Culvert

☐ Dam ☒ Fill ☐ Other, Attach Description

C. REVIEW FEE

Has the review fee for the appropriate request category been included? ☒ Yes Fee amount: $4,000

☐ No, Attach Explanation

Please see the DHS-FEMA Web site at http://www.fema.gov/fhm/frm_fees.shtm **for Fee Amounts and Exemptions.**

D. SIGNATURE

All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Name: Greg Gillian	Company: City of Phoenix	
Mailing Address: 2631 S. 22nd Avenue Phoenix, AZ 85009	Daytime Telephone No.: 602-261-8801	Fax No.: 602-534-1519
	E-Mail Address: greg.gilliam@phoenix.gov	
Signature of Requester (required):		Date: 5/5/06

As the community official responsible for floodplain management, I hereby acknowledge that we have received and reviewed this Letter of Map Revision (LOMR) or conditional LOMR request. Based upon the community's review, we find the completed or proposed project meets or is designed to meet all of the community floodplain management requirements, including the requirement that no fill be placed in the regulatory floodway, and that all necessary Federal, State, and local permits have been, or in the case of a conditional LOMR, will be obtained. In addition, we have determined that the land and any existing or proposed structures to be removed from the SFHA are or will be reasonably safe from flooding as defined in 44CFR 65.2(c), and that we have available upon request by FEMA, all analyses and documentation used to make this determination.

Community Official's Name and Title: Hasan Mushtaq, PhD., P.E., CFM, Floodplain Manager		Telephone No.: 602-262-4960
Community Name: City of Phoenix	Community Official's Signature (required):	Date: 5/31/06

CERTIFICATION BY REGISTERED PROFESSIONAL ENGINEER AND/OR LAND SURVEYOR

This certification is to be signed and sealed by a licensed land surveyor, registered professional engineer, or architect authorized by law to certify elevation information. All documents submitted in support of this request are correct to the best of my knowledge. I understand that any false statement may be punishable by fine or imprisonment under Title 18 of the United States Code, Section 1001.

Certifier's Name: Philip O. Lowe	License No.: 21699	Expiration Date: 06/30/06
Company Name: Aspen Consulting Engineers	Telephone No.: 602-231-9221	Fax No.: 602-231-8977
Signature:		Date: 5/9/2006

Ensure the forms that are appropriate to your revision request are included in your submittal.

Form Name and (Number)	Required if ...
☒ Riverine Hydrology and Hydraulics Form (Form 2)	New or revised discharges or water-surface elevations
☐ Riverine Structures Form (Form 3)	Channel is modified, addition/revision of bridge/culverts, addition/revision of levee/floodwall, addition/revision of dam
☐ Coastal Analysis Form (Form 4)	New or revised coastal elevations
☐ Coastal Structures Form (Form 5)	Addition/revision of coastal structure
☐ Alluvial Fan Flooding Form (Form 6)	Flood control measures on alluvial fans

Registered Professional Engineer (Civil) CERTIFICATE NO. 21699 PHILIP O. LOWE Date Signed 5/9/06 ARIZONA, U.S.A.

U.S. DEPARTMENT OF HOMELAND SECURITY - FEDERAL EMERGENCY MANAGEMENT AGENCY

RIVERINE HYDROLOGY & HYDRAULICS FORM

O.M.B No. 1660-0016
Expires: August 31, 2007

PAPERWORK REDUCTION ACT

Public reporting burden for this form is estimated to average 3.25 hours per response. The burden estimate includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing, reviewing, and submitting the form. You are not required to respond to this collection of information unless a valid OMB control number appears in the upper right corner of this form. Send comments regarding the accuracy of the burden estimate and any suggestions for reducing this burden to: Information Collections Management, U.S. Department of Homeland Security, Federal Emergency Management Agency, 500 C Street, SW, Washington DC 20472, Paperwork Reduction Project (1660-0016). Submission of the form is required to obtain or retain benefits under the National Flood Insurance Program. **Please do not send your completed survey to the above address.**

Flooding Source: Cave Creek
Note: Fill out one form for each flooding source studied

A. HYDROLOGY

1. Reason for New Hydrologic Analysis (check all that apply)

☒ Not revised (skip to section 2) ☐ No existing analysis ☐ Improved data
☐ Alternative methodology ☐ Proposed Conditions (CLOMR) ☐ Changed physical condition of watershed

2. Comparison of Representative 1%-Annual-Chance Discharges

Location	Drainage Area (Sq. Mi.)	FIS (cfs)	Revised (cfs)

Methodology for New Hydrologic Analysis (check all that apply)

☐ Statistical Analysis of Gage Records ☐ Precipitation/Runoff Model [TR-20, HEC-1, HEC-HMS etc.]
☐ Regional Regression Equations ☐ Other (please attach description)

Please enclose all relevant models in digital format, maps, computations (including computation of parameters) and documentation to support the new analysis. The document, "Numerical Models Accepted by FEMA for NFIP Usage" lists the models accepted by DHS-FEMA. This document can be found at: http://www.fema.gov/fhm/en_modl.shtm.

4. Review/Approval of Analysis

If your community requires a regional, state, or federal agency to review the hydrologic analysis, please attach evidence of approval/review.

5. Impacts of Sediment Transport on Hydrology

Was sediment transport considered? ☐ Yes ☐ No If yes, then fill out Section F (Sediment Transport) of Form 3. If No, then attach your explanation for why sediment transport was not considered.

B. HYDRAULICS

1. Reach to be Revised

	Description	Cross Section	Water-Surface Elevations (ft.) Effective	Proposed/Revised
Downstream Limit	1000 feet north of Central Ave and Union Hills Dr.	AU/22.410	1414.4	1414.2
Upstream Limit	3000 feet north of Central Ave and Union Hills Dr.	AX/22.675	1418.1	1418.1

Hydraulic Method Used

Hydraulic Analysis HEC-2 [HEC-2 , HEC-RAS, Other (Attach description)]

B. HYDRAULICS (CONTINUED)

3. Pre-Submittal Review of Hydraulic Models

DHS-FEMA has developed two review programs, CHECK-2 and CHECK-RAS, to aid in the review of HEC-2 and HEC-RAS hydraulic models, respectively. These review programs verify that the hydraulic estimates and assumptions in the model data are in accordance with NFIP requirements, and that the data are comparable with the assumptions and limitations of HEC-2/HEC-RAS. CHECK-2 and CHECK-RAS identify areas of potential error or concern. These tools do not replace engineering judgment. CHECK-2 and CHECK-RAS can be downloaded from http://www.fema.gov/fhm/frm_soft.shtm. We recommend that you review your HEC-2 and HEC-RAS models with CHECK-2 and CHECK-RAS. If you disagree with a message, please attach an explanation of why the message is not valid in this case. Review of your submittal and resolution of valid modeling discrepancies will result in reduced review time.

HEC-2/HEC-RAS models reviewed with CHECK-2/CHECK-RAS? ☐ Yes ☒ No

4. Models Submitted ☒ Diskette Submitted

	Natural Run		Floodway Run		Datum
Duplicate Effective Model*	File Name:	Plan Name:	File Name: cavefw.dat	Plan Name:	NGVD29
Corrected Effective Model*	File Name:	Plan Name:	File Name:	Plan Name:	
Existing or Pre-Project Conditions Model	File Name:	Plan Name:	File Name:	Plan Name:	
Revised or Post-Project Conditions Model	File Name:	Plan Name:	File Name: cavefnxf.dat	Plan Name:	NGVD29
Other - (attach description)	File Name:	Plan Name:	File Name:	Plan Name:	____

*Not required for revisions to approximate 1%-annual-chance floodplains (Zone A) – for details, refer to the corresponding section of the instructions.

The document "Numerical Models Accepted by FEMA for NFIP Usage" lists the models accepted by DHS-FEMA. This document can be found at: http://www.fema.gov/fhm/en_modl.shtm.

C. MAPPING REQUIREMENTS

A **certified topographic map** must be submitted showing the following information (where applicable): the boundaries of the effective, existing, and proposed conditions 1%-annual-chance floodplain (for approximate Zone A revisions) or the boundaries of the 1%- and 0.2%-annual-chance floodplains and regulatory floodway (for detailed Zone AE, AO, and AH revisions); location and alignment of all cross sections with stationing control indicated; stream, road, and other alignments (e.g., dams, levees, etc.); current community easements and boundaries; boundaries of the requester's property; certification of a registered professional engineer registered in the subject State; location and description of reference marks; and the referenced vertical datum (NGVD, NAVD, etc.).

Note that the boundaries of the existing or proposed conditions floodplains and regulatory floodway to be shown on the revised FIRM and/or FBFM must tie-in with the effective floodplain and regulatory floodway boundaries. Please attach **a copy of the effective FIRM and/or FBFM**, annotated to show the boundaries of the revised 1%- and 0.2%-annual-chance floodplains and regulatory floodway that tie-in with the boundaries of the effective 1%- and 0.2%-annual-chance floodplain and regulatory floodway at the upstream and downstream limits of the area of revision.

☒ Annotated FIRM and/or FBFM Included ☐ Digital Mapping (GIS/CADD) Data Submitted (Recommended)

D. COMMON REGULATORY REQUIREMENTS*

1. For CLOMR requests, do Base Flood Elevations (BFEs) increase? ☐ Yes ☒ No

For CLOMR requests, if either of the following is true, please submit evidence of compliance with Section 65.12 of the NFIP regulations:
- The proposed project encroaches upon a regulatory floodway and would result in increases above 0.00 foot.
- The proposed project encroaches upon a SFHA with or without BFEs established and would result in increases above 1.00 foot.

2. Does the request involve the placement or proposed placement of fill? ☒ Yes ☐ No

If Yes, the community must be able to certify that the area to be removed from the special flood hazard area, to include any structures or proposed structures, meets all of the standards of the local floodplain ordinances, and is reasonably safe from flooding in accordance with the NFIP regulations set forth at 44 CFR 60.3(a)(3), 65.5(a)(4), and 65.6(a)(14). Please see the MT-2 instructions for more information.

3. For LOMR/CLOMR requests, is the regulatory floodway being revised? ☐ Yes ☒ No

If Yes, attach evidence of regulatory floodway revision notification. As per Paragraph 65.7(b)(1) of the NFIP Regulations, notification is required for requests involving revisions to the regulatory floodway. (Not required for revisions to approximate 1%-annual-chance floodplains [studied Zone A designation] unless a regulatory floodway is being added. Elements and examples of regulatory floodway revision notification can be found in the MT-2 Form 2 Instructions.)

4. For LOMR/CLOMR requests, does this request have the potential to impact an endangered species? ☐ Yes ☒ No

If Yes, please submit documentation from the community to show that they have complied with Sections 9 and 10 of the Endangered Species Act (ESA). Section 9 of the ESA prohibits anyone from "taking" or harming an endangered species. If an action might harm an endangered species, a permit is required from U.S. Fish and Wildlife Service or National Marine Fisheries Service under Section 10 of the ESA.

For actions authorized, funded, or being carried out by Federal or State agencies, please submit documentation from the agency showing its compliance with Section 7(a)(2) of the ESA.

5. For LOMR requests, does this request require property owner notification and acceptance of BFE increases? ☐ Yes ☒ No

If Yes, please attach proof of property owner notification and acceptance (if available). Elements of and examples of property owner notification can be found in the MT-2 Form 2 Instructions.

* Not inclusive of all applicable regulatory requirements. For details, see 44 CFR parts 60 and 65.

FEDERAL EMERGENCY MANAGEMENT AGENCY

PAYMENT INFORMATION FORM

Community Name: Phoenix, City of

Project Identifier: Union Hills Service Center (prior submittal named Cave Creek Wash)

THIS FORM MUST BE MAILED, ALONG WITH THE APPROPRIATE FEE, TO THE ADDRESS BELOW OR FAXED TO THE FAX NUMBER BELOW.

Type of Request:

☐ MT-1 application
☒ MT-2 application

FEMA
Fee Charge System Administrator
P.O. Box 22787
Alexandria, VA 22304
FAX (703) 317-3076

☐ EDR application

FEMA Project Library
3601 Eisenhower Avenue
Alexandria, VA 22304
FAX (703) 751-7391

Request No.: _____ (if known)

Amount: $3,500

☐ INITIAL FEE* ☐ FINAL FEE ☒ FEE BALANCE** ☐ MASTER CARD ☐ VISA ☒ CHECK ☐ MONEY ORDER

*Note: Check only for EDR and/or Alluvial Fan requests (as appropriate).

**Note: Check only if submitting a corrected fee for an ongoing request.

COMPLETE THIS SECTION ONLY IF PAYING BY CREDIT CARD

CARD NUMBER

☐☐☐☐ — ☐☐☐☐ — ☐☐☐☐ — ☐☐☐☐

1 2 3 4 — 5 6 7 8 — 9 10 11 12 — 13 14 15 16

EXP. DATE

☐☐ — ☐☐

Month — Year

_____ Date

_____ Signature

NAME *(AS IT APPEARS ON CARD)*: _____
(please print or type)

ADDRESS: _____
(for your credit card receipt-please print or type) _____

DAYTIME PHONE: _____

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles, Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' National Geodetic Vertical Datum of 1929 (NGVD 29). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was *Arizona State Plane Zone 3176 (central Arizona)*. The **horizontal datum** was *NAD83, GRS80 spheroid*. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the *National Geodetic Vertical Datum of 1929*. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1315 East-West Highway
Silver Spring, Maryland 20910
(310) 713-3191

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242**, or visit its website at http://www.ngs.noaa.gov.

Base map information shown on this FIRM was derived from multiple sources. Base map files were provided in digital format by Maricopa County. Orthophoto images were produced at a scale of 1:6000 using HARN for control. Aerial photography is dated December 2000 to December 2002.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

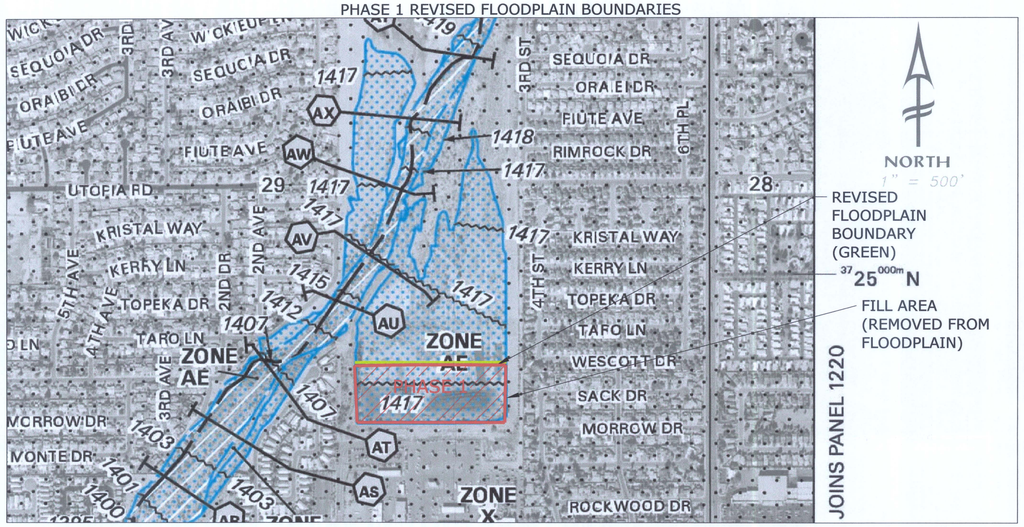
Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at http://www.msc.fema.gov/.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMAMAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/.

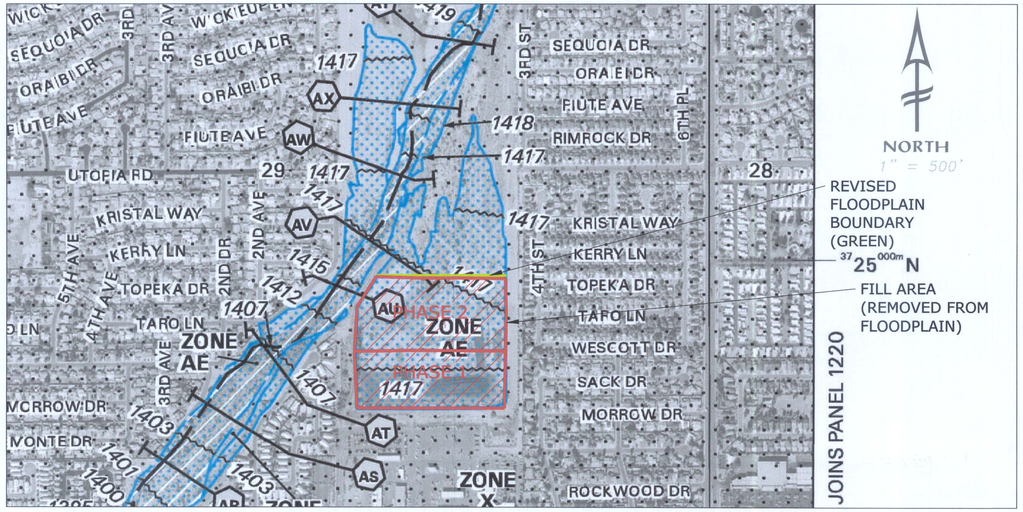
EXHIBIT 1
EXISTING FIRM MAP SHOWING PROJECT LOCATION AND REQUESTED FIRM CHANGES

ANNOTATED FIRM MAP
UNION HILLS SERVICE CENTER CLOMR

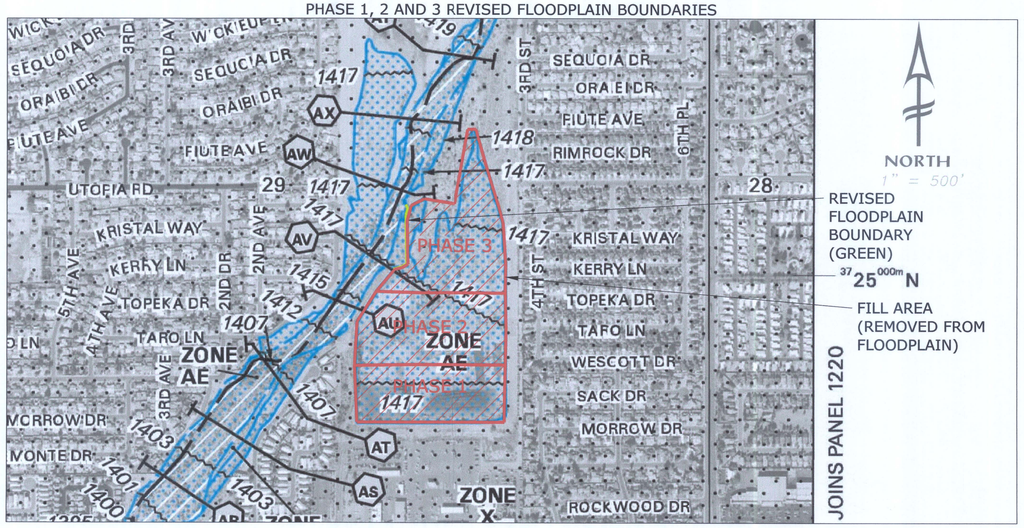
BOX 1:
PHASE 1 REVISED FLOODPLAIN BOUNDARIES

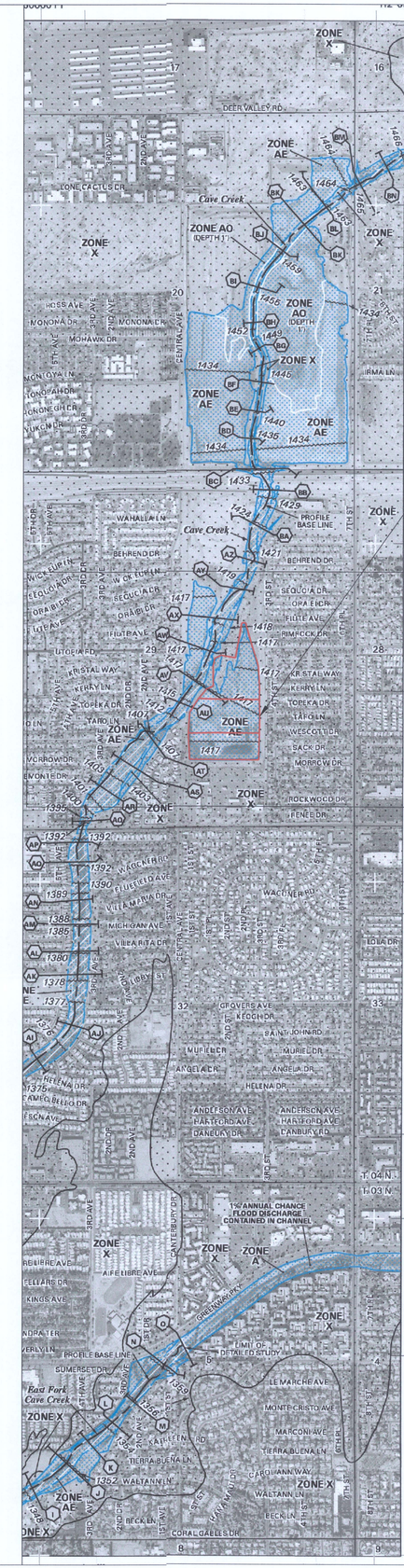


BOX 2:
PHASE 1 AND 2 REVISED FLOODPLAIN BOUNDARIES



BOX 3:
PHASE 1, 2 AND 3 REVISED FLOODPLAIN BOUNDARIES





VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X — Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X — Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D — Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary

0.2% annual chance floodplain boundary

Floodway boundary

Zone D boundary

CBRS and OPA boundary

Boundary dividing Special Flood Hazard Area Zones, and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities.

~~~513~~~ Base Flood Elevation line and value; elevation in feet.*

(EL 987) Base Flood Elevation value where uniform within zone; elevation in feet.*

* Referenced to the National Geodetic Vertical Datum of 1929

(A)—(A) Cross section line

(2)—(2) Transect line

112°07'08", 33°25'41" Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere

4476000mE 1000-meter Universal Transverse Mercator grid tick values zone 12.

875000 FT 5000-foot grid tick values: Arizona State Plane coordinate system, central zone (FIPSZONE 3176) NAD83 (Transverse Mercator)

×DV2313 Bench mark (see explanation in Notes to Users section of this FIRM panel)

• M1.5 River Mile

MAP REPOSITORY
Refer to Repositories Listing on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
April 15, 1988

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
September 29, 1989, September 4, 1991, December 3, 1993, September 30, 1995, July 19, 2001

September 30, 2005 - to update corporate limits, to change Base Flood Elevations, to add Base Flood Elevations, to add Special Flood Hazard Areas, to change Special Flood Hazard Areas, to change zone designations, to add roads and road names, to incorporate previously issued Letters of Map Revision, and to incorporate previously issued Letters of Map Amendment.

For community map revision history prior to countywide mapping, refer to the Community Map History table located on the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 1000'

500 0 1000 2000 FEET

300 0 300 600 METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 1215K

FIRM
FLOOD INSURANCE RATE MAP
MARICOPA COUNTY, ARIZONA
AND INCORPORATED AREAS

PANEL 1215 OF 4350

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
PHOENIX, CITY OF	040051	1215	K

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
04013C1215K

MAP REVISED
~~~

17. ERM EL. = 1416.40

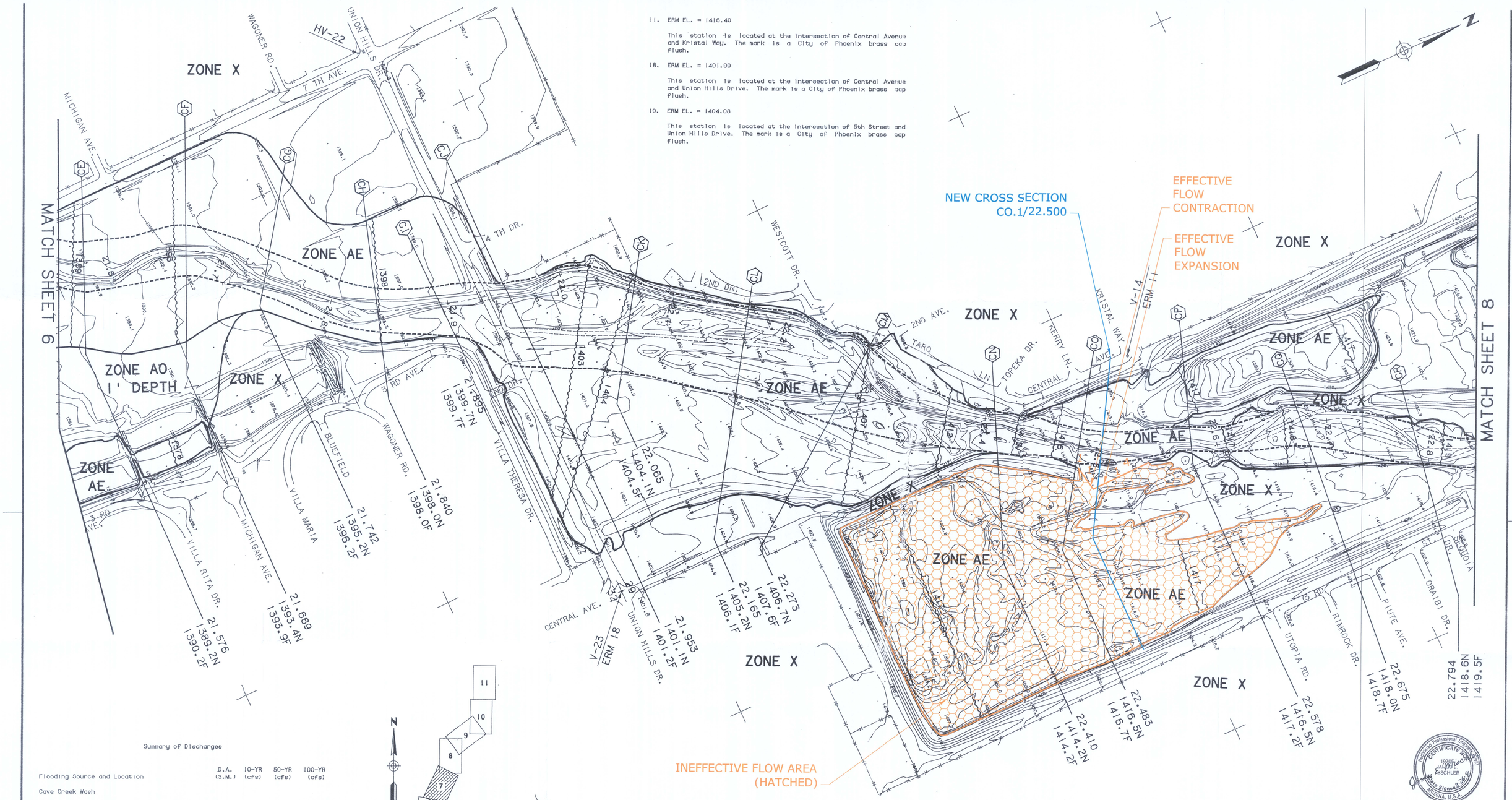
This station is located at the intersection of Central Avenue and Kristal Way. The mark is a City of Phoenix brass cap flush.

18. ERM EL. = 1401.90

This station is located at the intersection of Central Avenue and Union Hills Drive. The mark is a City of Phoenix brass cap flush.

19. ERM EL. = 1404.08

This station is located at the intersection of 5th Street and Union Hills Drive. The mark is a City of Phoenix brass cap flush.



Summary of Discharges

Flooding Source and Location	D.A. (S.M.)	10-YR (cfs)	50-YR (cfs)	100-YR (cfs)
Cave Creek Wash				
Above the Central Arizona Project Canal	2.5	1,700	2,500	2,900
Below the Central Arizona Project Canal	4.0	2,700	4,000	4,600
Below Deer Valley Drive	5.0	3,000	4,500	5,200
Above the East Fork Cave Creek	8.6	3,300	4,900	5,700
East Fork of Cave Creek				
Near Paradise Lane & Central Avenue	13.4	5,300	7,900	9,100
Near Coral Gables & 7th Avenue	14.1	5,500	8,200	9,400
Mouth (Confluence with Cave Creek)	14.6	5,500	8,300	9,500
Cave Creek Wash				
Below the East Fork Cave Creek	23.5	8,400	12,700	14,600
Below 19th Avenue	25.5	8,900	13,400	15,400
Above Moon Valley Wash	26.5	8,900	13,400	15,400
Below Moon Valley Wash	33.1	10,100	15,300	17,500
At the Confluence with the Arizona Canal Diversion Channel	34.7	10,300	16,100	18,500

EXHIBIT 3
WORKING MAP SHOWING
INEFFECTIVE FLOW AREA

UNION HILLS SERVICE CENTER CLOMR
MAP ADDITIONS BY ASPEN CONSULTING
ENGINEERS

LEGEND:

———	100 YEAR FLOOD LIMITS
- - - -	FLOODWAY LIMITS
24.5	DISTANCE IN MILES UPSTREAM FROM MOUTH
AF	CROSS SECTION
AF 1248.4N / 1248.4F	NATURAL ELEVATION / FLOODWAY ELEVATION

CONTOUR INTERVAL = 2 FEET

NO.	REVISIONS	DATE	BY	CHK.

Burgess & Niple, Inc.
Engineers and Architects
Akron, OH • Cincinnati, OH • Columbus, OH • Crestview Hills, KY
Mentor, OH • Parkersburg, WV • Payson, AZ • Phoenix, AZ

MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY
FCD 88-56
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

JOB NO. 7833
DESIGNED BY: JEM
DRAWN BY: CEU / AK
CHECKED BY: JEM
APPROVED BY:
DATE: MARCH-91

FLOOD BOUNDARY AND FLOODWAY MAP

SCALE: 0 100 200 SCALE IN FEET

SHEET NO. 7 OF 11

BRUNING #207234-1

17. ERM EL. = 1416.40

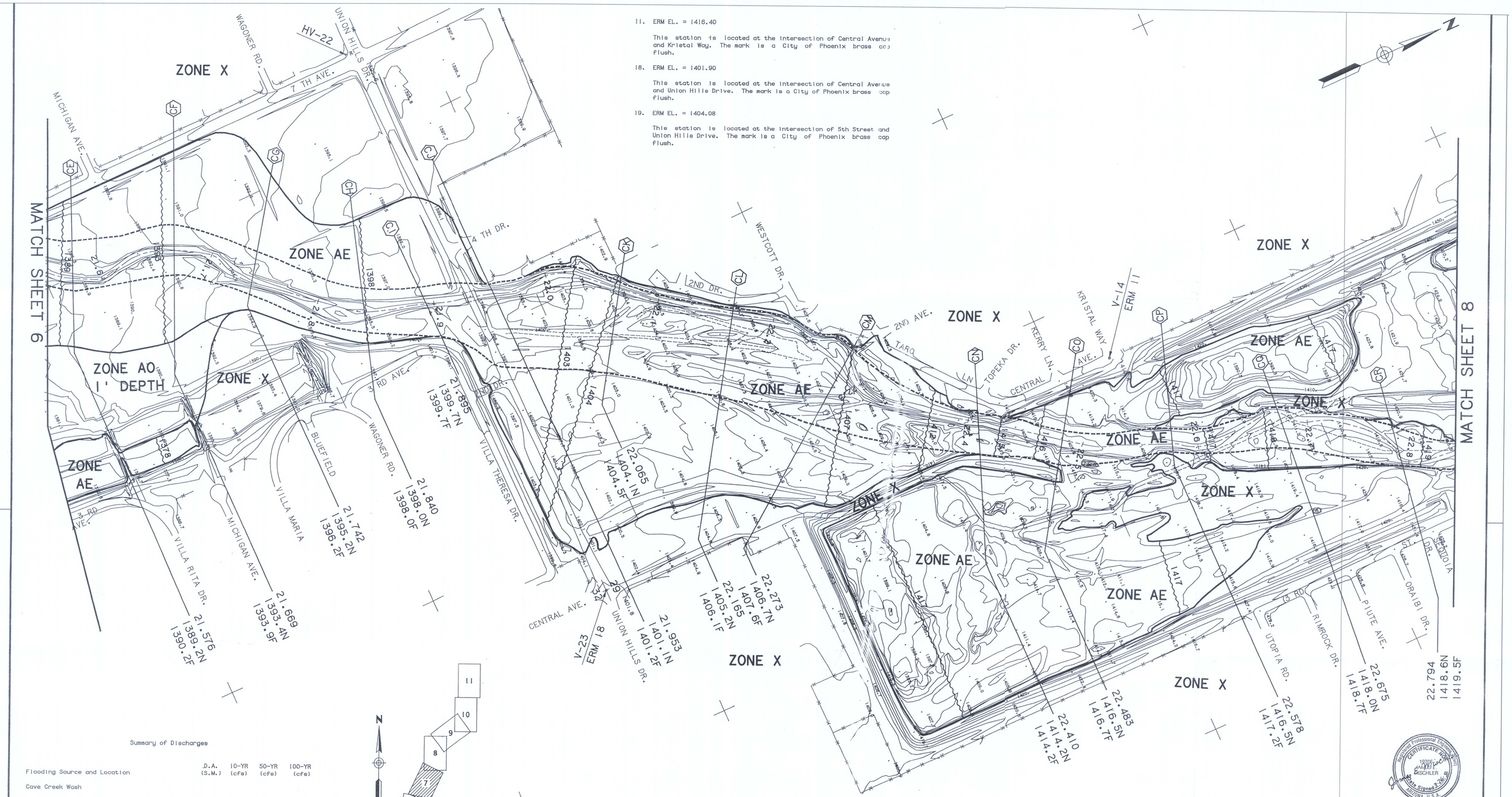
This station is located at the intersection of Central Avenue and Kristal Way. The mark is a City of Phoenix brass cap flush.

18. ERM EL. = 1401.90

This station is located at the intersection of Central Avenue and Union Hills Drive. The mark is a City of Phoenix brass cap flush.

19. ERM EL. = 1404.08

This station is located at the intersection of 5th Street and Union Hills Drive. The mark is a City of Phoenix brass cap flush.



Summary of Discharges

Flooding Source and Location	D.A. (S.M.)	10-YR (cfs)	50-YR (cfs)	100-YR (cfs)
Cave Creek Wash				
Above the Central Arizona Project Canal	2.5	1,700	2,500	2,900
Below the Central Arizona Project Canal	4.0	2,700	4,000	4,600
Below Deer Valley Drive	5.0	3,000	4,500	5,200
Above the East Fork Cave Creek	8.6	3,300	4,900	5,700
East Fork of Cave Creek				
Near Paradise Lane & Central Avenue	13.4	5,300	7,900	9,100
Near Coral Gables & 7th Avenue	14.1	5,500	8,200	9,400
Mouth (Confluence with Cave Creek)	14.6	5,500	8,300	9,500
Cave Creek Wash				
Below the East Fork Cave Creek	23.5	8,400	12,700	14,600
Below 19th Avenue	25.5	8,900	13,400	15,400
Above Moon Valley Wash	26.5	8,900	13,400	15,400
Below Moon Valley Wash	33.1	10,100	15,300	17,500
At the Confluence with the Arizona Canal Diversion Channel	34.7	10,300	16,100	18,500

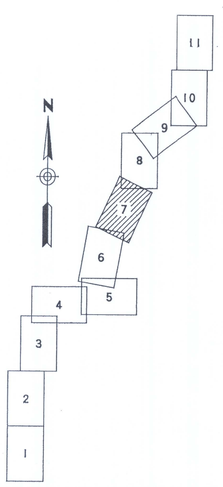


EXHIBIT 2
WORKING MAP FOR FIRM HEC-2 ANALYSIS
REPRINTED BY ASPEN CONSULTING ENGINEERS

UNION HILLS SERVICE CENTER CLOMR

LEGEND:

- 100 YEAR FLOOD LIMITS
- FLOODWAY LIMITS
- 24.5 — DISTANCE IN MILES UPSTREAM FROM MOUTH
- AF — CROSS SECTION
- AF 1248.4N / 1248.4F — NATURAL ELEVATION / FLOODWAY ELEVATION

CONTOUR INTERVAL = 2 FEET

Registered Professional Engineer (Civil) CERTIFICATE NO. 12706 DANIEL E. BISCHLER Date Signed 3-26-91 ARIZONA, U.S.A.

NO.	REVISIONS	DATE	BY	CHK.

Burgess & Niple, Inc.
Engineers and Architects
Akron, OH • Cincinnati, OH • Columbus, OH • Crestview Hills, KY
Mentor, OH • Parkersburg, WV • Payson, AZ • Phoenix, AZ

bn

MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY
FCD 88-56
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

JOB NO. 7833
DESIGNED BY: JEM
DRAWN BY: CEU / AK
CHECKED BY: JEM
APPROVED BY:
DATE: MARCH-91

FLOOD BOUNDARY AND FLOODWAY MAP

SCALE: 0 100 200 SCALE IN FEET

SHEET NO. 7 OF 11

BRUNING #307034-1

EXHIBIT 4
CAVE CREEK FIRM CROSS SECTION AU (Working Map Cross Section CN/22.410)

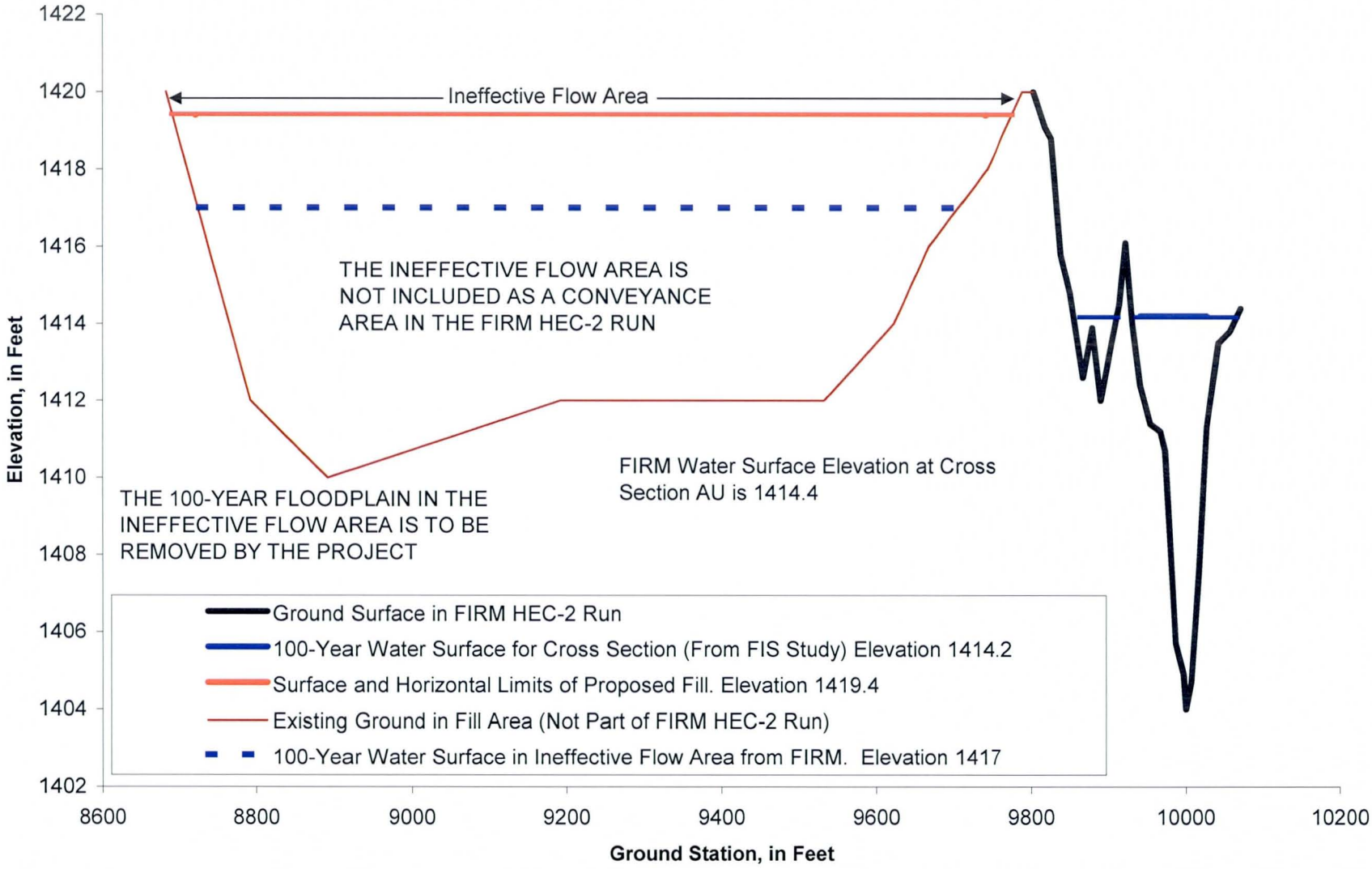


EXHIBIT 5
CAVE CREEK FIRM CROSS SECTION AV (Working Map Cross Section CO/22.483)

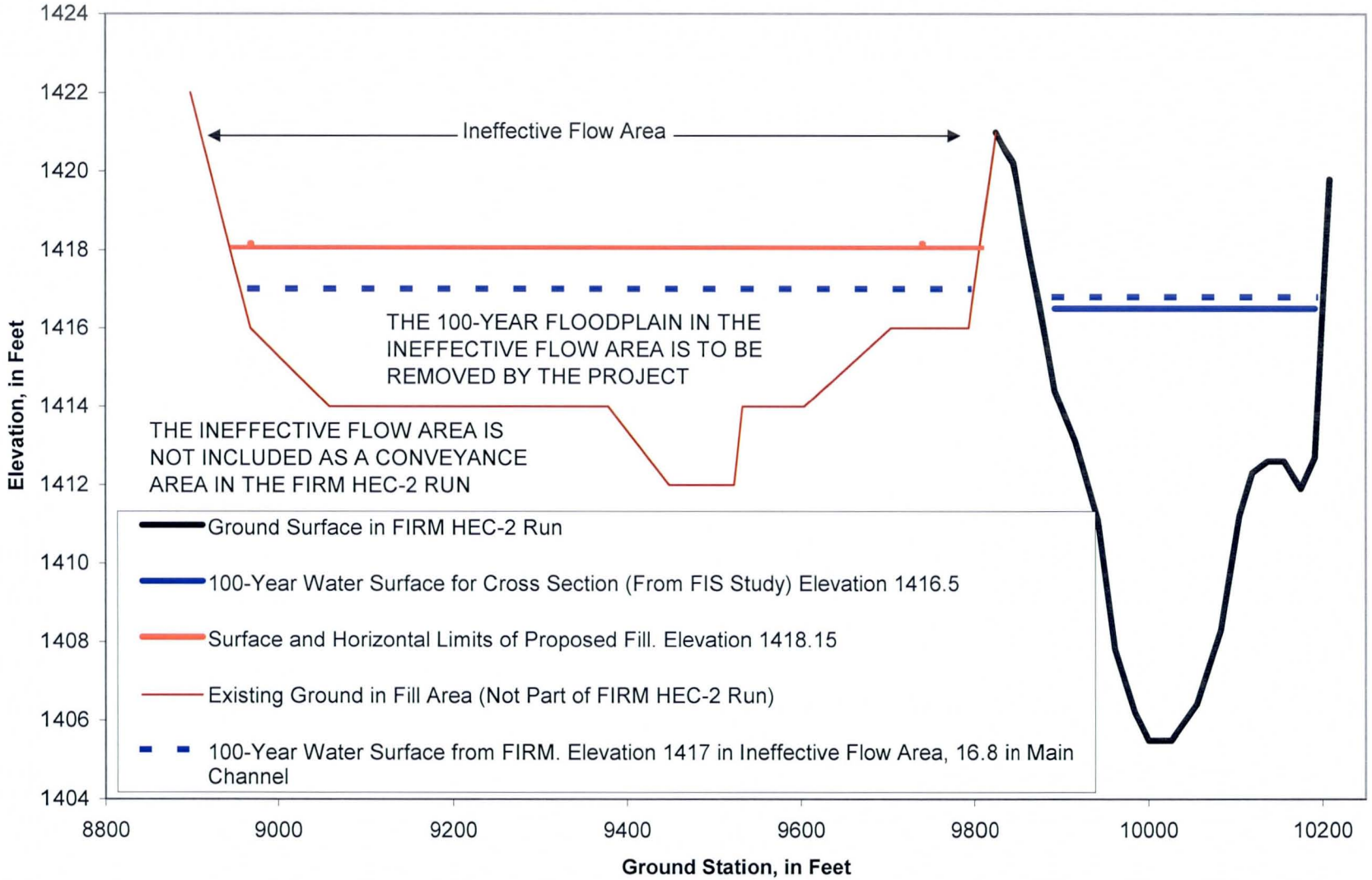
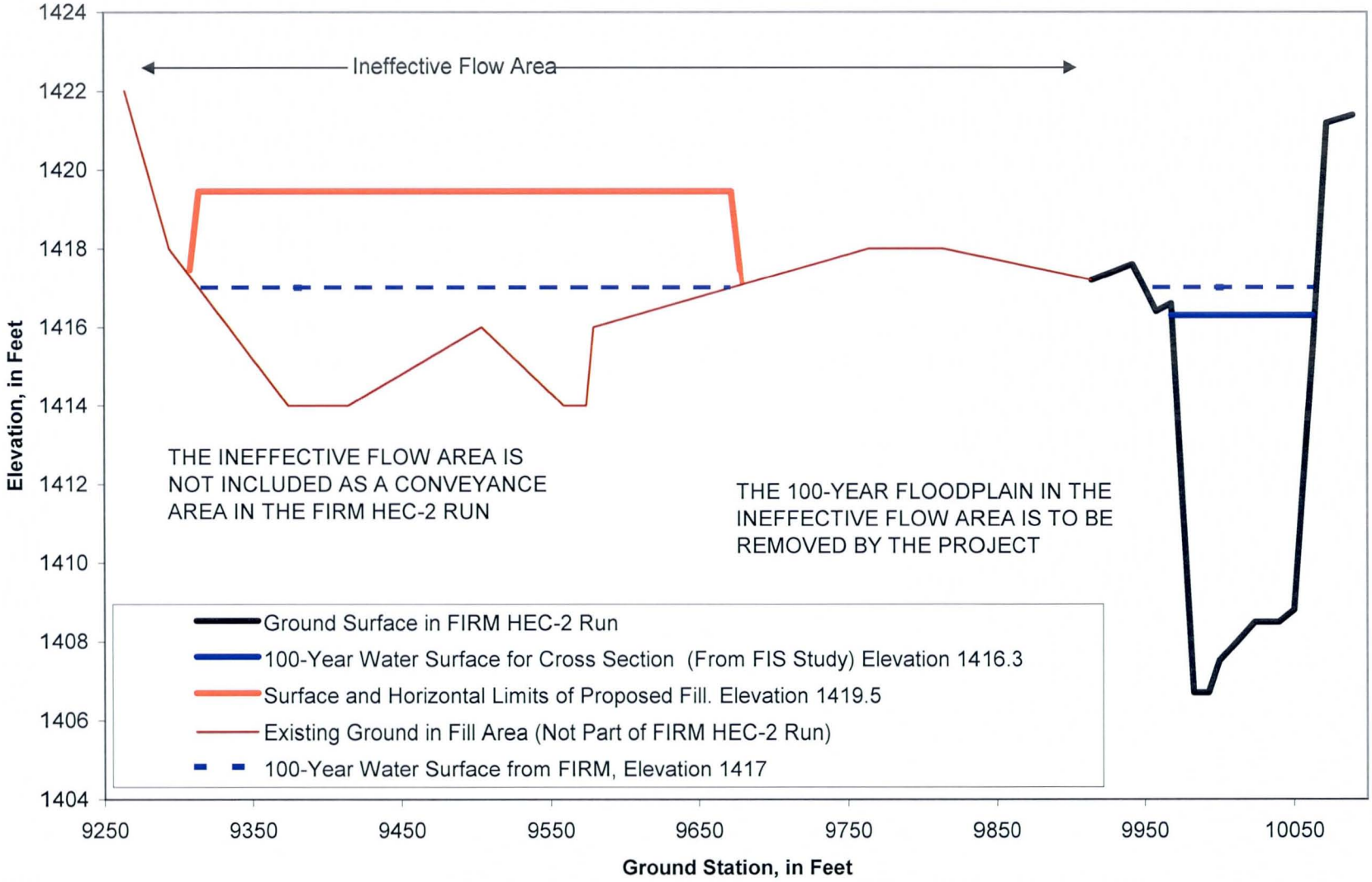
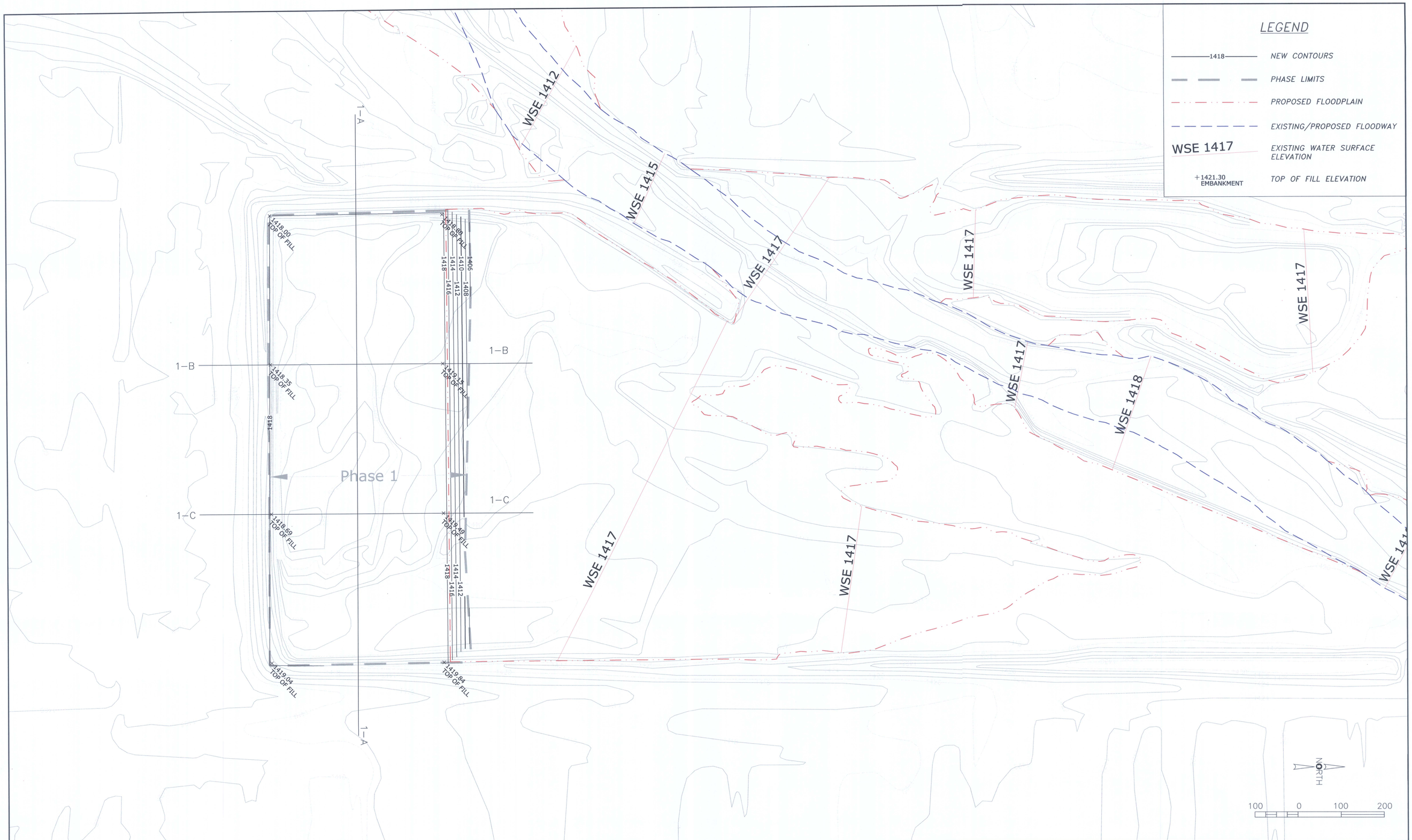


EXHIBIT 6

CAVE CREEK FIRM CROSS SECTION AW (Working Map Cross Section CP/22.578)





NOTES:

1. FILL VOLUME:
   PHASE 1 VOLUME = 233,628 CY FILL
2. COMPACT FILL TO A MINIMUM OF 95%.
3. SEE SHEETS 1 OF 2 AND 2 OF 2 IN APPENDIX F FOR CROSS SECTIONS 1-A, 1-B, 1-C.
4. PROPOSED FLOODPLAIN LIMITS ARE IDENTICAL TO THOSE OF THE PREVIOUS FIRM EXCEPT ALONG THE PHASE 1 GRADING BOUNDARY.
5. TOPOGRAPHY IS FROM THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY. THE FLIGHT DATE IS 01-15-1991. THE VERTICAL DATUM IS NGVD29.

Exhibit 7: Project Phase 1 Grading Plan and Proposed Phase 1 Floodplain Limits

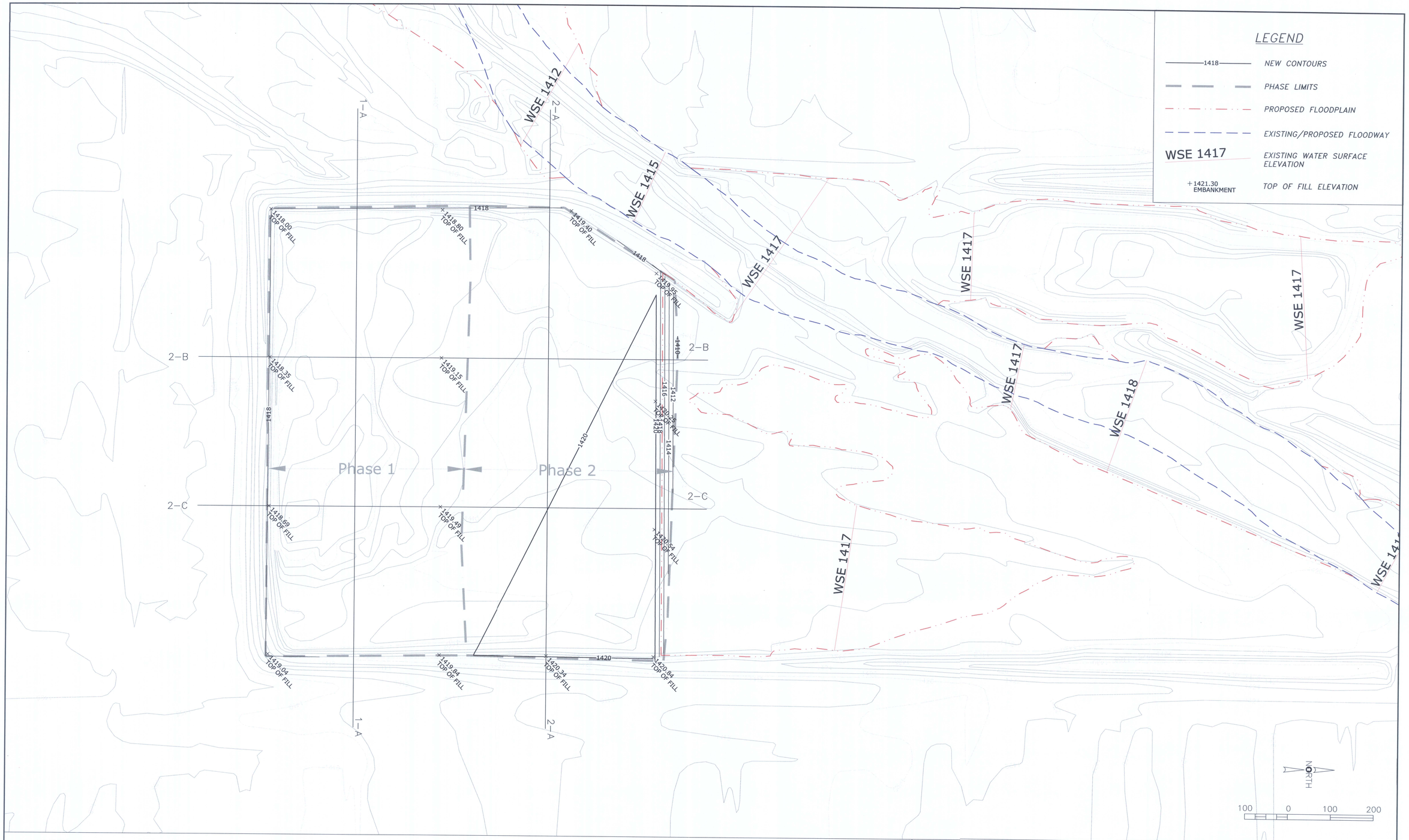
City of Phoenix Project No: PW24470004
Union Hills Service Center CLOMR

NO.	REVISION	BY	DATE
3			
2			
1			

ASPEN CONSULTING ENGINEERS

PROJECT NO.	P1002-3	
	BY	DATE
PLANS	JCS	04/21/06
PLANS CHK.	POL	04/21/06

EXHIBIT 7



NOTES:

1. FILL VOLUME:
   PHASE 1 VOLUME = 233,628 CY FILL
   PHASE 2 VOLUME = 164,394 CY FILL
2. COMPACT FILL TO A MINIMUM OF 95%.
3. SEE SHEETS 1 OF 2 AND 2 OF 2 IN APPENDIX F FOR CROSS SECTIONS 1-A, 2-A, 2-B, AND 2-C.
4. PROPOSED FLOODPLAIN LIMITS ARE IDENTICAL TO THOSE OF THE PREVIOUS FIRM EXCEPT ALONG THE PHASE 2 GRADING BOUNDARY.
5. TOPOGRAPHY IS FROM THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY. THE FLIGHT DATE IS 01-15-1991. THE VERTICAL DATUM IS NGVD29.

Exhibit 8: Project Phase 1+2 Grading Plan and Proposed Phase 1+2 Floodplain Limits

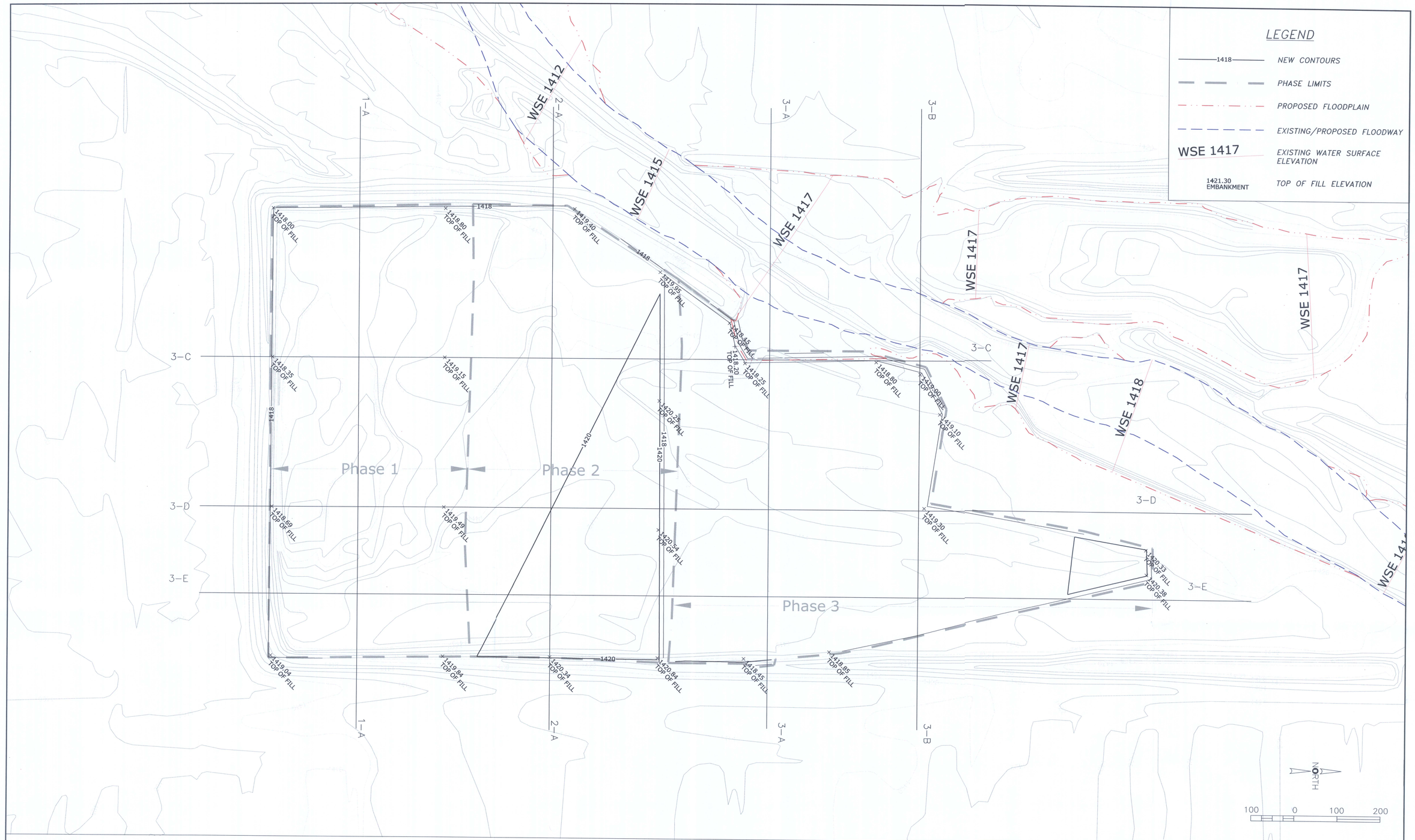
City of Phoenix Project No: PW24470004
Union Hills Service Center CLOMR

NO.	REVISION	BY	DATE
3			
2			
1			

ASPEN CONSULTING ENGINEERS

PROJECT NO.	P1002-3	
	BY	DATE
PLANS	JCS	04/21/06
PLANS CHK.	POL	04/21/06

EXHIBIT 8



NOTES:

1. FILL VOLUME:
   PHASE 1 VOLUME = 233,628 CY FILL
   PHASE 2 VOLUME = 164,628 CY FILL
   PHASE 3 VOLUME = 70,303 CY FILL
2. COMPACT FILL TO A MINIMUM OF 95%.
3. SEE SHEETS 1 OF 2 AND 2 OF 2 IN APPENDIX F FOR CROSS SECTIONS 1-A, 2-A, 3-A, 3-B, 3-C, 3-D AND 3-E.
4. PROPOSED FLOODPLAIN LIMITS ARE IDENTICAL TO THOSE OF THE PREVIOUS FIRM EXCEPT ALONG THE PHASE 3 GRADING BOUNDARY.
5. TOPOGRAPHY IS FROM THE FLOOD CONTROL DISTRICT OF MARICOPA COUNTY. THE FLIGHT DATE IS 01-15-1991. THE VERTICAL DATUM IS NGVD29.

Exhibit 9: Project Phase 1+2+3 Grading Plan and Proposed Phase 1+2+3 Floodplain Limits

City of Phoenix Project No: PW24470004
Union Hills Service Center CLOMR

NO.	REVISION	BY	DATE
3			
2			
1			

ASPEN CONSULTING ENGINEERS

PROJECT NO.	P1002-3	
	BY	DATE
PLANS	JCS	04/21/06
PLANS CHK.	POL	04/21/06

EXHIBIT 9

EXHIBIT 10
CAVE CREEK CROSS SECTION CO.1/22.50 EXISTING CONDITIONS

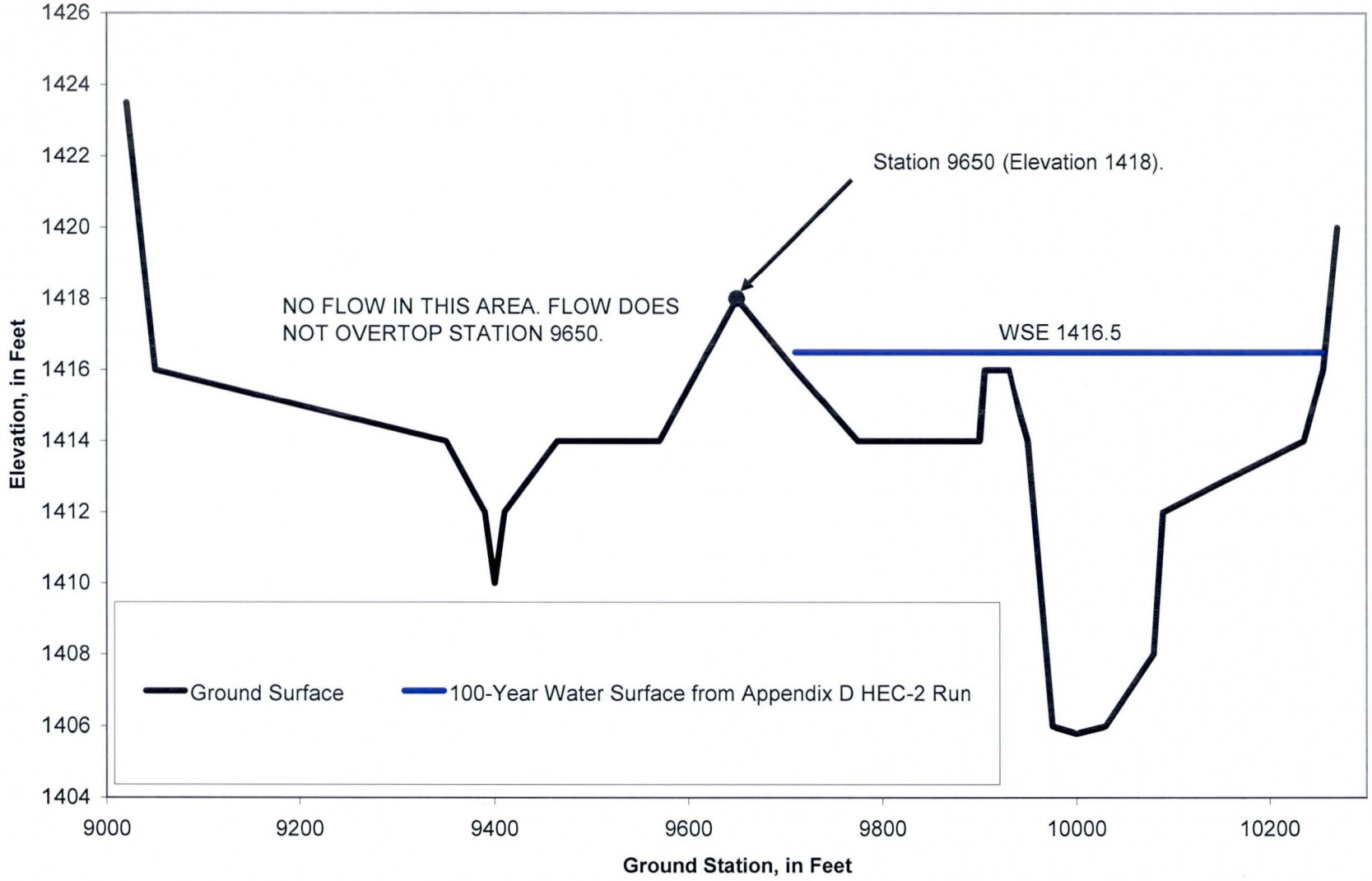
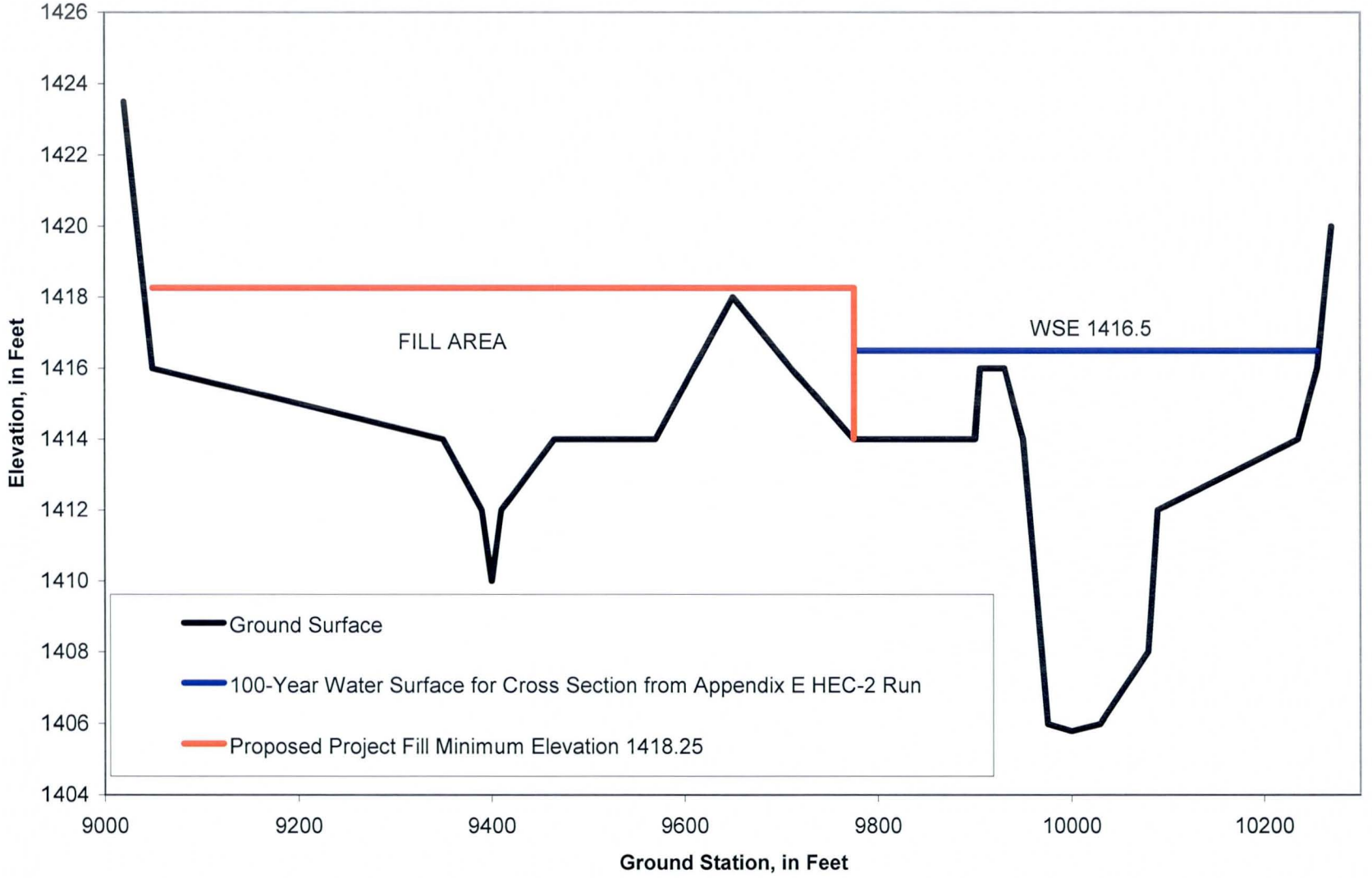


EXHIBIT 11
CAVE CREEK CROSS SECTION CO.1/22.50 WITH PROJECT CONDITIONS



Property Information

View GIS Maps

Parcel #: 209-12-004
Subdivision Name:
MCR #:
Lot #:
Property Address: 202 E UNION HILLS DR
PHOENIX 85024
Property Description: W2 SE4 EX RD P/D 84-277005 & EX BEG NE COR SD W2 S 20.59F TH NWLY ALG CUR CONC NELY 39.13F E TO POB P/D 87-357102 & EX RD P/D 91-296325
Section Township Range: 29 4N 3E
Associated Parcel:

Owner Information

View Tax Information

Owner: PHOENIX CITY OF
In Care Of:
Mailing Address: 251 W WASHINGTON ST 8TH FL
PHOENIX AZ 85003 USA
Deed #: 06343-0100
Sales Price: n/a *
Deed Date: 12/25/1958
Sales Date: n/a *

Property Information

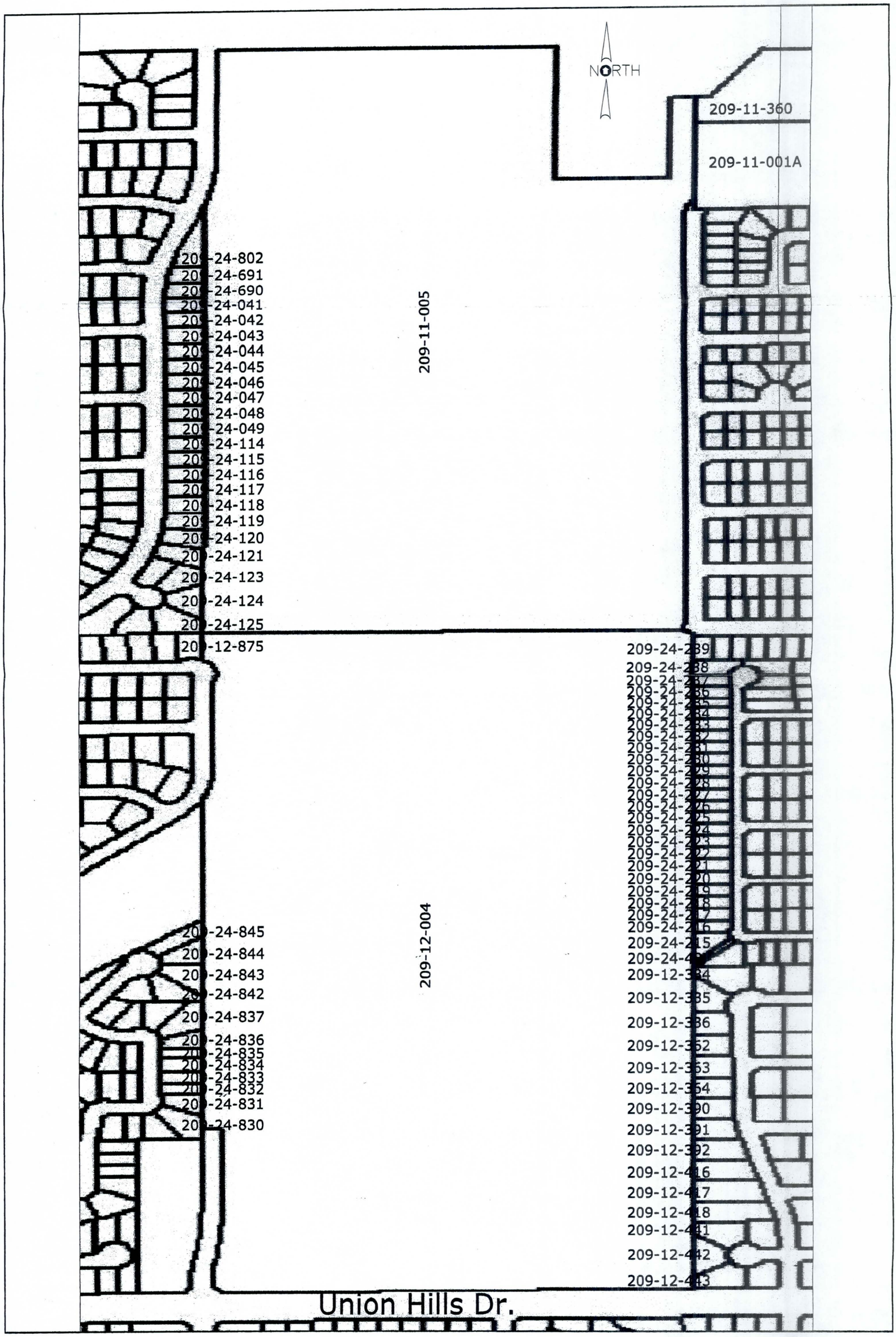
View GIS Maps

Parcel #: 209-11-005
Subdivision Name:
MCR #:
Lot #:
Property Address:
Property Description: W2 NE4 SEC 29 EX N 55F & EX E 25F SW4 NE4 SEC & EX RD P/D 90-154804 & EX RD P/D 92-0377417 EX RD P/F 97-773248
Section Township Range: 29 4N 3E
Associated Parcel:

Owner Information

View Tax Information

Owner: PHOENIX CITY OF
In Care Of:
Mailing Address: 251 W WASHINGTON ST 8TH FL
PHOENIX AZ 85003 USA
Deed #: 06343-0100
Sales Price: n/a *
Deed Date: 12/25/1958
Sales Date: n/a *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209-12-392
209-12-416
209-12-417
209-12-418
209-12-441
209-12-442
209-12-443
Union Hills Dr.

```
T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA CO. 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          NATURAL 100-YR  J. MISCHLER
*
        CAVE BUTTE DAM CONTROLS DISCHARGES UP TO THE 100 YEAR FLOOD.
        ABOVE THE 100 YEAR FLOOD, THE EMERGENCY SPILLWAY WILL PASS FLOWS.
*       AS THE EFFORT TO COMPUTE 500 YEAR HYDROLOGY (WHICH WOULD REQUIRE
*       ANALYSIS OF THE ENTIRE WATERSHED ABOVE THE DAM) IS NOT JUSTIFIED
*       BY THE VALUE OF 500 YEAR FLOODPLAIN INFORMATION, THE FLOOD CONTROL
*       DISTRICT HAS BEEN GRANTED PERMISSION BY FEMA TO DELETE THE 500 YEAR
*       FLOOD FROM THE RESTUDY OF CAVE CREEK WASH.  ONLY THE WATERSHED BELOW
*       THE DAM HAS BEEN CONSIDERED FOR HYDROLOGIC COMPUTATIONS OF THE 10, 50,
*       AND 100 YEAR FLOODS.
*
*
*
*       FLOODWAY RUN FROM SEDIMENT BASIN TO CAVE BUTTE DAM.
*
*       FOR SECTIONS 15.310 TO 16.971, REFER TO A SEPARATE SUPERCRITICAL
*       RUN FOR THE CORPS OF ENGINEERS' CONCRETE LINED CHANNEL. (NATURAL PROF)
*
*       FLOW IS WITHIN THE CORPS OF ENGINEER'S CHANNEL, SEDIMENT BASIN, OR
*       BROAD CRESTED WEIR INLET FROM RM15.015 TO 17.492, THEREFORE NO FLOODWAY
*       IS RUN FOR THIS REACH.
*
*
*
*       FILE LAST MODIFIED 1/26/90
*
*
J1            2.                                                  1283.69
J2     1.            -1.                                                        15.
J3    38.     42.      1.     53.     54.      4.      8.     43.     10.     51.
J3    46.     40.     41.            110.            200.
QT     2.  15400.  15400.
NC  0.04    0.04    0.04     0.1     0.3
*
*       BEGIN ENCROACHMENTS UPSTREAM OF THE SEDIMENT BASIN
*
ET                  10.41
X117.588      25.   9982.  10193.    440.    560.    496.
GR1291.4    9666.  1290.3   9746.  1275.6   9817.  1275.2   9835.  1273.5   9854.
GR1277.8    9873.  1279.7   9889.  1277.3   9896.  1278.2   9909.  1281.6   9922.
GR1281.9    9939.  1282.2   9964.  1278.1   9982.  1269.6   9992.  1270.6  10000.
GR1270.9   10009.  1272.6  10014.  1273.6  10039.  1273.6  10079.  1271.2  10144.
GR1271.2   10170.  1276.4  10193.  1290.5  10264.  1291.3  10328.   1291.  10495.
ET                    4.1   9900.  10150.
X117.662      23.   9941.  10130.    380.    400.    391.
GR1293.1    9731.  1293.1   9781.  1291.6   9791.  1282.7   9835.  1278.1   9844.
GR1279.2    9871.  1277.3   9911.  1276.4   9941.  1272.5   9986.  1271.6  10000.
GR1274.6   10016.  1277.5  10033.  1278.8  10063.  1278.9  10086.  1276.8  10099.
GR1275.7   10111.  1281.6  10130.  1285.2  10161.  1293.1  10208.   1294.  10221.
GR1293.7   10281.   1294.  10400.  1294.5  10432.
ET                  10.41
X117.783      18.   9921.  10064.    540.    500.    639.
GR1295.2    9812.   1294.   9837.  1291.3   9861.  1286.9   9895.  1280.5   9921.
GR1276.8    9938.  1278.3   9954.  1277.6   9973.  1275.4  10000.  1276.3  10019.
GR1277.4   10033.  1277.7  10045.  1281.1  10064.  1281.3  10074.  1284.6  10097.
GR1289.8   10122.  1291.5  10143.  1291.9  10153.
X117.932      23.   9956.  10066.    790.    780.    787.
GR1294.8    9675.  1294.7   9732.  1295.5   9750.  1293.6   9766.  1297.5   9792.
GR1297.5    9837.  1298.3   9869.  1291.9   9896.  1289.7   9956.  1283.6   9966.
GR1283.5    9971.  1277.9   9986.  1278.2  10000.  1278.2  10006.  1279.5  10008.
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GR1279.9  10022.  1280.2  10032.  1285.5  10054.  1290.2  10066.  1290.6  10083.
GR1298.5  10131.  1299.7  10159.  1299.7  10193.
*
*       THUNDERBIRD ROAD BRIDGE - ALTHOUGH THE ROAD IS LOWEST IN THE RIGHT
*       OVERBANK, HIGH BANKS UPSTREAM PREVENT THIS AREA FROM BECOMING EFFECTIVE,
*       THEREFORE, ONLY THE BRIDGE OPENING IS CONSIDERED ON THE GR CARDS AND
*       ONLY THE BRIDGE LENGTH IS CONSIDERED FOR THE BT CARDS.  ENDS OF THE
*       SECTIONS ARE ARTIFICIALLY EXTENDED.  BT'S ARE RAISED 0.5' FROM CENTER-
*       LINE OF ROAD ELEVATIONS AT THE BRIDGE. TO ACCOUNT FOR THE RAILING.
*
*                    4.1   9951.  10049.
NC 0.035   0.035   0.025     0.3     0.5
X118.042      8.   9951.  10049.    620.    550.    581.             2.4
GR 1305.   9951.  1283.4   9952.  1282.9   9979.  1279.9   9980.  1279.9  10020.
GR1281.9  10021.  1284.2  10048.   1305.  10049.
SB  1.05    1.56      3.             75.      4.   1059.    0.81  1280.2  1279.9
NC  0.03    0.03   0.025
*                   4.11   9951.  10049.
X118.061                            101.    101.    101.             0.8
*
*       ELTRD IS 1298.4+3.2HV =  1301.6
*
X2                     1.  1293.2  1301.6
BT    4.   9951.   1305.      0.   9952.  1298.4      0.  10048.  1298.4      0.
BT10049.   1305.      0.
NC 0.035   0.035   0.035
ET                   4.1   9900.  10085.
X118.081     11.   9942.  10045.     80.    130.    106.
GR1300.5   9819.  1300.2   9866.  1298.2   9899.  1286.6   9942.  1282.7   9960.
GR1281.4  10000.  1281.1  10008.  1282.7  10030.  1284.9  10045.  1297.3  10088.
GR1300.2  10112.
NC                      0.1     0.3
ET                   4.1   9857.  10125.
X118.174     29.   9919.  10073.    500.    490.    491.
GR1303.6   9673.  1304.6   9713.  1307.3   9757.  1302.5   9801.   1302.   9850.
GR 1288.   9904.  1287.3   9915.  1288.7   9919.   1284.   9927.  1283.5   9956.
GR1282.6   9975.  1283.5   9985.  1281.8   9992.  1281.7  10000.   1282.  10006.
GR1282.3  10011.  1282.7  10020.  1294.6  10073.   1297.  10093.  1296.2  10113.
GR1293.7  10142.  1293.7  10182.  1296.8  10236.  1299.3  10270.  1298.9  10295.
GR 1298.  10340.  1299.8  10364.   1298.  10396.  1301.1  10478.
ET                   4.1  9882.2  10110.
X118.269     12.   9942.  10060.    500.    500.    502.
GR1303.8   9868.  1288.1   9928.  1288.4   9942.  1285.3   9952.  1283.8   9979.
GR1283.8  10000.  1283.8  10010.  1285.6  10023.  1292.4  10060.   1294.  10071.
GR1303.2  10130.  1303.7  10144.
ET                   4.1  9895.6 10107.8
X118.362     20.   9942.  10060.    490.    510.    491.
GR1315.5   9728.  1315.4   9758.  1315.8   9780.  1310.6   9807.  1307.1   9862.
GR1298.6   9905.   1290.   9942.  1287.8   9952.   1288.   9967.  1286.1   9971.
GR1285.3  10000.  1286.8  10022.  1286.8  10036.  1290.6  10060.  1303.8  10124.
GR1307.7  10151.  1307.5  10169.  1306.8  10183.  1308.1  10240.  1308.8  10283.
*
*       DOWNSTREAM GOLF CART CROSSING ON A SINGLE 78" CMP WITH PROTRUDING
*       ENDS AND EMBANKMENT SLOPES  (NO WINGWALLS).
*
ET                   4.1   9885.  10110.
X118.445     13.   9992.  10005.    470.    460.    440.
X3   10.                                                   1297.   1297.
GR1315.1   9796.  1306.2   9880.   1300.   9920.  1299.5   9978.   1290.   9992.
GR1287.3  10000.   1290.  10005.   1300.  10040.   1302.  10060.   1303.  10097.
GR 1305.  10200.  1305.6  10310.  1309.4  10330.
SB   0.9    2.34     3.0      0.    6.11     1.0    33.2      0.  1287.7  1287.4
ET                  4.11   9885.  10110.
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X118.456                                  60.     60.     60.                0.4
*
*       ELTRD IS 1198.8+0.7HV = 1199.5
*
X2                      1.  1294.2  1299.5
X3   10.                                                      1298.8  1298.8
BT   10.   9796.  1315.5      0.   9880.  1306.6      0.   9928.  1301.9      0.
BT 9991.  1299.1      0.  10000.  1298.8      0.  10046.  1301.9      0.  10097.
BT1303.4      0.  10200.  1305.4      0.  10310.   1306.      0.  10330.  1309.8
BT    0.
ET                    4.1  9881.4 10169.8
X118.545     21.   9951.  10058.    440.    480.    466.
GR1324.2   9716.  1323.1   9748.  1324.4   9765.  1321.9   9790.  1318.3   9810.
GR 1317.   9839.  1306.7   9889.  1294.1   9951.  1291.5   9972.  1289.3   9993.
GR1289.7  10000.  1289.7  10018.  1290.5  10040.  1293.8  10058.  1298.8  10073.
GR1299.8  10094.  1303.4  10108.  1303.9  10121.   1303.  10135.  1310.1  10182.
GR1310.2  10194.
*
*       UPSTREAM GOLF CART CROSSING ON 2 - 72" RCP WITH FLUSH INLETS AND
*       45 DEGREE WINGWALLS.
*
ET                    4.1  9880.7 10170.8
X118.575     21.   9972.  10000.    160.    160.    160.
X3   10.                                                      1297.   1297.
GR1324.2   9716.  1323.1   9748.  1324.4   9765.  1321.9   9790.  1318.3   9810.
GR 1317.   9839.  1306.7   9889.  1294.1   9951.  1291.5   9972.  1289.3   9993.
GR1289.7  10000.  1289.7  10018.  1290.5  10040.  1293.8  10058.  1298.8  10073.
GR1299.8  10094.  1303.4  10108.  1303.9  10121.   1303.  10135.  1310.1  10182.
GR1310.2  10194.
SB  1.25    1.56     3.0      0.    10.4     1.0    56.5      0.  1289.4  1289.3
ET                   4.11  9876.1 10177.2
X118.583                                  40.     40.     40.                0.1

*       ELTRD IS 1298.4+0.6HV = 1299.0
*
X2                      1.  1295.4   1299.
X3   10.                                                      1298.4  1298.4
BT    9.   9880.   1310.      0.   9965.   1300.      0.  10000.  1298.4      0.
BT10037.   1300.      0.  10065.   1302.      0.  10085.   1304.      0.  10122.
BT 1306.      0.  10160.   1308.      0.  10170.   1310.      0.
ET                    4.1  9879.6 10134.7
X118.640     17.   9955.  10033.    300.    310.    301.
GR1322.5   9707.  1323.7   9729.  1320.1   9768.  1313.8   9827.  1312.3   9858.
GR1308.4   9887.  1302.6   9920.  1294.6   9955.  1292.8   9966.  1290.2   9993.
GR1291.5  10000.  1291.8  10009.  1293.4  10033.  1307.8  10111.   1309.  10132.
GR1312.1  10153.  1313.2  10167.
ET                    4.1  9883.2 10111.7
X118.734     19.   9938.  10062.    490.    500.    496.
GR1320.7   9713.  1316.3   9762.  1316.6   9809.  1319.2   9819.  1317.9   9841.
GR1308.7   9888.  1298.6   9938.  1293.4   9971.  1294.2   9981.  1292.4   9992.
GR1294.5  10000.  1294.4  10025.  1300.8  10062.   1309.  10094.  1307.6  10104.
GR1312.9  10124.   1314.  10143.  1317.1  10178.  1319.9  10201.
ET                    4.1  9891.8  10107.
X118.832     21.   9929.  10046.    480.    540.    517.
GR1326.2   9779.   1328.   9788.  1320.6   9826.   1316.   9853.  1312.5   9880.
GR1302.8   9929.  1296.1   9960.  1293.5   9982.  1293.2  10000.  1293.2  10005.
GR1294.8  10008.  1295.5  10027.  1297.1  10046.  1307.7  10095.  1314.1  10128.
GR1314.1  10141.  1317.1  10187.  1320.3  10221.  1319.9  10247.  1318.6  10271.
GR1319.2  10278.
                      4.1  9887.7 10087.5
X118.925     14.   9941.  10048.    480.    500.    491.
GR1329.1   9741.  1315.9   9866.  1297.6   9941.  1297.3   9960.  1295.3   9989.
GR 1295.  10000.  1296.1  10006.  1295.4  10022.  1294.6  10025.  1296.3  10034.
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GR 1300.  10048.  1310.5  10087.  1320.1  10132.  1321.3  10161.
ET                  4.1  9866.3 10038.5
X119.018     20.   9903.  10030.    460.    520.    491.
GR 1331.   9681.  1321.2   9775.  1313.9   9847.  1305.1   9903.  1298.1   9930.
GR 1298.   9948.  1298.1   9957.  1297.6   9974.   1299.  10000.  1308.4  10030.
GR1325.3  10088.   1327.  10101.  1325.5  10109.  1330.2  10118.  1330.9  10124.
GR 1327.  10145.  1326.8  10211.  1328.8  10218.  1332.6  10260.  1331.8  10268.
ET                  4.1  9942.1 10061.9
X119.117     10.   9973.  10026.    490.    560.    523.
GR1333.9   9803.  1331.8   9872.   1323.   9908.  1302.9   9973.  1299.2   9997.
GR1298.7  10000.  1298.6  10010.  1301.5  10026.  1328.9  10116.   1333.  10144.
ET                  4.1  9923.1  10081.
X119.210     16.   9945.  10060.    500.    490.    491.
GR1333.2   9669.  1330.6   9853.  1328.7   9874.   1312.   9945.   1310.   9954.
GR1303.8   9978.  1301.4   9991.  1300.2  10000.  1301.3  10010.  1303.4  10026.
GR 1312.  10060.  1321.3  10098.   1327.  10127.  1332.5  10166.  1335.3  10191.
GR1335.6  10192.
*
*       19TH AVENUE  (SPECIAL BRIDGE)
*
NC                          0.3     0.5
QT    2.  14600.  14600.
X119.283     12.   9948.  10057.    390.    390.    386.            11.2
X3   10.                                                   1324.   1324.
GR1333.2   9669.  1330.6   9853.  1328.7   9874.   1312.   9945.  1300.5   9948.
GR1300.5  10057.   1312.  10060.  1321.3  10098.   1327.  10127.  1332.5  10166.
GR1335.3  10191.  1335.6  10192.
SB   0.9    1.56      3.            109.     4.5   1304.      0.  1311.7  1311.7
X119.299                             86.     86.     86.
*
*       ELTRD IS 1324.5+2HV = 1326.5
*
X2                  1.  1324.2  1326.5
X3   10.                                                   1325.   1325.
BT    6.   9500.   1326.      0.   9650.  1324.5      0.   9855.  1325.3      0.
BT10000.  1325.7      0.  10275.  1324.9      0.  10460.   1326.      0.
ET                10.41
X119.313     20.   9932.  10112.     75.     75.     74.
GR 1329.   9853.  1326.7   9859.  1327.6   9866.  1327.9   9932.  1314.5   9968.
GR1312.2   9980.  1311.7   9988.  1313.1   9996.  1313.1  10000.  1313.4  10017.
GR 1312.  10029.  1313.7  10044.  1311.7  10054.  1313.7  10069.  1325.5  10112.
GR1325.4  10137.  1324.3  10180.  1324.9  10219.  1325.2  10325.  1326.6  10464.
NC                    0.1     0.3
X119.418     19.   9948.  10120.    570.    530.    554.
GR1330.8   9898.  1328.8   9902.  1330.6   9910.  1330.2   9938.   1328.   9948.
GR1313.1   9992.  1313.1  10000.   1313.  10004.  1316.1  10022.  1314.6  10058.
GR1315.5  10076.  1320.1  10094.  1326.1  10120.  1327.6  10138.  1327.5  10186.
GR1326.2  10276.   1327.  10322.  1328.3  10376.  1328.6  10401.
*
*       SECTION 19.56  IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST
*       FORK.  THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE
*       EAST FORK OF CAVE CREEK.  THE CONFLUENCE OCCURS AT RM 19.608
*
X1 19.56     17.   9929.  10065.    730.    720.    729.
GR1346.1   9801.  1329.7   9902.  1329.7   9929.  1316.5   9950.  1316.8   9978.
GR1315.6  10000.  1315.6  10008.  1316.6  10026.  1316.4  10035.  1317.5  10043.
GR1330.6  10065.  1330.8  10099.  1330.5  10146.  1330.2  10195.  1330.9  10208.
GR1331.2  10223.  1332.1  10301.
*
*       GREENWAY BRIDGE  (SPECIAL BRIDGE).  LARGE SKEW ACCOUNTED FOR PRIOR
*       TO DATA INPUT BY ADJUSTING BWC ETC.  DUE TO COMPLEX CHANNEL GEOMETRY
*       DOWNSTREAM AT THE CONFLUENCE WITH THE EAST FORK, IT WAS MOST APPROPRIATE
*       TO USE THE UPSTREAM SECTION, REPEATED AT THE DOWNSTREAM FACE.  GR CARDS
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*       FROM SECTION 19.742 ARE REPEATED FOR 19.625 WITH PSXECE = -1.7
*
QT    2.   5700.   5700.
NC 0.035   0.035   0.015     0.3     0.5
X119.625     11.   9965.  10025.    580.     70.    364.            -1.7
X3   10.                                                   1332.   1332.
GR1335.7   9834.  1335.1   9893.  1333.4   9922.  1331.8   9937.  1331.6   9948.
GR1319.3   9965.  1319.3  10025.   1331.  10042.  1339.2  10055.  1337.7  10060.
GR1338.8  10100.
SB  1.05    1.56      3.    100.     60.      2.    564.      0.  1318.6  1317.6
X119.691                            330.    430.    350.             1.0
*
*       ELTRD IS 1332.8+2HV = 1334.8
*
X2                     1.  1328.3  1334.8
X3   10.                                                   1333.   1333.
ET                   4.1   9953.  10038.
X119.742     13.   9948.  10042.     80.    470.    269.
GR1335.7   9834.  1335.1   9893.  1333.4   9922.  1331.8   9937.  1331.6   9948.
GR1319.1   9967.  1319.2  10000.  1319.7  10017.  1319.7  10027.   1331.  10042.
GR1339.2  10055.  1337.7  10060.  1338.8  10100.
NC 0.035   0.035   0.035     0.1     0.3
ET                   4.1   9957.  10043.
X119.847     22.   9929.  10062.    570.    520.    554.
GR1339.8   9621.  1338.7   9726.  1341.6   9738.  1338.8   9759.   1339.   9806.
GR1337.7   9915.  1336.1   9921.  1336.3   9929.  1320.2   9974.  1318.8   9989.
GR1320.8  10000.  1320.5  10017.  1321.3  10023.  1328.8  10040.  1335.8  10062.
GR1336.1  10070.  1336.6  10084.  1335.8  10150.   1336.  10160.  1338.3  10175.
GR1339.2  10195.  1339.2  10198.
ET                   4.1   9958.  10031.
X119.960     24.   9958.  10031.    640.    560.    597.
GR1340.4   9544.  1339.1   9638.  1336.7   9736.  1337.2   9768.  1338.2   9807.
GR1338.9   9836.  1338.4   9908.  1340.1   9911.  1337.7   9917.  1339.1   9924.
GR1337.2   9935.   1330.   9958.  1327.8   9964.  1326.1   9977.  1324.6   9990.
GR1324.7  10000.  1326.1  10008.  1326.8  10023.   1330.  10031.  1340.6  10059.
GR1340.8  10072.  1340.7  10099.  1340.1  10194.  1339.9  10251.
*
*       TIERRA BUENA  (SPECIAL BRIDGE)
*
*
*       DUE TO HIGHER DEPTHS THAN ANTICIPATED, XNCH HAS BEEN REDUCED
*       FROM 0.04 (PER MANNINGS n VALUE REPORT) TO 0.035 BETWEEN GREENWAY ROAD
*       AND UNION HILLS DRIVE
*
NC  0.04    0.04   0.035     0.3     0.5
ET                   4.1   9969.  10020.
X119.974     10.   9969.  10020.    105.     65.     74.
X3   10.                                                   1336.   1336.
GR1340.1   9911.  1337.7   9917.  1339.1   9924.  1337.2   9935.   1330.   9958.
GR1323.8   9969.  1323.8  10020.   1330.  10031.  1340.6  10059.  1340.8  10072.
SB  1.25    1.56      3.             51.      3.    480.      0.  1324.1  1323.8
ET                  4.11   9969.  10020.
X119.986                             61.     61.     61.
*
*       ELTRD IS 1336.9+1HV = 1337.9
*
X2                     1.  1334.1  1337.9
X3   10.                                                   1337.   1337.
ET    3.   9560.   1340.      0.  10000.  1336.9      0.  10230.   1340.      0.
                     4.1   9975.  10025.
X120.049     37.   9954.  10027.    305.    345.    333.
X3   10.                                                   1340.
GR1344.7   9266.  1345.2   9300.  1342.4   9304.  1340.8   9328.  1332.6   9344.
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GR1333.1   9400.  1333.3   9490.   1334.   9563.  1334.8   9606.  1333.2   9728.
GR 1335.   9767.  1331.4   9805.   1331.   9820.  1331.5   9854.  1331.5   9901.
GR1332.1   9920.  1341.1   9938.  1340.5   9950.  1343.4   9954.  1339.8   9969.
GR1327.4   9991.  1327.1   9997.  1327.1  10000.  1328.4  10008.  1339.4  10027.
GR 1340.  10047.  1342.3  10075.  1342.4  10097.  1340.2  10114.  1342.3  10131.
GR 1343.  10142.  1341.5  10162.  1342.7  10175.  1342.9  10210.  1343.3  10307.
GR1342.5  10378.   1343.  10477.
NC                          0.1     0.3
ET                   4.1   9972.  10029.
X120.144     38.   9955.  10025.    490.    500.    502.
X3   10.                                                  1344.
GR1346.6   9136.  1347.4   9206.  1348.2   9208.  1348.4   9215.  1347.1   9235.
GR1342.5   9239.  1341.7   9258.  1334.6   9278.   1332.   9297.  1332.6   9357.
GR1333.7   9417.  1333.1   9457.  1334.1   9479.  1334.9   9499.  1335.3   9554.
GR1334.4   9582.  1335.7   9631.  1335.6   9698.  1336.1   9745.  1334.6   9779.
GR1329.6   9788.  1330.5   9820.  1329.4   9847.  1328.5   9881.  1328.5   9912.
GR1341.6   9931.  1343.1   9951.  1344.6   9955.   1342.   9968.  1330.9   9986.
GR1330.9  10000.  1330.9  10010.  1340.8  10025.  1342.2  10040.  1345.9  10053.
GR1346.5  10073.   1347.  10128.   1347.  10198.
ET                   4.1   9964.  10035.
X120.242     32.   9953.  10029.    470.    560.    517.
X3   10.                                                  1348.
GR1346.6   9200.  1347.9   9269.  1348.7   9271.  1348.7   9277.  1346.6   9330.
GR1347.7   9377.  1342.3   9383.  1342.7   9400.  1332.4   9422.  1333.6   9470.
GR1333.7   9529.  1334.9   9573.  1334.2   9626.  1334.9   9648.  1335.1   9651.
GR 1336.   9785.   1336.   9842.  1338.6   9846.  1339.3   9895.  1339.2   9935.
GR1347.2   9953.  1343.7   9970.  1333.3   9988.  1333.7  10000.  1333.5  10012.
GR1342.8  10029.  1343.2  10041.  1348.3  10061.  1349.2  10076.  1349.9  10107.
GR1350.1  10201.  1350.3  10202.
ET                   4.1   9963.  10036.
X120.335     27.   9958.  10032.    510.    470.    491.
GR1349.5   9230.  1351.4   9312.  1349.1   9322.  1350.7   9340.   1351.   9476.
GR1351.2   9592.  1350.4   9726.  1350.1   9808.  1351.1   9820.  1351.4   9850.
GR1351.8   9928.  1347.7   9950.   1344.   9958.  1337.7   9971.  1337.3   9987.
GR1337.4  10000.  1338.3  10021.   1344.  10032.   1349.  10042.  1351.8  10056.
GR1351.1  10100.  1351.6  10141.   1350.  10144.   1350.  10166.   1350.  10240.
GR1350.8  10328.  1351.4  10406.
*
*       11TH AVENUE  (SPECIAL BRIDGE)
*
NC                          0.3     0.5
X120.347     25.   9970.  10021.      1.    150.     63.
X3   10.                                                  1351.5  1351.5
GR1349.5   9230.  1351.4   9312.  1349.1   9322.  1350.7   9340.   1351.   9476.
GR1351.2   9592.  1350.4   9726.  1350.1   9808.  1351.1   9820.  1351.4   9850.
GR1351.8   9928.  1347.7   9950.   1344.   9958.  1337.2   9970.  1337.2  10021.
GR 1344.  10032.   1349.  10042.  1351.8  10056.  1351.1  10100.  1351.6  10141.
GR 1350.  10144.   1350.  10166.   1350.  10240.  1350.8  10328.  1351.4  10406.
SB  1.25    1.56     3.0    100.     51.      3.    576.      0.  1337.7  1337.2
X120.366                            100.    100.    100.
*
*       ELTRD IS 1352.5+2HV = 1354.5
*
X2                   1.  1349.7  1354.5
X3   10.                                                  1352.5  1352.5
ET                   4.1   9958.  10072.
X120.423     21.   9975.  10045.    415.    205.    301.
GR1354.3   9418.  1353.8   9613.  1355.3   9653.  1354.6   9696.  1353.3   9711.
GR1353.6   9724.  1353.5   9931.   1352.   9950.   1345.   9975.   1338.  10000.
GR1339.4  10027.  1339.7  10037.  1344.3  10045.   1345.  10055.  1353.3  10085.
GR1353.5  10100.  1354.7  10127.  1354.4  10214.  1354.3  10273.  1353.3  10300.
GR1353.5  10333.
*
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*       10TH AVENUE  (SPECIAL BRIDGE)
*
X120.430     20.   9985.  10036.      1.     65.     37.
X3   10.                                                  1352.5  1352.5
GR1354.3   9418.  1353.8   9613.  1355.3   9653.  1354.6   9696.  1353.3   9711.
GR1353.6   9724.  1353.5   9931.   1352.   9950.   1345.   9975.  1339.3   9985.
GR1339.3  10036.  1344.3  10045.   1345.  10055.  1353.3  10085.  1353.5  10100.
GR1354.7  10127.  1354.4  10214.  1354.3  10273.  1353.3  10300.  1353.5  10333.
SB  1.25    1.56     3.0    100.     51.      3.    576.      0.  1339.3  1339.3
X120.444                            70.     70.     70.
*
*       ELTRD IS 1353.5+2HV = 1355.5
*
X2                    1.  1351.3  1355.5
X3   10.                                                  1353.5  1353.5
ET                  4.1   9930.  10069.
X120.529     19.   9947.  10055.    545.    375.    449.
GR 1354.   9570.  1353.7   9764.  1354.8   9836.   1355.   9885.  1354.7   9898.
GR1350.7   9910.  1350.2   9947.  1343.4   9963.  1343.4   9990.  1343.3  10000.
GR 1343.  10025.  1348.6  10041.  1350.4  10055.  1350.8  10090.   1355.  10105.
GR1354.4  10159.   1355.  10192.   1355.  10302.  1355.2  10313.
NC                          0.1     0.3
ET                  4.1   9935.  10065.
X120.628     16.   9909.  10076.    530.    520.    523.
GR1357.3   9532.  1357.3   9624.  1356.8   9754.  1357.2   9808.  1357.1   9909.
GR1351.5   9922.  1350.2   9947.  1343.3   9959.  1343.6   9991.  1343.6  10000.
GR1343.7  10044.  1356.3  10076.   1357.  10082.  1357.1  10137.  1357.2  10282.
GR 1358.  10337.
ET                  4.1   9962.  10026.
X120.725     20.   9951.  10036.    510.    520.    512.
GR1360.3   9544.  1361.1   9631.  1361.3   9734.   1361.   9783.   1362.   9858.
GR1360.8   9940.  1360.4   9951.  1350.4   9970.  1350.4   9981.  1348.3   9984.
GR1347.4   9992.  1347.2  10000.  1347.4  10010.   1361.  10036.  1363.4  10046.
GR1363.8  10101.  1364.1  10156.  1364.7  10184.  1365.1  10212.  1364.7  10291.
*
*       PHELPS ROAD  (SPECIAL BRIDGE)
*
NC                          0.3     0.5
X120.737     16.   9968.  10019.     80.     80.     80.             3.4
X3   10.                                                   1363.   1363.
GR1360.3   9544.  1361.1   9631.  1361.3   9734.   1361.   9783.   1362.   9858.
GR1360.8   9940.  1360.4   9951.  1347.5   9968.  1347.5  10019.   1361.  10036.
GR1363.4  10046.  1363.8  10101.  1364.1  10156.  1364.7  10184.  1365.1  10212.
GR1364.7  10291.
SB  1.25    1.56     3.0    100.     51.      3.    576.      0.  1351.0  1350.9
X120.750                            71.     71.     71.             0.1
*
*       ELTRD IS 1364+2HV = 1366.0
*
X2                    1.   1363.   1366.
X3   10.                                                   1364.   1364.
*
*       BELL ROAD  (SPECIAL BRIDGE)  A SECTION TAKEN UPSTREAM OF BELL ROAD AT
*       RM 20.845 IS USED TO MODEL THE BELL ROAD BRIDGE.  GR CARDS ARE REPEATED
*       AT THE DOWNSTREAM FACE WITH PSXECE = -0.9.  TO MORE APPROPRIATELY MODEL
*       CONTRACTION LOSSES, THE UPSTREAM SECTION IS PRESENTED AT RM 20.860
*       INSTEAD OF RM 20.845 WHERE THE AERIAL SECTION WAS TAKEN.
*
X120.819     12.   9965.  10043.    375.    345.    365.            -0.9
X3   10.                                                  1366.9  1366.9
GR1366.5   9554.  1365.4   9663.  1365.5   9777.  1365.5   9846.  1365.3   9942.
GR1357.4   9965.  1357.4  10043.  1367.6  10066.  1366.2  10107.  1366.2  10146.
GR 1367.  10166.  1367.2  10169.
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SB  1.05    1.56     3.0    100.    77.3     3.3    655.      0.  1357.4  1356.5
X120.841                            115.    115.    115.             0.9
*
*       ELTRD IS 1367.9+2HV = 1369.9
*
X2                    1.  1365.4  1369.9
X3   10.                                                   1367.9  1367.9
ET                   4.1   9904.  10060.
X120.860     14.   9942.  10066.     90.    110.    100.
X3   10.                                                   1365.3  1367.6
GR 1370.   9800.  1365.5   9801.  1365.5   9846.  1365.3   9942.  1357.8   9975.
GR1356.3   9991.  1356.4  10000.  1357.2  10015.   1357.  10040.  1367.6  10066.
GR1366.2  10107.  1366.2  10146.   1367.  10166.  1367.2  10169.
NC  0.04   0.035   0.035     0.1     0.3
ET                   4.1   9860.  10110.
X120.942     26.   9854.  10024.    530.    490.    433.
GR1372.5   9619.  1367.2   9630.  1368.7   9643.  1369.8   9663.  1369.4   9719.
GR1367.6   9792.  1367.6   9836.  1368.6   9854.  1360.2   9867.  1359.8   9879.
GR1359.8   9891.  1364.6   9904.  1365.2   9942.  1363.7   9970.   1366.   9977.
GR1360.3   9998.  1359.6  10000.  1366.5  10024.  1364.7  10027.  1364.5  10053.
GR1365.7  10070.  1364.5  10114.  1361.6  10153.  1368.3  10171.  1368.3  10194.
GR1368.3  10204.
NC  0.04    0.04   0.035
ET                   4.1   9810.  10060.
X121.036     19.   9912.  10020.    490.    490.    496.
GR1376.1   9530.   1372.   9541.   1372.   9561.  1371.3   9665.  1371.9   9728.
GR1371.6   9758.  1370.9   9867.  1370.7   9912.  1367.3   9917.  1367.5   9952.
GR1366.3   9980.  1363.5   9994.  1363.6  10000.  1364.3  10009.  1370.4  10020.
GR1371.2  10041.  1371.2  10075.  1371.8  10089.   1378.  10090.
ET                   4.1   9900.  10060.
X121.127     13.   9974.  10067.    400.    500.    480.
X3   10.                                                   1374.
GR1378.9   9623.  1373.6   9634.  1373.6   9666.  1373.4   9759.  1373.5   9860.
GR1373.7   9913.  1374.2   9974.  1366.9   9990.  1366.7  10000.  1367.5  10015.
GR1367.8  10039.   1375.  10067.   1375.  10077.
ET                   4.1   9900.  10125.
X121.230     28.   9967.  10048.    560.    500.    544.
GR1381.5   9741.  1381.5   9764.  1381.5   9786.  1380.7   9813.  1379.3   9835.
GR1379.3   9852.  1379.9   9862.  1378.2   9870.  1379.8   9879.  1378.9   9891.
GR1379.5   9916.  1379.6   9930.  1378.9   9944.  1379.2   9955.  1379.3   9967.
GR1374.7   9982.  1372.4   9992.   1372.  10000.  1373.2  10014.  1375.6  10023.
GR1379.3  10037.  1380.6  10048.   1378.  10062.  1377.5  10083.  1377.4  10102.
GR1377.7  10117.  1377.8  10126.   1385.  10127.
ET                   4.1   9930.  10130.
X121.363     55.   9928.  10088.    740.    700.    702.
GR1384.8   9135.  1384.7   9160.  1383.9   9189.  1384.6   9215.  1383.9   9245.
GR1384.4   9279.  1383.8   9313.   1384.   9345.  1384.1   9374.  1383.8   9405.
GR1383.5   9428.  1384.5   9459.   1385.   9498.  1384.7   9527.   1385.   9549.
GR1382.2   9561.   1381.   9570.  1382.1   9583.  1383.9   9596.  1384.3   9628.
GR1384.3   9657.   1384.   9697.  1383.6   9739.  1384.1   9779.  1383.9   9811.
GR1383.1   9822.  1383.6   9848.  1383.3   9886.  1383.5   9907.  1384.1   9916.
GR1383.2   9922.  1384.4   9928.  1383.6   9939.  1379.2   9954.  1377.7   9977.
GR 1375.   9996.  1374.8  10000.   1375.  10016.  1374.2  10037.  1374.1  10045.
GR1377.5  10066.  1382.1  10088.  1383.8  10108.   1384.  10125.  1384.5  10147.
GR1382.7  10174.  1383.2  10202.  1383.1  10224.  1383.1  10245.  1383.3  10265.
GR1384.3  10285.  1383.4  10301.   1383.  10319.   1383.  10334.   1383.  10337.
ET                   4.1   9852.  10077.
X121.484     33.   9932.  10026.    650.    520.    639.
GR1386.8   9487.  1385.8   9527.  1385.8   9572.  1385.4   9614.  1384.8   9647.
GR1385.2   9678.  1385.6   9709.  1386.7   9746.  1385.9   9776.  1384.5   9805.
GR1383.9   9837.  1384.4   9867.   1384.   9892.  1386.5   9919.  1386.9   9932.
GR1386.2   9943.  1383.5   9964.  1380.2   9970.  1379.7   9988.  1378.5   9994.
GR1378.6  10000.  1381.2  10014.  1386.5  10026.  1386.6  10053.  1387.8  10056.
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GR1385.5  10060.  1388.2  10068.  1385.8  10075.  1387.4  10079.  1387.4  10101.
GR1387.6  10116.  1387.5  10131.  1387.4  10134.
ET                  4.1   9940.  10165.
X121.576     43.   9980.  10087.    320.    480.    486.
GR1388.7   9388.  1388.6   9414.  1388.2   9461.  1388.5   9500.  1389.3   9532.
GR1388.7   9570.  1388.5   9607.  1387.9   9643.  1388.6   9664.  1388.8   9705.
GR1389.1   9743.  1388.9   9780.   1388.   9821.  1388.4   9852.  1388.7   9889.
GR1389.1   9922.  1389.7   9952.  1390.1   9968.   1390.   9980.  1382.5   9994.
GR1382.1  10000.  1382.2  10008.  1383.8  10015.  1385.1  10038.  1385.2  10056.
GR1384.1  10065.  1384.6  10073.  1388.3  10087.  1387.1  10114.  1387.1  10140.
GR1387.8  10162.  1387.7  10199.  1388.4  10243.  1388.7  10281.  1389.3  10300.
GR1390.3  10307.  1389.2  10313.  1390.7  10320.  1387.6  10329.  1388.9  10335.
GR1389.7  10348.  1390.2  10360.  1390.3  10386.
QT    2.   5500.   5500.
ET                  4.1   9890.  10115.
X121.669     35.   9962.  10031.    440.    470.    491.
GR1393.2   9392.   1393.   9426.  1392.7   9446.  1392.3   9515.  1392.9   9562.
GR1392.2   9606.  1392.8   9663.  1392.7   9710.  1393.1   9742.  1393.5   9777.
GR1393.3   9819.  1392.7   9858.  1392.2   9893.  1391.6   9925.   1392.   9949.
GR1393.8   9962.  1392.7   9974.  1392.2   9982.   1385.   9989.   1384.   9997.
GR1384.5  10000.  1385.1  10011.  1388.7  10023.   1392.  10031.  1391.2  10045.
GR 1392.  10074.  1391.7  10124.  1391.9  10182.   1392.  10245.  1392.1  10303.
GR1391.9  10361.   1392.  10395.  1392.6  10401.  1391.6  10404.  1393.3  10414.
ET                  4.1   9940.  10140.
X121.742     25.   9975.  10091.    430.    390.    385.
GR 1396.   9733.  1394.6   9753.  1395.1   9777.   1395.   9802.   1395.   9839.
GR1395.6   9885.  1395.1   9930.  1395.3   9940.  1394.7   9975.  1387.4   9991.
GR1386.4  10000.  1386.9  10015.  1392.2  10035.  1391.9  10052.  1389.9  10062.
GR1391.5  10080.  1394.2  10091.  1394.2  10126.  1394.9  10176.   1395.  10240.
GR1394.6  10281.  1394.8  10324.  1395.2  10355.  1395.3  10367.  1397.3  10376.
ET                  4.1   9900.  10100.
X121.840     22.   9946.  10054.    430.    430.    517.
GR1401.5   9827.  1402.1   9842.  1397.3   9860.  1395.5   9882.   1395.   9913.
GR1395.3   9931.  1396.2   9946.  1395.7   9953.  1392.1   9967.  1392.6   9984.
GR1393.7   9997.  1393.3  10000.  1392.5  10020.  1391.1  10033.  1393.5  10045.
GR 1397.  10054.  1396.5  10097.  1397.3  10145.  1397.8  10186.  1397.5  10227.
GR1397.6  10273.  1398.3  10308.
ET                  4.1   9830.  10080.
X121.895     31.   9975.  10031.    330.    220.    290.
GR1402.6   9807.  1402.6   9825.  1398.4   9839.  1397.2   9857.  1396.7   9885.
GR1396.7   9919.  1397.7   9939.  1397.9   9960.   1398.   9975.  1397.1   9981.
GR 1393.   9990.  1391.9  10000.  1392.3  10010.   1394.  10021.  1397.7  10031.
GR1398.6  10046.   1399.  10078.  1398.4  10113.  1398.6  10149.  1398.7  10187.
GR1398.5  10225.  1398.1  10251.  1398.6  10292.  1398.6  10333.  1399.3  10364.
GR1398.8  10399.  1399.5  10428.  1400.5  10446.  1400.5  10458.  1399.7  10463.
GR1400.9  10470.
*
*       UNION HILLS RD:   PIPES BENEATH LOW CROSSING WERE MODELLED AS AN AREA
*       (BAREA) WITH AN ORIFICE COEFFICIENT.  THE 100 YEAR FLOW THROUGH THE
*       PIPES WAS NEGLIGIBLE (18 CFS).  UNION HILLS IS THEREFORE MORE
*       APPROPRIATELY MODELLED AS A NORMAL SECTION USING GR CARDS.
*
ET                  4.1   9650.  10070.
X121.933     12.   9865.  10140.    210.    210.    210.
GR 1402.   9060.  1400.3   9440.   1400.   9590.   1398.   9680.  1397.4   9725.
GR 1398.   9780.  1399.4   9840.   1398.   9865.  1396.8  10000.   1398.  10140.
GR 1400.  10285.   1406.  10286.
NC 0.045   0.045   0.045
ET                  4.1   9630.  10051.
X121.953     39.   9969.  10029.     75.     75.     74.
GR 1402.   9320.  1400.5   9487.  1400.8   9527.  1401.4   9557.  1400.2   9580.
GR1401.7   9599.  1401.1   9621.  1400.2   9647.  1399.6   9678.  1398.8   9699.
GR1398.3   9714.  1397.6   9720.  1396.6   9725.  1398.8   9735.  1399.3   9745.
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GR1398.8	9759.	1397.3	9768.	1398.9	9782.	1398.9	9810.	1400.1	9832.
GR1402.1	9851.	1401.7	9870.	1403.3	9884.	1403.7	9893.	1403.4	9912.
GR1402.3	9939.	1401.	9956.	1399.7	9965.	1400.2	9969.	1395.6	9986.
GR1394.4	9997.	1394.1	10000.	1394.	10010.	1394.9	10018.	1398.3	10029.
GR1400.1	10044.	1401.6	10058.	1401.4	10064.	1407.	10065.		
ET		4.1	9620.	10030.					
X122.065	39.	9961.	10028.	430.	630.	591.			
GR1404.2	9230.	1404.	9250.	1402.	9270.	1402.	9500.	1403.1	9594.
GR1403.6	9604.	1400.4	9627.	1400.1	9645.	1400.6	9657.	1400.3	9680.
GR1400.5	9700.	1401.9	9717.	1403.3	9731.	1403.7	9746.	1403.9	9761.
GR1400.1	9776.	1400.	9785.	1401.1	9796.	1401.	9816.	1403.7	9829.
GR1403.7	9843.	1400.7	9861.	1399.7	9869.	1402.7	9890.	1403.5	9899.
GR1404.1	9915.	1404.8	9934.	1403.6	9950.	1404.1	9961.	1401.4	9977.
GR 1398.	9989.	1395.8	9995.	1395.8	10000.	1395.9	10006.	1399.4	10010.
GR 1402.	10028.	1402.6	10043.	1406.6	10061.	1407.1	10085.		
ET		4.1	9620.	10020.					
X122.165	63.	9983.	10018.	530.	530.	528.			
GR 1406.	9130.	1405.2	9138.	1405.	9151.	1404.4	9164.	1402.8	9176.
GR1402.7	9184.	1400.8	9204.	1399.8	9213.	1399.3	9222.	1401.2	9232.
GR 1403.	9256.	1403.8	9282.	1403.8	9308.	1404.3	9334.	1404.2	9364.
GR1404.1	9396.	1404.	9425.	1404.9	9463.	1405.2	9499.	1405.3	9526.
GR1404.9	9548.	1403.8	9565.	1402.8	9579.	1404.6	9595.	1404.8	9608.
GR1402.4	9624.	1400.	9637.	1399.7	9645.	1400.6	9657.	1402.	9669.
GR1403.1	9686.	1404.5	9701.	1405.8	9714.	1406.2	9728.	1406.1	9741.
GR 1404.	9753.	1403.8	9760.	1405.2	9772.	1405.6	9784.	1405.3	9793.
GR1402.9	9806.	1402.7	9820.	1402.6	9834.	1402.6	9843.	1401.8	9849.
GR1401.9	9862.	1402.8	9872.	1403.8	9876.	1405.	9894.	1406.1	9909.
GR1405.4	9919.	1403.1	9930.	1403.	9946.	1402.1	9967.	1400.9	9983.
GR1395.3	9994.	1395.	10000.	1396.1	10007.	1403.7	10018.	1404.8	10038.
GR1405.2	10053.	1405.2	10060.	1405.7	10065.				
ET		4.1	9650.	10027.					
X122.273	57.	9933.	10028.	470.	580.	570.			
GR1418.7	9227.	1418.7	9238.	1412.4	9262.	1411.6	9274.	1410.9	9284.
GR 1409.	9292.	1407.6	9300.	1407.3	9314.	1406.3	9325.	1403.5	9335.
GR1403.1	9344.	1403.	9350.	1404.3	9359.	1405.4	9369.	1405.8	9386.
GR1406.7	9408.	1407.1	9427.	1407.4	9444.	1407.2	9460.	1406.4	9473.
GR1406.5	9485.	1406.9	9502.	1407.7	9520.	1408.2	9532.	1407.1	9558.
GR1404.4	9574.	1404.3	9598.	1406.	9622.	1407.	9657.	1407.3	9686.
GR1406.2	9708.	1406.4	9727.	1406.4	9745.	1405.6	9754.	1402.6	9766.
GR1402.8	9774.	1406.7	9789.	1409.4	9801.	1408.5	9827.	1407.9	9851.
GR1408.8	9869.	1406.3	9887.	1407.	9902.	1404.	9915.	1404.1	9933.
GR1403.2	9948.	1401.8	9961.	1400.6	9977.	1400.1	9992.	1399.4	9999.
GR1399.8	10000.	1401.2	10011.	1404.	10021.	1406.9	10028.	1408.	10050.
GR1408.3	10080.	1408.7	10109.						
ET		4.1	9860.	10040.					
X122.410	25.	9973.	10027.	750.	630.	723.			
GR 1420.	9802.	1419.1	9817.	1418.8	9825.	1415.8	9838.	1414.8	9850.
GR1412.6	9867.	1413.9	9879.	1412.	9890.	1413.4	9903.	1414.5	9914.
GR1416.1	9922.	1414.	9931.	1412.4	9941.	1411.4	9954.	1411.2	9967.
GR1410.7	9973.	1405.7	9987.	1404.9	9997.	1404.	10000.	1404.7	10007.
GR1407.6	10017.	1411.3	10027.	1413.5	10042.	1413.8	10057.	1414.4	10071.
ET		4.1	9890.	10050.					
X122.483	19.	9941.	10105.	380.	390.	385.			
GR 1421.	9823.	1420.2	9843.	1416.7	9873.	1414.4	9891.	1413.1	9915.
GR1411.1	9941.	1407.8	9961.	1406.2	9984.	1405.5	10000.	1405.5	10027.
GR1406.4	10056.	1408.3	10084.	1411.2	10105.	1412.3	10120.	1412.6	10138.
GR1412.6	10156.	1411.9	10175.	1412.7	10191.	1419.8	10208.		
ET		4.1	9968.	10064.					
X122.578	13.	9968.	10072.	540.	490.	502.			
GR1417.2	9914.	1417.6	9942.	1416.4	9958.	1416.6	9968.	1406.7	9983.
GR1406.7	9993.	1407.5	10000.	1408.5	10024.	1408.5	10040.	1408.8	10050.
GR1415.6	10063.	1421.2	10072.	1421.4	10090.				
ET		4.1	9830.	10028.					

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X122.675     19.   9736.  10032.    570.    480.    512.
GR1419.9   9671.  1419.9   9710.  1419.8   9736.  1410.6   9759.  1411.1   9783.
GR1410.6   9809.  1409.7   9828.  1410.8   9850.  1411.5   9873.  1413.4   9892.
GR1412.2   9922.   1411.   9950.   1411.   9976.  1410.7  10000.  1410.6  10015.
GR 1420.  10032.  1428.3  10047.  1426.6  10055.   1426.  10060.
ET                  4.1   9977.  10160.
X122.794     20.   9983.  10169.    460.    500.    628.
GR1420.6   9968.  1417.8   9983.  1413.6   9998.  1412.4  10000.  1412.3  10013.
GR1410.7  10041.  1411.6  10065.  1413.7  10080.  1413.8  10103.  1414.2  10119.
GR1411.7  10136.  1413.8  10151.  1416.1  10169.  1417.2  10189.  1420.3  10202.
GR1423.1  10219.   1427.  10244.  1429.9  10261.  1429.8  10278.  1429.8  10282.
ET                  4.1   9951.  10120.
X122.880     34.   9927.  10167.    440.    480.    454.
GR1427.3   9791.   1427.   9807.  1426.5   9815.  1424.8   9827.  1424.6   9838.
GR1424.8   9863.  1424.8   9883.  1424.5   9903.  1424.7   9917.  1426.4   9927.
GR1423.9   9934.  1421.4   9947.  1418.5   9958.  1416.1   9968.   1415.   9984.
GR 1414.   9999.  1414.3  10000.  1414.5  10012.  1415.2  10024.  1416.1  10048.
GR1416.5  10067.  1416.4  10101.  1416.2  10125.  1415.5  10143.  1413.2  10152.
GR 1413.  10156.  1414.8  10160.  1424.2  10167.  1426.6  10188.  1428.4  10200.
GR1430.9  10214.  1433.5  10230.  1433.8  10241.  1433.5  10248.
ET                  4.1   9890.  10026.
X122.990     35.   9739.  10034.    480.    530.    581.
GR1427.7   9668.  1427.6   9697.  1425.6   9719.  1425.3   9730.  1425.4   9739.
GR1423.9   9751.  1422.5   9767.  1422.4   9785.  1421.5   9804.  1421.3   9817.
GR1421.3   9829.  1420.8   9843.  1419.5   9855.  1418.9   9864.  1417.9   9873.
GR1419.4   9886.   1420.   9903.  1420.6   9921.  1420.8   9935.  1420.3   9949.
GR 1420.   9963.  1419.1   9977.  1419.1   9995.  1419.1  10000.  1418.7  10014.
GR1420.3  10020.  1427.9  10034.  1427.3  10044.  1428.3  10060.  1430.5  10076.
GR1435.7  10094.  1437.4  10108.  1438.7  10119.  1436.3  10126.  1435.1  10133.
ET                  4.1   9958.  10090.
X123.097     48.   9951.  10121.    640.    490.    565.
GR1433.9   9713.  1433.9   9740.  1433.8   9758.  1432.3   9772.  1432.1   9778.
GR1433.5   9794.  1433.5   9811.  1433.5   9835.  1433.4   9849.  1431.1   9864.
GR 1430.   9878.  1430.1   9885.   1431.   9892.  1429.6   9901.  1429.1   9916.
GR1429.6   9925.  1431.3   9935.  1432.2   9945.  1432.3   9951.  1427.9   9964.
GR1426.4   9977.  1425.6   9988.  1425.1   9999.  1425.1  10000.   1426.  10012.
GR1426.1  10021.  1426.5  10044.  1426.5  10063.  1426.5  10073.  1426.5  10082.
GR1425.5  10093.  1426.4  10101.  1428.5  10112.  1430.8  10121.  1430.1  10135.
GR 1430.  10150.  1431.6  10163.  1432.8  10176.   1433.  10198.  1432.7  10221.
GR1431.6  10247.  1430.9  10267.  1430.6  10286.  1431.5  10296.  1433.4  10310.
GR1438.3  10337.  1439.7  10353.  1440.5  10363.
*
*       THE BEARDSLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL
*       CROSS SECTION.  THE BEARDSLEY ROAD CENTERLINE IS AT RM 23.168
*
ET                  4.1   9830.  10140.
X123.168     22.   9777.  10116.    330.    300.    375.
GR1435.4   9358.  1435.5   9412.  1435.6   9477.  1434.7   9533.  1433.2   9598.
GR1431.8   9657.  1430.8   9718.  1429.5   9777.  1428.9   9827.   1429.   9877.
GR1429.1   9942.   1429.   9999.  1429.1  10000.  1429.8  10053.  1430.3  10116.
GR1431.8  10176.  1433.6  10230.  1434.3  10274.  1434.9  10326.  1435.5  10363.
GR1435.6  10399.  1435.8  10409.
*
*       DUE TO BREAKOUTS (SPLIT FLOWS) BETWEEN RM 23.55 AND RM 23.8, THE
*       50 AND 100 YEAR Q'S ARE REDUCED PER THE FOLLOWING TABLE.
*
*       NO ENCROACHMENTS ARE COMPUTED FOR THE FOLLOWING REACH BETWEEN RM 23.253
*       AND 7TH STREET.  FOR PURPOSES OF A FLOODWAY, A 100 FT CORRIDOR IS MAIN-
*       TAINED OUTSIDE OF THE LEVEES (WHICH ARE LIKELY TO BE ERODABLE) TO PASS
*       THE SPLIT FLOWS WHICH HAVE BEEN REMOVED FROM THE MODEL, AS DISCUSSED
*       WITH CITY OF PHOENIX AND FLOOD CONTROL DISTRICT REPRESENTATIVES. IF THIS
*       CORRIDOR IS NOT MAINTAINED, THE REDUCTION IN Q FOR THIS MODEL IS NOT
*       VALID, RESULTING IN A FLOODWAY PROFILE ABOVE THE NATURAL PROFILE BY MORE
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*       THAN THE STATUTORY 1.0 FT.
*
*
*                              FULL Q        REDUCED Q
*
*                 50 YEAR   4800.             3300
*
*                100 YEAR   5500.             3400
*
*       THE 10 YEAR Q (3200 CFS) IS UNAFFECTED
*
QT    2.   3400.   3400.
NC 0.035    0.05    0.04
ET                   4.1  9978.5 10023.2
X123.253      8.   9973.  10038.    470.    450.    459.
GR1437.5   9973.  1425.5   9995.  1425.2  10000.  1427.4  10008.  1429.2  10015.
GR1444.2  10038.  1444.9  10052.   1445.  10060.
ET                   4.1   9969.  10036.
X123.334     10.   9962.  10055.    400.    420.    417.
GR1443.8   9962.  1435.6   9979.  1433.2   9990.  1432.6  10000.  1433.2  10012.
GR1435.4  10022.  1438.5  10032.  1444.2  10044.  1449.8  10055.  1449.6  10063.
X123.416     10.   9974.  10053.    400.    430.    433.
GR1447.7   9958.  1447.8   9974.  1439.2   9989.  1436.5   9999.  1436.6  10000.
GR1437.2  10017.  1437.6  10030.  1444.4  10041.  1450.2  10053.  1450.4  10066.
X123.514      8.   9973.  10039.    560.    470.    517.
GR1451.5   9965.  1451.4   9973.  1439.8   9989.  1439.6  10000.  1440.1  10012.
GR1441.5  10022.  1443.6  10029.  1451.1  10039.
*
*       SPECIAL BRIDGE IS USED TO MODEL EMBANKMENT PLACED IN THE CHANNEL TO
*       ALLOW VEHICULAR ACCESS BETWEEN THE LANDFILL ON THE LEFT AND THE GRAVEL
*       PIT ON THE RIGHT.  THE EMBANKMENT MAY WASH OUT, BUT FOR THIS STUDY, IT
*       IS ASSUMED TO REMAIN.  LOW FLOWS PASS THROUGH 2-36" CMP'S.
*
X123.544                                190.    150.    158.            1.8
X3   10.                                                        1445.   1445.
SB  1.25    2.48     3.2      0.     5.7      1.    14.1      0.   1442.  1441.4
X123.555                                60.     60.     60.            0.6
*
*       ELTRD IS 1448.4+0.6HV = 1449
*
X2                     1.   1445.   1449.
X3   10.                                                        1480.   1480.
BT   10.   9930.   1452.      0.   9939.  1451.2      0.   9951.  1451.1      0.
BT 9967.  1449.8      0.   9987.  1448.4      0.  10000.  1448.4      0.  10019.
BT1448.6      0.  10041.  1449.5      0.  10055.   1450.      0.  10070.   1452.
BT    0.
X123.591     17.   9968.  10045.    100.    210.    190.
*
*       ARTIFICIAL LEVEES ARE SET VERY HIGH ON THE LEFT AND RIGHT OVERBANKS
*       USING THE X3 CARD TO CONSIDER ONLY THE CHANNEL AREA AS EFFECTIVE.  SPLIT
*       FLOW THAT BREAKS OUT UPSTREAM IS ACCOUNTED FOR BY THE REDUCED Q.  FLOWS
*       ARE RETURNED TO CAVE CREEK DOWNSTREAM AT BEARDSLEY ROAD.
*
X3   10.                                                        1480.   1480.
GR 1460.   9700.   1448.   9760.   1448.   9850.  1452.9   9959.  1452.9   9968.
GR1446.8   9982.  1444.6   9993.  1444.2  10000.  1444.2  10013.  1444.9  10023.
GR1449.9  10036.  1453.8  10045.  1451.9  10048.   1448.  10070.   1448.  10430.
GR 1450.  10770.   1452.  11200.
X123.691     43.   9965.  10036.    510.    540.    528.
*
*       HIGH ARTIFICIAL LEVEE
*
X3   10.                                                        1480.   1480.
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GR1461.1   9722.  1449.4   9747.  1449.4   9767.  1449.5   9784.  1449.1   9800.
GR1448.3   9819.  1448.6   9832.  1448.3   9866.   1449.   9894.  1449.3   9913.
GR1450.2   9925.  1453.5   9936.  1456.1   9944.  1455.4   9951.  1457.3   9955.
GR1457.6   9965.  1450.8   9980.  1448.5   9985.  1447.2   9991.  1446.6   9999.
GR1446.4  10000.   1447.  10011.  1449.6  10017.  1451.3  10028.  1455.3  10036.
GR1453.2  10045.  1452.4  10054.  1451.3  10057.  1452.2  10062.  1452.4  10077.
GR1452.2  10094.  1451.7  10108.  1452.6  10117.  1451.4  10123.  1452.7  10128.
GR 1451.  10138.  1452.3  10143.  1451.7  10147.  1453.4  10155.  1452.1  10160.
GR 1452.  10320.   1454.  10560.   1456.  10730.
*
*       Q IS NOW CHANGED TO BE THE AVERAGE OF THE FULL Q UPSTREAM OF THE
*       BREAKOUT AND OF THE REDUCED Q DOWNSTREAM OF THE BREAKOUT.
*
QT    2.   4350.   4350.
X123.815     31.   9951.  10037.    650.    680.    655.
*
*       HIGH ARTIFICIAL LEVEE
*
X3   10.                                                   1480.   1480.
GR 1470.   9650.  1459.3   9716.  1453.5   9738.  1453.1   9772.  1453.4   9812.
GR1454.5   9857.  1455.1   9890.   1455.   9914.  1455.4   9941.  1458.9   9951.
GR 1458.   9963.  1451.4   9979.  1449.7   9988.  1449.9   9996.  1449.7  10000.
GR1449.7  10017.  1454.6  10028.  1457.8  10037.  1456.8  10043.  1456.8  10060.
GR1456.9  10081.  1457.1  10110.  1458.2  10140.  1458.4  10157.  1459.5  10172.
GR1458.5  10182.   1456.  10195.  1457.2  10215.  1458.7  10226.  1457.1  10235.
GR1465.5  10249.
*
*       Q IS NOW CHANGED TO BE THE FULL Q UPSTREAM OF THE BREAKOUT
*
QT    2.   5300.   5300.
X123.912     12.   9967.  10043.    480.    510.    512.

        HIGH ARTIFICIAL LEVEE
*
X3   10.                                                   1480.   1480.
GR1463.9   9868.  1461.7   9878.  1460.6   9898.  1460.7   9925.  1461.4   9950.
GR1461.3   9967.  1451.3   9983.  1447.9   9994.   1448.  10000.  1447.9  10010.
GR1454.9  10026.  1460.9  10043.
X123.989      9.   9937.  10049.    400.    410.    407.
GR1465.6   9937.  1457.9   9957.  1452.6   9977.  1450.8   9989.  1449.7  10000.
GR1450.5  10014.  1452.5  10024.   1458.  10036.  1465.8  10049.
*
*       7TH STREET  (SPECIAL BRIDGE).  THE GR CARDS FROM SECTION 24.106 TAKEN
*       UPSTREAM OF 7TH STREET ARE REPEATED AT THE DOWNSTREAM FACE OF THE BRIDGE
*       AS SECTION 24.086 WITH PSXECE = -1.3.
*
NC                            0.3     0.5
X124.086     12.   9972.  10044.    450.    560.    512.            -1.3
X3   10.                                                   1463.7  1463.7
GR1470.1   9942.  1464.1   9955.  1454.9   9972.  1454.9  10044.   1456.  10052.
GR1458.5  10064.  1461.9  10091.  1463.7  10108.  1465.7  10123.  1466.1  10136.
GR1466.4  10155.  1467.4  10310.
SB   0.9    1.56      3.    100.    71.6      3.    590.      0.  1453.6  1453.6
X124.096                              56.     56.     56.
*
*       ELTRD IS 1464.7+2HV = 1466.7
*
X2                     1.  1462.2  1466.7
X3   10.                                                   1466.   1466.
                     4.1   9955.  10055.
X124.106     13.   9955.  10064.     80.     20.     53.
GR1470.1   9942.  1464.1   9955.  1455.2   9972.  1454.7   9997.  1454.2  10000.
GR1454.9  10028.   1456.  10052.  1458.5  10064.  1461.9  10091.  1463.7  10108.
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GR1465.7  10123.  1466.1  10136.  1466.4  10155.
NC                          0.1     0.3
ET                    4.1   9950.  10050.
X124.195     13.    9933.  10142.    470.    460.    470.
GR1498.7   9862.  1497.1   9889.  1470.4   9933.  1454.1   9961.  1453.6   9996.
GR1453.6  10000.  1453.9  10032.  1455.5  10052.  1456.3  10073.  1458.8  10093.
GR1462.3  10117.  1466.4  10142.  1468.9  10164.
ET                    4.1   9940.  10080.
X124.322     11.    9871.  10064.    640.    630.    671.
GR1473.7   9820.  1463.5   9871.  1453.2   9895.  1451.6   9972.  1452.1  10000.
GR1454.5  10042.  1456.8  10064.  1457.7  10134.  1459.6  10177.  1465.2  10220.
GR1470.9  10262.
NC 0.045   0.045   0.045
ET                    4.1   9927.  10080.
X124.444     16.    9928.  10122.    640.    600.    644.
GR1478.8   9885.  1478.7   9906.   1465.   9928.  1457.6   9939.   1458.   9972.
GR1457.3   9995.  1457.7  10000.  1459.1  10027.  1460.4  10064.  1459.3  10097.
GR1461.7  10122.  1458.9  10142.  1460.7  10166.  1460.3  10180.  1468.5  10215.
GR1474.2  10230.
ET                    4.1   9950.  10160.
X124.542     20.    9914.  10187.    470.    530.    517.
GR1488.2   9844.   1464.   9914.  1463.2   9948.  1460.4   9968.  1459.8   9996.
GR1459.8  10000.  1461.4  10017.  1462.3  10033.  1470.7  10056.  1470.3  10083.
GR1472.2  10112.  1470.9  10127.  1464.4  10141.  1462.5  10166.   1463.  10171.
GR1464.7  10175.  1467.8  10187.  1473.8  10237.  1475.2  10268.  1478.9  10283.
*
*       THE DEER VALLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL
*       CROSS SECTION.  THE DEER VALLEY ROAD CENTERLINE IS AT RM 24.635.
*
ET                    4.1   9940.  10060.
X124.635      8.    9876.  10111.    650.    220.    491.
GR1480.9   9752.  1474.5   9876.   1467.   9983.  1466.8  10000.  1467.9  10037.
GR1472.4  10111.  1478.6  10193.  1480.1  10247.
QT    2.   5200.   5200.
*
*       DIVIDED FLOW OCCURS FROM SECTION 24.738 TO 25.163.  ALTHOUGH THE RIGHT
*       OVERBANK IS SOMETIMES LOWER THAN THE CHANNEL, EFFECTIVE FLOW IS
*       CONTROLLED DOWNSTREAM AT SECTION 24.738.  OVERBANK LOW ELEVATIONS ARE
*       ARTIFICIALLY ADJUSTED AT SECTIONS 24.838 TO 25.163 TO YIELD QROB =
*       QROB AT SECTION 24.738 + OR - 10%.  NATURAL CONDITIONS AT SECTION
*       25.048 RESULT IN A QROB THAT IS LESS THAN SECTION 24.738.
*
ET                    4.1   9936.  10200.
X124.738     21.    9897.  10038.    350.    630.    544.
GR1490.4   9703.  1489.7   9717.  1479.2   9736.  1479.3   9805.  1477.7   9884.
GR1481.2   9897.  1477.6   9931.  1472.8   9965.  1472.3   9986.   1472.  10000.
GR1473.5  10023.  1480.9  10038.  1476.7  10045.  1480.8  10067.  1477.6  10079.
GR1473.6  10088.  1473.6  10127.  1472.5  10224.  1474.4  10291.  1473.6  10330.
GR1477.6  10343.
ET                    4.1   9968.  10350.
X124.838     20.    9945.  10019.    470.    450.    528.
* 1488.5   9909.  1483.8   9945.  1477.7   9986.  1474.8   9991.  1474.7  10000.
*  1475.  10004.  1483.5  10019.  1477.3  10032.  1479.5  10066.  1469.1  10111.
* 1467.6  10133.  1468.5  10162.  1472.5  10185.  1469.9  10199.  1469.7  10219.
*  1470.  10270.   1466.  10365.   1466.  10450.   1468.  10630.   1490.  10660.
GR1488.5   9909.  1483.8   9945.  1477.7   9986.  1474.8   9991.  1474.7  10000.
GR 1475.  10004.  1483.5  10019.   1479.  10032.  1479.5  10066.   1479.  10111.
GR 1479.  10133.   1479.  10162.   1479.  10185.   1479.  10199.   1479.  10219.
GR 1479.  10270.   1479.  10365.   1479.  10450.   1479.  10630.   1490.  10660.
ET                    4.1   9860.  10300.
X124.943     17.    9983.  10017.    530.    570.    554.
* 1504.8   9651.  1494.9   9694.  1493.1   9736.  1481.7   9813.  1480.7   9926.
* 1482.4   9945.  1481.8   9983.   1478.   9990.  1477.9  10000.  1477.7  10004.
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* 1484.8  10017.  1483.6  10032.  1478.1  10044.   1470.  10080.   1470.  10540.
*  1480.  10610.  1503.3  10690.
GR1504.8   9651.  1494.9   9694.  1493.1   9736.  1481.7   9813.  1480.7   9926.
GR1482.4   9945.  1481.8   9983.   1478.   9990.  1477.9  10000.  1477.7  10004.
GR 1484.8  10017.  1483.6  10032.   1481.  10044.   1481.  10080.   1481.  10540.
GR 1481.  10610.  1503.3  10690.
ET                   4.1   9850.  10250.
X125.048     23.   9966.   10017    580.    520.    554.
GR1497.2   9659.  1493.6   9692.  1486.7   9707.   1486.   9817.   1486.   9941.
GR1486.6   9966.  1485.7   9981.   1484.   9986.   1484.  10000.  1493.6  10017.
GR1488.3  10026.   1486.  10062.  1485.4  10154.  1486.5  10223.  1483.7  10232.
GR1484.6  10247.   1488.  10258.  1487.5  10405.  1492.2  10420.   1489.  10431.
GR 1484.  10450.   1484.  10470.   1500.  10525.
QT    2.   4900.   4900.
ET                   4.1   9940.  10175.
X125.163     16.   9972.  10025.    640.    580.    607.
* 1499.3   9878.  1492.6   9917.  1490.2   9947.  1489.9   9965.  1491.6   9972.
* 1486.2   9984.  1486.3  10000.   1486.  10005.  1493.1  10025.  1485.3  10044.
* 1486.3  10088.  1486.3  10147.  1486.4  10220.  1488.4  10291.  1498.8  10312.
* 1499.8  10417.
GR1499.3   9878.  1492.6   9917.  1490.2   9947.  1489.9   9965.  1491.6   9972.
GR1486.2   9984.  1486.3  10000.   1486.  10005.  1493.1  10025.   1489.  10044.
GR 1489.  10088.   1489.  10147.   1489.  10220.   1489.  10291.  1498.8  10312.
GR1499.8  10417.
*
*       THE BREAKOUT IN THE RIGHT OVERBANK IS NOT EFFECTIVE DUE TO DOWNSTREAM
*       PONDING.  HIGH ARTIFICIAL LEVEES HAVE BEEN SET ON THE RIGHT AT SECTIONS
*       25.262, 25.374, AND 25.434.
*
ET                   4.1   9750.  10023.
X125.262     28.   9948.  10030.    470.    570.    523.
    10.                                                  1491.6   1510.
GR1503.2   9465.  1506.4   9470.  1489.6   9513.  1490.2   9547.  1492.2   9618.
GR1491.5   9646.  1492.7   9689.  1492.6   9707.  1490.5   9823.  1491.6   9948.
GR1489.1   9969.  1493.6   9987.  1490.2  10000.  1490.8  10016.  1496.8  10030.
GR1488.4  10044.  1487.4  10059.   1486.  10070.  1484.4  10260.   1486.  10380.
GR 1492.  10420.   1492.  10450.   1484.  10475.   1484.  10510.   1488.  10535.
GR 1486.  10575.   1488.  10585.   1494.  10610.
ET                   4.1   9925.  10023.
X125.374     16.   9969.  10023.    680.    300.    591.
X3   10.                                                 1499.3
GR 1510.   9628.  1498.2   9659.   1496.   9704.  1495.7   9838.  1496.2   9920.
GR 1496.   9933.  1497.8   9944.  1497.8   9950.  1495.6   9955.  1496.7   9963.
GR1499.3   9969.  1493.5   9986.  1493.3  10000.  1493.5  10011.  1498.8  10023.
GR 1510. 10023.1
NC  0.05   0.035   0.035
ET                   4.1   9970.  10036.
X125.434     14.   9968.  10036.    400.    190.    317.
X3   10.                                                 1504.9
GR1511.5   9463.  1506.8   9561.  1504.8   9631.  1504.9   9716.   1502.   9788.
GR1501.3   9885.  1500.8   9942.  1500.6   9954.  1504.9   9968.  1496.8   9990.
GR1496.6  10000.  1495.8  10018.   1504.  10036.   1510. 10036.1
ET                   4.1   9970.  10050.
X125.500      9.   9908.  10105.    250.    420.    349.
GR1511.5   9908.  1506.9   9927.  1504.5   9943.  1499.9   9957.  1497.7  10000.
GR1498.5  10025.  1503.7  10061.  1507.7  10094.   1509.  10105.
*
*       CAP CANAL OVERSHOOT STRUCTURE

                             0.3     0.5
*
*               SECTION IN DOWNSTREAM OUTLET OF OVERSHOOT IN STILLING POOL
*
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ET                    4.1   9960.  10040.
X125.523      9.    9963.  10037.    120.    120.    121.
GR 1510.   9900.    1508.   9930.   1498.   9950.   1498.   9963.   1496.   9964.
GR 1496.  10036.    1498.  10037.   1498.  10050.   1510.  10100.
*
*                SECTION AT DOWNSTREAM CREST OF OVERSHOOT WHERE FLOW PASSES
*                THROUGH CRITICAL DEPTH. DO NOT ENCROACH.
*
NC  0.05   0.035   0.015
X125.534      4.    9963.  10037.     58.     58.     58.
GR 1515.   9963. 1505.54   9964. 1505.54  10036.   1515.  10037.
*
*                SECTION AT UPSTREAM END OF NARROW CHUTE. DO NOT ENCROACH.
*
X125.551                              90.     90.     90.
*
*                SECTION AT UPSTREAM FLARED ENTRANCE TO OVERSHOOT. DO NOT
*                ENCROACH.
*
X125.557      4.    9954.  10046.     32.     32.     32.
GR 1515.   9954. 1505.54   9973. 1505.54  10027.   1515.  10046.
*
*                NATURAL SECTION UPSTREAM OF OVERSHOOT.  SET ENCROACHMENTS
*                TO NATURAL SSTA & ENDSTA.
*
NC 0.035   0.035   0.035
QT    2.   2900.   2900.
ET                    4.1   9949.  10050.
X125.561      5.    9948.  10069.     20.     20.     21.
GR1514.9   9948.  1505.6   9971.  1505.7  10000.  1506.3  10048.  1515.2  10069.
NC                              0.1     0.3
QT    2.   2700.   2700.
ET                    4.1   9950.  10050.
X125.680     36.    9927.  10093.    580.    660.    628.
GR1519.8   9136.  1518.8   9203.  1516.1   9267.  1515.7   9325.  1515.7   9359.
GR1516.7   9372.  1514.9   9462.  1514.2   9504.  1515.2   9516.  1515.6   9559.
GR1515.7   9593.   1515.   9622.  1516.9   9637.  1515.3   9653.  1512.1   9664.
GR1512.4   9688.  1513.8   9704.  1518.5   9720.  1510.6   9747.  1514.3   9796.
GR1513.9   9866.  1514.4   9927.  1508.7   9946.  1511.3   9961.  1511.2   9985.
GR1506.5   9997.  1506.8  10000.  1506.8  10011.  1510.5  10022.  1511.1  10057.
GR1509.6  10063.  1511.2  10093.  1512.4  10167.   1510.  10278.  1508.7  10295.
GR1534.1  10338.
QT    2.   2500.   2500.
ET                    4.1   9982.  10082.
X125.786     32.    9978.  10056.    600.    470.    560.
X3   10.                                                      1518.9
GR1522.7   9477.  1522.5   9507.  1515.5   9529.  1515.7   9575.  1514.1   9667.
GR1514.3   9705.  1513.4   9736.   1517.   9753.  1516.8   9776.  1517.2   9794.
GR1513.5   9822.  1516.2   9837.  1512.2   9848.  1516.5   9872.  1514.6   9883.
GR 1517.   9913.   1517.   9922.  1515.2   9944.  1518.9   9964.  1518.9   9978.
GR1511.2   9990.  1511.4  10000.  1510.7  10010.  1514.5  10020.  1512.2  10041.
GR1515.8  10056.  1515.3  10189.  1517.3  10353.  1515.1  10418.   1514.  10435.
GR1514.2  10440.  1532.8  10465.
QT    2.   2300.   2300.
ET                    4.1   9959.  10059.
X125.947     14.    9950.  10066.    870.    830.    850.
GR 1524.   9816.  1522.7   9917.  1522.7   9950.  1518.8   9971.  1518.3   9986.
GR1514.4  10000.  1514.5  10011.  1518.4  10028.  1519.7  10037.  1520.6  10066.
GR1519.3  10107.  1518.2  10113.  1518.8  10119.  1529.5  10139.
QT    2.   2200.   2200.
ET                    4.1   9950.  10023.
X126.058     15.    9966.  10024.    540.    570.    586.
GR1529.2   9598.  1526.6   9747.  1527.1   9765.   1526.   9790.  1523.3   9845.
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GR1522.1   9904.  1521.1   9927.   1521.   9951.   1522.   9966.  1520.8   9976.
GR1517.4  10000.  1516.2  10010.  1516.8  10014.   1524.  10024.  1541.9  10048.
QT    2.   2000.   2000.
ET                  4.1   9970.  10040.
X126.152     13.   9956.  10069.    240.    550.    496.
GR1530.2   9789.  1529.9   9847.  1527.3   9895.  1525.4   9956.  1522.3   9972.
GR 1520.   9982.  1520.1  10000.  1520.5  10018.  1522.2  10050.   1526.  10069.
GR1530.7  10102.  1531.9  10114.  1533.1  10139.
QT    2.   1900.   1900.
ET                  4.1   9973.  10060.
X126.265     10.   9955.  10029.    580.    610.    597.
GR1533.9   9829.  1533.6   9913.  1534.3   9916.  1531.7   9955.  1523.8   9995.
GR 1522.  10000.  1522.5  10010.  1524.8  10015.  1526.5  10029.  1529.5  10115.
QT    2.   1700.   1700.
ET                  4.1   9967.  10064.
X126.372     14.   9966.  10080.    600.    510.    565.
GR1558.5   9909.  1544.2   9928.  1535.7   9945.  1531.6   9966.  1528.4   9981.
GR1525.9   9990.  1523.9   9995.  1523.8  10000.  1527.3  10016.  1526.6  10034.
GR1529.9  10055.  1533.8  10080.  1534.6  10100.  1535.5  10116.
QT    2.   1600.   1600.
ET                  4.1   9955.  10045.
X126.492     17.   9866.  10084.    640.    610.    634.
GR1539.5   9819.  1538.5   9851.  1537.5   9866.  1533.3   9880.  1530.9   9891.
GR1530.2   9920.  1527.7   9953.  1525.8   9972.  1525.8   9994.  1525.7  10000.
GR1526.2  10019.  1528.4  10039.  1530.4  10062.  1534.8  10078.   1536.  10084.
GR1536.4  10097.  1537.1  10100.
NC  0.04    0.04    0.03
QT    2.   1300.   1300.
ET                  4.1   9945.  10025.
X126.582     37.   9869.  10028.    460.    480.    475.
GR1538.6   9388.  1538.3   9411.   1535.   9445.  1532.2   9471.  1530.3   9493.
GR1526.4   9510.  1525.5   9519.  1525.3   9539.  1526.3   9568.  1526.5   9602.
GR1527.2   9622.  1526.7   9655.  1527.3   9691.  1526.9   9725.  1527.2   9752.
GR1527.4   9786.  1528.1   9817.  1527.9   9845.  1528.2   9869.  1526.9   9894.
GR1524.1   9911.  1524.9   9937.  1525.2   9958.  1525.6   9983.  1525.7  10000.
GR 1526.  10014.  1527.2  10028.  1526.4  10047.  1527.2  10086.  1526.5  10123.
GR1526.8  10140.  1528.8  10157.  1528.8  10176.  1533.8  10195.  1536.6  10211.
GR1536.7  10224.  1537.5  10226.
ET                  4.1   9970.  10030.
X126.673     44.   9955.  10077.    510.    460.    480.
X3   10.                                                   1535.
GR1549.8   9490.  1541.8   9544.  1534.8   9585.  1533.1   9600.  1531.8   9629.
GR1530.8   9656.  1530.5   9681.  1530.5   9715.  1530.5   9748.  1531.1   9773.
GR1532.3   9803.  1532.9   9829.  1532.6   9851.  1532.1   9868.  1532.7   9898.
GR1532.9   9922.  1532.6   9944.  1534.3   9955.  1532.6   9970.  1532.7   9988.
GR1532.8  10000.  1531.8  10013.  1532.6  10023.  1532.2  10047.  1531.9  10061.
GR1533.2  10077.  1533.2  10105.  1534.5  10130.  1536.4  10141.  1537.8  10149.
GR1537.4  10165.  1536.9  10192.  1533.6  10205.  1533.2  10237.  1533.2  10265.
GR1534.2  10285.  1534.8  10304.  1535.1  10331.  1535.6  10348.  1539.7  10359.
GR1539.2  10378.  1539.9  10387.   1552.  10411.  1550.3  10420.
QT    2.   1100.   1100.
ET                  4.1   9981.  10031.
X126.784     29.   9975.  10080.    590.    530.    586.
GR1556.2   9628.  1553.4   9629.  1551.5   9652.  1550.5   9674.  1549.6   9695.
GR1548.7   9721.  1549.2   9749.  1548.9   9783.  1549.4   9822.  1549.5   9859.
GR1549.4   9898.  1549.7   9925.  1550.7   9951.  1551.2   9975.  1542.7   9985.
GR1543.2  10000.  1544.4  10019.  1545.4  10045.  1550.2  10069.  1551.5  10080.
GR1550.8  10091.   1551.  10110.   1551.  10132.  1550.9  10150.   1551.  10162.
GR1552.5  10191.  1552.7  10228.   1552.  10271.  1551.9  10279.
QT    2.   1000.   1000.
ET                  4.1   9975.  10025.
X126.883     21.   9773.  10122.    530.    500.    523.
GR1555.5   9726.  1549.5   9759.  1544.7   9773.   1542.   9791.  1540.1   9803.
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GR1540.1   9895.  1540.1  10000.  1540.1  10062.  1540.6  10074.  1541.3  10093.
GR1542.8  10122.  1542.6  10148.  1542.5  10166.  1544.1  10179.  1546.3  10194.
GR 1549.  10209.  1553.7  10235.  1555.3  10255.  1557.4  10265.  1557.4  10279.
GR1556.2  10282.
QT    2.    900.    900.
ET                  4.1   9975.  10025.
X126.984     32.   9943.  10170.    480.    460.    533.
GR1560.6   9811.  1559.7   9833.  1557.2   9861.  1554.5   9891.  1549.4   9920.
GR1545.5   9943.  1543.8   9953.  1542.3   9968.  1542.1  10000.  1545.1  10012.
GR1540.6  10023.  1540.6  10107.  1540.6  10124.  1541.7  10135.  1540.5  10147.
GR1540.5  10156.  1546.5  10170.  1547.3  10189.  1547.5  10203.  1547.7  10218.
GR1546.7  10231.  1543.5  10241.  1542.8  10256.  1542.3  10271.  1542.3  10282.
GR1544.6  10290.  1543.4  10300.  1543.3  10310.  1544.8  10323.  1545.3  10333.
GR1558.9  10356.  1551.6  10369.
ET                  4.1  9883.7 10013.1
X127.060     33.   9980.  10019.    270.    470.    401.
X3   10.                                            1565.
GR1566.5   9583.  1559.9   9608.  1557.5   9614.  1557.6   9617.  1560.3   9624.
GR1560.6   9643.  1560.9   9670.  1559.8   9683.  1559.6   9706.   1560.   9720.
GR1559.4   9740.  1559.5   9772.  1560.4   9795.   1560.   9824.  1558.8   9852.
GR1558.7   9879.  1558.9   9895.  1558.5   9911.  1559.2   9940.   1560.   9954.
GR1559.7   9963.  1560.6   9967.  1560.8   9980.  1554.6   9997.  1554.1  10000.
GR1555.1  10005.  1562.6  10019.  1562.2  10040.  1562.1  10056.  1563.4  10068.
GR1565.2  10081.   1566.  10093.  1563.9  10103.
QT    2.    600.    600.
ET                  4.1  9881.1  10020.
X127.166     36.   9977.  10023.    560.    560.    560.
X3   10.                                            1565.   1565.
GR 1572.   9622.  1572.2   9639.  1571.5   9661.  1569.4   9686.  1568.5   9709.
GR1568.1   9719.  1568.4   9730.  1567.4   9742.  1567.1   9762.  1567.9   9772.
GR1568.8   9787.  1567.6   9811.  1566.7   9830.   1566.   9847.  1562.3   9858.
GR1558.7   9868.  1557.6   9870.  1558.4   9872.  1560.6   9875.  1560.9   9884.
GR1560.9   9911.  1560.8   9943.  1560.7   9955.  1564.2   9963.  1564.2   9977.
GR1555.2   9995.  1555.2  10000.  1555.2  10008.  1563.9  10023.  1563.9  10038.
GR1561.1  10043.  1561.1  10067.  1560.8  10098.  1560.9  10129.  1561.5  10142.
GR1562.8  10146.
*
*       SECTION 27.294 IS NEAR THE DOWNSTREAM OUTLET OF CAVE BUTTE DAM.
*
QT    2.    400.    400.
ET                  4.1   9972. 10022.2
X127.294     26.   9967.  10027.    710.    630.    676.
GR1591.6   9811.  1589.8   9827.  1587.9   9839.  1589.7   9851.  1588.2   9870.
GR1585.6   9883.  1584.2   9888.  1584.4   9900.  1583.9   9914.  1568.3   9948.
GR1565.9   9954.  1565.2   9967.  1558.3   9980.  1557.2   9984.  1556.2   9987.
GR 1556.  10000.   1556.  10007.  1564.6  10027.  1565.6  10037.   1573.  10054.
GR1572.8  10074.  1573.4  10093.   1574.  10112.   1575.  10135.  1575.4  10163.
GR1575.6  10171.
*
*       THE CENTERLINE OF CAVE BUTTE DAM IS AT RM 27.365.
*
*
*       FOLLOWING IS THE TRUBUTARY RUN FOR THE EAST FORK OF CAVE CREEK.
*
*
*       SECTION 19.56  IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST
*       FORK.  THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE
*       EAST FORK OF CAVE CREEK.  THE CONFLUENCE OCCURS AT RM 19.608
*
NC 0.035   0.035   0.035     0.1     0.3
QT    2.  14600.  14600.
ET                  4.1 9921.37  10061.
X1-19.56     17.   9929.  10065.    730.    720.    729.
```

```
GR1346.1   9801.  1329.7   9902.  1329.7   9929.  1316.5   9950.  1316.8   9978.
GR1315.6  10000.  1315.6  10008.  1316.6  10026.  1316.4  10035.  1317.5  10043.
GR1330.6  10065.  1330.8  10099.  1330.5  10146.  1330.2  10195.  1330.9  10208.
GR1331.2  10223.  1332.1  10301.

        SECTION 0.029 IS JUST UPSTREAM OF THE CONFLUENCE WITH CAVE CREEK
*       WASH.  SECTION 19.556 DOWNSTREAM IN THE WASH IS USED TO START THE
*       RUN ON THE EAST FORK.
*
QT    2.   9500.   9500.
NC 0.035   0.035   0.015
ET                   4.1 9942.56 10073.1
X1 0.029     15.   9942.  10043.    380.    450.    430.
GR1336.7   9849.  1332.4   9893.  1329.5   9942.  1326.3   9954.  1326.3   9963.
GR1319.8   9982.  1319.6   9995.  1319.6  10000.  1319.6  10019.  1328.2  10043.
GR 1330.  10090.  1330.3  10128.  1332.4  10166.  1333.1  10216.  1333.1  10217.
NC 0.035   0.035    0.03
ET                   4.1   9905.  10092.
X1 0.112     22.   9887.  10101.    430.    450.    483.
GR1357.6   9597.  1333.1   9743.  1332.6   9804.   1332.   9816.  1331.8   9863.
GR1332.1   9887.  1329.4   9906.  1329.4   9915.  1323.4   9937.  1322.3   9949.
GR1321.5   9985.  1321.6   9999.  1321.6  10000.   1322.  10037.  1323.2  10049.
GR1329.3  10076.  1334.8  10101.  1334.8  10139.  1333.4  10214.  1334.8  10286.
GR1334.5  10320.  1334.5  10321.
ET                   4.1   9910.  10110.
X1 0.198     26.   9897.  10133.    460.    420.    454.
GR1334.8   9569.  1336.5   9570.  1335.1   9591.  1335.7   9694.  1333.8   9754.
GR1333.3   9863.  1332.4   9897.  1329.4   9916.  1325.5   9937.  1323.8   9965.
GR1324.5   9981.  1324.8   9999.  1324.8  10000.  1324.1  10044.  1324.5  10058.
GR1328.8  10085.  1328.8  10093.  1336.3  10122.  1337.8  10133.   1336.  10138.
GR1337.3  10170.  1337.1  10262.   1337.  10356.  1345.1  10370.  1337.1  10382.
GR1336.7  10417.
ET                   4.1   9903.  10054.
X1 0.288     20.   9885.  10069.    470.    460.    475.
GR1338.2   9550.  1337.6   9684.  1336.1   9733.  1336.9   9848.   1336.   9885.
GR1328.9   9933.  1326.6   9954.  1325.9   9978.  1325.7  10000.  1328.5  10026.
GR1335.9  10069.  1335.9  10078.  1336.7  10089.  1336.2  10101.   1338.  10213.
GR1339.6  10443.  1347.3  10459.   1341.  10472.  1341.9  10485.  1339.9  10517.
ET                   4.1   9912.  10094.
X1 0.398     19.   9904.  10119.    600.    540.    581.
GR1340.2   9739.  1340.7   9804.  1339.3   9843.  1338.9   9904.  1330.2   9949.
GR1329.4   9979.  1328.8  10000.  1329.7  10061.  1338.1  10098.  1338.1  10105.
GR1340.6  10119.  1338.4  10126.  1338.6  10168.  1340.5  10175.  1339.9  10190.
GR1339.7  10352.  1339.2  10456.  1339.5  10478.  1339.8  10533.
ET                   4.1   9904.  10175.
X1 0.482     20.   9937.  10024.    440.    270.    444.
GR 1347.   9903.  1341.4   9904.  1341.1   9937.  1337.1   9953.  1333.4   9962.
GR1331.2   9988.  1331.3  10000.  1331.3  10008.   1338.  10024.  1340.8  10093.
GR1340.9  10125.  1341.6  10161.  1340.4  10236.  1341.6  10256.   1340.  10291.
GR1341.1  10315.  1340.9  10402.  1341.5  10528.  1341.5  10640.   1343.  10910.
ET                   4.1   9870.  10080.
X1 0.575     19.   9869.  10049.    460.    500.    491.
GR 1348.   9777.  1342.8   9778.  1340.2   9869.  1337.1   9896.  1341.1   9944.
GR1337.8   9977.  1331.7   9990.  1331.5   9997.  1331.5  10000.   1332.  10011.
GR1338.9  10023.  1343.1  10049.  1342.5  10105.  1343.5  10113.  1342.9  10186.
GR1341.8  10239.   1342.  10274.  1343.2  10411.  1345.4  10755.
QT    2.   9400.   9400.
ET                   4.1   9875.  10035.
X1 0.697     16.   9847.  10023.    640.    640.    644.
GR1346.4   9847.  1345.3   9855.  1338.8   9882.  1338.1   9888.   1339.   9900.
GR1340.4   9912.  1343.4   9919.  1341.4   9921.  1339.9   9950.  1334.9   9967.
GR1334.6  10000.   1334.  10007.  1341.4  10023.  1343.8  10061.  1345.4  10102.
GR1346.4  10237.
```

```
NC 0.035   0.035   0.035
ET                   4.1   9880.  10040.
X1 0.826     11.    9929.  10050.    680.    660.    681.
GR1349.5   9815.  1346.4   9893.  1345.5   9929.  1342.7   9969.  1338.8   9974.
GR1338.8   9988.  1338.8  10000.  1339.2  10009.  1349.5  10050.  1350.1  10066.
GR 1351.  10219.
ET                   4.1   9870.  10030.
X1 0.945     20.    9856.  10034.    680.    600.    628.
GR1352.7   9469.  1352.6   9548.  1351.8   9674.  1351.8   9704.   1349.   9769.
GR1349.8   9819.  1349.5   9843.  1348.6   9856.  1345.5   9866.  1346.8   9929.
GR1347.7   9956.  1340.4   9978.  1340.8  10000.  1340.8  10008.  1349.5  10034.
GR1350.1  10046.  1350.1  10100.  1352.8  10215.  1353.4  10254.   1353.  10284.
ET                   4.1   9870.  10030.
X1 1.035     22.    9841.  10022.    440.    460.    475.
GR 1354.   9670.  1350.5   9723.  1352.3   9776.   1352.   9795.  1348.6   9823.
GR1348.4   9832.  1350.8   9841.  1348.1   9844.  1349.2   9871.  1349.4   9908.
GR1345.9   9921.  1348.6   9941.  1348.1   9948.  1343.9   9966.  1343.3   9983.
GR1342.3   9992.  1341.9  10000.  1348.8  10022.  1351.2  10046.  1352.5  10059.
GR1352.4  10100.   1353.  10153.
NC  0.04    0.04    0.04
ET                   4.1   9890.  10050.
X1 1.121     19.    9868.  10069.    480.    440.    454.
GR1355.2   9850.   1355.   9868.  1348.4   9897.  1346.1   9910.  1345.9   9931.
GR1346.4   9955.  1345.1   9966.  1343.6   9994.  1343.6  10000.  1348.1  10015.
GR1348.8  10036.  1350.6  10048.  1351.1  10059.  1353.6  10069.  1354.1  10082.
GR1354.2  10121.   1355.  10134.  1355.1  10173.   1355.  10175.
ET                   4.1   9950.  10110.
X1 1.204     16.    9949.  10043.    430.    450.    438.
GR1355.4   9930.  1355.6   9949.  1348.3   9964.  1348.3   9978.  1344.3   9991.
GR1344.3   9995.  1344.8  10000.  1348.3  10027.  1352.5  10043.  1353.8  10057.
GR1353.7  10072.  1353.5  10098.  1354.2  10165.  1356.1  10178.  1355.8  10262.
GR1356.3  10334.
QT    2.   9100.   9100.
ET                   4.1   9905.  10060.
X1 1.315     17.    9904.  10074.    720.    700.    734.
GR1359.7   9904.  1352.7   9916.  1350.3   9931.  1348.8  10000.  1351.1  10012.
GR1351.6  10028.  1353.4  10043.  1353.4  10056.  1356.5  10064.   1359.  10074.
GR1357.8  10085.   1358.  10091.   1358.  10130.   1352.  10150.   1352.  10170.
GR 1358.  10230.   1360.  10240.
NC 0.035   0.035   0.025
ET                   4.1   9895.  10085.
X1 1.420      9.    9895.  10085.    380.    420.    407.
GR 1364.   9860.   1362.   9870.   1360.   9895.   1356.   9910.  1354.9  10000.
GR 1356.  10070.   1360.  10085.   1362.  10100.   1364.  10120.
EJ
T1       MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2       FLOOD CONTROL DISTRICT OF MARICOPA COUNTY 1989 BY BURGESS & NIPLE
T3       CAVE CREEK WASH          FLOODWAY        J.MISCHLER
J1            3.                                                  1284.69
J2   15.              -1.
ER
```

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1*****************************************
 *  HEC-2 WATER SURFACE PROFILES          *
 *                                        *
 *  Version   4.6.2;  May 1991            *
 *                                        *
 *  RUN DATE    14APR06    TIME   10:33:57 *
 *****************************************
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*************************************
*  U.S. ARMY CORPS OF ENGINEERS     *
*  HYDROLOGIC ENGINEERING CENTER    *
*  609 SECOND STREET, SUITE D       *
*  DAVIS, CALIFORNIA 95616-4687     *
*          (916) 756-1104           *
*************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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1

14APR06 10:33:57 PAGE 1

THIS RUN EXECUTED 14APR06 10:33:57

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*************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA CO. 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          NATURAL 100-YR  J. MISCHLER

        CAVE BUTTE DAM CONTROLS DISCHARGES UP TO THE 100 YEAR FLOOD.
        ABOVE THE 100 YEAR FLOOD, THE EMERGENCY SPILLWAY WILL PASS FLOWS.
        AS THE EFFORT TO COMPUTE 500 YEAR HYDROLOGY (WHICH WOULD REQUIRE
        ANALYSIS OF THE ENTIRE WATERSHED ABOVE THE DAM) IS NOT JUSTIFIED
        BY THE VALUE OF 500 YEAR FLOODPLAIN INFORMATION, THE FLOOD CONTROL
        DISTRICT HAS BEEN GRANTED PERMISSION BY FEMA TO DELETE THE 500 YEAR
        FLOOD FROM THE RESTUDY OF CAVE CREEK WASH.  ONLY THE WATERSHED BELOW
        THE DAM HAS BEEN CONSIDERED FOR HYDROLOGIC COMPUTATIONS OF THE 10, 50,
        AND 100 YEAR FLOODS.


        FLOODWAY RUN FROM SEDIMENT BASIN TO CAVE BUTTE DAM.

        FOR SECTIONS 15.310 TO 16.971, REFER TO A SEPARATE SUPERCRITICAL
        RUN FOR THE CORPS OF ENGINEERS' CONCRETE LINED CHANNEL. (NATURAL PROF)

        FLOW IS WITHIN THE CORPS OF ENGINEER'S CHANNEL, SEDIMENT BASIN, OR
        BROAD CRESTED WEIR INLET FROM RM15.015 TO 17.492, THEREFORE NO FLOODWAY
        IS RUN FOR THIS REACH.


        FILE LAST MODIFIED 1/26/90


J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ
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                2.                                                                  1283.69

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1.                -1.                                                                       15.


J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38.       42.        1.       53.       54.        4.        8.       43.       10.       51.
    46.       40.       41.                 110.                200.
1
   14APR06     10:33:57                                                                                    PAGE    2


QT       2.     15400.     15400.
NC     0.04       0.04       0.04       0.1        0.3

        BEGIN ENCROACHMENTS UPSTREAM OF THE SEDIMENT BASIN

ET                          10.41
X1   17.588        25.      9982.     10193.       440.       560.       496.
GR   1291.4      9666.     1290.3      9746.     1275.6      9817.     1275.2      9835.     1273.5      9854.
GR   1277.8      9873.     1279.7      9889.     1277.3      9896.     1278.2      9909.     1281.6      9922.
GR   1281.9      9939.     1282.2      9964.     1278.1      9982.     1269.6      9992.     1270.6     10000.
GR   1270.9     10009.     1272.6     10014.     1273.6     10039.     1273.6     10079.     1271.2     10144.
GR   1271.2     10170.     1276.4     10193.     1290.5     10264.     1291.3     10328.      1291.     10495.

ET                            4.1      9900.     10150.
X1   17.662        23.      9941.     10130.       380.       400.       391.
GR   1293.1      9731.     1293.1      9781.     1291.6      9791.     1282.7      9835.     1278.1      9844.
GR   1279.2      9871.     1277.3      9911.     1276.4      9941.     1272.5      9986.     1271.6     10000.
GR   1274.6     10016.     1277.5     10033.     1278.8     10063.     1278.9     10086.     1276.8     10099.
GR   1275.7     10111.     1281.6     10130.     1285.2     10161.     1293.1     10208.      1294.     10221.
GR   1293.7     10281.      1294.     10400.     1294.5     10432.

ET                          10.41
X1   17.783        18.      9921.     10064.       540.       500.       639.
GR   1295.2      9812.      1294.      9837.     1291.3      9861.     1286.9      9895.     1280.5      9921.
GR   1276.8      9938.     1278.3      9954.     1277.6      9973.     1275.4     10000.     1276.3     10019.
GR   1277.4     10033.     1277.7     10045.     1281.1     10064.     1281.3     10074.     1284.6     10097.
GR   1289.8     10122.     1291.5     10143.     1291.9     10153.

X1   17.932        23.      9956.     10066.       790.       780.       787.
GR   1294.8      9675.     1294.7      9732.     1295.5      9750.     1293.6      9766.     1297.5      9792.
GR   1297.5      9837.     1298.3      9869.     1291.9      9896.     1289.7      9956.     1283.6      9966.
GR   1283.5      9971.     1277.9      9986.     1278.2     10000.     1278.2     10006.     1279.5     10008.
GR   1279.9     10022.     1280.2     10032.     1285.5     10054.     1290.2     10066.     1290.6     10083.
GR   1298.5     10131.     1299.7     10159.     1299.7     10193.

        THUNDERBIRD ROAD BRIDGE - ALTHOUGH THE ROAD IS LOWEST IN THE RIGHT
        OVERBANK, HIGH BANKS UPSTREAM PREVENT THIS AREA FROM BECOMING EFFECTIVE,
        THEREFORE, ONLY THE BRIDGE OPENING IS CONSIDERED ON THE GR CARDS AND
        ONLY THE BRIDGE LENGTH IS CONSIDERED FOR THE BT CARDS.  ENDS OF THE
        SECTIONS ARE ARTIFICIALLY EXTENDED.  BT'S ARE RAISED 0.5' FROM CENTER-
        LINE OF ROAD ELEVATIONS AT THE BRIDGE. TO ACCOUNT FOR THE RAILING.

                      4.1   9951.  10049.

NC    0.035      0.035      0.025       0.3        0.5
X1   18.042         8.      9951.     10049.       620.       550.       581.                   2.4
GR    1305.      9951.     1283.4      9952.     1282.9      9979.     1279.9      9980.     1279.9     10020.
GR   1281.9     10021.     1284.2     10048.      1305.     10049.
1
   14APR06     10:33:57                                                                                    PAGE    3
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SB     1.05       1.56        3.                    75.        4.       1059.       0.81      1280.2     1279.9
NC     0.03       0.03      0.025
                    4.11    9951.  10049.
X1   18.061                                         101.      101.       101.                  0.8

        ELTRD IS 1298.4+3.2HV =  1301.6

X2                                  1.     1293.2     1301.6
BT       4.       9951.       1305.         0.        9952.     1298.4        0.      10048.    1298.4        0.
BT   10049.       1305.          0.

NC    0.035      0.035      0.035
ET                             4.1       9900.      10085.
X1   18.081         11.      9942.      10045.         80.      130.       106.
GR   1300.5      9819.     1300.2       9866.       1298.2     9899.     1286.6     9942.     1282.7     9960.
GR   1281.4     10000.     1281.1      10008.       1282.7    10030.     1284.9    10045.     1297.3    10088.
GR   1300.2     10112.

NC                                 0.1       0.3
ET                             4.1       9857.      10125.
X1   18.174        29.      9919.      10073.        500.      490.       491.
GR   1303.6      9673.     1304.6       9713.       1307.3     9757.     1302.5     9801.      1302.     9850.
GR    1288.      9904.     1287.3       9915.       1288.7     9919.      1284.     9927.     1283.5     9956.
GR   1282.6      9975.     1283.5       9985.       1281.8     9992.     1281.7    10000.      1282.    10006.
GR   1282.3     10011.     1282.7      10020.       1294.6    10073.      1297.    10093.     1296.2    10113.
GR   1293.7     10142.     1293.7      10182.       1296.8    10236.     1299.3    10270.     1298.9    10295.
GR    1298.     10340.     1299.8      10364.        1298.    10396.     1301.1    10478.

ET                             4.1     9882.2      10110.
X1   18.269        12.      9942.      10060.        500.      500.       502.
GR   1303.8      9868.     1288.1       9928.       1288.4     9942.     1285.3     9952.     1283.8     9979.
GR   1283.8     10000.     1283.8      10010.       1285.6    10023.     1292.4    10060.      1294.    10071.
GR   1303.2     10130.     1303.7      10144.

ET                             4.1     9895.6     10107.8
X1   18.362        20.      9942.      10060.        490.      510.       491.
GR   1315.5      9728.     1315.4       9758.       1315.8     9780.     1310.6     9807.     1307.1     9862.
GR   1298.6      9905.      1290.       9942.       1287.8     9952.      1288.     9967.     1286.1     9971.
GR   1285.3     10000.     1286.8      10022.       1286.8    10036.     1290.6    10060.     1303.8    10124.
GR   1307.7     10151.     1307.5      10169.       1306.8    10183.     1308.1    10240.     1308.8    10283.

        DOWNSTREAM GOLF CART CROSSING ON A SINGLE 78" CMP WITH PROTRUDING
        ENDS AND EMBANKMENT SLOPES  (NO WINGWALLS).

ET                             4.1       9885.      10110.
X1   18.445        13.      9992.      10005.        470.      460.       440.
X3      10.                                                                          1297.     1297.
GR   1315.1      9796.     1306.2       9880.       1300.     9920.     1299.5     9978.     1290.     9992.
GR   1287.3     10000.      1290.      10005.       1300.    10040.      1302.    10060.     1303.    10097.
GR    1305.     10200.     1305.6      10310.       1309.4    10330.
1
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SB     0.9        2.34        3.0         0.        6.11      1.0       33.2        0.     1287.7     1287.4
ET                             4.11      9885.      10110.
X1   18.456                                            60.      60.        60.                  0.4

        ELTRD IS 1198.8+0.7HV = 1199.5

X2                                  1.     1294.2     1299.5
X3      10.                                                                          1298.8     1298.8
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BT      10.      9796.     1315.5        0.      9880.     1306.6        0.      9928.     1301.9        0.
BT    9991.    1299.1        0.    10000.     1298.8        0.    10046.     1301.9        0.    10097.
BT  1303.4        0.    10200.     1305.4        0.    10310.     1306.        0.    10330.     1309.8
BT      0.

ET                           4.1    9881.4    10169.8
X1  18.545       21.      9951.     10058.       440.      480.      466.
GR  1324.2     9716.     1323.1      9748.     1324.4     9765.    1321.9     9790.     1318.3      9810.
GR   1317.     9839.     1306.7      9889.     1294.1     9951.    1291.5     9972.     1289.3      9993.
GR  1289.7    10000.     1289.7     10018.     1290.5    10040.    1293.8    10058.     1298.8     10073.
GR  1299.8    10094.     1303.4     10108.     1303.9    10121.     1303.    10135.     1310.1     10182.
GR  1310.2    10194.

        UPSTREAM GOLF CART CROSSING ON 2 - 72" RCP WITH FLUSH INLETS AND
        45 DEGREE WINGWALLS.

ET                           4.1    9880.7    10170.8
X1  18.575       21.      9972.     10000.       160.      160.      160.
X3     10.                                                                   1297.     1297.
GR  1324.2     9716.     1323.1      9748.     1324.4     9765.    1321.9     9790.     1318.3      9810.
GR   1317.     9839.     1306.7      9889.     1294.1     9951.    1291.5     9972.     1289.3      9993.
GR  1289.7    10000.     1289.7     10018.     1290.5    10040.    1293.8    10058.     1298.8     10073.
GR  1299.8    10094.     1303.4     10108.     1303.9    10121.     1303.    10135.     1310.1     10182.
GR  1310.2    10194.

SB    1.25      1.56       3.0        0.       10.4       1.0      56.5        0.     1289.4     1289.3
ET                          4.11    9876.1    10177.2
X1  18.583                                       40.       40.       40.                  0.1

        ELTRD IS 1298.4+0.6HV = 1299.0

X2                           1.    1295.4      1299.
X3     10.                                                                   1298.4     1298.4
BT      9.      9880.     1310.        0.      9965.     1300.        0.     10000.     1298.4        0.
BT  10037.      1300.        0.    10065.     1302.        0.    10085.      1304.        0.    10122.
BT   1306.        0.    10160.      1308.        0.    10170.     1310.        0.

ET                           4.1    9879.6    10134.7
X1  18.640       17.      9955.     10033.       300.      310.      301.
GR  1322.5     9707.     1323.7      9729.     1320.1     9768.    1313.8     9827.     1312.3      9858.
GR  1308.4     9887.     1302.6      9920.     1294.6     9955.    1292.8     9966.     1290.2      9993.
GR  1291.5    10000.     1291.8     10009.     1293.4    10033.    1307.8    10111.      1309.     10132.
GR  1312.1    10153.     1313.2     10167.
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ET                           4.1    9883.2    10111.7
X1  18.734       19.      9938.     10062.       490.      500.      496.
GR  1320.7     9713.     1316.3      9762.     1316.6     9809.    1319.2     9819.     1317.9      9841.
GR  1308.7     9888.     1298.6      9938.     1293.4     9971.    1294.2     9981.     1292.4      9992.
GR  1294.5    10000.     1294.4     10025.     1300.8    10062.     1309.    10094.     1307.6     10104.
GR  1312.9    10124.      1314.     10143.     1317.1    10178.    1319.9    10201.

ET                           4.1    9891.8    10107.
X1  18.832       21.      9929.     10046.       480.      540.      517.
GR  1326.2     9779.      1328.      9788.     1320.6     9826.     1316.     9853.     1312.5      9880.
GR  1302.8     9929.     1296.1      9960.     1293.5     9982.    1293.2    10000.     1293.2     10005.
GR  1294.8    10008.     1295.5     10027.     1297.1    10046.    1307.7    10095.     1314.1     10128.
GR  1314.1    10141.     1317.1     10187.     1320.3    10221.    1319.9    10247.     1318.6     10271.
GR  1319.2    10278.

ET                           4.1    9887.7    10087.5
X1  18.925       14.      9941.     10048.       480.      500.      491.
GR  1329.1     9741.     1315.9      9866.     1297.6     9941.    1297.3     9960.     1295.3      9989.
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GR    12[illegible]     10000.     1296.1     10006.     1295.4     10022.     [illegible]94.6     10025.     1296.3     10034.
GR    1300.     10048.     1310.5     10087.     1320.1     10132.     1321.3     10161.

ET                          4.1     9866.3     10038.5
X1   19.018        20.     9903.     10030.       460.       520.       491.
GR    1331.      9681.     1321.2     9775.     1313.9      9847.     1305.1      9903.     1298.1      9930.
GR    1298.      9948.     1298.1     9957.     1297.6      9974.      1299.     10000.     1308.4     10030.
GR   1325.3     10088.      1327.    10101.     1325.5     10109.     1330.2     10118.     1330.9     10124.
GR    1327.     10145.     1326.8    10211.     1328.8     10218.     1332.6     10260.     1331.8     10268.

ET                          4.1     9942.1     10061.9
X1   19.117        10.     9973.     10026.       490.       560.       523.
GR   1333.9      9803.     1331.8     9872.      1323.      9908.     1302.9      9973.     1299.2      9997.
GR   1298.7     10000.     1298.6    10010.     1301.5     10026.     1328.9     10116.      1333.     10144.

ET                          4.1     9923.1     10081.
X1   19.210        16.     9945.     10060.       500.       490.       491.
GR   1333.2      9669.     1330.6     9853.     1328.7      9874.      1312.      9945.      1310.      9954.
GR   1303.8      9978.     1301.4     9991.     1300.2     10000.     1301.3     10010.     1303.4     10026.
GR    1312.     10060.     1321.3    10098.      1327.     10127.     1332.5     10166.     1335.3     10191.
GR   1335.6     10192.

        19TH AVENUE  (SPECIAL BRIDGE)

NC                                     0.3        0.5
QT       2.     14600.     14600.
X1   19.283        12.     9948.     10057.       390.       390.       386.                   11.2
X3      10.                                                                          1324.     1324.
GR   1333.2      9669.     1330.6     9853.     1328.7      9874.      1312.      9945.     1300.5      9948.
GR   1300.5     10057.      1312.    10060.     1321.3     10098.      1327.     10127.     1332.5     10166.
GR   1335.3     10191.     1335.6    10192.
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SB       0.9      1.56        3.                109.        4.5      1304.         0.     1311.7     1311.7
X1   19.299                                     86.         86.        86.

        ELTRD IS 1324.5+2HV = 1326.5

X2                          1.    1324.2     1326.5
X3      10.                                                                          1325.     1325.
BT       6.      9500.     1326.        0.      9650.     1324.5         0.      9855.     1325.3         0.
BT   10000.     1325.7        0.    10275.     1324.9         0.     10460.      1326.         0.

ET                      10.41
X1   19.313        20.     9932.     10112.        75.        75.        74.
GR    1329.      9853.     1326.7     9859.     1327.6      9866.     1327.9      9932.     1314.5      9968.
GR   1312.2      9980.     1311.7     9988.     1313.1      9996.     1313.1     10000.     1313.4     10017.
GR    1312.     10029.     1313.7    10044.     1311.7     10054.     1313.7     10069.     1325.5     10112.
GR   1325.4     10137.     1324.3    10180.     1324.9     10219.     1325.2     10325.     1326.6     10464.

NC                                 0.1        0.3
X1   19.418        19.     9948.     10120.       570.       530.       554.
GR   1330.8      9898.     1328.8     9902.     1330.6      9910.     1330.2      9938.      1328.      9948.
GR   1313.1      9992.     1313.1    10000.      1313.     10004.     1316.1     10022.     1314.6     10058.
GR   1315.5     10076.     1320.1    10094.     1326.1     10120.     1327.6     10138.     1327.5     10186.
GR   1326.2     10276.      1327.    10322.     1328.3     10376.     1328.6     10401.

        SECTION 19.56  IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST
        FORK.  THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE
        EAST FORK OF CAVE CREEK.  THE CONFLUENCE OCCURS AT RM 19.608

X1    19.56        17.     9929.     10065.       730.       720.       729.
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```
GR   1346.1      9801.     1329.7     9902.     1329.7     9929.     1316.5     9950.     1316.8     9978.
GR   1315.6     10000.     1315.6    10008.     1316.6    10026.     1316.4    10035.     1317.5    10043.
GR   1330.6     10065.     1330.8    10099.     1330.5    10146.     1330.2    10195.     1330.9    10208.
GR   1331.2     10223.     1332.1    10301.

        GREENWAY BRIDGE  (SPECIAL BRIDGE).  LARGE SKEW ACCOUNTED FOR PRIOR
        TO DATA INPUT BY ADJUSTING BWC ETC.  DUE TO COMPLEX CHANNEL GEOMETRY
        DOWNSTREAM AT THE CONFLUENCE WITH THE EAST FORK, IT WAS MOST APPROPRIATE
        TO USE THE UPSTREAM SECTION, REPEATED AT THE DOWNSTREAM FACE.  GR CARDS
        FROM SECTION 19.742 ARE REPEATED FOR 19.625 WITH PSXECE = -1.7

QT       2.       5700.     5700.
NC    0.035       0.035     0.015       0.3       0.5
X1   19.625         11.     9965.     10025.      580.       70.      364.                -1.7
X3      10.                                                                    1332.      1332.
GR   1335.7      9834.     1335.1     9893.    1333.4     9922.    1331.8     9937.    1331.6     9948.
GR   1319.3      9965.     1319.3    10025.     1331.    10042.    1339.2    10055.    1337.7    10060.
GR   1338.8     10100.
1
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SB    1.05       1.56        3.       100.       60.        2.      564.        0.     1318.6    1317.6
X1   19.691                                     330.      430.      350.                   1.0

        ELTRD IS 1332.8+2HV = 1334.8

X2                            1.     1328.3    1334.8
X3      10.                                                                    1333.      1333.

ET                            4.1     9953.    10038.
X1   19.742        13.     9948.    10042.       80.      470.      269.
GR   1335.7      9834.     1335.1     9893.    1333.4     9922.    1331.8     9937.    1331.6     9948.
GR   1319.1      9967.     1319.2    10000.    1319.7    10017.    1319.7    10027.     1331.    10042.
GR   1339.2     10055.     1337.7    10060.    1338.8    10100.

NC    0.035      0.035     0.035       0.1       0.3
ET                            4.1     9957.    10043.
X1   19.847        22.     9929.    10062.      570.      520.      554.
GR   1339.8      9621.     1338.7     9726.    1341.6     9738.    1338.8     9759.     1339.     9806.
GR   1337.7      9915.     1336.1     9921.    1336.3     9929.    1320.2     9974.    1318.8     9989.
GR   1320.8     10000.     1320.5    10017.    1321.3    10023.    1328.8    10040.    1335.8    10062.
GR   1336.1     10070.     1336.6    10084.    1335.8    10150.     1336.    10160.    1338.3    10175.
GR   1339.2     10195.     1339.2    10198.

ET                            4.1     9958.    10031.
X1   19.960        24.     9958.    10031.      640.      560.      597.
GR   1340.4      9544.     1339.1     9638.    1336.7     9736.    1337.2     9768.    1338.2     9807.
GR   1338.9      9836.     1338.4     9908.    1340.1     9911.    1337.7     9917.    1339.1     9924.
GR   1337.2      9935.      1330.     9958.    1327.8     9964.    1326.1     9977.    1324.6     9990.
GR   1324.7     10000.     1326.1    10008.    1326.8    10023.     1330.    10031.    1340.6    10059.
GR   1340.8     10072.     1340.7    10099.    1340.1    10194.    1339.9    10251.

        TIERRA BUENA  (SPECIAL BRIDGE)

        DUE TO HIGHER DEPTHS THAN ANTICIPATED, XNCH HAS BEEN REDUCED
        FROM 0.04 (PER MANNINGS n VALUE REPORT) TO 0.035 BETWEEN GREENWAY ROAD
        AND UNION HILLS DRIVE

NC    0.04       0.04     0.035       0.3       0.5
ET                            4.1     9969.    10020.
X1   19.974        10.     9969.    10020.      105.       65.       74.
X3      10                                                                     1336.      1336.
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GR   134[illegible]      9911.     1337.7      9917.     1339.1      9924.     [illegible]37.2      9935.      1330.      9958.
GR   1323.8      9969.     1323.8     10020.      1330.     10031.     1340.6     10059.     1340.8     10072.

SB     1.25       1.56        3.                   51.         3.       480.         0.     1324.1     1323.8
ET                           4.11      9969.     10020.
X1   19.986                                        61.        61.        61.

        ELTRD IS 1336.9+1HV = 1337.9

X2                             1.     1334.1     1337.9
1
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X3      10.                                                                          1337.      1337.
BT       3.      9560.      1340.        0.     10000.     1336.9         0.     10230.      1340.         0.

ET                           4.1      9975.     10025.
X1   20.049        37.      9954.     10027.       305.       345.       333.
X3      10.                                                                          1340.
GR   1344.7      9266.     1345.2      9300.     1342.4      9304.     1340.8      9328.     1332.6      9344.
GR   1333.1      9400.     1333.3      9490.      1334.      9563.     1334.8      9606.     1333.2      9728.
GR    1335.      9767.     1331.4      9805.      1331.      9820.     1331.5      9854.     1331.5      9901.
GR   1332.1      9920.     1341.1      9938.     1340.5      9950.     1343.4      9954.     1339.8      9969.
GR   1327.4      9991.     1327.1      9997.     1327.1     10000.     1328.4     10008.     1339.4     10027.
GR    1340.     10047.     1342.3     10075.     1342.4     10097.     1340.2     10114.     1342.3     10131.
GR    1343.     10142.     1341.5     10162.     1342.7     10175.     1342.9     10210.     1343.3     10307.
GR   1342.5     10378.      1343.     10477.

NC                                       0.1        0.3
ET                           4.1      9972.     10029.
X1   20.144        38.      9955.     10025.       490.       500.       502.
X3      10.                                                                          1344.
GR   1346.6      9136.     1347.4      9206.     1348.2      9208.     1348.4      9215.     1347.1      9235.
GR   1342.5      9239.     1341.7      9258.     1334.6      9278.      1332.      9297.     1332.6      9357.
GR   1333.7      9417.     1333.1      9457.     1334.1      9479.     1334.9      9499.     1335.3      9554.
GR   1334.4      9582.     1335.7      9631.     1335.6      9698.     1336.1      9745.     1334.6      9779.
GR   1329.6      9788.     1330.5      9820.     1329.4      9847.     1328.5      9881.     1328.5      9912.
GR   1341.6      9931.     1343.1      9951.     1344.6      9955.      1342.      9968.     1330.9      9986.
GR   1330.9     10000.     1330.9     10010.     1340.8     10025.     1342.2     10040.     1345.9     10053.
GR   1346.5     10073.      1347.     10128.      1347.     10198.

ET                           4.1      9964.     10035.
X1   20.242        32.      9953.     10029.       470.       560.       517.
X3      10.                                                                          1348.
GR   1346.6      9200.     1347.9      9269.     1348.7      9271.     1348.7      9277.     1346.6      9330.
GR   1347.7      9377.     1342.3      9383.     1342.7      9400.     1332.4      9422.     1333.6      9470.
GR   1333.7      9529.     1334.9      9573.     1334.2      9626.     1334.9      9648.     1335.1      9651.
GR    1336.      9785.      1336.      9842.     1338.6      9846.     1339.3      9895.     1339.2      9935.
GR   1347.2      9953.     1343.7      9970.     1333.3      9988.     1333.7     10000.     1333.5     10012.
GR   1342.8     10029.     1343.2     10041.     1348.3     10061.     1349.2     10076.     1349.9     10107.
GR   1350.1     10201.     1350.3     10202.

ET                           4.1      9963.     10036.
X1   20.335        27.      9958.     10032.       510.       470.       491.
GR   1349.5      9230.     1351.4      9312.     1349.1      9322.     1350.7      9340.      1351.      9476.
GR   1351.2      9592.     1350.4      9726.     1350.1      9808.     1351.1      9820.     1351.4      9850.
GR   1351.8      9928.     1347.7      9950.      1344.      9958.     1337.7      9971.     1337.3      9987.
GR   1337.4     10000.     1338.3     10021.      1344.     10032.      1349.     10042.     1351.8     10056.
GR   1351.1     10100.     1351.6     10141.      1350.     10144.      1350.     10166.      1350.     10240.
GR   1350.8     10328.     1351.4     10406.

        11TH AVENUE  (SPECIAL BRIDGE)

1
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NC                                        0.3       0.5
X1   20.347       25.      9970.     10021.        1.       150.       63.
X3     10.                                                                   1351.5    1351.5
GR   1349.5     9230.     1351.4      9312.    1349.1      9322.    1350.7     9340.     1351.      9476.
GR   1351.2     9592.     1350.4      9726.    1350.1      9808.    1351.1     9820.    1351.4      9850.
GR   1351.8     9928.     1347.7      9950.     1344.      9958.    1337.2     9970.    1337.2     10021.
GR    1344.    10032.      1349.     10042.    1351.8     10056.    1351.1    10100.    1351.6     10141.
GR    1350.    10144.      1350.     10166.     1350.     10240.    1350.8    10328.    1351.4     10406.

SB    1.25       1.56       3.0       100.       51.        3.       576.        0.      1337.7     1337.2
X1   20.366                                     100.       100.      100.

        ELTRD IS 1352.5+2HV = 1354.5

X2                            1.     1349.7     1354.5                                   1352.5     1352.5
X3     10.

ET                            4.1     9958.    10072.
X1   20.423       21.       9975.     10045.     415.       205.       301.
GR   1354.3     9418.     1353.8      9613.    1355.3      9653.    1354.6     9696.    1353.3      9711.
GR   1353.6     9724.     1353.5      9931.     1352.      9950.     1345.     9975.     1338.     10000.
GR   1339.4    10027.     1339.7     10037.    1344.3     10045.     1345.    10055.    1353.3     10085.
GR   1353.5    10100.     1354.7     10127.    1354.4     10214.    1354.3    10273.    1353.3     10300.
GR   1353.5    10333.

        10TH AVENUE  (SPECIAL BRIDGE)

X1   20.430       20.       9985.     10036.        1.        65.        37.
X3     10.                                                                   1352.5    1352.5
GR   1354.3     9418.     1353.8      9613.    1355.3      9653.    1354.6     9696.    1353.3      9711.
GR   1353.6     9724.     1353.5      9931.     1352.      9950.     1345.     9975.    1339.3      9985.
GR   1339.3    10036.     1344.3     10045.     1345.     10055.    1353.3    10085.    1353.5     10100.
GR   1354.7    10127.     1354.4     10214.    1354.3     10273.    1353.3    10300.    1353.5     10333.

SB    1.25       1.56       3.0       100.       51.        3.       576.        0.      1339.3     1339.3
X1   20.444                                      70.        70.       70.

        ELTRD IS 1353.5+2HV = 1355.5

X2                            1.     1351.3     1355.5                                   1353.5     1353.5
X3     10.

ET                            4.1     9930.    10069.
X1   20.529       19.       9947.     10055.     545.       375.       449.
GR    1354.     9570.     1353.7      9764.    1354.8      9836.     1355.     9885.    1354.7      9898.
GR   1350.7     9910.     1350.2      9947.    1343.4      9963.    1343.4     9990.    1343.3     10000.
GR    1343.    10025.     1348.6     10041.    1350.4     10055.    1350.8    10090.     1355.     10105.
GR   1354.4    10159.      1355.     10192.     1355.     10302.    1355.2    10313.
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NC                                        0.1       0.3
ET                            4.1     9935.    10065.
X1   20.628       16.       9909.     10076.     530.       520.       523.
GR   1357.3     9532.     1357.3      9624.    1356.8      9754.    1357.2     9808.    1357.1      9909.
GR   1351.5     9922.     1350.2      9947.    1343.3      9959.    1343.6     9991.    1343.6     10000.
GR   1343.7    10044.     1356.3     10076.     1357.     10082.    1357.1    10137.    1357.2     10282.
GR    1358.    10337.

ET                            4.1     9962.    10026.
X1   20.725       20.       9951.     10036.     510.       520.       512.
GR   1360.3     9544.     1361.1      9631.    1361.3      9734.     1361.     9783.     1362.      9858.
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GR   136[illegible]      9940.     1360.4     9951.     1350.4     9970.     [illegible]50.4     9981.     1348.3     9984.
GR   1347.4      9992.     1347.2    10000.     1347.4    10010.      1361.    10036.     1363.4    10046.
GR   1363.8     10101.     1364.1    10156.     1364.7    10184.    1365.1    10212.     1364.7    10291.

        PHELPS ROAD  (SPECIAL BRIDGE)

NC                                     0.3        0.5
X1   20.737        16.      9968.    10019.       80.       80.       80.                   3.4
X3      10.                                                                     1363.     1363.
GR   1360.3      9544.     1361.1     9631.     1361.3     9734.     1361.     9783.     1362.     9858.
GR   1360.8      9940.     1360.4     9951.     1347.5     9968.   1347.5    10019.     1361.    10036.
GR   1363.4     10046.     1363.8    10101.     1364.1    10156.   1364.7    10184.    1365.1    10212.
GR   1364.7     10291.

SB     1.25      1.56        3.0      100.       51.        3.      576.        0.    1351.0    1350.9
X1   20.750                                      71.       71.       71.                   0.1

        ELTRD IS 1364+2HV = 1366.0

X2                             1.     1363.     1366.
X3      10.                                                                     1364.     1364.

        BELL ROAD  (SPECIAL BRIDGE)  A SECTION TAKEN UPSTREAM OF BELL ROAD AT
        RM 20.845 IS USED TO MODEL THE BELL ROAD BRIDGE.  GR CARDS ARE REPEATED
        AT THE DOWNSTREAM FACE WITH PSXECE = -0.9.  TO MORE APPROPRIATELY MODEL
        CONTRACTION LOSSES, THE UPSTREAM SECTION IS PRESENTED AT RM 20.860
        INSTEAD OF RM 20.845 WHERE THE AERIAL SECTION WAS TAKEN.

X1   20.819        12.      9965.    10043.      375.      345.      365.                  -0.9
X3      10.                                                                    1366.9    1366.9
GR   1366.5      9554.     1365.4     9663.     1365.5     9777.   1365.5     9846.     1365.3     9942.
GR   1357.4      9965.     1357.4    10043.     1367.6    10066.   1366.2    10107.     1366.2    10146.
GR    1367.     10166.     1367.2    10169.

SB     1.05      1.56        3.0      100.       77.3       3.3      655.        0.    1357.4    1356.5
X1   20.841                                     115.      115.      115.                   0.9

        ELTRD IS 1367.9+2HV = 1369.9

X2                             1.     1365.4    1369.9
1
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X3      10.                                                                    1367.9    1367.9

ET                             4.1     9904.    10060.
X1   20.860        14.      9942.    10066.       90.      110.      100.
X3      10.                                                                    1365.3    1367.6
GR    1370.      9800.     1365.5     9801.     1365.5     9846.   1365.3     9942.     1357.8     9975.
GR   1356.3      9991.     1356.4    10000.     1357.2    10015.     1357.    10040.     1367.6    10066.
GR   1366.2     10107.     1366.2    10146.      1367.    10166.   1367.2    10169.

NC     0.04     0.035      0.035       0.1        0.3
ET                             4.1     9860.    10110.
X1   20.942        26.      9854.    10024.      530.      490.      433.
GR   1372.5      9619.     1367.2     9630.     1368.7     9643.   1369.8     9663.     1369.4     9719.
GR   1367.6      9792.     1367.6     9836.     1368.6     9854.   1360.2     9867.     1359.8     9879.
GR   1359.8      9891.     1364.6     9904.     1365.2     9942.   1363.7     9970.      1366.     9977.
GR   1360.3      9998.     1359.6    10000.     1366.5    10024.   1364.7    10027.     1364.5    10053.
GR   1365.7     10070.     1364.5    10114.     1361.6    10153.   1368.3    10171.     1368.3    10194.
GR   1368.3     10204.

NC     0.04      0.04      0.035
ET                             4.1     9810.    10060.
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X1    21.036       19.     9912.    10020.      490.      490.      496.
GR    1376.1     9530.     1372.     9541.     1372.     9561.    1371.3     9665.    1371.9     9728.
GR    1371.6     9758.    1370.9     9867.    1370.7     9912.    1367.3     9917.    1367.5     9952.
GR    1366.3     9980.    1363.5     9994.    1363.6    10000.    1364.3    10009.    1370.4    10020.
GR    1371.2    10041.    1371.2    10075.    1371.8    10089.     1378.    10090.

ET                          4.1     9900.    10060.
X1    21.127       13.     9974.    10067.      400.      500.      480.
X3       10.                                                                1374.
GR    1378.9     9623.    1373.6     9634.    1373.6     9666.    1373.4     9759.    1373.5     9860.
GR    1373.7     9913.    1374.2     9974.    1366.9     9990.    1366.7    10000.    1367.5    10015.
GR    1367.8    10039.     1375.    10067.     1375.    10077.

ET                          4.1     9900.    10125.
X1    21.230       28.     9967.    10048.      560.      500.      544.
GR    1381.5     9741.    1381.5     9764.    1381.5     9786.    1380.7     9813.    1379.3     9835.
GR    1379.3     9852.    1379.9     9862.    1378.2     9870.    1379.8     9879.    1378.9     9891.
GR    1379.5     9916.    1379.6     9930.    1378.9     9944.    1379.2     9955.    1379.3     9967.
GR    1374.7     9982.    1372.4     9992.     1372.    10000.    1373.2    10014.    1375.6    10023.
GR    1379.3    10037.    1380.6    10048.     1378.    10062.    1377.5    10083.    1377.4    10102.
GR    1377.7    10117.    1377.8    10126.     1385.    10127.

ET                          4.1     9930.    10130.
X1    21.363       55.     9928.    10088.      740.      700.      702.
GR    1384.8     9135.    1384.7     9160.    1383.9     9189.    1384.6     9215.    1383.9     9245.
GR    1384.4     9279.    1383.8     9313.     1384.     9345.    1384.1     9374.    1383.8     9405.
GR    1383.5     9428.    1384.5     9459.     1385.     9498.    1384.7     9527.     1385.     9549.
GR    1382.2     9561.     1381.     9570.    1382.1     9583.    1383.9     9596.    1384.3     9628.
GR    1384.3     9657.     1384.     9697.    1383.6     9739.    1384.1     9779.    1383.9     9811.
GR    1383.1     9822.    1383.6     9848.    1383.3     9886.    1383.5     9907.    1384.1     9916.
GR    1383.2     9922.    1384.4     9928.    1383.6     9939.    1379.2     9954.    1377.7     9977.
GR     1375.     9996.    1374.8    10000.     1375.    10016.    1374.2    10037.    1374.1    10045.
GR    1377.5    10066.    1382.1    10088.    1383.8    10108.     1384.    10125.    1384.5    10147.
1
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GR    1382.7    10174.    1383.2    10202.    1383.1    10224.    1383.1    10245.    1383.3    10265.
GR    1384.3    10285.    1383.4    10301.     1383.    10319.     1383.    10334.     1383.    10337.

ET                          4.1     9852.    10077.
X1    21.484       33.     9932.    10026.      650.      520.      639.
GR    1386.8     9487.    1385.8     9527.    1385.8     9572.    1385.4     9614.    1384.8     9647.
GR    1385.2     9678.    1385.6     9709.    1386.7     9746.    1385.9     9776.    1384.5     9805.
GR    1383.9     9837.    1384.4     9867.     1384.     9892.    1386.5     9919.    1386.9     9932.
GR    1386.2     9943.    1383.5     9964.    1380.2     9970.    1379.7     9988.    1378.5     9994.
GR    1378.6    10000.    1381.2    10014.    1386.5    10026.    1386.6    10053.    1387.8    10056.
GR    1385.5    10060.    1388.2    10068.    1385.8    10075.    1387.4    10079.    1387.4    10101.
GR    1387.6    10116.    1387.5    10131.    1387.4    10134.

ET                          4.1     9940.    10165.
X1    21.576       43.     9980.    10087.      320.      480.      486.
GR    1388.7     9388.    1388.6     9414.    1388.2     9461.    1388.5     9500.    1389.3     9532.
GR    1388.7     9570.    1388.5     9607.    1387.9     9643.    1388.6     9664.    1388.8     9705.
GR    1389.1     9743.    1388.9     9780.     1388.     9821.    1388.4     9852.    1388.7     9889.
GR    1389.1     9922.    1389.7     9952.    1390.1     9968.     1390.     9980.    1382.5     9994.
GR    1382.1    10000.    1382.2    10008.    1383.8    10015.    1385.1    10038.    1385.2    10056.
GR    1384.1    10065.    1384.6    10073.    1388.3    10087.    1387.1    10114.    1387.1    10140.
GR    1387.8    10162.    1387.7    10199.    1388.4    10243.    1388.7    10281.    1389.3    10300.
GR    1390.3    10307.    1389.2    10313.    1390.7    10320.    1387.6    10329.    1388.9    10335.
GR    1389.7    10348.    1390.2    10360.    1390.3    10386.

QT       2.     5500.     5500.
ET                          4.1     9890.    10115.
X1    21.669       35.     9962.    10031.      440.      470.      491.
GR    1393.2     9392.     1393.     9426.    1392.7     9446.    1392.3     9515.    1392.9     9562.
GR    1392.2     9606.    1392.8     9663.    1392.7     9710.    1393.1     9742.    1393.5     9777.
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GR   139[illegible]    9819.    1392.7    9858.    1392.2    9893.    [illegible]91.6    9925.    1392.    9949.
GR   139[illegible]    9962.    1392.7    9974.    1392.2    9982.    1385.    9989.    1384.    9997.
GR   1384.5    10000.    1385.1    10011.    1388.7    10023.    1392.    10031.    1391.2    10045.
GR   1392.    10074.    1391.7    10124.    1391.9    10182.    1392.    10245.    1392.1    10303.
GR   1391.9    10361.    1392.    10395.    1392.6    10401.    1391.6    10404.    1393.3    10414.

ET                    4.1    9940.    10140.
X1   21.742    25.    9975.    10091.    430.    390.    385.
GR   1396.    9733.    1394.6    9753.    1395.1    9777.    1395.    9802.    1395.    9839.
GR   1395.6    9885.    1395.1    9930.    1395.3    9940.    1394.7    9975.    1387.4    9991.
GR   1386.4    10000.    1386.9    10015.    1392.2    10035.    1391.9    10052.    1389.9    10062.
GR   1391.5    10080.    1394.2    10091.    1394.2    10126.    1394.9    10176.    1395.    10240.
GR   1394.6    10281.    1394.8    10324.    1395.2    10355.    1395.3    10367.    1397.3    10376.

ET                    4.1    9900.    10100.
X1   21.840    22.    9946.    10054.    430.    430.    517.
GR   1401.5    9827.    1402.1    9842.    1397.3    9860.    1395.5    9882.    1395.    9913.
GR   1395.3    9931.    1396.2    9946.    1395.7    9953.    1392.1    9967.    1392.6    9984.
GR   1393.7    9997.    1393.3    10000.    1392.5    10020.    1391.1    10033.    1393.5    10045.
GR   1397.    10054.    1396.5    10097.    1397.3    10145.    1397.8    10186.    1397.5    10227.
GR   1397.6    10273.    1398.3    10308.
1
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ET                    4.1    9830.    10080.
X1   21.895    31.    9975.    10031.    330.    220.    290.
GR   1402.6    9807.    1402.6    9825.    1398.4    9839.    1397.2    9857.    1396.7    9885.
GR   1396.7    9919.    1397.7    9939.    1397.9    9960.    1398.    9975.    1397.1    9981.
GR   1393.    9990.    1391.9    10000.    1392.3    10010.    1394.    10021.    1397.7    10031.
GR   1398.6    10046.    1399.    10078.    1398.4    10113.    1398.6    10149.    1398.7    10187.
GR   1398.5    10225.    1398.1    10251.    1398.6    10292.    1398.6    10333.    1399.3    10364.
GR   1398.8    10399.    1399.5    10428.    1400.5    10446.    1400.5    10458.    1399.7    10463.
GR   1400.9    10470.

        UNION HILLS RD:   PIPES BENEATH LOW CROSSING WERE MODELLED AS AN AREA
        (BAREA) WITH AN ORIFICE COEFFICIENT.  THE 100 YEAR FLOW THROUGH THE
        PIPES WAS NEGLIGIBLE (18 CFS).  UNION HILLS IS THEREFORE MORE
        APPROPRIATELY MODELLED AS A NORMAL SECTION USING GR CARDS.


ET                    4.1    9650.    10070.
X1   21.933    12.    9865.    10140.    210.    210.    210.
GR   1402.    9060.    1400.3    9440.    1400.    9590.    1398.    9680.    1397.4    9725.
GR   1398.    9780.    1399.4    9840.    1398.    9865.    1396.8    10000.    1398.    10140.
GR   1400.    10285.    1406.    10286.

NC   0.045    0.045    0.045
ET                    4.1    9630.    10051.
X1   21.953    39.    9969.    10029.    75.    75.    74.
GR   1402.    9320.    1400.5    9487.    1400.8    9527.    1401.4    9557.    1400.2    9580.
GR   1401.7    9599.    1401.1    9621.    1400.2    9647.    1399.6    9678.    1398.8    9699.
GR   1398.3    9714.    1397.6    9720.    1396.6    9725.    1398.8    9735.    1399.3    9745.
GR   1398.8    9759.    1397.3    9768.    1398.9    9782.    1398.9    9810.    1400.1    9832.
GR   1402.1    9851.    1401.7    9870.    1403.3    9884.    1403.7    9893.    1403.4    9912.
GR   1402.3    9939.    1401.    9956.    1399.7    9965.    1400.2    9969.    1395.6    9986.
GR   1394.4    9997.    1394.1    10000.    1394.    10010.    1394.9    10018.    1398.3    10029.
GR   1400.1    10044.    1401.6    10058.    1401.4    10064.    1407.    10065.

ET                    4.1    9620.    10030.
X1   22.065    39.    9961.    10028.    430.    630.    591.
GR   1404.2    9230.    1404.    9250.    1402.    9270.    1402.    9500.    1403.1    9594.
GR   1403.6    9604.    1400.4    9627.    1400.1    9645.    1400.6    9657.    1400.3    9680.
GR   1400.5    9700.    1401.9    9717.    1403.3    9731.    1403.7    9746.    1403.9    9761.
GR   1400.1    9776.    1400.    9785.    1401.1    9796.    1401.    9816.    1403.7    9829.
GR   1403.7    9843.    1400.7    9861.    1399.7    9869.    1402.7    9890.    1403.5    9899.
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GR	1404.1	9915.	1404.8	9934.	1403.6	9950.	1404.1	9961.	1401.4	9977.
GR	1398.	9989.	1395.8	9995.	1395.8	10000.	1395.9	10006.	1399.4	10010.
GR	1402.	10028.	1402.6	10043.	1406.6	10061.	1407.1	10085.		
ET			4.1	9620.	10020.					
X1	22.165	63.	9983.	10018.	530.	530.	528.			
GR	1406.	9130.	1405.2	9138.	1405.	9151.	1404.4	9164.	1402.8	9176.
GR	1402.7	9184.	1400.8	9204.	1399.8	9213.	1399.3	9222.	1401.2	9232.
GR	1403.	9256.	1403.8	9282.	1403.8	9308.	1404.3	9334.	1404.2	9364.
GR	1404.1	9396.	1404.	9425.	1404.9	9463.	1405.2	9499.	1405.3	9526.
GR	1404.9	9548.	1403.8	9565.	1402.8	9579.	1404.6	9595.	1404.8	9608.
GR	1402.4	9624.	1400.	9637.	1399.7	9645.	1400.6	9657.	1402.	9669.

1

GR	1403.1	9686.	1404.5	9701.	1405.8	9714.	1406.2	9728.	1406.1	9741.
GR	1404.	9753.	1403.8	9760.	1405.2	9772.	1405.6	9784.	1405.3	9793.
GR	1402.9	9806.	1402.7	9820.	1402.6	9834.	1402.6	9843.	1401.8	9849.
GR	1401.9	9862.	1402.8	9872.	1403.8	9876.	1405.	9894.	1406.1	9909.
GR	1405.4	9919.	1403.1	9930.	1403.	9946.	1402.1	9967.	1400.9	9983.
GR	1395.3	9994.	1395.	10000.	1396.1	10007.	1403.7	10018.	1404.8	10038.
GR	1405.2	10053.	1405.2	10060.	1405.7	10065.				
ET			4.1	9650.	10027.					
X1	22.273	57.	9933.	10028.	470.	580.	570.			
GR	1418.7	9227.	1418.7	9238.	1412.4	9262.	1411.6	9274.	1410.9	9284.
GR	1409.	9292.	1407.6	9300.	1407.3	9314.	1406.3	9325.	1403.5	9335.
GR	1403.1	9344.	1403.	9350.	1404.3	9359.	1405.4	9369.	1405.8	9386.
GR	1406.7	9408.	1407.1	9427.	1407.4	9444.	1407.2	9460.	1406.4	9473.
GR	1406.5	9485.	1406.9	9502.	1407.7	9520.	1408.2	9532.	1407.1	9558.
GR	1404.4	9574.	1404.3	9598.	1406.	9622.	1407.	9657.	1407.3	9686.
GR	1406.2	9708.	1406.4	9727.	1406.4	9745.	1405.6	9754.	1402.6	9766.
GR	1402.8	9774.	1406.7	9789.	1409.4	9801.	1408.5	9827.	1407.9	9851.
GR	1408.8	9869.	1406.3	9887.	1407.	9902.	1404.	9915.	1404.1	9933.
GR	1403.2	9948.	1401.8	9961.	1400.6	9977.	1400.1	9992.	1399.4	9999.
GR	1399.8	10000.	1401.2	10011.	1404.	10021.	1406.9	10028.	1408.	10050.
GR	1408.3	10080.	1408.7	10109.						
ET			4.1	9860.	10040.					
X1	22.410	25.	9973.	10027.	750.	630.	723.			
GR	1420.	9802.	1419.1	9817.	1418.8	9825.	1415.8	9838.	1414.8	9850.
GR	1412.6	9867.	1413.9	9879.	1412.	9890.	1413.4	9903.	1414.5	9914.
GR	1416.1	9922.	1414.	9931.	1412.4	9941.	1411.4	9954.	1411.2	9967.
GR	1410.7	9973.	1405.7	9987.	1404.9	9997.	1404.	10000.	1404.7	10007.
GR	1407.6	10017.	1411.3	10027.	1413.5	10042.	1413.8	10057.	1414.4	10071.
ET			4.1	9890.	10050.					
X1	22.483	19.	9941.	10105.	380.	390.	385.			
GR	1421.	9823.	1420.2	9843.	1416.7	9873.	1414.4	9891.	1413.1	9915.
GR	1411.1	9941.	1407.8	9961.	1406.2	9984.	1405.5	10000.	1405.5	10027.
GR	1406.4	10056.	1408.3	10084.	1411.2	10105.	1412.3	10120.	1412.6	10138.
GR	1412.6	10156.	1411.9	10175.	1412.7	10191.	1419.8	10208.		
ET			4.1	9968.	10064.					
X1	22.578	13.	9968.	10072.	540.	490.	502.			
GR	1417.2	9914.	1417.6	9942.	1416.4	9958.	1416.6	9968.	1406.7	9983.
GR	1406.7	9993.	1407.5	10000.	1408.5	10024.	1408.5	10040.	1408.8	10050.
GR	1415.6	10063.	1421.2	10072.	1421.4	10090.				
ET			4.1	9830.	10028.					
X1	22.675	19.	9736.	10032.	570.	480.	512.			
GR	1419.9	9671.	1419.9	9710.	1419.8	9736.	1410.6	9759.	1411.1	9783.
GR	1410.6	9809.	1409.7	9828.	1410.8	9850.	1411.5	9873.	1413.4	9892.
GR	1412.2	9922.	1411.	9950.	1411.	9976.	1410.7	10000.	1410.6	10015.
GR	1420.	10032.	1428.3	10047.	1426.6	10055.	1426.	10060.		

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ET                          4.1     9977.    10160.
X1   22.794       20.     9983.    10169.      460.      500.      628.
GR   1420.6     9968.    1417.8     9983.   1413.6     9998.   1412.4    10000.    1412.3    10013.
GR   1410.7    10041.    1411.6    10065.   1413.7    10080.   1413.8    10103.    1414.2    10119.
GR   1411.7    10136.    1413.8    10151.   1416.1    10169.   1417.2    10189.    1420.3    10202.
GR   1423.1    10219.     1427.    10244.   1429.9    10261.   1429.8    10278.    1429.8    10282.

ET                          4.1     9951.    10120.
X1   22.880       34.     9927.    10167.      440.      480.      454.
GR   1427.3     9791.     1427.     9807.   1426.5     9815.   1424.8     9827.    1424.6     9838.
GR   1424.8     9863.    1424.8     9883.   1424.5     9903.   1424.7     9917.    1426.4     9927.
GR   1423.9     9934.    1421.4     9947.   1418.5     9958.   1416.1     9968.     1415.     9984.
GR    1414.     9999.    1414.3    10000.   1414.5    10012.   1415.2    10024.    1416.1    10048.
GR   1416.5    10067.    1416.4    10101.   1416.2    10125.   1415.5    10143.    1413.2    10152.
GR    1413.    10156.    1414.8    10160.   1424.2    10167.   1426.6    10188.    1428.4    10200.
GR   1430.9    10214.    1433.5    10230.   1433.8    10241.   1433.5    10248.

ET                          4.1     9890.    10026.
X1   22.990       35.     9739.    10034.      480.      530.      581.
GR   1427.7     9668.    1427.6     9697.   1425.6     9719.   1425.3     9730.    1425.4     9739.
GR   1423.9     9751.    1422.5     9767.   1422.4     9785.   1421.5     9804.    1421.3     9817.
GR   1421.3     9829.    1420.8     9843.   1419.5     9855.   1418.9     9864.    1417.9     9873.
GR   1419.4     9886.     1420.     9903.   1420.6     9921.   1420.8     9935.    1420.3     9949.
GR    1420.     9963.    1419.1     9977.   1419.1     9995.   1419.1    10000.    1418.7    10014.
GR   1420.3    10020.    1427.9    10034.   1427.3    10044.   1428.3    10060.    1430.5    10076.
GR   1435.7    10094.    1437.4    10108.   1438.7    10119.   1436.3    10126.    1435.1    10133.

ET                          4.1     9958.    10090.
X1   23.097       48.     9951.    10121.      640.      490.      565.
GR   1433.9     9713.    1433.9     9740.   1433.8     9758.   1432.3     9772.    1432.1     9778.
GR   1433.5     9794.    1433.5     9811.   1433.5     9835.   1433.4     9849.    1431.1     9864.
GR    1430.     9878.    1430.1     9885.    1431.     9892.   1429.6     9901.    1429.1     9916.
GR   1429.6     9925.    1431.3     9935.   1432.2     9945.   1432.3     9951.    1427.9     9964.
GR   1426.4     9977.    1425.6     9988.   1425.1     9999.   1425.1    10000.     1426.    10012.
GR   1426.1    10021.    1426.5    10044.   1426.5    10063.   1426.5    10073.    1426.5    10082.
GR   1425.5    10093.    1426.4    10101.   1428.5    10112.   1430.8    10121.    1430.1    10135.
GR    1430.    10150.    1431.6    10163.   1432.8    10176.    1433.    10198.    1432.7    10221.
GR   1431.6    10247.    1430.9    10267.   1430.6    10286.   1431.5    10296.    1433.4    10310.
GR   1438.3    10337.    1439.7    10353.   1440.5    10363.
```

THE BEARDSLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL CROSS SECTION. THE BEARDSLEY ROAD CENTERLINE IS AT RM 23.168

```
ET                          4.1     9830.    10140.
X1   23.168       22.     9777.    10116.      330.      300.      375.
GR   1435.4     9358.    1435.5     9412.   1435.6     9477.   1434.7     9533.    1433.2     9598.
GR   1431.8     9657.    1430.8     9718.   1429.5     9777.   1428.9     9827.     1429.     9877.
GR   1429.1     9942.     1429.     9999.   1429.1    10000.   1429.8    10053.    1430.3    10116.
GR   1431.8    10176.    1433.6    10230.   1434.3    10274.   1434.9    10326.    1435.5    10363.
GR   1435.6    10399.    1435.8    10409.
```

DUE TO BREAKOUTS (SPLIT FLOWS) BETWEEN RM 23.55 AND RM 23.8, THE

1

50 AND 100 YEAR Q'S ARE REDUCED PER THE FOLLOWING TABLE.

NO ENCROACHMENTS ARE COMPUTED FOR THE FOLLOWING REACH BETWEEN RM 23.253 AND 7TH STREET. FOR PURPOSES OF A FLOODWAY, A 100 FT CORRIDOR IS MAINTAINED OUTSIDE OF THE LEVEES (WHICH ARE LIKELY TO BE ERODABLE) TO PASS THE SPLIT FLOWS WHICH HAVE BEEN REMOVED FROM THE MODEL, AS DISCUSSED

WITH CITY OF PHOENIX AND FLOOD CONTROL DISTRICT REPRESENTATIVES. IF THIS CORRIDOR IS NOT MAINTAINED, THE REDUCTION IN Q FOR THIS MODEL IS NOT VALID, RESULTING IN A FLOODWAY PROFILE ABOVE THE NATURAL PROFILE BY MORE THAN THE STATUTORY 1.0 FT.

	FULL Q	REDUCED Q
50 YEAR	4800.	3300
100 YEAR	5500.	3400

THE 10 YEAR Q (3200 CFS) IS UNAFFECTED

```
QT       2.      3400.      3400.
NC    0.035       0.05       0.04
ET                            4.1     9978.5    10023.2
X1   23.253         8.      9973.     10038.       470.       450.       459.
GR   1437.5      9973.     1425.5      9995.     1425.2     10000.     1427.4     10008.     1429.2     10015.
GR   1444.2     10038.     1444.9     10052.      1445.     10060.

ET                            4.1      9969.     10036.
X1   23.334        10.      9962.     10055.       400.       420.       417.
GR   1443.8      9962.     1435.6      9979.     1433.2      9990.     1432.6     10000.     1433.2     10012.
GR   1435.4     10022.     1438.5     10032.     1444.2     10044.     1449.8     10055.     1449.6     10063.

X1   23.416        10.      9974.     10053.       400.       430.       433.
GR   1447.7      9958.     1447.8      9974.     1439.2      9989.     1436.5      9999.     1436.6     10000.
GR   1437.2     10017.     1437.6     10030.     1444.4     10041.     1450.2     10053.     1450.4     10066.

X1   23.514         8.      9973.     10039.       560.       470.       517.
GR   1451.5      9965.     1451.4      9973.     1439.8      9989.     1439.6     10000.     1440.1     10012.
GR   1441.5     10022.     1443.6     10029.     1451.1     10039.
```

SPECIAL BRIDGE IS USED TO MODEL EMBANKMENT PLACED IN THE CHANNEL TO ALLOW VEHICULAR ACCESS BETWEEN THE LANDFILL ON THE LEFT AND THE GRAVEL PIT ON THE RIGHT. THE EMBANKMENT MAY WASH OUT, BUT FOR THIS STUDY, IT IS ASSUMED TO REMAIN. LOW FLOWS PASS THROUGH 2-36" CMP'S.

```
X1   23.544                                          190.       150.       158.                    1.8
X3      10.                                                                                1445.      1445.
1
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SB     1.25       2.48        3.2         0.         5.7         1.        14.1          0.      1442.     1441.4
X1   23.555                                           60.        60.        60.                    0.6
```

ELTRD IS 1448.4+0.6HV = 1449

```
X2                            1.      1445.      1449.
X3      10.                                                                                1480.      1480.
BT      10.      9930.      1452.         0.      9939.     1451.2         0.      9951.     1451.1         0.
BT    9967.     1449.8         0.      9987.     1448.4         0.     10000.     1448.4         0.     10019.
BT   1448.6         0.     10041.     1449.5         0.     10055.      1450.         0.     10070.      1452.
BT       0.

X1   23.591        17.      9968.     10045.       100.       210.       190.
```

ARTIFICIAL LEVEES ARE SET VERY HIGH ON THE LEFT AND RIGHT OVERBANKS USING THE X3 CARD TO CONSIDER ONLY THE CHANNEL AREA AS EFFECTIVE. SPLIT FLOW THAT BREAKS OUT UPSTREAM IS ACCOUNTED FOR BY THE REDUCED Q. FLOWS ARE RETURNED TO CAVE CREEK DOWNSTREAM AT BEARDSLEY ROAD.

```
X3                                                                                  1480.      1480.
GR    1480.      9700.      1448.      9760.      1448.      9850.      1452.9     9959.      1452.9     9968.
GR   1446.8      9982.    1444.6      9993.    1444.2     10000.    1444.2     10013.      1444.9    10023.
GR   1449.9     10036.    1453.8     10045.    1451.9     10048.      1448.     10070.       1448.    10430.
GR    1450.     10770.      1452.    11200.

X1   23.691        43.      9965.     10036.       510.       540.       528.

        HIGH ARTIFICIAL LEVEE

X3       10.                                                                        1480.      1480.
GR   1461.1      9722.    1449.4      9747.    1449.4      9767.    1449.5     9784.      1449.1     9800.
GR   1448.3      9819.    1448.6      9832.    1448.3      9866.      1449.     9894.      1449.3     9913.
GR   1450.2      9925.    1453.5      9936.    1456.1      9944.    1455.4     9951.      1457.3     9955.
GR   1457.6      9965.    1450.8      9980.    1448.5      9985.    1447.2     9991.      1446.6     9999.
GR   1446.4     10000.      1447.    10011.    1449.6     10017.    1451.3    10028.      1455.3    10036.
GR   1453.2     10045.    1452.4     10054.    1451.3     10057.    1452.2    10062.      1452.4    10077.
GR   1452.2     10094.    1451.7     10108.    1452.6     10117.    1451.4    10123.      1452.7    10128.
GR    1451.     10138.    1452.3     10143.    1451.7     10147.    1453.4    10155.      1452.1    10160.
GR    1452.     10320.      1454.    10560.      1456.    10730.

        Q IS NOW CHANGED TO BE THE AVERAGE OF THE FULL Q UPSTREAM OF THE
        BREAKOUT AND OF THE REDUCED Q DOWNSTREAM OF THE BREAKOUT.

QT        2.      4350.      4350.
X1   23.815        31.      9951.     10037.       650.       680.       655.

        HIGH ARTIFICIAL LEVEE

X3       10.                                                                        1480.      1480.
GR    1470.      9650.    1459.3      9716.    1453.5      9738.    1453.1     9772.      1453.4     9812.
GR   1454.5      9857.    1455.1      9890.     1455.      9914.    1455.4     9941.      1458.9     9951.
GR    1458.      9963.    1451.4      9979.    1449.7      9988.    1449.9     9996.      1449.7    10000.
1
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GR   1449.7     10017.    1454.6     10028.    1457.8     10037.    1456.8    10043.      1456.8    10060.
GR   1456.9     10081.    1457.1     10110.    1458.2     10140.    1458.4    10157.      1459.5    10172.
GR   1458.5     10182.      1456.    10195.    1457.2     10215.    1458.7    10226.      1457.1    10235.
GR   1465.5     10249.

        Q IS NOW CHANGED TO BE THE FULL Q UPSTREAM OF THE BREAKOUT

QT        2.      5300.      5300.
X1   23.912        12.      9967.     10043.       480.       510.       512.

        HIGH ARTIFICIAL LEVEE

X3       10.                                                                        1480.      1480.
GR   1463.9      9868.    1461.7      9878.    1460.6      9898.    1460.7     9925.      1461.4     9950.
GR   1461.3      9967.    1451.3      9983.    1447.9      9994.      1448.    10000.       1447.9    10010.
GR   1454.9     10026.    1460.9     10043.

X1   23.989         9.      9937.     10049.       400.       410.       407.
GR   1465.6      9937.    1457.9      9957.    1452.6      9977.    1450.8     9989.      1449.7    10000.
GR   1450.5     10014.    1452.5     10024.      1458.    10036.    1465.8    10049.

        7TH STREET  (SPECIAL BRIDGE).  THE GR CARDS FROM SECTION 24.106 TAKEN
        UPSTREAM OF 7TH STREET ARE REPEATED AT THE DOWNSTREAM FACE OF THE BRIDGE
        AS SECTION 24.086 WITH PSXECE = -1.3.

NC                                     0.3        0.5
X1   24.086        12.      9972.     10044.       450.       560.       512.                    -1.3
```

```
X3      10.                                                                                  1463.7     1463.7
GR   1470.1      9942.     1464.1     9955.     1454.9     9972.     1454.9     10044.      1456.     10052.
GR   1458.5     10064.     1461.9    10091.     1463.7    10108.     1465.7     10123.     1466.1     10136.
GR   1466.4     10155.     1467.4    10310.

SB      0.9      1.56         3.      100.       71.6        3.       590.        0.      1453.6     1453.6
X1   24.096                                      56.       56.        56.

        ELTRD IS 1464.7+2HV = 1466.7

X2                            1.     1462.2     1466.7
X3      10.                                                                                  1466.      1466.

ET                            4.1     9955.     10055.
X1   24.106        13.      9955.    10064.       80.       20.        53.
GR   1470.1      9942.     1464.1     9955.     1455.2     9972.     1454.7      9997.     1454.2     10000.
GR   1454.9     10028.      1456.    10052.     1458.5    10064.     1461.9     10091.     1463.7     10108.
GR   1465.7     10123.     1466.1    10136.     1466.4    10155.

NC                                      0.1        0.3
ET                            4.1      9950.     10050.
```



```
X1   24.195        13.      9933.    10142.      470.      460.       470.
GR   1498.7      9862.     1497.1     9889.     1470.4     9933.     1454.1      9961.     1453.6      9996.
GR   1453.6     10000.     1453.9    10032.     1455.5    10052.     1456.3     10073.     1458.8     10093.
GR   1462.3     10117.     1466.4    10142.     1468.9    10164.

ET                            4.1     9940.     10080.
X1   24.322        11.      9871.    10064.      640.      630.       671.
GR   1473.7      9820.     1463.5     9871.     1453.2     9895.     1451.6      9972.     1452.1     10000.
GR   1454.5     10042.     1456.8    10064.     1457.7    10134.     1459.6     10177.     1465.2     10220.
GR   1470.9     10262.

NC    0.045      0.045      0.045
ET                            4.1     9927.     10080.
X1   24.444        16.      9928.    10122.      640.      600.       644.
GR   1478.8      9885.     1478.7     9906.      1465.     9928.     1457.6      9939.      1458.      9972.
GR   1457.3      9995.     1457.7    10000.     1459.1    10027.     1460.4     10064.     1459.3     10097.
GR   1461.7     10122.     1458.9    10142.     1460.7    10166.     1460.3     10180.     1468.5     10215.
GR   1474.2     10230.

ET                            4.1     9950.     10160.
X1   24.542        20.      9914.    10187.      470.      530.       517.
GR   1488.2      9844.     1464.      9914.     1463.2     9948.     1460.4      9968.     1459.8      9996.
GR   1459.8     10000.     1461.4    10017.     1462.3    10033.     1470.7     10056.     1470.3     10083.
GR   1472.2     10112.     1470.9    10127.     1464.4    10141.     1462.5     10166.      1463.     10171.
GR   1464.7     10175.     1467.8    10187.     1473.8    10237.     1475.2     10268.     1478.9     10283.

        THE DEER VALLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL
        CROSS SECTION.  THE DEER VALLEY ROAD CENTERLINE IS AT RM 24.635.

ET                            4.1     9940.     10060.
X1   24.635         8.      9876.    10111.      650.      220.       491.
GR   1480.9      9752.     1474.5     9876.      1467.     9983.     1466.8     10000.     1467.9     10037.
GR   1472.4     10111.     1478.6    10193.     1480.1    10247.

QT       2.      5200.      5200.

        DIVIDED FLOW OCCURS FROM SECTION 24.738 TO 25.163.  ALTHOUGH THE RIGHT
        OVERBANK IS SOMETIMES LOWER THAN THE CHANNEL, EFFECTIVE FLOW IS
        CONTROLLED DOWNSTREAM AT SECTION 24.738.  OVERBANK LOW ELEVATIONS ARE
        ARTIFICIALLY ADJUSTED AT SECTIONS 24.838 TO 25.163 TO YIELD QROB =
        QROB AT SECTION 24.738 + OR - 10%.  NATURAL CONDITIONS AT SECTION
```

2[illegible]48 RESULT IN A QROB THAT IS LESS THAN SECTION 24.738.

```
ET                                4.1      9936.      10200.
X1   24.738        21.      9897.     10038.       350.       630.       544.
GR   1490.4      9703.     1489.7      9717.     1479.2      9736.     1479.3      9805.     1477.7      9884.
GR   1481.2      9897.     1477.6      9931.     1472.8      9965.     1472.3      9986.      1472.     10000.
GR   1473.5     10023.     1480.9     10038.     1476.7     10045.     1480.8     10067.     1477.6     10079.
GR   1473.6     10088.     1473.6     10127.     1472.5     10224.     1474.4     10291.     1473.6     10330.
GR   1477.6     10343.
1
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ET                                4.1      9968.      10350.
X1   24.838        20.      9945.     10019.       470.       450.       528.
  1488.5   9909.  1483.8   9945.  1477.7   9986.  1474.8   9991.  1474.7  10000.
   1475.  10004.  1483.5  10019.  1477.3  10032.  1479.5  10066.  1469.1  10111.
  1467.6  10133.  1468.5  10162.  1472.5  10185.  1469.9  10199.  1469.7  10219.
   1470.  10270.   1466.  10365.   1466.  10450.   1468.  10630.   1490.  10660.
GR   1488.5     9909.     1483.8      9945.     1477.7      9986.     1474.8      9991.     1474.7     10000.
GR    1475.    10004.     1483.5     10019.      1479.     10032.     1479.5     10066.      1479.     10111.
GR    1479.    10133.      1479.     10162.      1479.     10185.      1479.     10199.      1479.     10219.
GR    1479.    10270.      1479.     10365.      1479.     10450.      1479.     10630.      1490.     10660.

ET                                4.1      9860.      10300.
X1   24.943        17.      9983.     10017.       530.       570.       554.
  1504.8   9651.  1494.9   9694.  1493.1   9736.  1481.7   9813.  1480.7   9926.
  1482.4   9945.  1481.8   9983.   1478.   9990.  1477.9  10000.  1477.7  10004.
  1484.8  10017.  1483.6  10032.  1478.1  10044.   1470.  10080.   1470.  10540.
   1480.  10610.  1503.3  10690.
GR   1504.8     9651.     1494.9      9694.     1493.1      9736.     1481.7      9813.     1480.7      9926.
GR   1482.4     9945.     1481.8      9983.      1478.      9990.     1477.9     10000.     1477.7     10004.
GR   1484.8    10017.     1483.6     10032.      1481.     10044.      1481.     10080.      1481.     10540.
GR    1481.    10610.     1503.3     10690.

ET                                4.1      9850.      10250.
X1   25.048        23.      9966.     10017       580.       520.       554.
GR   1497.2      9659.     1493.6      9692.     1486.7      9707.      1486.      9817.      1486.      9941.
GR   1486.6      9966.     1485.7      9981.      1484.      9986.      1484.     10000.     1493.6     10017.
GR   1488.3     10026.      1486.     10062.     1485.4     10154.     1486.5     10223.     1483.7     10232.
GR   1484.6     10247.      1488.     10258.     1487.5     10405.     1492.2     10420.      1489.     10431.
GR    1484.     10450.      1484.     10470.      1500.     10525.

QT       2.      4900.      4900.
ET                                4.1      9940.      10175.
X1   25.163        16.      9972.     10025.       640.       580.       607.
  1499.3   9878.  1492.6   9917.  1490.2   9947.  1489.9   9965.  1491.6   9972.
  1486.2   9984.  1486.3  10000.   1486.  10005.  1493.1  10025.  1485.3  10044.
  1486.3  10088.  1486.3  10147.  1486.4  10220.  1488.4  10291.  1498.8  10312.
  1499.8  10417.
GR   1499.3     9878.     1492.6      9917.     1490.2      9947.     1489.9      9965.     1491.6      9972.
GR   1486.2     9984.     1486.3     10000.      1486.     10005.     1493.1     10025.      1489.     10044.
GR    1489.    10088.      1489.     10147.      1489.     10220.      1489.     10291.     1498.8     10312.
GR   1499.8    10417.
```

THE BREAKOUT IN THE RIGHT OVERBANK IS NOT EFFECTIVE DUE TO DOWNSTREAM PONDING. HIGH ARTIFICIAL LEVEES HAVE BEEN SET ON THE RIGHT AT SECTIONS 25.262, 25.374, AND 25.434.

```
ET                                4.1      9750.      10023.
X1   25.262        28.      9948.     10030.       470.       570.       523.
X3      10.                                                                          1491.6      1510.
GR   1503.2      9465.     1506.4      9470.     1489.6      9513.     1490.2      9547.     1492.2      9618.
GR   1491.5      9646.     1492.7      9689.     1492.6      9707.     1490.5      9823.     1491.6      9948.
GR   1489.1      9969.     1493.6      9987.     1490.2     10000.     1490.8     10016.     1496.8     10030.
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GR   1488.4    10044.    1487.4    10059.     1486.    10070.    1484.4    10260.     1486.    10380.
GR    1492.    10420.     1492.    10450.     1484.    10475.     1484.    10510.     1488.    10535.
GR    1486.    10575.     1488.    10585.     1494.    10610.

ET                          4.1     9925.    10023.
X1   25.374       16.     9969.    10023.      680.      300.      591.
X3      10.                                                       1499.3
GR    1510.     9628.   1498.2     9659.     1496.     9704.    1495.7     9838.    1496.2     9920.
GR    1496.     9933.   1497.8     9944.    1497.8     9950.    1495.6     9955.    1496.7     9963.
GR   1499.3     9969.   1493.5     9986.    1493.3    10000.    1493.5    10011.    1498.8    10023.
GR    1510.   10023.1

NC    0.05     0.035    0.035
ET                          4.1     9970.    10036.
X1   25.434       14.     9968.    10036.      400.      190.      317.
X3      10.                                                       1504.9
GR   1511.5     9463.   1506.8     9561.    1504.8     9631.    1504.9     9716.     1502.     9788.
GR   1501.3     9885.   1500.8     9942.    1500.6     9954.    1504.9     9968.    1496.8     9990.
GR   1496.6    10000.   1495.8    10018.     1504.    10036.     1510.   10036.1

ET                          4.1     9970.    10050.
X1   25.500        9.     9908.    10105.      250.      420.      349.
GR   1511.5     9908.   1506.9     9927.    1504.5     9943.    1499.9     9957.    1497.7    10000.
GR   1498.5    10025.   1503.7    10061.    1507.7    10094.     1509.    10105.

        CAP CANAL OVERSHOOT STRUCTURE

NC                                   0.3       0.5

                SECTION IN DOWNSTREAM OUTLET OF OVERSHOOT IN STILLING POOL

ET                          4.1     9960.    10040.
X1   25.523        9.     9963.    10037.      120.      120.      121.
GR    1510.     9900.     1508.     9930.     1498.     9950.     1498.     9963.     1496.     9964.
GR    1496.    10036.     1498.    10037.     1498.    10050.     1510.    10100.

                SECTION AT DOWNSTREAM CREST OF OVERSHOOT WHERE FLOW PASSES
                THROUGH CRITICAL DEPTH. DO NOT ENCROACH.

NC    0.05     0.035    0.015
X1   25.534        4.     9963.    10037.       58.       58.       58.
GR    1515.     9963.  1505.54     9964.  1505.54    10036.     1515.    10037.

                SECTION AT UPSTREAM END OF NARROW CHUTE. DO NOT ENCROACH.

X1   25.551                                     90.       90.       90.

                SECTION AT UPSTREAM FLARED ENTRANCE TO OVERSHOOT. DO NOT
                ENCROACH.
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X1   25.557        4.     9954.    10046.       32.       32.       32.
GR    1515.     9954.  1505.54     9973.  1505.54    10027.     1515.    10046.

                NATURAL SECTION UPSTREAM OF OVERSHOOT.  SET ENCROACHMENTS
                TO NATURAL SSTA & ENDSTA.
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NC    0.035      0.035      0.035
QT      2.       2900.      2900.
ET                           4.1      9949.     10050.
X1   25.561        5.       9948.     10069.       20.        20.        21.
GR   1514.9      9948.     1505.6      9971.     1505.7     10000.     1506.3     10048.     1515.2     10069.

NC                                      0.1        0.3
QT      2.       2700.      2700.
ET                           4.1      9950.     10050.
X1   25.680       36.       9927.     10093.      580.       660.       628.
GR   1519.8      9136.     1518.8      9203.     1516.1      9267.     1515.7      9325.     1515.7      9359.
GR   1516.7      9372.     1514.9      9462.     1514.2      9504.     1515.2      9516.     1515.6      9559.
GR   1515.7      9593.      1515.      9622.     1516.9      9637.     1515.3      9653.     1512.1      9664.
GR   1512.4      9688.     1513.8      9704.     1518.5      9720.     1510.6      9747.     1514.3      9796.
GR   1513.9      9866.     1514.4      9927.     1508.7      9946.     1511.3      9961.     1511.2      9985.
GR   1506.5      9997.     1506.8     10000.     1506.8     10011.     1510.5     10022.     1511.1     10057.
GR   1509.6     10063.     1511.2     10093.     1512.4     10167.      1510.     10278.     1508.7     10295.
GR   1534.1     10338.

QT      2.       2500.      2500.
ET                           4.1      9982.     10082.
X1   25.786       32.       9978.     10056.      600.       470.       560.
X3     10.                                                                        1518.9
GR   1522.7      9477.     1522.5      9507.     1515.5      9529.     1515.7      9575.     1514.1      9667.
GR   1514.3      9705.     1513.4      9736.      1517.      9753.     1516.8      9776.     1517.2      9794.
GR   1513.5      9822.     1516.2      9837.     1512.2      9848.     1516.5      9872.     1514.6      9883.
GR    1517.      9913.      1517.      9922.     1515.2      9944.     1518.9      9964.     1518.9      9978.
GR   1511.2      9990.     1511.4     10000.     1510.7     10010.     1514.5     10020.     1512.2     10041.
GR   1515.8     10056.     1515.3     10189.     1517.3     10353.     1515.1     10418.      1514.     10435.
GR   1514.2     10440.     1532.8     10465.

QT      2.       2300.      2300.
ET                           4.1      9959.     10059.
X1   25.947       14.       9950.     10066.      870.       830.       850.
GR    1524.      9816.     1522.7      9917.     1522.7      9950.     1518.8      9971.     1518.3      9986.
GR   1514.4     10000.     1514.5     10011.     1518.4     10028.     1519.7     10037.     1520.6     10066.
GR   1519.3     10107.     1518.2     10113.     1518.8     10119.     1529.5     10139.

QT      2.       2200.      2200.
ET                           4.1      9950.     10023.
X1   26.058       15.       9966.     10024.      540.       570.       586.
GR   1529.2      9598.     1526.6      9747.     1527.1      9765.      1526.      9790.     1523.3      9845.
GR   1522.1      9904.     1521.1      9927.      1521.      9951.      1522.      9966.     1520.8      9976.
GR   1517.4     10000.     1516.2     10010.     1516.8     10014.      1524.     10024.     1541.9     10048.
1
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QT      2.       2000.      2000.
ET                           4.1      9970.     10040.
X1   26.152       13.       9956.     10069.      240.       550.       496.
GR   1530.2      9789.     1529.9      9847.     1527.3      9895.     1525.4      9956.     1522.3      9972.
GR    1520.      9982.     1520.1     10000.     1520.5     10018.     1522.2     10050.      1526.     10069.
GR   1530.7     10102.     1531.9     10114.     1533.1     10139.

QT      2.       1900.      1900.
ET                           4.1      9973.     10060.
X1   26.265       10.       9955.     10029.      580.       610.       597.
GR   1533.9      9829.     1533.6      9913.     1534.3      9916.     1531.7      9955.     1523.8      9995.
GR    1522.     10000.     1522.5     10010.     1524.8     10015.     1526.5     10029.     1529.5     10115.

QT      2.       1700.      1700.
ET                           4.1      9967.     10064.
X1   26.372       14.       9966.     10080.      600.       510.       565.
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GR   1558.5     9909.    1544.2     9928.    1535.7     9945.    1531.6     9966.    1528.4     9981.
GR   1525.9     9990.    1523.9     9995.    1523.8    10000.    1527.3    10016.    1526.6    10034.
GR   1529.9    10055.    1533.8    10080.    1534.6    10100.    1535.5    10116.

QT      2.     1600.     1600.
ET                         4.1     9955.    10045.
X1  26.492       17.     9866.    10084.      640.      610.      634.
GR   1539.5     9819.    1538.5     9851.    1537.5     9866.    1533.3     9880.    1530.9     9891.
GR   1530.2     9920.    1527.7     9953.    1525.8     9972.    1525.8     9994.    1525.7    10000.
GR   1526.2    10019.    1528.4    10039.    1530.4    10062.    1534.8    10078.     1536.    10084.
GR   1536.4    10097.    1537.1    10100.

NC    0.04      0.04      0.03
QT      2.     1300.     1300.
ET                         4.1     9945.    10025.
X1  26.582       37.     9869.    10028.      460.      480.      475.
GR   1538.6     9388.    1538.3     9411.     1535.     9445.    1532.2     9471.    1530.3     9493.
GR   1526.4     9510.    1525.5     9519.    1525.3     9539.    1526.3     9568.    1526.5     9602.
GR   1527.2     9622.    1526.7     9655.    1527.3     9691.    1526.9     9725.    1527.2     9752.
GR   1527.4     9786.    1528.1     9817.    1527.9     9845.    1528.2     9869.    1526.9     9894.
GR   1524.1     9911.    1524.9     9937.    1525.2     9958.    1525.6     9983.    1525.7    10000.
GR    1526.    10014.    1527.2    10028.    1526.4    10047.    1527.2    10086.    1526.5    10123.
GR   1526.8    10140.    1528.8    10157.    1528.8    10176.    1533.8    10195.    1536.6    10211.
GR   1536.7    10224.    1537.5    10226.

ET                         4.1     9970.    10030.
X1  26.673       44.     9955.    10077.      510.      460.      480.
X3     10.                                                                 1535.
GR   1549.8     9490.    1541.8     9544.    1534.8     9585.    1533.1     9600.    1531.8     9629.
GR   1530.8     9656.    1530.5     9681.    1530.5     9715.    1530.5     9748.    1531.1     9773.
GR   1532.3     9803.    1532.9     9829.    1532.6     9851.    1532.1     9868.    1532.7     9898.
GR   1532.9     9922.    1532.6     9944.    1534.3     9955.    1532.6     9970.    1532.7     9988.
GR   1532.8    10000.    1531.8    10013.    1532.6    10023.    1532.2    10047.    1531.9    10061.
GR   1533.2    10077.    1533.2    10105.    1534.5    10130.    1536.4    10141.    1537.8    10149.
GR   1537.4    10165.    1536.9    10192.    1533.6    10205.    1533.2    10237.    1533.2    10265.
GR   1534.2    10285.    1534.8    10304.    1535.1    10331.    1535.6    10348.    1539.7    10359.
GR   1539.2    10378.    1539.9    10387.     1552.    10411.    1550.3    10420.
1
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QT      2.     1100.     1100.
ET                         4.1     9981.    10031.
X1  26.784       29.     9975.    10080.      590.      530.      586.
GR   1556.2     9628.    1553.4     9629.    1551.5     9652.    1550.5     9674.    1549.6     9695.
GR   1548.7     9721.    1549.2     9749.    1548.9     9783.    1549.4     9822.    1549.5     9859.
GR   1549.4     9898.    1549.7     9925.    1550.7     9951.    1551.2     9975.    1542.7     9985.
GR   1543.2    10000.    1544.4    10019.    1545.4    10045.    1550.2    10069.    1551.5    10080.
GR   1550.8    10091.     1551.    10110.     1551.    10132.    1550.9    10150.     1551.    10162.
GR   1552.5    10191.    1552.7    10228.     1552.    10271.    1551.9    10279.

QT      2.     1000.     1000.
ET                         4.1     9975.    10025.
X1  26.883       21.     9773.    10122.      530.      500.      523.
GR   1555.5     9726.    1549.5     9759.    1544.7     9773.     1542.     9791.    1540.1     9803.
GR   1540.1     9895.    1540.1    10000.    1540.1    10062.    1540.6    10074.    1541.3    10093.
GR   1542.8    10122.    1542.6    10148.    1542.5    10166.    1544.1    10179.    1546.3    10194.
GR    1549.    10209.    1553.7    10235.    1555.3    10255.    1557.4    10265.    1557.4    10279.
GR   1556.2    10282.

QT      2.      900.      900.
ET                         4.1     9975.    10025.
X1  26.984       32.     9943.    10170.      480.      460.      533.
GR   1560.6     9811.    1559.7     9833.    1557.2     9861.    1554.5     9891.    1549.4     9920.
GR   1545.5     9943.    1543.8     9953.    1542.3     9968.    1542.1    10000.    1545.1    10012.
GR   1540.6    10023.    1540.6    10107.    1540.6    10124.    1541.7    10135.    1540.5    10147.
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GR    154[illegible]    10156.    1546.5    10170.    1547.3    10189.    [illegible]47.5    10203.    1547.7    10218.
GR    1546.7    10231.    1543.5    10241.    1542.8    10256.    1542.3    10271.    1542.3    10282.
GR    1544.6    10290.    1543.4    10300.    1543.3    10310.    1544.8    10323.    1545.3    10333.
GR    1558.9    10356.    1551.6    10369.

ET                          4.1    9883.7    10013.1
X1    27.060       33.    9980.    10019.       270.       470.       401.
X3       10.                                                                  1565.
GR    1566.5     9583.    1559.9     9608.    1557.5     9614.    1557.6     9617.    1560.3     9624.
GR    1560.6     9643.    1560.9     9670.    1559.8     9683.    1559.6     9706.     1560.     9720.
GR    1559.4     9740.    1559.5     9772.    1560.4     9795.     1560.     9824.    1558.8     9852.
GR    1558.7     9879.    1558.9     9895.    1558.5     9911.    1559.2     9940.     1560.     9954.
GR    1559.7     9963.    1560.6     9967.    1560.8     9980.    1554.6     9997.    1554.1    10000.
GR    1555.1    10005.    1562.6    10019.    1562.2    10040.    1562.1    10056.    1563.4    10068.
GR    1565.2    10081.     1566.    10093.    1563.9    10103.

QT       2.       600.     600.
ET                          4.1    9881.1    10020.
X1    27.166       36.    9977.    10023.       560.       560.       560.
X3       10.                                                          1565.     1565.
GR     1572.     9622.    1572.2     9639.    1571.5     9661.    1569.4     9686.    1568.5     9709.
GR    1568.1     9719.    1568.4     9730.    1567.4     9742.    1567.1     9762.    1567.9     9772.
GR    1568.8     9787.    1567.6     9811.    1566.7     9830.     1566.     9847.    1562.3     9858.
GR    1558.7     9868.    1557.6     9870.    1558.4     9872.    1560.6     9875.    1560.9     9884.
GR    1560.9     9911.    1560.8     9943.    1560.7     9955.    1564.2     9963.    1564.2     9977.
GR    1555.2     9995.    1555.2    10000.    1555.2    10008.    1563.9    10023.    1563.9    10038.
GR    1561.1    10043.    1561.1    10067.    1560.8    10098.    1560.9    10129.    1561.5    10142.
GR    1562.8    10146.
1
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SECTION 27.294 IS NEAR THE DOWNSTREAM OUTLET OF CAVE BUTTE DAM.

```
QT       2.       400.     400.
ET                          4.1     9972.    10022.2
X1    27.294       26.    9967.    10027.       710.       630.       676.
GR    1591.6     9811.    1589.8     9827.    1587.9     9839.    1589.7     9851.    1588.2     9870.
GR    1585.6     9883.    1584.2     9888.    1584.4     9900.    1583.9     9914.    1568.3     9948.
GR    1565.9     9954.    1565.2     9967.    1558.3     9980.    1557.2     9984.    1556.2     9987.
GR     1556.    10000.     1556.    10007.    1564.6    10027.    1565.6    10037.     1573.    10054.
GR    1572.8    10074.    1573.4    10093.     1574.    10112.     1575.    10135.    1575.4    10163.
GR    1575.6    10171.
```

THE CENTERLINE OF CAVE BUTTE DAM IS AT RM 27.365.

FOLLOWING IS THE TRUBUTARY RUN FOR THE EAST FORK OF CAVE CREEK.

SECTION 19.56 IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST FORK. THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE EAST FORK OF CAVE CREEK. THE CONFLUENCE OCCURS AT RM 19.608

```
NC    0.035     0.035     0.035       0.1       0.3
QT       2.    14600.    14600.
ET                          4.1   9921.37    10061.
X1   -19.56       17.    9929.    10065.       730.       720.       729.
GR    1346.1     9801.    1329.7     9902.    1329.7     9929.    1316.5     9950.    1316.8     9978.
GR    1315.6    10000.    1315.6    10008.    1316.6    10026.    1316.4    10035.    1317.5    10043.
GR    1330.6    10065.    1330.8    10099.    1330.5    10146.    1330.2    10195.    1330.9    10208.
GR    1331.2    10223.    1332.1    10301.
```

SECTION 0.029 IS JUST UPSTREAM OF THE CONFLUENCE WITH CAVE CREEK

WASH. SECTION 19.556 DOWNSTREAM IN THE WASH IS USED TO START THE RUN ON THE EAST FORK.

```
QT       2.       9500.      9500.
NC     0.035      0.035      0.015
ET                           4.1     9942.56    10073.1
X1     0.029        15.      9942.    10043.       380.      450.      430.
GR    1336.7      9849.     1332.4     9893.     1329.5     9942.    1326.3     9954.    1326.3     9963.
GR    1319.8      9982.     1319.6     9995.     1319.6    10000.    1319.6    10019.    1328.2    10043.
GR     1330.     10090.     1330.3    10128.     1332.4    10166.    1333.1    10216.    1333.1    10217.

NC     0.035      0.035      0.03
ET                           4.1      9905.     10092.
X1     0.112        22.      9887.    10101.       430.      450.      483.
GR    1357.6      9597.     1333.1     9743.     1332.6     9804.     1332.     9816.    1331.8     9863.
GR    1332.1      9887.     1329.4     9906.     1329.4     9915.    1323.4     9937.    1322.3     9949.
GR    1321.5      9985.     1321.6     9999.     1321.6    10000.     1322.    10037.    1323.2    10049.
GR    1329.3     10076.     1334.8    10101.     1334.8    10139.    1333.4    10214.    1334.8    10286.
1
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GR    1334.5     10320.     1334.5    10321.

ET                           4.1      9910.     10110.
X1     0.198        26.      9897.    10133.       460.      420.      454.
GR    1334.8      9569.     1336.5     9570.     1335.1     9591.    1335.7     9694.    1333.8     9754.
GR    1333.3      9863.     1332.4     9897.     1329.4     9916.    1325.5     9937.    1323.8     9965.
GR    1324.5      9981.     1324.8     9999.     1324.8    10000.    1324.1    10044.    1324.5    10058.
GR    1328.8     10085.     1328.8    10093.     1336.3    10122.    1337.8    10133.     1336.    10138.
GR    1337.3     10170.     1337.1    10262.      1337.    10356.    1345.1    10370.    1337.1    10382.
GR    1336.7     10417.

ET                           4.1      9903.     10054.
X1     0.288        20.      9885.    10069.       470.      460.      475.
GR    1338.2      9550.     1337.6     9684.     1336.1     9733.    1336.9     9848.     1336.     9885.
GR    1328.9      9933.     1326.6     9954.     1325.9     9978.    1325.7    10000.    1328.5    10026.
GR    1335.9     10069.     1335.9    10078.     1336.7    10089.    1336.2    10101.     1338.    10213.
GR    1339.6     10443.     1347.3    10459.      1341.    10472.    1341.9    10485.    1339.9    10517.

ET                           4.1      9912.     10094.
X1     0.398        19.      9904.    10119.       600.      540.      581.
GR    1340.2      9739.     1340.7     9804.     1339.3     9843.    1338.9     9904.    1330.2     9949.
GR    1329.4      9979.     1328.8    10000.     1329.7    10061.    1338.1    10098.    1338.1    10105.
GR    1340.6     10119.     1338.4    10126.     1338.6    10168.    1340.5    10175.    1339.9    10190.
GR    1339.7     10352.     1339.2    10456.     1339.5    10478.    1339.8    10533.

ET                           4.1      9904.     10175.
X1     0.482        20.      9937.    10024.       440.      270.      444.
GR     1347.      9903.     1341.4     9904.     1341.1     9937.    1337.1     9953.    1333.4     9962.
GR    1331.2      9988.     1331.3    10000.     1331.3    10008.     1338.    10024.    1340.8    10093.
GR    1340.9     10125.     1341.6    10161.     1340.4    10236.    1341.6    10256.     1340.    10291.
GR    1341.1     10315.     1340.9    10402.     1341.5    10528.    1341.5    10640.     1343.    10910.

ET                           4.1      9870.     10080.
X1     0.575        19.      9869.    10049.       460.      500.      491.
GR     1348.      9777.     1342.8     9778.     1340.2     9869.    1337.1     9896.    1341.1     9944.
GR    1337.8      9977.     1331.7     9990.     1331.5     9997.    1331.5    10000.     1332.    10011.
GR    1338.9     10023.     1343.1    10049.     1342.5    10105.    1343.5    10113.    1342.9    10186.
GR    1341.8     10239.      1342.    10274.     1343.2    10411.    1345.4    10755.

QT       2.       9400.      9400.
ET                           4.1      9875.     10035.
X1     0.697        16.      9847.    10023.       640.      640.      644.
GR    1346.4      9847.     1345.3     9855.     1338.8     9882.    1338.1     9888.     1339.     9900.
GR    1340.4      9912.     1343.4     9919.     1341.4     9921.    1339.9     9950.    1334.9     9967.
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GR   133[illegible]   10000.    1334.    10007.    1341.4    10023.    [illegible]43.8    10061.    1345.4    10102.
GR   134[illegible]   10237.

NC    0.035     0.035     0.035
ET                        4.1     9880.    10040.
X1    0.826       11.     9929.   10050.     680.      660.      681.
GR   1349.5     9815.    1346.4    9893.   1345.5     9929.   1342.7     9969.    1338.8     9974.
GR   1338.8     9988.    1338.8   10000.   1339.2    10009.   1349.5    10050.    1350.1    10066.
GR    1351.    10219.
1
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ET                        4.1     9870.    10030.
X1    0.945       20.     9856.   10034.     680.      600.      628.
GR   1352.7     9469.    1352.6    9548.   1351.8     9674.   1351.8     9704.     1349.     9769.
GR   1349.8     9819.    1349.5    9843.   1348.6     9856.   1345.5     9866.    1346.8     9929.
GR   1347.7     9956.    1340.4    9978.   1340.8    10000.   1340.8    10008.    1349.5    10034.
GR   1350.1    10046.    1350.1   10100.   1352.8    10215.   1353.4    10254.     1353.    10284.

ET                        4.1     9870.    10030.
X1    1.035       22.     9841.   10022.     440.      460.      475.
GR    1354.     9670.    1350.5    9723.   1352.3     9776.    1352.     9795.    1348.6     9823.
GR   1348.4     9832.    1350.8    9841.   1348.1     9844.   1349.2     9871.    1349.4     9908.
GR   1345.9     9921.    1348.6    9941.   1348.1     9948.   1343.9     9966.    1343.3     9983.
GR   1342.3     9992.    1341.9   10000.   1348.8    10022.   1351.2    10046.    1352.5    10059.
GR   1352.4    10100.     1353.   10153.

NC     0.04      0.04      0.04
ET                        4.1     9890.    10050.
X1    1.121       19.     9868.   10069.     480.      440.      454.
GR   1355.2     9850.     1355.    9868.   1348.4     9897.   1346.1     9910.    1345.9     9931.
GR   1346.4     9955.    1345.1    9966.   1343.6     9994.   1343.6    10000.    1348.1    10015.
GR   1348.8    10036.    1350.6   10048.   1351.1    10059.   1353.6    10069.    1354.1    10082.
GR   1354.2    10121.     1355.   10134.   1355.1    10173.    1355.    10175.

ET                        4.1     9950.    10110.
X1    1.204       16.     9949.   10043.     430.      450.      438.
GR   1355.4     9930.    1355.6    9949.   1348.3     9964.   1348.3     9978.    1344.3     9991.
GR   1344.3     9995.    1344.8   10000.   1348.3    10027.   1352.5    10043.    1353.8    10057.
GR   1353.7    10072.    1353.5   10098.   1354.2    10165.   1356.1    10178.    1355.8    10262.
GR   1356.3    10334.

QT       2.     9100.     9100.
ET                        4.1     9905.    10060.
X1    1.315       17.     9904.   10074.     720.      700.      734.
GR   1359.7     9904.    1352.7    9916.   1350.3     9931.   1348.8    10000.    1351.1    10012.
GR   1351.6    10028.    1353.4   10043.   1353.4    10056.   1356.5    10064.     1359.    10074.
GR   1357.8    10085.     1358.   10091.    1358.    10130.    1352.    10150.     1352.    10170.
GR    1358.    10230.     1360.   10240.

NC    0.035     0.035     0.025
ET                        4.1     9895.    10085.
X1    1.420        9.     9895.   10085.     380.      420.      407.
GR    1364.     9860.     1362.    9870.    1360.     9895.    1356.     9910.    1354.9    10000.
GR    1356.    10070.     1360.   10085.    1362.    10100.    1364.    10120.
1
   14APR06      10:33:57                                                                          PAGE   28

   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST
```

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*PROF 1
0

CCHV=      .100 CEHV=      .300
*SECNO 17.588
    17.588      14.09   1283.69       .00   1283.69   1284.02       .33       .00       .00   1278.10
   15400.0     3410.6   11671.0     318.3    1017.0    2337.7     133.8        .0        .0   1276.40
       .00       3.35      4.99      2.38      .040      .040      .040      .000   1269.60   9777.93
   .000750       440.      496.      560.         0         0         0       .00    451.78  10229.71

FLOW DISTRIBUTION FOR SECNO=     17.59          CWSEL=   1283.69

STA=     9778.     9835.     9854.     9873.     9909.     9982.    10193.    10230.
  PER Q=       6.7       5.2       4.0       3.9       2.5      75.8       2.1
   AREA=     307.3     177.5     152.8     192.6     187.0    2337.7     133.8
    VEL=       3.3       4.5       4.0       3.1       2.0       5.0       2.4
  DEPTH=       5.4       9.3       8.0       5.3       2.6      11.1       3.6

*SECNO 17.662

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =    .50

    17.662      12.22   1283.82       .00       .00   1284.71       .89       .52       .17   1276.40
   15400.0     3988.7   11364.7      46.6     605.8    1441.9      21.3      24.8       3.4   1281.60
       .01       6.58      7.88      2.19      .040      .040      .040      .000   1271.60   9829.44
   .003036       380.      391.      400.         2         0         0       .00    319.71  10149.15

FLOW DISTRIBUTION FOR SECNO=     17.66          CWSEL=   1283.82

STA=     9829.     9835.     9844.     9871.     9911.     9941.    10130.    10149.
  PER Q=        .0        .9       5.6       9.3      10.1      73.8        .3
   AREA=       3.1      30.8     139.7     223.0     209.2    1441.9      21.3
    VEL=       1.4       4.3       6.1       6.4       7.5       7.9       2.2
  DEPTH=        .6       3.4       5.2       5.6       7.0       7.6       1.1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 17.783

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =    .66

    17.783      10.18   1285.58       .00       .00   1287.86      2.28      2.74       .42   1280.50
   15400.0      296.5   14381.2     722.3      52.5    1157.6     106.7      48.6       7.0   1281.10
       .03       5.65     12.42      6.77      .040      .040      .040      .000   1275.40   9900.35
   .006939       540.      639.      500.         3         0         0       .00    201.37  10101.72

FLOW DISTRIBUTION FOR SECNO=     17.78          CWSEL=   1285.58

STA=     9900.     9921.    10064.    10074.    10097.    10102.
  PER Q=       1.9      93.4       2.4       2.3        .0
```

AREA=	52.5	1157.6	43.8	60.5	2.3
VEL=	5.7	12.4	8.3	5.9	1.9
DEPTH=	2.5	8.1	4.4	2.6	.5

*SECNO 17.932

3301 HV CHANGED MORE THAN HVINS

17.932	13.08	1290.98	1290.58	.00	1294.60	3.62	6.34	.40	1289.70
15400.0	60.0	15314.7	25.3	22.4	1000.3	10.3	69.9	10.3	1290.20
.04	2.68	15.31	2.46	.040	.040	.040	.000	1277.90	9921.07
.009453	790.	787.	780.	5	11	0	.00	164.24	10085.31

FLOW DISTRIBUTION FOR SECNO= 17.93 CWSEL= 1290.98

STA=	9921.	9956.	10066.	10083.	10085.
PER Q=	.4	99.4	.2	.0	
AREA=	22.4	1000.3	9.9	.4	
VEL=	2.7	15.3	2.5	1.2	
DEPTH=	.6	9.1	.6	.2	

CCHV= .300 CEHV= .500

1

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 18.042

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

18.042	12.01	1294.31	.00	.00	1298.14	3.83	3.43	.10	1307.40
15400.0	.0	15400.0	.0	.0	980.7	.0	83.3	12.1	1307.40
.05	.00	15.70	.00	.000	.025	.000	.000	1282.30	9951.61
.004040	620.	581.	550.	4	0	0	.00	96.76	10048.37

FLOW DISTRIBUTION FOR SECNO= 18.04 CWSEL= 1294.31

STA=	9952.	10049.
PER Q=	100.0	
AREA=	980.7	
VEL=	15.7	
DEPTH=	10.1	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	.00	75.00	4.00	1059.00	.81	1280.20	1279.90

*SECNO 18.061

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1299.43	1299.04	1.15	0.	15400.	1059.	1060.	1293.20	1301.60	0.

```
   18.061      13.34   1296.44       .00       .00   1299.43      2.99      1.29       .00   1308.20
  15400.0         .0   15400.0        .0        .0    1109.9        .0      85.7      12.3   1308.20
      .06        .00     13.88       .00      .000      .025      .000      .000   1283.10   9951.54
  .002757       101.      101.      101.         4         0         0       .00     96.89  10048.43

FLOW DISTRIBUTION FOR SECNO=     18.06          CWSEL=   1296.44
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

STA=    9952.    10049.
  PER Q=    100.0
   AREA=   1109.9
    VEL=     13.9
  DEPTH=     11.5

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.03

   18.081      18.44   1299.54       .00       .00   1300.24       .71       .13       .69   1286.60
  15400.0     1235.5   12528.7    1635.8     321.6    1737.8     383.5      90.0      12.7   1284.90
      .06       3.84      7.21      4.27      .035      .035      .035      .000   1281.10   9876.94
  .000672        80.      106.      130.         3         0         0       .00    229.58  10106.51

FLOW DISTRIBUTION FOR SECNO=     18.08          CWSEL=   1299.54

STA=    9877.    9899.    9942.   10045.   10088.   10107.
  PER Q=       .1      7.9     81.4     10.5       .2
   AREA=     14.7    306.9   1737.8    362.8     20.7
    VEL=       .8      4.0      7.2      4.4      1.2
  DEPTH=       .7      7.1     16.9      8.4      1.1

CCHV=     .100 CEHV=     .300
*SECNO 18.174
   18.174      18.52   1300.22       .00       .00   1300.52       .30       .24       .04   1288.70
  15400.0     1569.9   11409.1    2421.0     475.1    2330.4    1163.1     126.2      17.3   1294.60
      .09       3.30      4.90      2.08      .035      .035      .035      .000   1281.70   9856.87
  .000364       500.      491.      490.         2         0         0       .00    597.84  10454.71

FLOW DISTRIBUTION FOR SECNO=     18.17          CWSEL=   1300.22

STA=    9857.    9904.    9915.    9919.   10073.   10142.   10182.   10236.   10455.
  PER Q=      5.0      3.9      1.3     74.1      4.6      4.8      4.1      2.3
   AREA=    288.0    138.3     48.9   2330.4    313.6    260.8    268.3    320.4
    VEL=      2.6      4.4      4.1      4.9      2.2      2.8      2.4      1.1
  DEPTH=      6.1     12.6     12.2     15.1      4.5      6.5      5.0      1.5
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 18.269

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

18.269	16.37	1300.17	.00	.00	1300.93	.76	.27	.14	1288.40
15400.0	2261.7	12456.3	682.0	445.5	1677.2	198.9	162.4	22.1	1292.40
.11	5.08	7.43	3.43	.035	.035	.035	.000	1283.80	9881.86
.000901	500.	502.	500.	2	0	0	.00	228.73	10110.59

FLOW DISTRIBUTION FOR SECNO= 18.27 CWSEL= 1300.17

STA=	9882.	9928.	9942.	10060.	10071.	10111.
PER Q=	7.5	7.2	80.9	2.3	2.1	
AREA=	278.5	166.9	1677.2	76.7	122.2	
VEL=	4.1	6.7	7.4	4.6	2.7	
DEPTH=	6.0	11.9	14.2	7.0	3.1	

*SECNO 18.362

18.362	15.24	1300.54	.00	.00	1301.51	.97	.51	.06	1290.00
15400.0	1154.3	13225.2	1020.5	240.2	1585.2	239.3	187.2	24.6	1290.60
.13	4.80	8.34	4.26	.035	.035	.035	.000	1285.30	9895.20
.001223	490.	491.	510.	2	0	0	.00	212.97	10108.18

FLOW DISTRIBUTION FOR SECNO= 18.36 CWSEL= 1300.54

STA=	9895.	9905.	9942.	10060.	10108.
PER Q=	.1	7.4	85.9	6.6	
AREA=	9.5	230.7	1585.2	239.3	
VEL=	1.4	4.9	8.3	4.3	
DEPTH=	1.0	6.2	13.4	5.0	

*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

18.445	18.09	1305.39	1305.39	.00	1307.48	2.09	.94	.34	1290.00
15400.0	5165.6	3758.3	6476.1	569.9	217.6	715.8	205.8	27.8	1290.00
.14	9.06	17.27	9.05	.035	.035	.035	.000	1287.30	9885.22
.004315	470.	440.	460.	20	11	0	.00	386.47	10271.68

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 18.44 CWSEL= 1305.39

STA=	9885.	9920.	9978.	9992.	10005.	10040.	10060.	10097.	10200.	10272.
PER Q=	3.3	18.8	11.5	24.4	30.6	4.3	3.9	3.2	.1	
AREA=	93.8	327.2	149.0	217.6	363.7	87.8	107.0	143.3	14.0	

VEL=	5.4	8.8	11.9	17.3	12.9	7.5	5.7	3.5	.9
DEPTH=	2.7	5.6	10.6	16.7	10.4	4.4	2.9	1.4	.2

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	2.34	3.00	.00	6.11	1.00	33.20	.00	1287.70	1287.40

*SECNO 18.456

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.46

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
9123.38	1308.44	.96	15108.	298.	33.	33.	1294.20	1299.50	458.

18.456	19.61	1307.31	.00	.00	1308.31	1.00	.83	.00	1290.40
15400.0	5168.4	2970.6	7261.0	741.4	237.5	1182.5	208.3	28.3	1290.40
.14	6.97	12.51	6.14	.035	.035	.035	.000	1287.70	9873.21
.002014	60.	60.	60.	3	0	8	.00	443.73	10316.94

FLOW DISTRIBUTION FOR SECNO= 18.46 CWSEL= 1307.31

STA=	9873.	9880.	9920.	9978.	9992.	10005.	10040.	10060.	10097.	10200.	10310.	10317.
PER Q=	.0	4.6	19.1	9.8	19.3	26.2	4.8	5.4	7.6	3.0	.0	
AREA=	2.4	152.8	415.8	170.4	237.5	417.2	118.4	163.5	300.7	178.1	4.6	
VEL=	1.0	4.6	7.1	8.9	12.5	9.7	6.2	5.1	3.9	2.6	1.4	
DEPTH=	.4	3.8	7.2	12.2	18.3	11.9	5.9	4.4	2.9	1.6	.7	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.09

18.545	18.98	1308.28	.00	.00	1308.76	.47	.39	.05	1294.10
15400.0	1745.2	11300.0	2354.7	495.0	1857.3	682.4	236.0	32.3	1293.80
.17	3.53	6.08	3.45	.035	.035	.035	.000	1289.30	9881.31
.000460	440.	466.	480.	2	0	0	.00	288.68	10169.98

FLOW DISTRIBUTION FOR SECNO= 18.55 CWSEL= 1308.28

STA=	9881.	9889.	9951.	10058.	10073.	10094.	10108.	10121.	10135.	10170.
PER Q=	.0	11.3	73.4	5.4	4.8	1.9	1.0	1.1	1.0	
AREA=	6.1	488.9	1857.3	179.8	188.7	93.6	60.3	67.7	92.4	
VEL=	.8	3.6	6.1	4.6	3.9	3.2	2.5	2.6	1.7	

```
  DEPTH=      .8      7.9     17.4     12.0      9.0      6.7      4.6      4.8      2.6

*SECNO 18.575
    18.575     19.13   1308.43      .00      .00  1308.83      .41      .07      .01  1291.50
   15400.0    3584.2    3152.3   8663.5    833.2    511.1   1731.9    247.2     33.3  1289.70
       .18      4.30      6.17     5.00     .035     .035     .035     .000  1289.30  9880.61
   .000442      160.      160.     160.        2        0        0      .00   290.32 10170.93

FLOW DISTRIBUTION FOR SECNO=     18.58          CWSEL=   1308.43

STA=    9881.    9951.    9972.   10000.   10018.   10040.   10058.   10073.   10094.   10135.   10171.
  PER Q=     11.4     11.8     20.5     13.8     16.2     10.8      5.4      4.8      4.1      1.1
   AREA=    505.0    328.2    511.1    337.1    403.2    293.0    181.9    191.7    227.4     97.5
    VEL=      3.5      5.5      6.2      6.3      6.2      5.7      4.5      3.9      2.8      1.7
  DEPTH=      7.2     15.6     18.3     18.7     18.3     16.3     12.1      9.1      5.5      2.7
1
   14APR06      10:33:57                                                                          PAGE    35

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

SPECIAL BRIDGE

SB  XK        XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.25      1.56       3.00        .00      10.40       1.00      56.50       .00    1289.40    1289.30

*SECNO 18.583
PRESSURE AND WEIR FLOW,  Weir Submergence Based on TRAPEZOIDAL Shape

 EGPRS      EGLWC      H3         QWEIR      QPR        BAREA      TRAPEZOID  ELLC       ELTRD      WEIRLN
                                                                    AREA
  3108.06   1308.92       .09    14974.      431.       57.        56.        1295.40    1299.00    288.

   18.583     20.10   1309.50      .00       .00  1309.84      .34      1.00      .00  1291.60
  15400.0    3685.4    3046.3   8668.3    924.1    538.2   1900.7    250.2     33.6  1289.80
      .18      3.99      5.66     4.56     .035     .035     .035     .000  1289.40  9875.91
  .000347      40.       40.      40.        2        0        7      .00   301.44 10177.35

FLOW DISTRIBUTION FOR SECNO=     18.58          CWSEL=   1309.50

STA=    9876.    9951.    9972.   10000.   10018.   10040.   10058.   10073.   10094.   10121.   10177.
  PER Q=     12.3     11.6     19.8     13.3     15.7     10.5      5.4      5.1      3.4      2.9
   AREA=    575.5    348.5    538.2    354.6    424.5    310.5    196.5    212.0    183.9    218.7
    VEL=      3.3      5.1      5.7      5.8      5.7      5.2      4.2      3.7      2.8      2.0
  DEPTH=      7.7     16.6     19.2     19.7     19.3     17.2     13.1     10.1      6.8      3.9

*SECNO 18.640
   18.640     19.23   1309.43      .00      .00  1310.07      .64      .14      .09  1294.60
  15400.0    2345.6    9850.5   3203.9    512.4   1350.9    710.6    271.0     35.5  1293.40
      .19      4.58      7.29     4.51     .035     .035     .035     .000  1290.20  9879.37
  .000663      300.      301.     310.        2        0        0      .00   255.52 10134.89

FLOW DISTRIBUTION FOR SECNO=     18.64          CWSEL=   1309.43

STA=    9879.    9887.    9920.    9955.   10033.   10111.   10132.   10135.
  PER Q=        .0      2.3     12.9     64.0     20.6       .2       .0
```

AREA=	3.9	129.6	378.9	1350.9	688.5	21.6	.6
VEL=	.7	2.7	5.3	7.3	4.6	1.1	.4
DEPTH=	.5	3.9	10.8	17.3	8.8	1.0	.2

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
*SECNO 18.734									
18.734	17.28	1309.68	.00	.00	1310.53	.84	.40	.06	1298.60
15400.0	1314.3	13486.7	599.0	303.8	1747.6	174.8	298.3	38.3	1300.80
.21	4.33	7.72	3.43	.035	.035	.035	.000	1292.40	9883.01
.000985	490.	496.	500.	0	0	0	.00	228.83	10111.84

FLOW DISTRIBUTION FOR SECNO= 18.73 CWSEL= 1309.68

STA=	9883.	9888.	9938.	10062.	10094.	10104.	10112.
PER Q=	.0	8.5	87.6	3.7	.1	.1	
AREA=	2.4	301.3	1747.6	152.9	13.8	8.1	
VEL=	.8	4.4	7.7	3.7	1.6	1.3	
DEPTH=	.5	6.0	14.1	4.8	1.4	1.0	

*SECNO 18.832									
18.832	16.99	1310.19	.00	.00	1311.04	.85	.51	.00	1302.80
15400.0	437.5	12951.8	2010.7	137.9	1657.8	397.7	324.5	40.9	1297.10
.23	3.17	7.81	5.06	.035	.035	.035	.000	1293.20	9891.67
.001003	480.	517.	540.	2	0	0	.00	216.17	10107.84

FLOW DISTRIBUTION FOR SECNO= 18.83 CWSEL= 1310.19

STA=	9892.	9929.	10046.	10095.	10108.
PER Q=	2.8	84.1	12.9	.2	
AREA=	137.9	1657.8	381.7	16.0	
VEL=	3.2	7.8	5.2	1.5	
DEPTH=	3.7	14.2	7.8	1.2	

*SECNO 18.925									
18.925	16.04	1310.64	.00	.00	1311.60	.97	.53	.03	1297.60
15400.0	1711.9	12782.4	905.7	348.3	1523.8	210.1	348.6	43.3	1300.00
.25	4.92	8.39	4.31	.035	.035	.035	.000	1294.60	9887.57
.001144	480.	491.	500.	2	0	0	.00	200.07	10087.64

FLOW DISTRIBUTION FOR SECNO= 18.92 CWSEL= 1310.64

STA=	9888.	9941.	10048.	10087.
PER Q=	11.1	83.0	5.9	
AREA=	348.3	1523.8	210.1	
VEL=	4.9	8.4	4.3	
DEPTH=	6.5	14.2	5.4	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19.018

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

19.018	13.29	1310.89	.00	.00	1312.69	1.80	.84	.25	1305.10
15400.0	489.5	14883.1	27.4	106.9	1362.9	10.7	368.5	45.4	1308.40
.26	4.58	10.92	2.56	.035	.035	.035	.000	1297.60	9866.12
.002864	460.	491.	520.	2	0	0	.00	172.44	10038.56

FLOW DISTRIBUTION FOR SECNO= 19.02 CWSEL= 1310.89

STA=	9866.	9903.	10030.	10039.
PER Q=	3.2	96.6	.2	
AREA=	106.9	1362.9	10.7	
VEL=	4.6	10.9	2.6	
DEPTH=	2.9	10.7	1.2	

*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

19.117	13.89	1312.49	1312.49	.00	1316.85	4.37	2.18	.77	1302.90
15400.0	1414.2	11917.8	2068.0	148.6	652.4	198.2	383.4	47.1	1301.50
.27	9.52	18.27	10.43	.035	.035	.035	.000	1298.60	9942.00
.006608	490.	523.	560.	20	8	0	.00	120.09	10062.09

FLOW DISTRIBUTION FOR SECNO= 19.12 CWSEL= 1312.49

STA=	9942.	9973.	10026.	10062.
PER Q=	9.2	77.4	13.4	
AREA=	148.6	652.4	198.2	
VEL=	9.5	18.3	10.4	
DEPTH=	4.8	12.3	5.5	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.61

19.210	16.99	1317.19	.00	.00	1319.01	1.82	1.90	.25	1312.00
15400.0	227.0	14955.2	217.8	57.2	1364.2	55.0	397.4	48.7	1312.00
.28	3.97	10.96	3.96	.035	.035	.035	.000	1300.20	9922.94
.002538	500.	491.	490.	3	0	0	.00	158.26	10081.20

```
FLOW DISTRIBUTION FOR SECNO=     19.21          CWSEL=   1317.19

STA=    9923.    9945.   10060.   10081.
  PER Q=      1.5     97.1      1.4
   AREA=     57.2   1364.2     55.0
    VEL=      4.0     11.0      4.0
  DEPTH=      2.6     11.9      2.6

CCHV=     .300 CEHV=     .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1324.00 ELREA=      1324.00

    19.283      8.22   1319.92   1319.92       .00   1324.04      4.12      1.64      1.15   1311.70
   14600.0        .0   14600.0        .0        .0     896.1        .0     407.9      49.9   1311.70
       .29       .00     16.29       .00      .000      .035      .000      .000   1311.70   9948.00
   .008876      390.      386.      390.        20        11         0       .00    109.00  10057.00


FLOW DISTRIBUTION FOR SECNO=     19.28          CWSEL=   1319.92

STA=    9948.   10057.
  PER Q=    100.0
   AREA=    896.1
    VEL=     16.3
  DEPTH=      8.2

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1318.71 , NOT    1319.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
      .90      1.56       3.00        .00     109.00       4.50    1304.00        .00    1311.70    1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.=    1320.16 BRIDGE VELOCITY=      16.51     CALCULATED CHANNEL AREA=       884.

 EGPRS      EGLWC       H3         QWEIR      QLOW       BAREA      TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                      AREA
   1322.96   1324.65       .00         0.    14600.      1304.      1306.      1324.20    1326.50         0.
```

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1325.00 ELREA= 1325.00

19.299	10.36	1322.06	.00	.00	1324.65	2.60	.61	.00	1311.70
14600.0	.0	14600.0	.0	.0	1128.7	.0	409.9	50.1	1311.70
.29	.00	12.94	.00	.000	.035	.000	.000	1311.70	9948.00
.004112	86.	86.	86.	0	0	0	.00	109.00	10057.00

FLOW DISTRIBUTION FOR SECNO= 19.30 CWSEL= 1322.06

STA= 9948. 10057.
PER Q= 100.0
AREA= 1128.7
VEL= 12.9
DEPTH= 10.4

*SECNO 19.313
1
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

19.313	11.61	1323.31	.00	.00	1325.17	1.87	.30	.22	1327.90
14600.0	.0	14600.0	.0	.0	1330.9	.0	412.0	50.3	1325.50
.29	.00	10.97	.00	.000	.035	.000	.000	1311.70	9944.34
.004073	75.	74.	75.	4	0	0	.00	159.66	10104.00

FLOW DISTRIBUTION FOR SECNO= 19.31 CWSEL= 1323.31

STA= 9944. 10112.
PER Q= 100.0
AREA= 1330.9
VEL= 11.0
DEPTH= 8.3

CCHV= .100 CEHV= .300
*SECNO 19.418

19.418	12.59	1325.59	.00	.00	1327.43	1.83	2.25	.00	1328.00
14600.0	.0	14600.0	.0	.0	1343.4	.0	429.0	52.4	1326.10
.31	.00	10.87	.00	.000	.035	.000	.000	1313.00	9955.11
.004041	570.	554.	530.	2	0	0	.00	162.69	10117.80

FLOW DISTRIBUTION FOR SECNO= 19.42 CWSEL= 1325.59

STA= 9955. 10120.
PER Q= 100.0
AREA= 1343.4
VEL= 10.9
DEPTH= 8.3

*SECNO 19.560

19.560	12.61	1328.21	.00	.00	1330.15	1.94	2.69	.03	1329.70
14600.0	.0	14600.0	.0	.0	1307.1	.0	451.2	54.8	1330.60
.32	.00	11.17	.00	.000	.035	.000	.000	1315.60	9931.38
.003389	730.	729.	720.	2	0	0	.00	129.60	10060.98

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 19.56 CWSEL= 1328.21

STA= 9931. 10065.
PER Q= 100.0
AREA= 1307.1
VEL= 11.2
DEPTH= 10.1

CCHV= .300 CEHV= .500
*SECNO 19.625

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.55

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1332.00 ELREA= 1332.00

19.625	12.29	1329.89	.00	.00	1330.82	.93	.37	.30	1317.60
5700.0	.0	5700.0	.0	.0	737.6	.0	459.7	55.6	1317.60
.34	.00	7.73	.00	.000	.015	.000	.000	1317.60	9965.00
.000214	580.	364.	70.	2	0	0	.00	60.00	10025.00

FLOW DISTRIBUTION FOR SECNO= 19.63 CWSEL= 1329.89

STA= 9965. 10025.
PER Q= 100.0
AREA= 737.6
VEL= 7.7
DEPTH= 12.3

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	60.00	2.00	564.00	.00	1318.60	1317.60

*SECNO 19.691

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1332.37	1331.05	.08	0.	5700.	564.	563.	1328.30	1334.80	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1333.00 ELREA= 1333.00

19.691	12.93	1331.53	.00	.00	1332.37	.84	1.55	.00	1318.60
5700.0	.0	5700.0	.0	.0	775.9	.0	465.8	56.1	1318.60
.35	.00	7.35	.00	.000	.015	.000	.000	1318.60	9965.00
.000181	330.	350.	430.	2	0	0	.00	60.00	10025.00

FLOW DISTRIBUTION FOR SECNO= 19.69 CWSEL= 1331.53

STA= 9965. 10025.
PER Q= 100.0
AREA= 775.9
VEL= 7.3
DEPTH= 12.9

*SECNO 19.742

19.742	12.89	1331.99	.00	.00	1332.51	.52	.05	.10	1331.60
5700.0	.8	5699.0	.2	3.4	985.5	.8	471.3	56.6	1331.00
.36	.23	5.78	.30	.035	.015	.035	.000	1319.10	9935.22
.000165	80.	269.	470.	2	0	0	.00	108.35	10043.57

FLOW DISTRIBUTION FOR SECNO= 19.74 CWSEL= 1331.99

STA= 9935. 9948. 10042. 10044.
PER Q= .0 100.0 .0
AREA= 3.4 985.5 .8
VEL= .2 5.8 .3
DEPTH= .3 10.5 .5

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 19.847

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .36

19.847	13.34	1332.14	.00	.00	1332.73	.59	.20	.02	1336.30
5700.0	.0	5700.0	.0	.0	925.1	.0	483.4	58.0	1335.80
.39	.00	6.16	.00	.000	.035	.000	.000	1318.80	9940.63
.001296	570.	554.	520.	2	0	0	.00	109.85	10050.49

FLOW DISTRIBUTION FOR SECNO= 19.85 CWSEL= 1332.14

STA= 9941. 10062.
PER Q= 100.0
AREA= 925.1
VEL= 6.2
DEPTH= 8.4

*SECNO 19.960

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .39

19.960	7.77	1332.37	1332.22	.00	1334.93	2.55	1.61	.59	1330.00
5700.0	38.9	5629.3	31.8	9.0	436.7	7.5	492.9	59.3	1330.00
.40	4.31	12.89	4.25	.035	.035	.035	.000	1324.60	9950.40
.008699	640.	597.	560.	4	11	0	.00	86.88	10037.28

FLOW DISTRIBUTION FOR SECNO= 19.96 CWSEL= 1332.37

STA=	9950.	9958.	10031.	10037.
PER Q=	.7	98.8	.6	
AREA=	9.0	436.7	7.5	
VEL=	4.3	12.9	4.3	
DEPTH=	1.2	6.0	1.2	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500
*SECNO 19.974

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.51

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1336.00 ELREA= 1336.00

19.974	9.51	1333.31	.00	.00	1335.46	2.14	.41	.12	1323.80
5700.0	.0	5700.0	.0	.0	485.1	.0	493.7	59.4	1323.80
.40	.00	11.75	.00	.000	.035	.000	.000	1323.80	9969.00
.003800	105.	74.	65.	3	0	0	.00	51.00	10020.00

FLOW DISTRIBUTION FOR SECNO= 19.97 CWSEL= 1333.31

STA=	9969.	10020.
PER Q=	100.0	
AREA=	485.1	
VEL=	11.8	
DEPTH=	9.5	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	51.00	3.00	480.00	.00	1324.10	1323.80

*SECNO 19.986

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1336.73	1336.01	.92	0.	5700.	480.	480.	1334.10	1337.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1337.00 ELREA= 1337.00

19.986	11.45	1335.25	.00	.00	1336.73	1.48	1.27	.00	1323.80
5700.0	.0	5700.0	.0	.0	584.0	.0	494.4	59.5	1323.80
.40	.00	9.76	.00	.000	.035	.000	.000	1323.80	9969.00
.002047	61.	61.	61.	3	0	0	.00	51.00	10020.00

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 19.99 CWSEL= 1335.25

STA= 9969. 10020.
PER Q= 100.0
AREA= 584.0
VEL= 9.8
DEPTH= 11.5

*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1340.00 ELREA= 1339.40

20.049	11.25	1338.35	1338.35	.00	1341.90	3.54	1.32	1.03	1343.40
5700.0	.0	5700.0	.0	.0	377.3	.0	498.1	59.9	1339.40
.41	.00	15.11	.00	.000	.035	.000	.000	1327.10	9971.56
.010738	305.	333.	345.	20	8	0	.00	53.63	10025.19

FLOW DISTRIBUTION FOR SECNO= 20.05 CWSEL= 1338.35

STA= 9972. 10027.
PER Q= 100.0
AREA= 377.3
VEL= 15.1
DEPTH= 7.0

CCHV= .100 CEHV= .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.69

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1344.00 ELREA= 1340.80

20.144	12.58	1343.48	.00	.00	1345.07	1.58	2.97	.20	1344.60
5700.0	.0	5588.6	111.4	.0	548.7	32.7	503.6	60.7	1340.80
.42	.00	10.19	3.41	.000	.035	.040	.000	1330.90	9960.58
.003744	490.	502.	500.	2	0	0	.00	83.94	10044.51

FLOW DISTRIBUTION FOR SECNO= 20.14 CWSEL= 1343.48

STA=	9961.	10025.	10040.	10045.
PER Q=	98.0	1.9	.1	
AREA=	548.7	29.8	2.9	
VEL=	10.2	3.6	1.6	
DEPTH=	8.5	2.0	.6	

*SECNO 20.242

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1348.00 ELREA= 1342.80

20.242	12.19	1345.49	.00	.00	1347.06	1.57	1.99	.00	1347.20
5700.0	.0	5546.3	153.7	.0	545.0	40.2	510.6	61.7	1342.80
.44	.00	10.18	3.83	.000	.035	.040	.000	1333.30	9961.30
.003942	470.	517.	560.	3	0	0	.00	88.68	10049.98

FLOW DISTRIBUTION FOR SECNO= 20.24 CWSEL= 1345.49

STA=	9961.	10029.	10041.	10050.
PER Q=	97.3	2.2	.5	
AREA=	545.0	29.9	10.3	
VEL=	10.2	4.3	2.5	
DEPTH=	8.1	2.5	1.1	

*SECNO 20.335

20.335	10.14	1347.44	.00	.00	1348.61	1.17	1.51	.04	1344.00
5700.0	31.7	5639.2	29.1	12.8	646.3	11.8	517.7	62.7	1344.00
.46	2.48	8.72	2.46	.040	.035	.040	.000	1337.30	9950.57
.002469	510.	491.	470.	2	0	0	.00	88.31	10038.88

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 20.33 CWSEL= 1347.44

STA=	9951.	9958.	10032.	10039.
PER Q=	.6	98.9	.5	
AREA=	12.8	646.3	11.8	
VEL=	2.5	8.7	2.5	
DEPTH=	1.7	8.7	1.7	

CCHV= .300 CEHV= .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1351.50 ELREA= 1351.50

20.347	10.04	1347.24	.00	.00	1349.16	1.92	.18	.38	1337.20
5700.0	.0	5700.0	.0	.0	512.0	.0	518.5	62.8	1337.20
.46	.00	11.13	.00	.000	.035	.000	.000	1337.20	9970.00
.003174	1.	63.	150.	2	0	0	.00	51.00	10021.00

FLOW DISTRIBUTION FOR SECNO= 20.35 CWSEL= 1347.24

STA= 9970. 10021.
PER Q= 100.0
AREA= 512.0
VEL= 11.1
DEPTH= 10.0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1337.70	1337.20

*SECNO 20.366
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1347.00 BRIDGE VELOCITY= 12.43 CALCULATED CHANNEL AREA= 446.

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1349.64	.73	0.	5700.	576.	576.	1349.70	1354.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.366	10.77	1347.97	.00	.00	1349.64	1.67	.48	.00	1337.20
5700.0	.0	5700.0	.0	.0	549.1	.0	519.7	63.0	1337.20
.46	.00	10.38	.00	.000	.035	.000	.000	1337.20	9970.00
.002515	100.	100.	100.	0	0	0	.00	51.00	10021.00

FLOW DISTRIBUTION FOR SECNO= 20.37 CWSEL= 1347.97

STA= 9970. 10021.
PER Q= 100.0
AREA= 549.1
VEL= 10.4
DEPTH= 10.8

*SECNO 20.423

3301 HV CHANGED MORE THAN HVINS

20.423	11.57	1349.57	.00	.00	1350.51	.94	.65	.22	1345.00
5700.0	101.7	5266.2	332.1	37.2	655.8	86.9	524.3	63.5	1344.30
.47	2.73	8.03	3.82	.040	.035	.040	.000	1338.00	9958.69

.001888	415.	301.	205.	3	0	0	.00	112.82	10071.51

FLOW DISTRIBUTION FOR SECNO= 20.42 CWSEL= 1349.57

STA=	9959.	9975.	10045.	10055.	10072.
PER Q=	1.8	92.4	4.0	1.8	
AREA=	37.2	655.8	49.2	37.7	
VEL=	2.7	8.0	4.7	2.7	
DEPTH=	2.3	9.4	4.9	2.3	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.430	9.83	1349.13	.00	.00	1351.13	2.01	.09	.53	1339.30
5700.0	.0	5700.0	.0	.0	501.4	.0	524.8	63.6	1339.30
.47	.00	11.37	.00	.000	.035	.000	.000	1339.30	9985.00
.003403	1.	37.	65.	2	0	0	.00	51.00	10036.00

FLOW DISTRIBUTION FOR SECNO= 20.43 CWSEL= 1349.13

STA=	9985.	10036.
PER Q=	100.0	
AREA=	501.4	
VEL=	11.4	
DEPTH=	9.8	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1339.30	1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1348.59 BRIDGE VELOCITY= 12.79 CALCULATED CHANNEL AREA= 446.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1351.50	1351.64	.80	0.	5700.	576.	576.	1351.30	1355.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1353.50 ELREA= 1353.50

20.444	10.62	1349.92	.00	.00	1351.64	1.72	.51	.00	1339.30
5700.0	.0	5700.0	.0	.0	541.8	.0	525.7	63.7	1339.30
.47	.00	10.52	.00	.000	.035	.000	.000	1339.30	9985.00
.002628	70.	70.	70.	0	0	0	.00	51.00	10036.00

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

FLOW DISTRIBUTION FOR SECNO=     20.44          CWSEL=   1349.92

STA=    9985.   10036.
  PER Q=    100.0
   AREA=    541.8
    VEL=     10.5
  DEPTH=     10.6

*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS

    20.529      9.25   1352.25       .00       .00   1352.95       .70      1.00       .31   1350.20
    5700.0     165.5    5398.1     136.3      70.2     784.4      61.5     533.2      64.9   1350.40
       .49      2.36      6.88      2.22      .040      .035      .040      .000   1343.00   9905.35
   .001924      545.      449.      375.         3         0         0       .00    189.83  10095.18

FLOW DISTRIBUTION FOR SECNO=     20.53          CWSEL=   1352.25

STA=    9905.    9910.    9947.   10055.   10090.   10095.
  PER Q=       .1      2.8     94.7      2.3       .1
   AREA=      3.6     66.6    784.4     57.8      3.8
    VEL=      1.3      2.4      6.9      2.3      1.3
  DEPTH=       .8      1.8      7.3      1.7       .7

CCHV=     .100 CEHV=     .300
*SECNO 20.628
    20.628     10.01   1353.31       .00       .00   1353.74       .43       .76       .03   1357.10
    5700.0        .0    5700.0        .0        .0    1089.4        .0     545.3      67.0   1356.30
       .52       .00      5.23       .00      .000      .035      .000      .000   1343.30   9917.80
   .001125      530.      523.      520.         2         0         0       .00    150.61  10068.41

FLOW DISTRIBUTION FOR SECNO=     20.63          CWSEL=   1353.31

STA=    9918.   10076.
  PER Q=    100.0
   AREA=   1089.4
    VEL=      5.2
  DEPTH=      7.2
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

20.725	8.84	1356.04	1356.04	.00	1359.09	3.06	1.32	.79	1360.40
5700.0	.0	5700.0	.0	.0	406.2	.0	554.0	68.2	1361.00
.53	.00	14.03	.00	.000	.035	.000	.000	1347.20	9959.29
.010764	510.	512.	520.	20	11	0	.00	67.22	10026.51

FLOW DISTRIBUTION FOR SECNO= 20.73 CWSEL= 1356.04

STA= 9959. 10036.
PER Q= 100.0
AREA= 406.2
VEL= 14.0
DEPTH= 6.0

CCHV= .300 CEHV= .500
*SECNO 20.737

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1363.00 ELREA= 1363.00

20.737	7.27	1358.17	1358.17	.00	1361.84	3.67	.80	.31	1350.90
5700.0	.0	5700.0	.0	.0	370.6	.0	554.8	68.4	1350.90
.53	.00	15.38	.00	.000	.035	.000	.000	1350.90	9968.00
.009320	80.	80.	80.	20	15	0	.00	51.00	10019.00

FLOW DISTRIBUTION FOR SECNO= 20.74 CWSEL= 1358.17

STA= 9968. 10019.
PER Q= 100.0
AREA= 370.6
VEL= 15.4
DEPTH= 7.3

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1356.93 , NOT 1358.17 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1351.00	1350.90

*SECNO 20.750

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.59

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1358.54 BRIDGE VELOCITY= 15.64 CALCULATED CHANNEL AREA= 362.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1362.70	.00	0.	5700.	576.	576.	1363.00	1366.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1364.00 ELREA= 1364.00

20.750	9.60	1360.60	.00	.00	1362.70	2.11	.86	.00	1351.00
5700.0	.0	5700.0	.0	.0	489.5	.0	555.5	68.4	1351.00
.53	.00	11.64	.00	.000	.035	.000	.000	1351.00	9968.00
.003686	71.	71.	71.	0	0	0	.00	51.00	10019.00

FLOW DISTRIBUTION FOR SECNO= 20.75 CWSEL= 1360.60

STA= 9968. 10019.
PER Q= 100.0
AREA= 489.5
VEL= 11.6
DEPTH= 9.6

*SECNO 20.819

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1366.90 ELREA= 1366.90

20.819	5.87	1362.37	.00	.00	1364.78	2.41	1.92	.15	1356.50
5700.0	.0	5700.0	.0	.0	457.6	.0	559.4	69.0	1356.50
.54	.00	12.46	.00	.000	.035	.000	.000	1356.50	9965.00
.008133	375.	365.	345.	3	0	0	.00	78.00	10043.00

FLOW DISTRIBUTION FOR SECNO= 20.82 CWSEL= 1362.37

STA= 9965. 10043.
PER Q= 100.0
AREA= 457.6
VEL= 12.5
DEPTH= 5.9

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1361.20 , NOT 1362.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	77.30	3.30	655.00	.00	1357.40	1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1362.64 BRIDGE VELOCITY= 13.54 CALCULATED CHANNEL AREA= 388.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1364.20	1366.08	.00	0.	5700.	655.	592.	1365.40	1369.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1367.90 ELREA= 1367.90

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SECNO Q TIME SLOPE	DEPTH QLOB VLOB XLOBL	CWSEL QCH VCH XLCH	CRIWS QROB VROB XLOBR	WSELK ALOB XNL ITRIAL	EG ACH XNCH IDC	HV AROB XNR ICONT	HL VOL WTN CORAR	OLOSS TWA ELMIN TOPWID	L-BANK ELEV R-BANK ELEV SSTA ENDST
20.841	6.98	1364.38	.00	.00	1366.08	1.70	1.31	.00	1357.40
5700.0	.0	5700.0	.0	.0	544.7	.0	560.7	69.2	1357.40
.54	.00	10.46	.00	.000	.035	.000	.000	1357.40	9965.00
.004551	115.	115.	115.	0	0	0	.00	78.00	10043.00

FLOW DISTRIBUTION FOR SECNO= 20.84 CWSEL= 1364.38

STA= 9965. 10043.
PER Q= 100.0
AREA= 544.7
VEL= 10.5
DEPTH= 7.0

*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1365.30 ELREA= 1367.60

20.860	9.68	1365.98	.00	.00	1366.67	.69	.28	.30	1365.30
5700.0	86.2	5613.8	.0	77.9	834.8	.0	562.4	69.6	1367.60
.55	1.11	6.72	.00	.040	.035	.000	.000	1356.30	9800.89
.001946	90.	100.	110.	2	0	0	.00	261.14	10062.04

FLOW DISTRIBUTION FOR SECNO= 20.86 CWSEL= 1365.98

STA= 9801. 9846. 9942. 10066.
PER Q= .4 1.1 98.5
AREA= 21.8 56.1 834.8
VEL= 1.0 1.1 6.7
DEPTH= .5 .6 7.0

CCHV= .100 CEHV= .300
*SECNO 20.942

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

20.942	7.69	1367.29	.00	.00	1367.72	.43	1.02	.03	1368.60
5700.0	.0	3724.4	1975.6	.0	673.2	417.4	572.7	72.7	1366.50
.57	.02	5.53	4.73	.040	.035	.035	.000	1359.60	9629.81
.002779	530.	433.	490.	2	0	0	.00	313.22	10168.29

FLOW DISTRIBUTION FOR SECNO= 20.94 CWSEL= 1367.29

STA=	9630.	10024.	10027.	10053.	10070.	10114.	10153.	10168.
PER Q=	65.3	.3	5.3	2.5	6.4	17.0	3.3	
AREA=	673.2	5.1	69.9	37.2	96.3	165.3	43.5	
VEL=	5.5	2.9	4.3	3.8	3.8	5.9	4.3	
DEPTH=	4.0	1.7	2.7	2.2	2.2	4.2	2.8	

*SECNO 21.036

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.036	8.45	1371.95	1371.95	.00	1373.07	1.12	1.76	.21	1370.70
5700.0	367.1	5202.8	130.1	186.3	586.7	55.7	583.6	77.4	1370.40
.59	1.97	8.87	2.34	.040	.035	.040	.000	1363.50	9568.93
.004734	490.	496.	490.	20	12	0	.00	520.10	10089.02

FLOW DISTRIBUTION FOR SECNO= 21.04 CWSEL= 1371.95

STA=	9569.	9665.	9728.	9758.	9867.	9912.	10020.	10041.	10075.	10089.
PER Q=	.7	.5	.1	2.7	2.5	91.3	1.2	.9	.2	
AREA=	31.1	21.8	5.9	75.9	51.6	586.7	24.1	25.4	6.3	
VEL=	1.2	1.3	.9	2.0	2.8	8.9	2.8	2.1	1.5	
DEPTH=	.3	.3	.2	.7	1.1	5.4	1.1	.7	.4	

*SECNO 21.127
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1374.00 ELREA= 1375.00

21.127	8.05	1374.75	1374.75	.00	1375.74	1.00	2.13	.01	1374.20
5700.0	1077.1	4622.9	.0	394.1	525.4	.0	592.7	82.0	1375.00
.61	2.73	8.80	.00	.040	.035	.000	.000	1366.70	9631.62
.004360	400.	480.	500.	2	10	0	.00	434.39	10066.01

FLOW DISTRIBUTION FOR SECNO= 21.13 CWSEL= 1374.75

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STA=    9632.    9634.    9666.    9759.    9860.    9913.    9974.   10067.
  PER Q=       .0      1.7      5.8      6.7      2.9      1.8     81.1
   AREA=      1.4     36.7    115.9    130.9     60.7     48.6    525.4
    VEL=      1.6      2.7      2.8      2.9      2.7      2.1      8.8
  DEPTH=       .6      1.1      1.2      1.3      1.1       .8      5.7

*SECNO 21.230

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.230      8.36   1380.36   1380.36       .00   1381.67      1.30      2.99       .09   1379.30
    5700.0     508.8    4046.9    1144.3     153.5     391.9     191.5     603.1      86.7   1380.60
       .62      3.32     10.33      5.98      .040      .035      .040      .000   1372.00   9818.28
   .007215      560.      544.      500.        20         8         0       .00    304.81  10126.36

FLOW DISTRIBUTION FOR SECNO=     21.23          CWSEL=   1380.36

STA=    9818.    9879.    9930.    9967.   10048.   10083.   10102.   10117.   10126.
  PER Q=      3.2      3.0      2.7     71.0      6.7      6.3      4.7      2.5
   AREA=     57.4     52.7     43.4    391.9     69.9     55.4     42.2     24.0
    VEL=      3.2      3.3      3.5     10.3      5.4      6.4      6.3      5.9
  DEPTH=       .9      1.0      1.2      5.0      2.0      2.9      2.8      2.6

*SECNO 21.363
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

3265 DIVIDED FLOW

3280 CROSS SECTION     21.36 EXTENDED       .36 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.07

    21.363      9.27   1383.37       .00       .00   1383.90       .53      2.16       .08   1384.40
    5700.0      98.2    5566.2      35.7      50.6     939.1      46.3     617.4      92.2   1382.10
       .66      1.94      5.93       .77      .040      .035      .040      .000   1374.10   9556.04
   .001686      740.      702.      700.         2         0         0       .00    366.91  10337.00

FLOW DISTRIBUTION FOR SECNO=     21.36          CWSEL=   1383.37

STA=    9556.    9923.   10088.   10337.
  PER Q=      1.7     97.7       .6
   AREA=     50.6    939.1     46.3
    VEL=      1.9      5.9       .8
  DEPTH=       .1      6.3       .2

*SECNO 21.484

3265 DIVIDED FLOW
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3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.484	8.03	1386.53	1386.53	.00	1387.44	.92	1.88	.11	1386.90
5700.0	2045.4	3648.0	6.6	511.1	400.0	4.0	631.7	98.5	1386.50
.68	4.00	9.12	1.63	.040	.035	.040	.000	1378.50	9497.84
.006378	650.	639.	520.	20	12	0	.00	514.70	10076.82

FLOW DISTRIBUTION FOR SECNO= 21.48 CWSEL= 1386.53

STA=	9498.	9614.	9647.	9678.	9805.	9837.	9867.	9892.	9920.	10026.	10077.
PER Q=	3.6	3.1	3.3	5.0	6.8	6.6	5.3	2.1	64.0	.1	
AREA=	82.4	47.2	47.4	95.5	74.5	71.4	58.2	34.5	400.0	4.0	
VEL=	2.5	3.8	3.9	3.0	5.2	5.3	5.2	3.5	9.1	1.6	
DEPTH=	.7	1.4	1.5	.8	2.3	2.4	2.3	1.2	4.5	.1	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 21.576

3265 DIVIDED FLOW

3280 CROSS SECTION 21.58 EXTENDED .54 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.576	7.14	1389.24	1389.24	.00	1390.02	.78	2.51	.01	1390.00
5700.0	720.9	4008.4	970.7	336.1	487.8	285.9	641.4	104.4	1388.30
.70	2.15	8.22	3.39	.040	.035	.040	.000	1382.10	9388.00
.005020	320.	486.	480.	2	12	0	.00	868.38	10340.54

FLOW DISTRIBUTION FOR SECNO= 21.58 CWSEL= 1389.24

STA=	9388.	9500.	9643.	9821.	9929.	10087.	10140.	10199.	10281.	10341.
PER Q=	3.6	3.0	3.3	2.7	70.3	6.8	6.0	3.7	.5	
AREA=	89.6	81.4	95.4	69.6	487.8	97.3	94.6	78.7	15.4	
VEL=	2.3	2.1	2.0	2.2	8.2	4.0	3.6	2.7	1.9	
DEPTH=	.8	.6	.5	.6	4.6	1.8	1.6	1.0	.3	

*SECNO 21.669

3265 DIVIDED FLOW

3280 CROSS SECTION 21.67 EXTENDED .18 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.669	9.38	1393.38	1393.38	.00	1393.98	.60	2.28	.02	1393.80
5500.0	905.3	2788.4	1806.3	390.6	338.0	558.6	654.3	114.0	1392.00
.72	2.32	8.25	3.23	.040	.035	.040	.000	1384.00	9392.00
.004519	440.	491.	470.	20	16	0	.00	977.37	10414.00

FLOW DISTRIBUTION FOR SECNO= 21.67 CWSEL= 1393.38

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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

STA=    9392.    9515.    9663.    9893.    9949.    9959.   10031.   10074.   10124.   10182.   10245.   10303.   10361.
  PER Q=      3.0      4.9      3.2      5.1       .2     50.7      5.1      4.6      5.6      5.2      4.2      4.5
   AREA=     80.3    122.7     95.6     85.0      6.8    338.0     76.4     76.3     91.4     89.8     76.9     79.8
    VEL=      2.1      2.2      1.8      3.3      1.9      8.3      3.7      3.3      3.4      3.2      3.0      3.1
  DEPTH=       .7       .8       .4      1.5       .7      5.3      1.8      1.5      1.6      1.4      1.3      1.4

STA=   10361.   10401.   10414.
  PER Q=      3.1       .6
   AREA=     54.9     13.1
    VEL=      3.1      2.5
  DEPTH=      1.4      1.0

*SECNO 21.742

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.742      8.78   1395.18   1395.18       .00   1396.38      1.19      1.92       .18   1394.70
    5500.0      29.1    5238.8     232.0      28.7     583.5     122.4     663.5     121.0   1394.20
       .74      1.02      8.98      1.90      .040      .035      .040      .000   1386.40   9744.71
   .005365      430.      385.      390.         2         8         0       .00    525.85  10353.48


 FLOW DISTRIBUTION FOR SECNO=     21.74          CWSEL=   1395.18

 STA=    9745.    9975.   10091.   10240.   10353.
   PER Q=       .5     95.3      3.1      1.1
    AREA=     28.7    583.5     80.6     41.8
     VEL=      1.0      9.0      2.1      1.5
   DEPTH=       .1      5.0       .5       .4

 *SECNO 21.840
    21.840      6.94   1398.04       .00       .00   1398.83       .80      2.42       .04   1396.20
    5500.0     945.8    4157.0     397.3     210.1     524.6     174.1     672.7     126.0   1397.00
       .76      4.50      7.92      2.28      .040      .035      .040      .000   1391.10   9857.22
   .004314      430.      517.      430.         2         0         0       .00    437.88  10295.09
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


 FLOW DISTRIBUTION FOR SECNO=     21.84          CWSEL=   1398.04

 STA=    9857.    9860.    9882.    9913.    9931.    9946.   10054.   10097.   10145.   10186.   10227.   10273.   10295.
   PER Q=       .0      2.2      7.6      4.7      2.6     75.6      2.9      2.7       .6       .4       .6       .1
    AREA=      1.0     36.1     86.5     52.1     34.4    524.6     55.6     54.8     20.2     16.1     22.6      4.9
```

VEL=	1.2	3.4	4.8	5.0	4.2	7.9	2.9	2.7	1.5	1.3	1.5	.9
DEPTH=	.4	1.6	2.8	2.9	2.3	4.9	1.3	1.1	.5	.4	.5	.2

*SECNO 21.895
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.895	7.77	1399.67	1399.67	.00	1400.47	.80	1.34	.00	1398.00
5500.0	1555.3	2864.4	1080.2	327.5	311.9	397.8	679.0	129.1	1397.70
.77	4.75	9.18	2.72	.040	.035	.040	.000	1391.90	9834.78
.004943	330.	290.	220.	1	8	0	.00	596.22	10431.00

FLOW DISTRIBUTION FOR SECNO= 21.90 CWSEL= 1399.67

STA=	9835.	9885.	9919.	9939.	9975.	10031.	10113.	10187.	10251.	10292.	10364.	10431.
PER Q=	9.5	9.9	4.3	4.6	52.1	4.2	4.1	4.1	3.1	3.0	1.2	
AREA=	112.3	100.9	49.3	64.9	311.9	84.3	80.6	76.1	54.0	65.9	36.8	
VEL=	4.7	5.4	4.8	3.9	9.2	2.7	2.8	3.0	3.1	2.5	1.8	
DEPTH=	2.2	3.0	2.5	1.8	5.6	1.0	1.1	1.2	1.3	.9	.5	

*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.01

21.933	4.06	1400.86	.00	.00	1400.99	.13	.46	.07	1398.00
5500.0	1740.2	3230.1	529.7	808.7	951.6	269.8	686.4	132.8	1398.00
.79	2.15	3.39	1.96	.040	.035	.040	.000	1396.80	9314.75
.001221	210.	210.	210.	2	0	0	.00	970.39	10285.14

FLOW DISTRIBUTION FOR SECNO= 21.93 CWSEL= 1400.86

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9315.	9440.	9590.	9680.	9725.	9780.	9840.	9865.	10140.	10285.
PER Q=	.4	2.0	6.0	7.2	8.8	5.1	2.1	58.7	9.6	
AREA=	35.1	106.5	167.4	142.2	173.8	129.6	54.0	951.6	269.8	
VEL=	.6	1.0	2.0	2.8	2.8	2.2	2.2	3.4	2.0	
DEPTH=	.3	.7	1.9	3.2	3.2	2.2	2.2	3.5	1.9	

*SECNO 21.953

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.953	7.06	1401.06	1401.06	.00	1402.01	.94	.20	.24	1400.20
5500.0	2374.6	2981.8	143.6	470.2	313.0	32.2	688.8	134.1	1398.30
.79	5.05	9.53	4.45	.045	.045	.045	.000	1394.00	9424.44
.009459	75.	74.	75.	20	14	0	.00	459.91	10052.98

FLOW DISTRIBUTION FOR SECNO= 21.95 CWSEL= 1401.06

STA=	9424.	9678.	9699.	9714.	9725.	9735.	9759.	9768.	9782.	9810.	9965.	9969.	10029.
PER Q=	4.1	3.5	4.1	5.2	4.3	4.5	3.3	5.0	5.9	3.2	.3	54.2	
AREA=	94.3	39.1	37.7	38.5	33.6	48.3	27.1	41.5	60.5	45.2	4.4	313.0	
VEL=	2.4	4.9	5.9	7.4	7.1	5.1	6.6	6.6	5.4	3.8	3.4	9.5	
DEPTH=	.4	1.9	2.5	3.5	3.4	2.0	3.0	3.0	2.2	.3	1.1	5.2	

STA=	10029.	10053.
PER Q=	2.6	
AREA=	32.2	
VEL=	4.5	
DEPTH=	1.3	

*SECNO 22.065

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.94

22.065	8.28	1404.08	.00	.00	1404.25	.17	2.17	.08	1404.10
5500.0	4154.8	1273.9	71.3	1389.6	294.2	31.6	702.6	140.5	1402.00
.83	2.99	4.33	2.26	.045	.045	.045	.000	1395.80	9242.08
.002509	430.	591.	630.	4	0	0	.00	777.84	10049.66

FLOW DISTRIBUTION FOR SECNO= 22.07 CWSEL= 1404.08

STA=	9242.	9500.	9594.	9645.	9657.	9680.	9700.	9731.	9785.	9816.	9869.	9890.	9961.
PER Q=	24.1	5.7	7.6	3.2	5.9	5.3	3.8	4.5	6.5	4.9	3.7	.4	
AREA=	500.1	143.7	124.0	44.8	83.5	73.6	69.7	80.3	99.4	92.7	60.5	17.3	
VEL=	2.7	2.2	3.4	4.0	3.9	3.9	3.0	3.1	3.6	2.9	3.3	1.2	
DEPTH=	1.9	1.5	2.4	3.7	3.6	3.7	2.2	1.5	3.2	1.7	2.9	.2	

STA=	9961.	10028.	10050.
PER Q=	23.2	1.3	
AREA=	294.2	31.6	
VEL=	4.3	2.3	
DEPTH=	4.4	1.5	

*SECNO 22.165

3265 DIVIDED FLOW

22.165	10.25	1405.25	.00	.00	1405.46	.21	1.20	.01	1400.90
5500.0	4034.5	1433.3	32.3	1386.7	266.1	24.2	723.2	150.3	1403.70
.87	2.91	5.39	1.33	.045	.045	.045	.000	1395.00	9137.48
.002042	530.	528.	530.	3	0	0	.00	828.27	10060.52

FLOW DISTRIBUTION FOR SECNO= 22.17 CWSEL= 1405.25

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9137.	9204.	9213.	9222.	9232.	9256.	9308.	9425.	9595.	9637.	9645.	9657.	9669.
PER Q=	6.3	3.5	4.4	3.9	4.4	3.3	3.9	3.3	4.7	3.6	4.9	3.2	
AREA=	119.1	44.6	51.3	50.0	75.7	85.9	131.5	109.1	86.3	43.2	61.2	47.4	
VEL=	2.9	4.3	4.8	4.3	3.2	2.1	1.6	1.6	3.0	4.6	4.4	3.7	
DEPTH=	1.8	5.0	5.7	5.0	3.2	1.7	1.1	.6	2.1	5.4	5.1	4.0	

STA=	9669.	9701.	9834.	9862.	9946.	9983.	10018.	10061.
PER Q=	3.2	4.7	5.0	4.2	6.9	26.1	.6	
AREA=	67.7	111.6	86.4	98.9	116.8	266.1	24.2	
VEL=	2.6	2.3	3.2	2.4	3.3	5.4	1.3	
DEPTH=	2.1	.8	3.1	1.2	3.2	7.6	.6	

*SECNO 22.273

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .54

22.273	7.26	1406.66	.00	.00	1407.38	.71	1.77	.15	1404.10
5500.0	1973.6	3526.4	.0	437.6	454.3	.0	737.9	157.2	1406.90
.90	4.51	7.76	.00	.045	.045	.000	.000	1399.40	9320.96
.006928	470.	570.	580.	2	0	0	.00	419.21	10027.44

FLOW DISTRIBUTION FOR SECNO= 22.27 CWSEL= 1406.66

STA=	9321.	9344.	9359.	9574.	9598.	9754.	9774.	9915.	9933.	10028.
PER Q=	4.7	5.4	3.4	4.9	3.1	6.8	3.1	4.5	64.1	
AREA=	48.7	48.9	64.5	55.6	64.2	62.5	46.1	47.1	454.3	
VEL=	5.3	6.0	2.9	4.8	2.7	6.0	3.7	5.2	7.8	
DEPTH=	2.1	3.3	.3	2.3	.4	3.1	.3	2.6	4.8	

*SECNO 22.410

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

22.410	10.22	1414.22	1414.22	.00	1415.98	1.76	5.65	.31	1410.70
5500.0	768.3	4585.8	145.9	157.3	400.5	38.0	750.4	162.4	1411.30
.92	4.89	11.45	3.83	.045	.045	.045	.000	1404.00	9854.46
.008756	750.	723.	630.	3	11	0	.00	193.61	10066.88

FLOW DISTRIBUTION FOR SECNO= 22.41 CWSEL= 1414.22

STA=	9854.	9903.	9954.	9967.	9973.	10027.	10067.
PER Q=	3.5	3.7	4.4	2.4	83.4	2.7	
AREA=	55.7	43.9	38.0	19.6	400.5	38.0	
VEL=	3.5	4.6	6.3	6.8	11.5	3.8	
DEPTH=	1.1	.9	2.9	3.3	7.4	1.0	

*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 4.56

22.483	10.96	1416.46	.00	.00	1416.58	.12	.44	.16	1411.10
5500.0	301.1	4551.8	647.1	194.8	1523.7	375.4	762.3	164.7	1411.20
.95	1.55	2.99	1.72	.045	.045	.045	.000	1405.50	9874.91
.000421	380.	385.	390.	3	0	0	.00	325.09	10199.99

FLOW DISTRIBUTION FOR SECNO= 22.48 CWSEL= 1416.46

STA=	9875.	9891.	9915.	9941.	10105.	10120.	10138.	10156.	10175.	10191.	10200.
PER Q=	.2	1.6	3.7	82.8	2.4	2.2	2.1	2.6	2.1	.3	
AREA=	16.5	65.0	113.3	1523.7	70.6	72.1	69.4	79.9	66.5	16.9	
VEL=	.7	1.3	1.8	3.0	1.9	1.7	1.7	1.8	1.8	1.0	
DEPTH=	1.0	2.7	4.4	9.3	4.7	4.0	3.9	4.2	4.2	1.9	

*SECNO 22.578

3301 HV CHANGED MORE THAN HVINS

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .31

22.578	9.65	1416.34	.00	.00	1417.33	.99	.50	.26	1416.60
5500.0	.0	5500.0	.0	.0	688.9	.0	778.3	167.1	1421.20
.97	.00	7.98	.00	.000	.045	.000	.000	1406.70	9968.38
.004498	540.	502.	490.	3	0	0	.00	95.82	10064.20

FLOW DISTRIBUTION FOR SECNO= 22.58 CWSEL= 1416.34

STA=	9968.	10072.
PER Q=	100.0	
AREA=	688.9	
VEL=	8.0	
DEPTH=	7.2	

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.57

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    22.[illegible]      8.31   1418.01       .00       .00   1418.14       .14[illegible]  .72       .09   1419.80
    5500[illegible]      .0    5500.0        .0        .0    1858.1        .0[illegible]793.3     169.4   1420.00
      1.02       .00      2.96       .00      .000      .045      .000      .000   1409.70   9740.49
   .000680      570.      512.      480.         2         0         0       .00    287.90  10028.39

 FLOW DISTRIBUTION FOR SECNO=     22.67          CWSEL=   1418.01

 STA=    9740.   10032.
   PER Q=    100.0
    AREA=   1858.1
     VEL=      3.0
   DEPTH=      6.5

 *SECNO 22.794
1
    14APR06      10:33:57
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     SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
     Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
     TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
     SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .51

    22.794      7.85   1418.55       .00       .00   1418.97       .42       .75       .09   1417.80
    5500.0       1.3    5395.1     103.6       1.5    1029.4      42.0     814.4     173.0   1416.10
      1.05       .87      5.24      2.47      .045      .045      .045      .000   1410.70   9978.95
   .002603      460.      628.      500.         2         0         0       .00    215.74  10194.69

 FLOW DISTRIBUTION FOR SECNO=     22.79          CWSEL=   1418.55

 STA=    9979.    9983.   10169.   10189.   10195.
   PER Q=       .0      98.1      1.8       .1
    AREA=      1.5    1029.4     38.1      3.9
     VEL=       .9       5.2      2.6      1.3
   DEPTH=       .4       5.5      1.9       .7

 *SECNO 22.880
    22.880      7.05   1420.05       .00       .00   1420.62       .58      1.60       .05   1426.40
    5500.0        .0    5500.0        .0        .0     901.9        .0     824.7     175.2   1424.20
      1.07       .00      6.10       .00      .000      .045      .000      .000   1413.00   9952.13
   .005065      440.      454.      480.         2         0         0       .00    211.78  10163.91

 FLOW DISTRIBUTION FOR SECNO=     22.88          CWSEL=   1420.05

 STA=    9952.   10167.
   PER Q=    100.0
    AREA=    901.9
     VEL=      6.1
   DEPTH=      4.3

 *SECNO 22.990
    22.990      5.73   1423.63       .00       .00   1424.26       .62      3.62       .01   1425.40
    5500.0        .0    5500.0        .0        .0     869.8        .0     836.5     178.4   1427.90
      1.10       .00      6.32       .00      .000      .045      .000      .000   1417.90   9754.06
   .007840      480.      581.      530.         3         0         0       .00    272.08  10026.14

 FLOW DISTRIBUTION FOR SECNO=     22.99          CWSEL=   1423.63
1
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

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STA=    9754.   10034.
  PER Q=    100.0
   AREA=    869.8
    VEL=      6.3
  DEPTH=      3.2

*SECNO 23.097

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    23.097      4.79   1429.89   1429.89       .00   1431.46      1.57      6.49       .28   1432.30
    5500.0      38.9    5461.1        .0      13.4     541.7        .0     845.7     181.4   1430.80
      1.11      2.89     10.08       .00      .045      .045      .000      .000   1425.10   9899.14
   .018369      640.      565.      490.        10        11         0       .00    186.86  10117.43


FLOW DISTRIBUTION FOR SECNO=     23.10          CWSEL=   1429.89

STA=    9899.    9916.    9925.    9927.   10121.
  PER Q=       .4       .3       .0     99.3
   AREA=      8.3      4.8       .2    541.7
    VEL=      2.9      3.0      1.2     10.1
  DEPTH=       .5       .5       .1      3.4

*SECNO 23.168

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.09

    23.168      4.15   1433.05       .00       .00   1433.22       .17      1.62       .14   1429.50
    5500.0     763.8    4435.3     300.9     310.9    1269.5     143.5     855.3     184.7   1430.30
      1.15      2.46      3.49      2.10      .045      .045      .045      .000   1428.90   9604.29
   .001925      330.      375.      300.         5         0         0       .00    609.23  10213.52
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1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

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FLOW DISTRIBUTION FOR SECNO=     23.17          CWSEL=   1433.05

STA=    9604.    9657.    9718.    9777.   10116.   10176.   10214.
  PER Q=       .6      4.1      9.2     80.6      5.0       .5
   AREA=     33.0    106.8    171.1   1269.5    120.0     23.5
    VEL=      1.1      2.1      2.9      3.5      2.3      1.1
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  DEPTH=      .6      1.8      2.9      3.7      2.0      .6

*SECNO 23.253

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    23.253      9.33   1434.53   1434.53       .00   1437.36      2.83      1.55       .80   1437.50
    3400.0        .0    3400.0       .0        .0     252.0        .0     865.7     188.1   1444.20
      1.16       .00     13.49       .00      .000      .040      .000      .000   1425.20   9978.44
   .014919      470.      459.      450.        20        17         0       .00     44.74  10023.18

FLOW DISTRIBUTION FOR SECNO=     23.25          CWSEL=   1434.53

STA=    9978.   10038.
  PER Q=    100.0
   AREA=    252.0
    VEL=     13.5
  DEPTH=      5.6

*SECNO 23.334

3301 HV CHANGED MORE THAN HVINS

    23.334      7.79   1440.39       .00       .00   1441.83      1.43      4.33       .14   1443.80
    3400.0        .0    3400.0       .0        .0     353.7        .0     868.6     188.7   1449.80
      1.17       .00      9.61       .00      .000      .040      .000      .000   1432.60   9969.06
   .007640      400.      417.      420.         2         0         0       .00     66.92  10035.98

FLOW DISTRIBUTION FOR SECNO=     23.33          CWSEL=   1440.39
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

STA=    9969.   10055.
  PER Q=    100.0
   AREA=    353.7
    VEL=      9.6
  DEPTH=      5.3

*SECNO 23.416
    23.416      7.32   1443.82       .00       .00   1445.60      1.77      3.67       .10   1447.80
    3400.0        .0    3400.0       .0        .0     318.3        .0     871.9     189.3   1450.20
      1.18       .00     10.68       .00      .000      .040      .000      .000   1436.50   9980.93
   .009442      400.      433.      430.         3         0         0       .00     59.14  10040.07

FLOW DISTRIBUTION FOR SECNO=     23.42          CWSEL=   1443.82

STA=    9981.   10053.
  PER Q=    100.0
   AREA=    318.3
    VEL=     10.7
  DEPTH=      5.4

*SECNO 23.514
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23.514	8.51	1448.11	.00	.00	1449.46	1.35	3.82	.04	1451.40
3400.0	.0	3400.0	.0	.0	364.8	.0	876.0	190.0	1451.10
1.19	.00	9.32	.00	.000	.040	.000	.000	1439.60	9977.54
.005937	560.	517.	470.	2	0	0	.00	57.47	10035.01

FLOW DISTRIBUTION FOR SECNO= 23.51 CWSEL= 1448.11

STA= 9978. 10039.
PER Q= 100.0
AREA= 364.8
VEL= 9.3
DEPTH= 6.3

*SECNO 23.544

3301 HV CHANGED MORE THAN HVINS

1
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SECNO Q TIME SLOPE	DEPTH QLOB VLOB XLOBL	CWSEL QCH VCH XLCH	CRIWS QROB VROB XLOBR	WSELK ALOB XNL ITRIAL	EG ACH XNCH IDC	HV AROB XNR ICONT	HL VOL WTN CORAR	OLOSS TWA ELMIN TOPWID	L-BANK ELEV R-BANK ELEV SSTA ENDST
23.544	7.51	1448.91	.00	.00	1450.79	1.88	1.17	.16	1453.20
3400.0	.0	3400.0	.0	.0	309.4	.0	877.2	190.2	1452.90
1.20	.00	10.99	.00	.000	.040	.000	.000	1441.40	9978.90
.009552	190.	158.	150.	2	0	0	.00	54.80	10033.70

FLOW DISTRIBUTION FOR SECNO= 23.54 CWSEL= 1448.91

STA= 9979. 10039.
PER Q= 100.0
AREA= 309.4
VEL= 11.0
DEPTH= 5.6

SPECIAL BRIDGE

SB XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.25	2.48	3.20	.00	5.70	1.00	14.10	.00	1442.00	1441.40

*SECNO 23.555

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.95

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3688.08	1453.59	2.80	3249.	152.	14.	14.	1445.00	1449.00	140.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.555	10.64	1452.64	.00	.00	1453.37	.74	2.58	.00	1453.80

3400.	.0	3400.0	.0	.0	493.8	.0	77.8	190.3	1453.50
1.20	.00	6.89	.00	.000	.040	.000	.000	1442.00	9974.59
.002505	60.	60.	60.	2	0	8	.00	63.27	10037.86

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.56 CWSEL= 1452.64

STA= 9975. 10039.
PER Q= 100.0
AREA= 493.8
VEL= 6.9
DEPTH= 7.8

*SECNO 23.591
3280 CROSS SECTION 23.59 EXTENDED 1.15 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.591	8.95	1453.15	.00	.00	1453.93	.78	.54	.01	1452.90
3400.0	.0	3400.0	.0	.0	478.5	.0	879.9	190.6	1453.80
1.21	.00	7.11	.00	.000	.040	.000	.000	1444.20	9968.00
.003292	100.	190.	210.	3	0	0	.00	75.49	10043.49

FLOW DISTRIBUTION FOR SECNO= 23.59 CWSEL= 1453.15

STA= 9968. 10045.
PER Q= 100.0
AREA= 478.5
VEL= 7.1
DEPTH= 6.3

*SECNO 23.691

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.691	8.75	1455.15	.00	.00	1456.48	1.33	2.39	.16	1457.60
3400.0	.0	3400.0	.0	.0	367.9	.0	885.0	191.4	1455.30
1.22	.00	9.24	.00	.000	.040	.000	.000	1446.40	9970.39
.006585	510.	528.	540.	2	0	0	.00	65.33	10035.72

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.69 CWSEL= 1455.15

```
STA=    9970.   10036.
  PER Q=    100.0
   AREA=    367.9
    VEL=      9.2
  DEPTH=      5.6

*SECNO 23.815

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.50


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1480.00 ELREA=      1480.00

    23.815      9.31   1459.01       .00       .00   1460.09      1.08      3.59       .02   1458.90
    4350.0        .0    4350.0        .0        .0     520.9        .0     891.7     192.5   1457.80
      1.25       .00      8.35       .00      .000      .040      .000      .000   1449.70   9951.00
   .004797      650.      655.      680.         3         0         0       .00     86.00  10037.00


FLOW DISTRIBUTION FOR SECNO=     23.82          CWSEL=   1459.01

STA=    9951.   10037.
  PER Q=    100.0
   AREA=    520.9
    VEL=      8.4
  DEPTH=      6.1

*SECNO 23.912
3280 CROSS SECTION     23.91 EXTENDED       .14 FEET


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1480.00 ELREA=      1480.00

    23.912     13.14   1461.04       .00       .00   1462.18      1.14      2.07       .02   1461.30
    5300.0        .0    5300.0        .0        .0     619.1        .0     898.4     193.5   1460.90
      1.26       .00      8.56       .00      .000      .040      .000      .000   1447.90   9967.41
   .003558      480.      512.      510.         3         0         0       .00     75.59  10043.00


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   14APR06      10:33:57                                                                                PAGE    73

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=     23.91          CWSEL=   1461.04

STA=    9967.   10043.
  PER Q=    100.0
   AREA=    619.1
    VEL=      8.6
  DEPTH=      8.2

*SECNO 23.989

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41
```

23.989	12.91	1462.61	.00	.00	1463.23	.63	1.00	.05	1465.60
5300.0	.0	5300.0	.0	.0	835.0	.0	905.2	194.3	1465.80
1.28	.00	6.35	.00	.000	.040	.000	.000	1449.70	9944.77
.001801	400.	407.	410.	2	0	0	.00	98.91	10043.68

FLOW DISTRIBUTION FOR SECNO= 23.99 CWSEL= 1462.61

STA= 9945. 10049.
PER Q= 100.0
AREA= 835.0
VEL= 6.3
DEPTH= 8.4

CCHV= .300 CEHV= .500
*SECNO 24.086

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1463.70 ELREA= 1463.70

24.086	9.84	1463.44	.00	.00	1464.31	.87	.95	.12	1453.60
5300.0	.0	5300.0	.0	.0	708.4	.0	914.3	195.3	1453.60
1.30	.00	7.48	.00	.000	.040	.000	.000	1453.60	9972.00
.001924	450.	512.	560.	4	0	0	.00	72.00	10044.00

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 24.09 CWSEL= 1463.44

STA= 9972. 10044.
PER Q= 100.0
AREA= 708.4
VEL= 7.5
DEPTH= 9.8

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	100.00	71.60	3.00	590.00	.00	1453.60	1453.60

*SECNO 24.096
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1465.39	1464.37	.08	0.	5300.	590.	590.	1462.20	1466.70	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1466.00 ELREA= 1466.00

24.096	11.11	1464.71	.00	.00	1465.39	.68	1.09	.00	1453.60
5300.0	.0	5300.0	.0	.0	800.4	.0	915.2	195.4	1453.60
1.30	.00	6.62	.00	.000	.040	.000	.000	1453.60	9972.00
.001280	56.	56.	56.	2	0	0	.00	72.00	10044.00

```
FLOW DISTRIBUTION FOR SECNO=     24.10          CWSEL=   1464.71

STA=    9972.   10044.
  PER Q=    100.0
   AREA=    800.4
    VEL=      6.6
  DEPTH=     11.1

*SECNO 24.106
    24.106     11.01   1465.21       .00       .00   1465.55       .34       .05       .10   1464.10
    5300.0       1.1    4877.6     421.3       1.3    1012.1     185.1     916.4     195.5   1458.50
      1.30       .80      4.82      2.28      .035      .040      .050      .000   1454.20   9952.58
   .000889       80.       53.       20.         2         0         0       .00    166.78  10119.36


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   14APR06      10:33:57                                                                          PAGE    75

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=     24.11          CWSEL=   1465.21

STA=    9953.    9955.   10064.   10091.   10108.   10119.
  PER Q=       .0     92.0      6.6      1.2       .1
   AREA=      1.3   1012.1    135.4     41.1      8.6
    VEL=       .8      4.8      2.6      1.6       .7
  DEPTH=       .6      9.3      5.0      2.4       .8

CCHV=     .100 CEHV=     .300
*SECNO 24.195

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.49

    24.195     12.09   1465.69       .00       .00   1465.84       .15       .27       .02   1470.40
    5300.0        .0    5300.0        .0        .0    1706.8        .0     932.0     197.5   1466.40
      1.35       .00      3.11       .00      .000      .040      .000      .000   1453.60   9941.09
   .000402      470.      470.      460.         2         0         0       .00    196.58  10137.67

FLOW DISTRIBUTION FOR SECNO=     24.19          CWSEL=   1465.69

STA=    9941.   10142.
  PER Q=    100.0
   AREA=   1706.8
    VEL=      3.1
  DEPTH=      8.7

*SECNO 24.322

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.22

    24.322     14.31   1465.91       .00       .00   1465.95       .04       .10       .01   1463.50
    5300.0       6.2    4200.3    1093.4      14.5    2371.1    1071.5     971.3     201.7   1456.80
      1.46       .43      1.77      1.02      .035      .040      .050      .000   1451.60   9858.94
   .000081      640.      671.      630.         2         0         0       .00    366.31  10225.25

FLOW DISTRIBUTION FOR SECNO=     24.32          CWSEL=   1465.91

STA=    9859.    9871.   10064.   10134.   10177.   10220.   10225.
  PER Q=       .1     79.3     12.9      5.9      1.8       .0
```

AREA	14.5	2371.1	606.3	312.3	151.0	1.9
VEL=	.4	1.8	1.1	1.0	.6	.1
DEPTH=	1.2	12.3	8.7	7.3	3.5	.4

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 24.444

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .33

24.444	8.65	1465.95	.00	.00	1466.10	.15	.12	.03	1465.00
5300.0	.4	4211.2	1088.5	.7	1324.9	405.4	1008.9	206.4	1461.70
1.52	.49	3.18	2.69	.045	.045	.045	.000	1457.30	9926.47
.000727	640.	644.	600.	2	0	0	.00	277.67	10204.13

FLOW DISTRIBUTION FOR SECNO= 24.44 CWSEL= 1465.95

STA=	9926.	9928.	10122.	10142.	10166.	10180.	10204.
PER Q=	.0	79.5	6.0	8.3	4.0	2.3	
AREA=	.7	1324.9	113.1	147.7	76.4	68.2	
VEL=	.5	3.2	2.8	3.0	2.8	1.7	
DEPTH=	.5	6.8	5.7	6.2	5.5	2.8	

*SECNO 24.542

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .28

24.542	6.53	1466.33	.00	.00	1467.25	.92	.91	.23	1464.00
5300.0	26.1	5273.9	.0	7.8	684.1	.0	1023.3	209.1	1467.80
1.54	3.33	7.71	.00	.045	.045	.000	.000	1459.80	9907.26
.008955	470.	517.	530.	2	0	0	.00	181.23	10181.31

FLOW DISTRIBUTION FOR SECNO= 24.54 CWSEL= 1466.33

STA=	9907.	9914.	10187.
PER Q=	.5	99.5	
AREA=	7.8	684.1	
VEL=	3.3	7.7	
DEPTH=	1.2	3.9	

1

14APR06 10:33:57

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 24.635

24.635	5.25	1472.05	1471.83	.00	1473.32	1.28	5.97	.11	1474.50
5300.0	.0	5300.0	.0	.0	584.2	.0	1030.5	211.2	1472.40
1.55	.00	9.07	.00	.000	.045	.000	.000	1466.80	9911.01
.017410	650.	491.	220.	12	15	0	.00	194.18	10105.18

FLOW DISTRIBUTION FOR SECNO= 24.64 CWSEL= 1472.05

STA=	9911.	10111.
PER Q=	100.0	
AREA=	584.2	
VEL=	9.1	
DEPTH=	3.0	

*SECNO 24.738

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.23

24.738	4.89	1476.89	.00	.00	1477.18	.29	3.76	.10	1481.20
5200.0	.0	1399.4	3800.6	.0	323.2	872.8	1042.5	214.9	1480.90
1.59	.00	4.33	4.35	.000	.045	.045	.000	1472.00	9936.06
.003356	350.	544.	630.	4	0	0	.00	355.18	10340.68

FLOW DISTRIBUTION FOR SECNO= 24.74 CWSEL= 1476.89

STA=	9936.	10038.	10088.	10127.	10224.	10291.	10330.	10341.
PER Q=	26.9	.6	10.4	33.5	19.3	8.4	.9	
AREA=	323.2	12.1	128.1	372.1	230.2	112.5	17.5	
VEL=	4.3	2.5	4.2	4.7	4.4	3.9	2.6	
DEPTH=	3.4	.2	3.3	3.8	3.4	2.9	1.6	

*SECNO 24.838

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

24.838	5.63	1480.33	1480.33	.00	1480.92	.60	3.02	.09	1483.80
5200.0	.0	1244.3	3955.7	.0	140.6	777.8	1053.9	220.2	1483.50
1.61	.00	8.85	5.09	.000	.045	.045	.000	1474.70	9968.35
.016849	470.	528.	450.	1	12	0	.00	650.49	10633.62

FLOW DISTRIBUTION FOR SECNO= 24.84 CWSEL= 1480.33

STA=	9968.	10019.	10066.	10111.	10162.	10185.	10219.	10270.	10365.	10450.	10630.	10634.
PER Q=	23.9	3.3	4.2	6.7	3.0	4.5	6.7	12.5	11.2	23.7	.1	
AREA=	140.6	39.1	48.4	67.6	30.5	45.1	67.6	125.9	112.7	238.6	2.4	
VEL=	8.8	4.4	4.5	5.2	5.2	5.2	5.2	5.2	5.2	5.2	3.1	
DEPTH=	3.1	.8	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	.7	

*SECNO 24.943

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.83

24.943	5.74	1483.44	.00	.00	1483.57	.12	2.60	.05	1481.80
5200.0	851.4	498.4	3850.1	351.0	132.5	1408.1	1072.0	229.6	1484.80
1.67	2.43	3.76	2.73	.045	.045	.045	.000	1477.70	9801.22
.002110	530.	554.	570.	7	0	0	.00	799.36	10618.77

FLOW DISTRIBUTION FOR SECNO= 24.94 CWSEL= 1483.44

STA=	9801.	9813.	9926.	9945.	9983.	10017.	10044.	10080.	10540.	10610.	10619.
PER Q=	.3	12.7	1.6	1.8	9.6	.5	4.7	59.5	9.1	.3	
AREA=	10.3	253.6	36.0	51.1	132.5	13.8	88.0	1124.5	171.1	10.7	
VEL=	1.4	2.6	2.3	1.8	3.8	1.7	2.8	2.8	2.8	1.7	
DEPTH=	.9	2.2	1.9	1.3	4.2	.5	2.4	2.4	2.4	1.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 25.048

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

25.048	3.57	1487.27	1487.27	.00	1487.98	.71	2.60	.18	1486.60
5200.0	1444.5	645.1	3110.4	283.5	84.2	430.3	1088.6	238.1	1493.60
1.69	5.10	7.66	7.23	.045	.045	.045	.000	1483.70	9705.76
.020608	580.	554.	520.	20	14	0	.00	557.24	10481.24

FLOW DISTRIBUTION FOR SECNO= 25.05 CWSEL= 1487.27

STA=	9706.	9817.	9941.	9966.	10017.	10154.	10223.	10247.	10450.	10470.	10481.
PER Q=	8.8	16.9	2.2	12.4	18.7	10.0	12.0	3.8	13.1	2.3	
AREA=	101.7	157.6	24.3	84.2	157.2	91.1	66.4	31.9	65.4	18.4	
VEL=	4.5	5.6	4.6	7.7	6.2	5.7	9.4	6.1	10.4	6.4	
DEPTH=	.9	1.3	1.0	2.1	1.1	1.3	2.8	.2	3.3	1.6	

*SECNO 25.163

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.21

25.163	6.19	1492.19	.00	.00	1492.51	.31	4.49	.04	1491.60
4900.0	205.3	1143.6	3551.1	73.5	218.9	823.3	1101.7	244.5	1493.10
1.73	2.79	5.23	4.31	.045	.045	.045	.000	1486.00	9922.08
.003749	640.	607.	580.	5	0	0	.00	369.01	10297.84

FLOW DISTRIBUTION FOR SECNO= 25.16 CWSEL= 1492.19

STA=	9922.	9947.	9965.	9972.	10025.	10044.	10088.	10147.	10220.	10291.	10298.
PER Q=	1.0	2.6	.5	23.3	1.3	12.6	16.9	20.9	20.3	.6	
AREA=	24.8	38.6	10.1	218.9	23.6	140.5	188.4	233.1	226.7	10.9	
VEL=	2.0	3.4	2.5	5.2	2.7	4.4	4.4	4.4	4.4	2.6	
DEPTH=	1.0	2.1	1.4	4.3	1.2	3.2	3.2	3.2	3.2	1.6	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 25.262
3280 CROSS SECTION 25.26 EXTENDED .01 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1491.60 ELREA= 1510.00

25.262	10.01	1494.01	.00	.00	1494.20	.19	1.68	.01	1491.60
4900.0	4119.0	781.0	.0	1187.1	220.4	.0	1116.5	249.7	1496.80
1.77	3.47	3.54	.00	.045	.045	.000	.000	1484.00	9501.71
.002847	470.	523.	570.	5	0	0	.00	521.78	10023.49

FLOW DISTRIBUTION FOR SECNO= 25.26 CWSEL= 1494.01

STA=	9502.	9513.	9547.	9618.	9646.	9689.	9707.	9823.	9948.	10030.
PER Q=	1.4	12.9	14.3	3.6	4.5	1.1	18.7	27.4	15.9	
AREA=	24.9	139.8	199.6	60.5	82.2	24.5	285.5	370.1	220.4	
VEL=	2.8	4.5	3.5	2.9	2.7	2.2	3.2	3.6	3.5	
DEPTH=	2.2	4.1	2.8	2.2	1.9	1.4	2.5	3.0	2.9	

*SECNO 25.374
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

25.374	6.07	1499.37	1499.37	.00	1499.62	.26	1.89	.02	1499.30
4900.0	3795.5	1104.5	.0	981.1	238.1	.0	1136.5	256.5	1498.80
1.81	3.87	4.64	2.06	.045	.045	.045	.000	1493.30	9655.94
.002869	680.	591.	300.	20	20	0	.00	367.07	10023.00

FLOW DISTRIBUTION FOR SECNO= 25.37 CWSEL= 1499.37

STA=	9656.	9659.	9704.	9838.	9920.	9933.	9944.	9950.	9955.	9963.	9969.	10023.
PER Q=	.0	6.3	39.3	22.9	3.4	1.8	.5	.9	2.0	.3	22.5	
AREA=	1.8	101.9	471.1	280.1	42.4	27.1	9.4	13.3	25.7	8.2	238.1	
VEL=	1.2	3.0	4.1	4.0	3.9	3.2	2.4	3.2	3.8	2.1	4.6	
DEPTH=	.6	2.3	3.5	3.4	3.3	2.5	1.6	2.7	3.2	1.4	4.4	

*SECNO 25.434

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1504.90 ELREA= 1504.00

25.434	8.17	1503.97	1503.97	.00	1506.92	2.95	1.79	.81	1504.90
4900.0	.0	4900.0	.0	.0	355.5	.0	1143.2	258.3	1504.00
1.82	.00	13.78	.00	.000	.035	.000	.000	1495.80	9970.53
.011721	400.	317.	190.	20	14	0	.00	65.40	10035.93

FLOW DISTRIBUTION FOR SECNO= 25.43 CWSEL= 1503.97

STA= 9971. 10036.
PER Q= 100.0
AREA= 355.5
VEL= 13.8
DEPTH= 5.4

*SECNO 25.500

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.25

25.500	10.04	1507.74	.00	.00	1508.08	.34	.91	.26	1511.50
4900.0	.0	4900.0	.0	.0	1043.7	.0	1148.8	259.3	1509.00
1.84	.00	4.69	.00	.000	.035	.000	.000	1497.70	9923.52
.001109	250.	349.	420.	2	0	0	.00	170.83	10094.35

FLOW DISTRIBUTION FOR SECNO= 25.50 CWSEL= 1507.74

STA= 9924. 10105.
PER Q= 100.0
AREA= 1043.7
VEL= 4.7
DEPTH= 6.1

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500
*SECNO 25.523

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.83

25.523	11.99	1507.99	.00	.00	1508.19	.20	.07	.04	1498.00
4900.0	472.4	3501.1	926.6	229.7	885.4	337.9	1152.3	259.7	1498.00
1.85	2.06	3.95	2.74	.050	.035	.035	.000	1496.00	9930.02
.000331	120.	121.	120.	2	0	0	.00	161.62	10091.63

```
FLOW DISTRIBUTION FOR SECNO=     25.52          CWSEL=   1507.99

STA=    9930.    9950.    9963.   10037.   10050.   10092.
  PER Q=      3.0      6.7     71.5      9.5      9.4
   AREA=     99.8    129.9    885.4    129.9    208.0
    VEL=      1.5      2.5      4.0      3.6      2.2
  DEPTH=      5.0     10.0     12.0     10.0      5.0

*SECNO 25.534

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    25.534      5.21   1510.75   1510.75       .00   1513.36      2.61       .04      1.20   1515.00
    4900.0        .0    4900.0        .0        .0     378.2        .0    1153.5     259.9   1515.00
      1.85       .00     12.96       .00      .000      .015      .000      .000   1505.54   9963.45
   .002246       58.       58.       58.        20        14         0       .00     73.10  10036.55


FLOW DISTRIBUTION FOR SECNO=     25.53          CWSEL=   1510.75

STA=    9963.   10037.
  PER Q=    100.0
   AREA=    378.2
    VEL=     13.0
  DEPTH=      5.2
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO 25.551

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
    25.551      6.67   1512.21   1510.75       .00   1513.80      1.58       .13       .31   1515.00
    4900.0        .0    4900.0        .0        .0     485.2        .0    1154.4     260.1   1515.00
      1.85       .00     10.10       .00      .000      .015      .000      .000   1505.54   9963.29
   .001025       90.       90.       90.        25         5         0       .00     73.41  10036.71


FLOW DISTRIBUTION FOR SECNO=     25.55          CWSEL=   1512.21

STA=    9963.   10037.
  PER Q=    100.0
   AREA=    485.2
    VEL=     10.1
  DEPTH=      6.6

*SECNO 25.557
    25.557      6.54   1512.08       .00       .00   1514.01      1.93       .04       .18   1515.00
    4900.0        .0    4900.0        .0        .0     439.0        .0    1154.7     260.1   1515.00
      1.86       .00     11.16       .00      .000      .015      .000      .000   1505.54   9959.87
   .001385       32.       32.       32.         2         0         0       .00     80.27  10040.13
```

FLOW DISTRIBUTION FOR SECNO= 25.56 CWSEL= 1512.08

STA= 9960. 10046.
PER Q= 100.0
AREA= 439.0
VEL= 11.2
DEPTH= 5.5

*SECNO 25.561

3301 HV CHANGED MORE THAN HVINS

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SECNO Q TIME SLOPE	DEPTH QLOB VLOB XLOBL	CWSEL QCH VCH XLCH	CRIWS QROB VROB XLOBR	WSELK ALOB XNL ITRIAL	EG ACH XNCH IDC	HV AROB XNR ICONT	HL VOL WTN CORAR	OLOSS TWA ELMIN TOPWID	L-BANK ELEV R-BANK ELEV SSTA ENDST
25.561	8.76	1514.36	.00	.00	1514.55	.19	.02	.52	1514.90
2900.0	.0	2900.0	.0	.0	825.4	.0	1155.0	260.2	1515.20
1.86	.00	3.51	.00	.000	.035	.000	.000	1505.60	9949.33
.000529	20.	21.	20.	3	0	0	.00	117.68	10067.02

FLOW DISTRIBUTION FOR SECNO= 25.56 CWSEL= 1514.36

STA= 9949. 10069.
PER Q= 100.0
AREA= 825.4
VEL= 3.5
DEPTH= 7.0

CCHV= .100 CEHV= .300
*SECNO 25.680

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.43

25.680	8.24	1514.74	.00	.00	1514.78	.04	.21	.02	1514.40
2700.0	297.0	1319.3	1083.6	333.0	759.6	733.6	1174.2	265.7	1511.20
1.97	.89	1.74	1.48	.035	.035	.035	.000	1506.50	9471.45
.000225	580.	628.	660.	2	0	0	.00	663.75	10305.23

FLOW DISTRIBUTION FOR SECNO= 25.68 CWSEL= 1514.74

STA=	9471.	9688.	9796.	9927.	10093.	10167.	10278.	10295.	10305.
PER Q=	3.0	6.6	1.4	48.9	10.6	21.6	6.6	1.4	
AREA=	82.4	169.5	81.1	759.6	217.7	393.2	91.7	30.9	
VEL=	1.0	1.0	.5	1.7	1.3	1.5	2.0	1.2	
DEPTH=	.4	1.6	.6	4.6	2.9	3.5	5.4	3.0	

*SECNO 25.786

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1518.90 ELREA= 1515.80

25.786	5.62	1516.32	1516.32	.00	1516.97	.64	.32	.18	1518.90
2500.0	.0	1867.5	632.5	.0	258.0	212.4	1188.2	271.9	1515.80
1.99	.00	7.24	2.98	.000	.035	.035	.000	1510.70	9982.01
.005773	600.	560.	470.	20	18	0	.00	351.98	10442.86

FLOW DISTRIBUTION FOR SECNO= 25.79 CWSEL= 1516.32

STA=	9982.	10056.	10189.	10273.	10418.	10435.	10440.	10443.
PER Q=	74.7	11.2	3.6	2.1	5.7	2.4	.4	
AREA=	258.0	102.9	43.0	22.1	30.2	11.1	3.0	
VEL=	7.2	2.7	2.1	2.3	4.7	5.5	2.9	
DEPTH=	3.5	.8	.5	.2	1.8	2.2	1.1	

*SECNO 25.947

25.947	6.67	1521.07	.00	.00	1521.63	.56	4.65	.01	1522.70
2300.0	.0	1967.1	332.9	.0	315.1	80.7	1196.6	276.8	1520.60
2.03	.00	6.24	4.13	.000	.035	.035	.000	1514.40	9958.72
.005225	870.	850.	830.	2	0	0	.00	164.54	10123.26

FLOW DISTRIBUTION FOR SECNO= 25.95 CWSEL= 1521.07

STA=	9959.	10066.	10107.	10113.	10119.	10123.
PER Q=	85.5	6.7	3.2	3.9	.7	
AREA=	315.1	46.3	14.0	15.5	4.9	
VEL=	6.2	3.3	5.3	5.8	3.1	
DEPTH=	2.9	1.1	2.3	2.6	1.1	

*SECNO 26.058

26.058	7.29	1523.49	.00	.00	1523.98	.49	2.35	.01	1522.00
2200.0	620.8	1579.2	.0	178.1	251.8	.0	1202.0	279.1	1524.00
2.06	3.49	6.27	.00	.035	.035	.000	.000	1516.20	9841.26
.003212	540.	586.	570.	2	0	0	.00	182.03	10023.28

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 26.06 CWSEL= 1523.49

STA=	9841.	9904.	9927.	9951.	9966.	10024.
PER Q=	4.3	7.2	11.6	5.1	71.8	
AREA=	46.6	43.3	58.4	29.8	251.8	
VEL=	2.0	3.7	4.4	3.8	6.3	

```
  DEPTH=      .7      1.9      2.4      2.0      4.4

*SECNO 26.152
    26.152      4.99   1524.99      .00      .00   1525.46      .46      1.47      .00   1525.40
    2000.0       .0    2000.0       .0       .0     366.7       .0    1206.0    280.4   1526.00
      2.09      .00      5.45      .00     .000      .035     .000      .000  1520.00   9958.10
   .003182      240.     496.     550.        2         0        0       .00   105.87  10063.97

FLOW DISTRIBUTION FOR SECNO=     26.15          CWSEL=   1524.99

STA=    9958.   10069.
  PER Q=    100.0
   AREA=    366.7
    VEL=      5.5
  DEPTH=      3.5

*SECNO 26.265

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    26.265      6.15   1528.15   1528.15      .00   1529.39     1.24      3.01      .23   1531.70
    1900.0       .0    1758.2     141.8       .0     190.6     38.9    1210.1    281.8   1526.50
      2.11      .00      9.23      3.64     .000      .035     .035      .000  1522.00   9972.98
   .009530      580.     597.      610.        5        11        0       .00   103.26  10076.25

FLOW DISTRIBUTION FOR SECNO=     26.26          CWSEL=   1528.15

STA=    9973.   10029.   10076.
  PER Q=     92.5      7.5
   AREA=    190.6     38.9
    VEL=      9.2      3.6
  DEPTH=      3.4       .8
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 26.372

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.96

    26.372      7.55   1531.35      .00      .00   1531.67      .32      2.19      .09   1531.60
    1700.0       .0    1700.0       .0       .0     372.2       .0    1214.0    283.1   1533.80
      2.14      .00      4.57      .00     .000      .035     .000      .000  1523.80   9967.15
   .001979      600.     565.     510.        3         0        0       .00    97.17  10064.32

FLOW DISTRIBUTION FOR SECNO=     26.37          CWSEL=   1531.35

STA=    9967.   10080.
  PER Q=    100.0
   AREA=    372.2
    VEL=      4.6
  DEPTH=      3.8
```

*SECNO 26.492

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.99

26.492	6.45	1532.15	.00	.00	1532.22	.08	.53	.02	1537.50
1600.0	.0	1600.0	.0	.0	720.9	.0	1221.9	285.1	1536.00
2.22	.00	2.22	.00	.000	.035	.000	.000	1525.70	9885.25
.000442	640.	634.	610.	3	0	0	.00	183.14	10068.38

FLOW DISTRIBUTION FOR SECNO= 26.49 CWSEL= 1532.15

STA=	9885.	10084.
PER Q=	100.0	
AREA=	720.9	
VEL=	2.2	
DEPTH=	3.9	

*SECNO 26.582

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 6.37

26.582	8.14	1532.24	.00	.00	1532.24	.00	.01	.01	1528.20
1300.0	594.6	479.1	226.4	1979.9	1035.9	773.7	1246.2	290.0	1527.20
2.59	.30	.46	.29	.040	.030	.040	.000	1524.10	9470.61
.000007	460.	475.	480.	2	0	0	.00	718.47	10189.08

FLOW DISTRIBUTION FOR SECNO= 26.58 CWSEL= 1532.24

STA=	9471.	9539.	9568.	9602.	9655.	9691.	9725.	9752.	9786.	9845.	9869.	10028.	10086.
PER Q=	6.7	5.0	4.9	6.6	4.4	4.0	3.2	3.7	5.3	2.0	36.9	7.5	
AREA=	281.5	186.8	198.6	282.5	188.7	174.8	140.2	168.0	258.0	100.6	1035.9	315.7	
VEL=	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.5	.3	
DEPTH=	4.1	6.4	5.8	5.3	5.2	5.1	5.2	4.9	4.4	4.2	6.5	5.4	

STA=	10086.	10123.	10157.	10189.
PER Q=	4.7	3.8	1.4	
AREA=	199.5	170.6	87.9	
VEL=	.3	.3	.2	
DEPTH=	5.4	5.0	2.7	

*SECNO 26.673

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1535.00 ELREA= 1533.20

26.673	2.18	1533.98	1533.98	.00	1534.51	.53	.01	.16	1534.30

130	.0	1094.7	205.3	.0	174.3	74.2	269.0	295.3	1533.20
2.	.00	6.28	2.77	.000	.030	.040	.000	1531.80	9957.84
.009696	510.	480.	460.	20	14	0	.00	239.18	10280.56

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 26.67 CWSEL= 1533.98

STA=	9958.	10077.	10105.	10120.	10205.	10237.	10265.	10281.
PER Q=	84.2	5.2	.9	.0	3.6	5.2	.9	
AREA=	174.3	21.8	5.8	.3	18.5	21.8	6.1	
VEL=	6.3	3.1	1.9	1.2	2.5	3.1	1.9	
DEPTH=	1.5	.8	.4	.0	.6	.8	.4	

*SECNO 26.784
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

26.784	3.48	1546.18	1546.18	.00	1547.20	1.02	5.95	.15	1551.20
1100.0	.0	1100.0	.0	.0	135.8	.0	1271.5	297.3	1551.50
2.63	.00	8.10	.00	.000	.030	.000	.000	1542.70	9980.90
.010938	590.	586.	530.	20	14	0	.00	68.01	10048.91

FLOW DISTRIBUTION FOR SECNO= 26.78 CWSEL= 1546.18

STA=	9981.	10080.
PER Q=	100.0	
AREA=	135.8	
VEL=	8.1	
DEPTH=	2.0	

*SECNO 26.883

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 42.71

26.883	7.21	1547.31	.00	.00	1547.31	.00	.01	.10	1544.70
1000.0	.9	936.4	62.7	9.9	2370.0	292.0	1288.3	300.3	1542.80
3.01	.10	.40	.21	.040	.030	.040	.000	1540.10	9765.39
.000005	530.	523.	500.	2	0	0	.00	434.21	10199.60

FLOW DISTRIBUTION FOR SECNO= 26.88 CWSEL= 1547.31

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9765.	9773.	10122.	10148.	10166.	10179.	10194.	10200.

```
  PER Q=        .1      93.6       2.7       2.0       1.1        .4        .0
   AREA=       9.9    2370.0     119.8      85.6      52.1      31.6       2.8
    VEL=        .1        .4        .2        .2        .2        .1        .1
  DEPTH=       1.3       6.8       4.6       4.8       4.0       2.1        .5

*SECNO 26.984

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .52

    26.984      6.81   1547.31       .00       .00   1547.32       .00       .00       .00   1545.50
     900.0       1.3     764.0     134.7       9.7    1283.2     393.8    1314.4     305.0   1546.50
      3.27       .13       .60       .34      .040      .030      .040      .000   1540.50   9932.30
   .000015      480.      533.      460.         2         0         0       .00    371.10  10336.41


FLOW DISTRIBUTION FOR SECNO=     26.98          CWSEL=   1547.31

STA=    9932.    9943.   10170.   10256.   10271.   10290.   10323.   10336.
  PER Q=        .1      84.9       3.2       3.2       3.7       4.2        .7
   AREA=       9.7    1283.2      94.9      71.5      86.1     115.2      26.1
    VEL=        .1        .6        .3        .4        .4        .3        .2
  DEPTH=        .9       5.7       1.1       4.8       4.5       3.5       1.9

*SECNO 27.060

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1565.00 ELREA=      1562.60

    27.060      5.36   1559.46   1559.46       .00   1561.02      1.56       .02       .47   1560.80
     900.0        .0     900.0        .0        .0      89.8        .0    1322.8     307.0   1562.60
      3.28       .00     10.02       .00      .000      .030      .000      .000   1554.10   9983.67
   .010153      270.      401.      470.        20        15         0       .00     29.47  10013.14


1
   14APR06      10:33:57                                                                          PAGE    91

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=     27.06          CWSEL=   1559.46

STA=    9984.   10019.
  PER Q=    100.0
   AREA=     89.8
    VEL=     10.0
  DEPTH=      3.0

*SECNO 27.166

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.65
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3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1565.00 ELREA= 1565.00

27.166	6.98	1562.18	.00	.00	1562.35	.17	1.19	.14	1564.20
600.0	.0	600.0	.0	.0	181.4	.0	1324.6	307.4	1563.90
3.33	.00	3.31	.00	.000	.030	.000	.000	1555.20	9981.04
.000644	560.	560.	560.	3	0	0	.00	38.99	10020.03

FLOW DISTRIBUTION FOR SECNO= 27.17 CWSEL= 1562.18

STA= 9981. 10023.
PER Q= 100.0
AREA= 181.4
VEL= 3.3
DEPTH= 4.7

*SECNO 27.294

27.294	6.54	1562.54	.00	.00	1562.59	.05	.23	.01	1565.20
400.0	.0	400.0	.0	.0	232.9	.0	1327.8	308.1	1564.60
3.44	.00	1.72	.00	.000	.030	.000	.000	1556.00	9972.01
.000167	710.	676.	630.	3	0	0	.00	50.20	10022.21

FLOW DISTRIBUTION FOR SECNO= 27.29 CWSEL= 1562.54

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9972. 10027.
PER Q= 100.0
AREA= 232.9
VEL= 1.7
DEPTH= 4.6

CCHV= .100 CEHV= .300
*SECNO -19.560
START TRIB COMP

-19.560	19.560	1328.212							
-19.560	12.61	1328.21	.00	.00	1330.15	1.93	.00	.00	1329.70
14600.0	.0	14600.0	.0	.0	1307.9	.0	1340.7	309.6	1330.60
3.45	.00	11.16	.00	.000	.035	.000	.000	1315.60	9931.37
.003382	730.	729.	720.	0	0	0	.00	129.62	10060.99

FLOW DISTRIBUTION FOR SECNO= -19.56 CWSEL= 1328.21

STA= 9931. 10065.
PER Q= 100.0
AREA= 1307.9
VEL= 11.2
DEPTH= 10.1

*SECNO .029

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

```
     .029       9.75   1329.35   1329.35       .00   1332.60      3.24      1.11       .39   1329.50
   9500.0         .0    9478.3      21.7        .0     654.9      17.3    1350.5     310.9   1328.20
     3.46        .00     14.47      1.25      .000      .015      .035      .000   1319.60   9942.56
  .001821       380.      430.      450.        20        15         0       .00    130.50  10073.06

FLOW DISTRIBUTION FOR SECNO=       .03          CWSEL=   1329.35

STA=    9943.   10043.   10073.
  PER Q=     99.8       .2
   AREA=    654.9     17.3
    VEL=     14.5      1.3
  DEPTH=      6.5       .6
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO  .112

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

     .112      11.44   1332.94       .00       .00   1333.44       .50       .57       .27   1332.10
   9500.0      100.1    9399.9        .0      87.6    1654.0        .0    1363.8     313.4   1334.80
     3.49       1.14      5.68       .00      .035      .030      .000      .000   1321.50   9762.30
  .000828       430.      483.      450.         3         0         0       .00    330.25  10092.55

FLOW DISTRIBUTION FOR SECNO=       .11          CWSEL=   1332.94

STA=    9762.    9804.    9816.    9863.    9887.   10101.
  PER Q=       .0       .1       .6       .3     98.9
   AREA=      7.1      7.7     49.0     23.8   1654.0
    VEL=       .4       .9      1.3      1.2      5.7
  DEPTH=       .2       .6      1.0      1.0      8.0

*SECNO  .198
     .198       9.51   1333.31       .00       .00   1333.94       .63       .46       .04   1332.40
   9500.0      13.9    9486.1        .0      15.6    1493.4        .0    1380.7     316.4   1337.80
     3.51        .89      6.35       .00      .035      .030      .000      .000   1323.80   9860.87
  .001241       460.      454.      420.         2         0         0       .00    249.57  10110.44

FLOW DISTRIBUTION FOR SECNO=       .20          CWSEL=   1333.31

STA=    9861.    9897.   10133.
  PER Q=       .1     99.9
   AREA=     15.6   1493.4
    VEL=       .9      6.4
  DEPTH=       .4      7.0

*SECNO  .288

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
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```
    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

3720 CRITICAL DEPTH ASSUMED
      .288       7.61    1333.31    1333.31        .00    1335.83       2.52       1.21        .57    1336.00
    9500.0        .0     9500.0        .0         .0      745.7         .0     1393.0      318.6    1335.90
     3.52        .00      12.74        .00       .000       .030       .000       .000    1325.70    9903.19
   .007920       470.      475.       460.          3         15          0        .00     150.75   10053.94

FLOW DISTRIBUTION FOR SECNO=       .29          CWSEL=   1333.31

STA=    9903.   10069.
  PER Q=    100.0
   AREA=    745.7
    VEL=     12.7
  DEPTH=      4.9

*SECNO  .398

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.79

      .398       8.47    1337.27        .00        .00    1338.35       1.08       2.37        .14    1338.90
    9500.0        .0     9500.0        .0         .0     1138.7         .0     1405.6      320.8    1340.60
     3.54        .00       8.34        .00       .000       .030       .000       .000    1328.80    9912.48
   .002485       600.      581.       540.          2          0          0        .00     181.83   10094.30

FLOW DISTRIBUTION FOR SECNO=       .40          CWSEL=   1337.27

STA=    9912.   10119.
  PER Q=    100.0
   AREA=   1138.7
    VEL=      8.3
  DEPTH=      6.3

*SECNO  .482
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      .482      11.15    1342.35    1342.35        .00    1343.41       1.05       1.00        .00    1341.10
    9500.0       79.0     6887.4     2533.6       36.5      722.3      941.8     1418.2      324.7    1338.00
     3.55        2.17       9.54       2.69       .035       .030       .035       .000    1331.20    9903.83
   .002295       440.      444.       270.         20         12          0        .00     889.74   10793.57
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=       .48          CWSEL=   1342.35

STA=    9904.    9937.   10024.   10093.   10236.   10315.   10402.   10528.   10794.
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  PER Q=        .8      72.5       9.0       4.9       3.6       3.1       3.4       2.6
   AREA=      36.4     722.3     203.8     189.3     124.7     117.7     145.3     161.1
    VEL=       2.2       9.5       4.2       2.5       2.8       2.5       2.2       1.6
  DEPTH=       1.1       8.3       3.0       1.3       1.6       1.4       1.2        .6

*SECNO  .575
      .575     12.32   1343.82       .00       .00   1344.53       .71      1.09       .03   1340.20
    9500.0     727.3    7778.2     994.5     211.3    1057.4     451.4    1437.5     333.9   1343.10
      3.57      3.44      7.36      2.20      .035      .030      .035      .000   1331.50   9777.80
   .002143      460.      491.      500.         3         0         0       .00    730.21  10508.02


FLOW DISTRIBUTION FOR SECNO=       .57          CWSEL=   1343.82

STA=    9778.    9869.   10049.   10105.   10113.   10186.   10239.   10274.   10411.   10508.
  PER Q=       7.7      81.9       1.2        .1        .7       2.1       2.1       4.0        .3
   AREA=     211.3    1057.4      57.1       6.6      45.3      77.9      67.2     167.2      30.1
    VEL=       3.4       7.4       2.0       1.7       1.4       2.5       3.0       2.2        .9
  DEPTH=       2.3       5.9       1.0        .8        .6       1.5       1.9       1.2        .3

*SECNO  .697
      .697     11.06   1345.06       .00       .00   1346.10      1.04      1.47       .10   1346.40
    9400.0        .0    9013.5     386.5        .0    1081.8     113.6    1459.0     341.1   1341.40
      3.59       .00      8.33      3.40      .000      .030      .035      .000   1334.00   9856.01
   .002432      640.      644.      640.         2         0         0       .00    237.20  10093.21


FLOW DISTRIBUTION FOR SECNO=       .70          CWSEL=   1345.06

STA=    9856.   10023.   10061.   10093.
  PER Q=      95.9       3.8        .3
   AREA=    1081.8      93.4      20.2
    VEL=       8.3       3.8       1.5
  DEPTH=       6.5       2.5        .6

*SECNO  .826
1
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      .826      9.49   1348.29   1348.29       .00   1350.53      2.23      2.75       .36   1345.50
    9400.0     729.3    8670.7        .0     129.5     700.6        .0    1474.8     344.5   1349.50
      3.61      5.63     12.38       .00      .035      .035      .000      .000   1338.80   9845.35
   .007973      680.      681.      660.        20        15         0       .00    199.85  10045.20


FLOW DISTRIBUTION FOR SECNO=       .83          CWSEL=   1348.29

STA=    9845.    9893.    9929.   10050.
  PER Q=       1.8       6.0      92.2
   AREA=      45.1      84.4     700.6
    VEL=       3.7       6.7      12.4
  DEPTH=        .9       2.3       6.0

*SECNO  .945
```

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.23

.945	11.72	1352.12	.00	.00	1352.63	.52	1.93	.17	1348.60
9400.0	1059.5	7814.3	526.3	363.8	1260.4	223.3	1494.4	350.1	1349.50
3.64	2.91	6.20	2.36	.035	.035	.035	.000	1340.40	9624.18
.001604	680.	628.	600.	3	0	0	.00	561.70	10185.88

FLOW DISTRIBUTION FOR SECNO= .94 CWSEL= 1352.12

STA=	9624.	9674.	9704.	9769.	9819.	9843.	9856.	10034.	10046.	10100.	10186.
PER Q=	.0	.1	2.9	4.8	2.0	1.5	83.1	.9	3.1	1.6	
AREA=	7.9	9.5	111.6	135.8	59.2	39.9	1260.4	27.8	108.9	86.6	
VEL=	.5	.8	2.4	3.3	3.1	3.6	6.2	3.0	2.7	1.7	
DEPTH=	.2	.3	1.7	2.7	2.5	3.1	7.1	2.3	2.0	1.0	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.035

1.035	11.03	1352.93	.00	.00	1353.65	.72	.96	.06	1350.80
9400.0	1059.6	7955.9	384.6	284.3	1102.8	116.6	1512.3	355.5	1348.80
3.66	3.73	7.21	3.30	.035	.035	.035	.000	1341.90	9686.18
.002658	440.	475.	460.	3	0	0	.00	460.77	10146.95

FLOW DISTRIBUTION FOR SECNO= 1.03 CWSEL= 1352.93

STA=	9686.	9723.	9776.	9795.	9823.	9832.	9841.	10022.	10046.	10059.	10100.	10147.
PER Q=	1.2	2.5	.3	3.3	2.5	1.5	84.6	3.3	.3	.3	.1	
AREA=	44.8	81.2	14.8	73.7	39.9	30.0	1102.8	70.4	14.1	19.7	12.5	
VEL=	2.5	2.9	1.9	4.2	5.9	4.8	7.2	4.5	2.3	1.3	.9	
DEPTH=	1.2	1.5	.8	2.6	4.4	3.3	6.1	2.9	1.1	.5	.3	

*SECNO 1.121

1.121	10.56	1354.16	.00	.00	1354.96	.80	1.29	.02	1355.00
9400.0	.0	9396.0	4.0	.0	1310.2	4.9	1527.1	359.1	1353.60
3.68	.00	7.17	.82	.000	.040	.040	.000	1343.60	9871.67
.003028	480.	454.	440.	2	0	0	.00	235.28	10106.95

FLOW DISTRIBUTION FOR SECNO= 1.12 CWSEL= 1354.16

STA=	9872.	10069.	10082.	10107.
PER Q=	100.0	.0	.0	
AREA=	1310.2	4.1	.8	
VEL=	7.2	.9	.2	
DEPTH=	6.6	.3	.0	

*SECNO 1.204

3265 DIVIDED FLOW

3280 CROSS SECTION 1.20 EXTENDED .02 FEET

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1.204	11.12	1355.42	1355.42	.00	1357.51	2.09	2.02	.39	1355.60
9400.0	.0	8391.4	1008.6	.0	689.1	214.7	1538.3	361.4	1352.50
3.69	.03	12.18	4.70	.040	.040	.040	.000	1344.30	9930.00
.007829	430.	438.	450.	2	9	0	.00	226.07	10173.36

FLOW DISTRIBUTION FOR SECNO= 1.20 CWSEL= 1355.42

STA=	9930.	10043.	10057.	10072.	10098.	10165.	10173.
PER Q=	89.3	1.9	1.2	2.5	5.0	.1	
AREA=	689.1	31.8	25.1	47.4	105.3	5.1	
VEL=	12.2	5.7	4.6	4.9	4.4	2.4	
DEPTH=	7.4	2.3	1.7	1.8	1.6	.6	

*SECNO 1.315

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.29

1.315	10.53	1359.33	.00	.00	1359.72	.39	2.04	.17	1359.70
9100.0	.0	6944.0	2156.0	.0	1301.1	568.6	1561.3	366.0	1359.00
3.73	.00	5.34	3.79	.000	.040	.040	.000	1348.80	9904.63
.001396	720.	734.	700.	3	0	0	.00	332.04	10236.67

FLOW DISTRIBUTION FOR SECNO= 1.32 CWSEL= 1359.33

STA=	9905.	10074.	10085.	10091.	10130.	10150.	10170.	10230.	10237.
PER Q=	76.3	.1	.2	1.0	3.4	8.4	10.5	.1	
AREA=	1301.1	10.3	8.6	52.0	86.7	146.7	260.0	4.4	
VEL=	5.3	1.3	1.8	1.7	3.6	5.2	3.7	1.0	
DEPTH=	7.7	.9	1.4	1.3	4.3	7.3	4.3	.7	

*SECNO 1.420

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
1
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

1.420	5.09	1359.99	1359.99	.00	1362.07	2.08	1.02	.51	1360.00

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    9100.          .0    9100.0        .0        .0     786.8        .0      73.8     368.5   1360.00
      3.74        .00     11.57       .00      .000      .025      .000      .000   1354.90   9895.02
   .005734       380.      407.      420.        20        11         0       .00    189.95  10084.98

 FLOW DISTRIBUTION FOR SECNO=      1.42          CWSEL=   1359.99

 STA=    9895.   10085.
   PER Q=    100.0
    AREA=    786.8
     VEL=     11.6
   DEPTH=      4.1

1
    14APR06      10:33:57                                                                                PAGE  100

 T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
 T2      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY 1989 BY BURGESS & NIPLE
 T3      CAVE CREEK WASH          FLOODWAY        J.MISCHLER

 J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

                3.                                                                  1284.69

 J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15.                 -1.

1
    14APR06      10:33:57                                                                                PAGE  101

     SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
     Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
     TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
     SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

 *PROF 2
0

 CCHV=      .100 CEHV=      .300
 *SECNO 17.588
  2800 NAT Q1=     5622.52  WSELK=    1283.69  ENC Q1=     5622.52  WSEL=    1284.69  RATIO=     .0000
  NAT Q1=     6698.  RATIOS LOB, CH, ROB=     .2409    .7347    .0244  WSEL=    1284.69

 3470 ENCROACHMENT STATIONS=     9855.2   10193.0  TYPE=      4  TARGET=          .161
     17.588     15.09   1284.69       .00   1283.69   1285.08       .39       .00       .00   1278.10
    15400.0    1964.8   13435.2        .0     646.6    2548.7        .0        .0        .0   1276.40
        .00      3.04      5.27       .00      .040      .040      .000      .000   1269.60   9855.24
    .000784      440.      496.      560.         0         0         0       .00    337.76  10193.00

 *SECNO 17.662

 3301 HV CHANGED MORE THAN HVINS

 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =    .54

 3470 ENCROACHMENT STATIONS=     9900.0   10150.0  TYPE=      1  TARGET=      250.000
     17.662     13.21   1284.81       .00   1283.82   1285.77       .96       .51       .17   1276.40
    15400.0    2238.0   13039.2     122.7     318.6    1628.5      41.0      23.1       2.6   1281.60
        .01      7.02      8.01      2.99      .040      .040      .040      .000   1271.60   9900.00
    .002664      380.      391.      400.         2         0         0       .00    250.00  10150.00
```

```
*SECNO 17.783
 2800 NAT Q1=    1848.70  WSELK=    1285.58  ENC Q1=    2096.47  WSEL=    1286.58  RATIO=   -.1340
 NAT Q1=    2292.  RATIOS LOB, CH, ROB=    .0251   .9148   .0601  WSEL=    1286.58

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .64


3470 ENCROACHMENT STATIONS=     9921.0   10064.0  TYPE=      4  TARGET=         .085
    17.783     10.97   1286.37       .00   1285.58   1288.65      2.28      2.49       .40   1280.50
   15400.0        .0   15400.0        .0        .0    1271.4        .0      46.6       5.4   1281.10
       .03       .00     12.11       .00      .000      .040      .000      .000   1275.40   9921.00
   .006431      540.      639.      500.         2         0         0       .00    143.00  10064.00


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   14APR06      10:33:57                                                                                    PAGE  102

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


*SECNO 17.932
 2800 NAT Q1=    1583.93  WSELK=    1290.98  ENC Q1=    1874.27  WSEL=    1291.98  RATIO=   -.1833
 NAT Q1=    1919.  RATIOS LOB, CH, ROB=    .0153   .9768   .0079  WSEL=    1291.98

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9956.0   10066.0  TYPE=      4  TARGET=         .023
    17.932     13.51   1291.41       .00   1290.98   1294.76      3.36      5.79       .32   1289.70
   15400.0        .0   15400.0        .0        .0    1047.0        .0      67.6       7.7   1290.20
       .04       .00     14.71       .00      .000      .040      .000      .000   1277.90   9956.00
   .008488      790.      787.      780.         2         0         0       .00    110.00  10066.00


CCHV=     .300 CEHV=     .500
*SECNO 18.042
 2800 NAT Q1=    2422.94  WSELK=    1294.31  ENC Q1=    2802.31  WSEL=    1295.31  RATIO=   -.1566
 NAT Q1=    2802.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1295.31

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48


3470 ENCROACHMENT STATIONS=     9951.0   10049.0  TYPE=      4  TARGET=         .000
    18.042     12.13   1294.43       .00   1294.31   1298.17      3.74      3.22       .19   1357.40
   15400.0        .0   15400.0        .0        .0     992.5        .0      81.2       9.1   1307.40
       .05       .00     15.52       .00      .000      .025      .000      .000   1282.30   9951.60
   .003893      620.      581.      550.         2         0         0       .00     96.78  10048.38


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.05      1.56      3.00       .00     75.00      4.00   1059.00       .81   1280.20   1279.90

*SECNO 18.061
BTCARD, BRIDGE STENCL=    9951.00   STENCR=   10049.00
 2800 NAT Q1=    2933.00  WSELK=    1296.44  ENC Q1=    3334.23  WSEL=    1297.44  RATIO=   -.1368
```

NAT Q1= 3334. RATIOS LOB, CH, ROB= .0000 1.0000 .0000 WSEL= 297.44

3301 HV CHANGED MORE THAN HVINS

1

14APR06 10:33:57

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1299.55	1299.06	1.10	0.	15400.	1059.	1060.	1293.20	1301.60	0.

3470 ENCROACHMENT STATIONS= 9951.0 10049.0 TYPE= 4 TARGET= .000

18.061	13.59	1296.69	.00	1296.44	1299.55	2.86	1.38	.00	1358.20
15400.0	.0	15400.0	.0	.0	1133.8	.0	83.6	9.3	1308.20
.06	.00	13.58	.00	.000	.025	.000	.000	1283.10	9951.53
.002582	101.	101.	101.	3	0	0	.00	96.91	10048.45

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.96

3470 ENCROACHMENT STATIONS= 9900.0 10085.0 TYPE= 1 TARGET= 185.000

18.081	18.51	1299.61	.00	1299.54	1300.32	.71	.13	.65	1286.60
15400.0	1220.6	12608.4	1571.0	308.4	1745.1	357.6	88.0	9.7	1284.90
.06	3.96	7.22	4.39	.035	.035	.035	.000	1281.10	9900.00
.000671	80.	106.	130.	3	0	0	.00	185.00	10085.00

CCHV= .100 CEHV= .300
*SECNO 18.174

3470 ENCROACHMENT STATIONS= 9857.0 10125.0 TYPE= 1 TARGET= 268.000

18.174	18.48	1300.18	.00	1300.22	1300.63	.45	.28	.03	1288.70
15400.0	1800.2	13116.1	483.8	472.7	2324.4	213.2	118.6	12.2	1294.60
.09	3.81	5.64	2.27	.035	.035	.035	.000	1281.70	9857.02
.000485	500.	491.	490.	2	0	0	.00	267.98	10125.00

*SECNO 18.269

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14APR06 10:33:57

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

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3470 ENCROACHMENT STATIONS=     9882.2   10110.0  TYPE=      1  TARGET=      227.800
    18.269     16.50   1300.30       .00   1300.17   1301.04       .74       .32       .09   1288.40
   15400.0    2281.3   12415.2     703.5     452.7    1691.6     205.0     149.4      15.1   1292.40
       .11      5.04      7.34      3.43      .035      .035      .035      .000   1283.80   9882.20
   .000870      500.      502.      500.         2         0         0       .00    227.80  10110.00

*SECNO 18.362

3470 ENCROACHMENT STATIONS=     9895.6   10107.8  TYPE=      1  TARGET=      212.200
    18.362     15.34   1300.64       .00   1300.54   1301.60       .95       .50       .06   1290.00
   15400.0    1169.8   13188.3    1041.9     244.9    1597.1     244.2     174.5      17.6   1290.60
       .12      4.78      8.26      4.27      .035      .035      .035      .000   1285.30   9895.60
   .001186      490.      491.      510.         1         0         0       .00    212.20  10107.80

*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9885.0   10110.0  TYPE=      1  TARGET=      225.000
    18.445     17.61   1304.91   1304.91   1305.39   1307.77      2.86      1.00       .57   1290.00
   15400.0    5150.6    4076.3    6173.1     519.2     211.4     537.3     191.9      19.8   1290.00
       .13      9.92     19.29     11.49      .035      .035      .035      .000   1287.30   9888.33
   .005594      470.      440.      460.        20        11         0       .00    221.67  10110.00


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      2.34      3.00       .00      6.11      1.00     33.20       .00   1287.70   1287.40

*SECNO 18.456
BTCARD, BRIDGE STENCL=    9885.00   STENCR=   10110.00

3301 HV CHANGED MORE THAN HVINS

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   14APR06      10:33:57                                                                                    PAGE  105

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.86

PRESSURE AND WEIR FLOW,  Weir Submergence Based on TRAPEZOIDAL Shape

 EGPRS      EGLWC      H3         QWEIR      QPR        BAREA    TRAPEZOID      ELLC      ELTRD      WEIRLN
                                                                    AREA
   9122.90   1309.51      1.74    15031.      376.       33.       33.     1294.20   1299.50       225.


3470 ENCROACHMENT STATIONS=     9885.0   10110.0  TYPE=      1  TARGET=      225.000
    18.456     20.82   1308.52       .00   1307.31   1309.57      1.05      1.80       .00   1290.40
   15400.0    5931.9    2952.3    6515.8     862.2     253.1     874.7     194.1      20.2   1290.40
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      6.88      11.66      7.45      .035      .035      .035      .000   1287.70   9885.00
.0016 60.        60.        60.        3         0         7       .00    225.00  10110.00

*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.19

3470 ENCROACHMENT STATIONS=     9881.4   10169.8  TYPE=      1  TARGET=      288.399
   18.545     20.26   1309.56       .00   1308.28   1309.93       .37       .29       .07   1294.10
  15400.0    1923.3   10840.1    2636.6     584.0    1994.2     825.5     222.8      22.9   1293.80
      .16      3.29      5.44      3.19      .035      .035      .035      .000   1289.30   9881.40
 .000334      440.      466.      480.         2         0         0       .00    288.40  10169.80

*SECNO 18.575

3470 ENCROACHMENT STATIONS=     9880.7   10170.8  TYPE=      1  TARGET=      290.100
   18.575     20.37   1309.67       .00   1308.43   1309.99       .32       .05       .00   1291.50
  15400.0    3707.2    3015.7    8677.1     946.3     545.8    1943.6     235.4      23.9   1289.70
      .17      3.92      5.53      4.46      .035      .035      .035      .000   1289.30   9880.70
 .000325      160.      160.      160.         2         0         0       .00    290.10  10170.80

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   14APR06      10:33:57                                                                    PAGE  106

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

SPECIAL BRIDGE

SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.25       1.56       3.00        .00      10.40       1.00      56.50       .00    1289.40    1289.30

*SECNO 18.583
BTCARD, BRIDGE STENCL=    9876.10   STENCR=   10177.20
PRESSURE AND WEIR FLOW,  Weir Submergence Based on TRAPEZOIDAL Shape

 EGPRS      EGLWC      H3         QWEIR      QPR        BAREA      TRAPEZOID  ELLC       ELTRD      WEIRLN
                                                                    AREA
  3109.30   1310.06      .06     15166.      309.        57.        56.     1295.40    1299.00      290.

3470 ENCROACHMENT STATIONS=     9876.1   10177.2  TYPE=      1  TARGET=      301.101
   18.583     20.69   1310.09       .00   1309.50   1310.39       .31       .40       .00   1291.60
  15400.0    3739.8    2983.7    8676.5     980.5     554.7    2005.0     238.6      24.2   1289.80
      .17      3.81      5.38      4.33      .035      .035      .035      .000   1289.40   9876.10
 .000301       40.       40.       40.         2         0         8       .00    301.10  10177.20

*SECNO 18.640

3470 ENCROACHMENT STATIONS=     9879.6   10134.7  TYPE=      1  TARGET=      255.101
   18.640     19.82   1310.02       .00   1309.43   1310.59       .57       .12       .08   1294.60
  15400.0    2433.4    9638.4    3328.3     557.4    1397.4     771.3     260.5      26.2   1293.40
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      .19       4.37       6.90       4.32       .035       .035       .035       .000    1290.20    9879.60
  .000567       300.       301.       310.          2          0          0        .00     255.10   10134.70

*SECNO 18.734

3470 ENCROACHMENT STATIONS=     9883.2   10111.7  TYPE=      1  TARGET=      228.500
   18.734      17.84    1310.24        .00    1309.68    1310.99        .75        .34        .05    1298.60
  15400.0     1412.7    13301.7      685.5      334.5     1817.1      202.6      289.4       28.9    1300.80
      .21       4.22       7.32       3.38       .035       .035       .035       .000    1292.40    9883.20
  .000841       490.       496.       500.          0          0          0        .00     228.50   10111.70

*SECNO 18.832

3470 ENCROACHMENT STATIONS=     9891.8   10107.0  TYPE=      1  TARGET=      215.200
1
   14APR06      10:33:57                                                                                PAGE  107

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

   18.832      17.46    1310.66        .00    1310.19    1311.44        .78        .44        .01    1302.80
  15400.0      497.2    12812.5     2090.3      155.5     1713.0      426.4      317.0       31.5    1297.10
      .23       3.20       7.48       4.90       .035       .035       .035       .000    1293.20    9891.80
  .000880       480.       517.       540.          2          0          0        .00     215.20   10107.00

*SECNO 18.925

3470 ENCROACHMENT STATIONS=     9887.7   10087.5  TYPE=      1  TARGET=      199.800
   18.925      16.45    1311.05        .00    1310.64    1311.94        .89        .46        .03    1297.60
  15400.0     1782.2    12651.3      966.5      370.2     1567.8      226.4      342.1       33.9    1300.00
      .25       4.81       8.07       4.27       .035       .035       .035       .000    1294.60    9887.70
  .001019       480.       491.       500.          2          0          0        .00     199.80   10087.50

*SECNO 19.018

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .63

3470 ENCROACHMENT STATIONS=     9866.3   10038.5  TYPE=      1  TARGET=      172.200
   19.018      13.66    1311.26        .00    1310.89    1312.92       1.66        .75        .23    1305.10
  15400.0      558.1    14803.5       38.4      120.2     1408.9       13.8      362.9       36.0    1308.40
      .26       4.64      10.51       2.79       .035       .035       .035       .000    1297.60    9866.30
  .002537       460.       491.       520.          2          0          0        .00     172.20   10038.50

*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9942.1   10061.9  TYPE=      1  TARGET=      119.801
   19.117      14.08    1312.68    1312.68    1312.49    1316.84       4.15       1.97        .75    1302.90
  15400.0     1457.2    11826.8     2116.0      154.6      662.8      205.2      378.3       37.7    1301.50
```

.[illegible]	9.42	17.84	10.31	.035	.035	.035	[illegible].000	1298.60	9942.10
.006175	490.	523.	560.	20	8	0	.00	119.80	10061.90

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.54

3470 ENCROACHMENT STATIONS= 9923.1 10081.0 TYPE= 1 TARGET= 157.900

19.210	16.90	1317.10	.00	1317.19	1318.95	1.85	1.88	.23	1312.00
15400.0	219.5	14969.9	210.6	55.2	1353.6	53.1	392.3	39.3	1312.00
.28	3.97	11.06	3.97	.035	.035	.035	.000	1300.20	9923.33
.002610	500.	491.	490.	3	0	0	.00	157.49	10080.82

CCHV= .300 CEHV= .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1324.00 ELREA= 1324.00

19.283	8.22	1319.92	1319.92	1319.92	1324.04	4.13	1.67	1.14	1311.70
14600.0	.0	14600.0	.0	.0	895.7	.0	402.8	40.5	1311.70
.29	.00	16.30	.00	.000	.035	.000	.000	1311.70	9948.00
.008889	390.	386.	390.	20	11	0	.00	109.00	10057.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1318.71 , NOT 1319.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	.00	109.00	4.50	1304.00	.00	1311.70	1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS

1

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1320.16 BRIDGE VELOCITY= 16.51 CALCULATED CHANNEL AREA= 884.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1322.95	1324.65	.00	0.	14600.	1304.	1306.	1324.20	1326.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1325.00 ELREA= 1325.00

19.299	10.36	1322.06	.00	1322.06	1324.65	2.60	.61	.00	1311.70
14600.0	.0	14600.0	.0	.0	1128.7	.0	404.8	40.7	1311.70
.29	.00	12.94	.00	.000	.035	.000	.000	1311.70	9948.00
.004112	86.	86.	86.	0	0	0	.00	109.00	10057.00

*SECNO 19.313
2800 NAT Q1= 2287.58 WSELK= 1323.31 ENC Q1= 2700.20 WSEL= 1324.31 RATIO= -.1804
NAT Q1= 2700. RATIOS LOB, CH, ROB= .0000 1.0000 .0000 WSEL= 1324.31

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9932.0 10112.0 TYPE= 4 TARGET= .000

19.313	11.60	1323.30	.00	1323.31	1325.17	1.87	.30	.22	1327.90
14600.0	.0	14600.0	.0	.0	1330.4	.0	406.9	40.9	1325.50
.29	.00	10.97	.00	.000	.035	.000	.000	1311.70	9944.35
.004078	75.	74.	75.	4	0	0	.00	159.64	10103.99

CCHV= .100 CEHV= .300
*SECNO 19.418
2800 NAT Q1= 2296.67 WSELK= 1325.59 ENC Q1= 2729.66 WSEL= 1326.59 RATIO= -.1885
NAT Q1= 2731. RATIOS LOB, CH, ROB= .0000 .9994 .0006 WSEL= 1326.59

3470 ENCROACHMENT STATIONS= 9948.0 10120.0 TYPE= 4 TARGET= .001

19.418	12.59	1325.59	.00	1325.59	1327.43	1.83	2.25	.00	1328.00
14600.0	.0	14600.0	.0	.0	1343.4	.0	423.9	42.9	1326.10
.31	.00	10.87	.00	.000	.035	.000	.000	1313.00	9955.11
.004041	570.	554.	530.	3	0	0	.00	162.69	10117.80

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19.560
2800 NAT Q1= 2508.10 WSELK= 1328.21 ENC Q1= 2890.11 WSEL= 1329.21 RATIO= -.1523
NAT Q1= 2890. RATIOS LOB, CH, ROB= .0000 1.0000 .0000 WSEL= 1329.21

3470 ENCROACHMENT STATIONS= 9929.0 10065.0 TYPE= 4 TARGET= .000

19.560	12.61	1328.21	.00	1328.21	1330.15	1.93	2.69	.03	1329.70
14600.0	.0	14600.0	.0	.0	1308.0	.0	446.0	45.4	1330.60
.33	.00	11.16	.00	.000	.035	.000	.000	1315.60	9931.37
.003382	730.	729.	720.	2	0	0	.00	129.63	10060.99

```
CCHV=      .300 CEHV=      .500
*SECNO 19.625
 2800 NAT Q1=     3892.33  WSELK=     1329.89  ENC Q1=     4433.23  WSEL=     1330.89  RATIO=    -.1390
 NAT Q1=     4433.  RATIOS LOB, CH, ROB=     .0000  1.0000   .0000  WSEL=     1330.89

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9965.0   10025.0  TYPE=      4  TARGET=          .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1332.00 ELREA=      1332.00

    19.625     12.35   1329.95       .00   1329.89   1330.87       .92       .42       .30   1317.60
    5700.0        .0    5700.0        .0        .0     741.2        .0     454.6      46.2   1317.60
       .34       .00      7.69       .00      .000      .015      .000      .000   1317.60   9965.00
   .000271      580.      364.       70.         3         0         0       .00     60.00  10025.00


SPECIAL BRIDGE

SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.05       1.56       3.00     100.00      60.00       2.00     564.00       .00    1318.60    1317.60

*SECNO 19.691
 2800 NAT Q1=     4235.58  WSELK=     1331.53  ENC Q1=     4792.54  WSEL=     1332.53  RATIO=    -.1315
 NAT Q1=     4793.  RATIOS LOB, CH, ROB=     .0000  1.0000   .0000  WSEL=     1332.53
PRESSURE FLOW

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   14APR06       10:33:57                                                                                PAGE  111

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


 EGPRS      EGLWC      H3         QWEIR      QPR        BAREA      TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                      AREA
  1332.43   1331.10       .08        0.      5700.       564.       563.      1328.30    1334.80        0.


3470 ENCROACHMENT STATIONS=     9965.0   10025.0  TYPE=      4  TARGET=          .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1333.00 ELREA=      1333.00

    19.691     13.00   1331.60       .00   1331.53   1332.43       .83      1.56       .00   1318.60
    5700.0        .0    5700.0        .0        .0     780.3        .0     460.7      46.7   1318.60
       .35       .00      7.30       .00      .000      .015      .000      .000   1318.60   9965.00
   .000231      330.      350.      430.         2         0         0       .00     60.00  10025.00


*SECNO 19.742

3470 ENCROACHMENT STATIONS=     9953.0   10038.0  TYPE=      1  TARGET=        85.000
    19.742     12.93   1332.03       .00   1331.99   1332.57       .54       .05       .09 100000.00
    5700.0        .0    5700.0        .0        .0     969.0        .0     466.1      47.1 100000.00
       .36       .00      5.88       .00      .000      .015      .000      .000   1319.10   9953.00
   .000167       80.      269.      470.         2         0         0       .00     85.00  10038.00
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CCHV=      .100 CEHV=      .300
*SECNO 19.847

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .36


3470 ENCROACHMENT STATIONS=     9957.0   10043.0  TYPE=      1  TARGET=       86.000
    19.847      13.34   1332.14       .00   1332.14   1332.81       .67       .20       .04 100000.00
    5700.0         .0    5700.0        .0        .0     868.5        .0     477.8      48.2 100000.00
       .39        .00      6.56       .00      .000      .035      .000      .000   1318.80   9957.00
   .001291       570.      554.      520.         0         0         0       .00     86.00  10043.00


*SECNO 19.960

3301 HV CHANGED MORE THAN HVINS

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   14APR06      10:33:57                                                                                    PAGE  112

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .37


3470 ENCROACHMENT STATIONS=     9958.0   10031.0  TYPE=      1  TARGET=       73.000
    19.960       7.83   1332.43       .00   1332.37   1335.03      2.60      1.64       .58   1330.00
    5700.0         .0    5700.0        .0        .0     440.5        .0     486.8      49.3 100000.00
       .40        .00     12.94       .00      .000      .035      .000      .000   1324.60   9958.00
   .009425       640.      597.      560.         2         0         0       .00     73.00  10031.00


CCHV=      .300 CEHV=      .500
*SECNO 19.974

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.49


3470 ENCROACHMENT STATIONS=     9969.0   10020.0  TYPE=      1  TARGET=       51.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1336.00 ELREA=      1336.00

    19.974       9.87   1333.67       .00   1333.31   1335.66      1.99       .45       .18   1323.80
    5700.0         .0    5700.0        .0        .0     503.0        .0     487.6      49.4 100000.00
       .40        .00     11.33       .00      .000      .035      .000      .000   1323.80   9969.00
   .004262       105.       74.       65.         3         0         0       .00     51.00  10020.00


SPECIAL BRIDGE

SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.25       1.56       3.00        .00     51.00       3.00     480.00       .00   1324.10    1323.80

*SECNO 19.986
BTCARD, BRIDGE STENCL=    9969.00   STENCR=   10020.00

3301 HV CHANGED MORE THAN HVINS
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1337.08	1336.16	.79	0.	5700.	480.	480.	1334.10	1337.90	0.

3470 ENCROACHMENT STATIONS= 9969.0 10020.0 TYPE= 1 TARGET= 51.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1337.00 ELREA= 1337.00

19.986	11.92	1335.72	.00	1335.25	1337.08	1.37	1.42	.00	1323.80
5700.0	.0	5700.0	.0	.0	607.9	.0	488.4	49.5	100000.00
.40	.00	9.38	.00	.000	.035	.000	.000	1323.80	9969.00
.002370	61.	61.	61.	3	0	0	.00	51.00	10020.00

*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9975.0 10025.0 TYPE= 1 TARGET= 50.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1340.00 ELREA= 100000.00

20.049	11.10	1338.20	1338.20	1338.35	1341.96	3.76	1.48	1.20	100000.00
5700.0	.0	5700.0	.0	.0	366.4	.0	492.1	49.9	100000.00
.41	.00	15.56	.00	.000	.035	.000	.000	1327.10	9975.00
.011186	305.	333.	345.	20	11	0	.00	49.93	10024.93

CCHV= .100 CEHV= .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.73

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9972.0 10029.0 TYPE= 1 TARGET= 57.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1344.00 ELREA= 1340.80

20.144	12.48	1343.38	.00	1343.48	1345.17	1.79	3.01	.20	100000.00
5700.0	.0	5671.1	28.9	.0	526.6	9.6	497.3	50.5	1340.80
.42	.00	10.77	3.02	.000	.035	.040	.000	1330.90	9972.00
.003733	490.	502.	500.	2	0	0	.00	57.00	10029.00

*SECNO 20.242

3470 ENCROACHMENT STATIONS= 9964.0 10035.0 TYPE= 1 TARGET= 71.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1348.00 ELREA= 1342.80

20.242	12.21	1345.51	.00	1345.49	1347.16	1.65	1.98	.01	100000.00
5700.0	.0	5645.3	54.7	.0	545.7	15.7	503.8	51.2	1342.80
.44	.00	10.35	3.49	.000	.035	.040	.000	1333.30	9964.00
.003905	470.	517.	560.	3	0	0	.00	71.00	10035.00

*SECNO 20.335

3470 ENCROACHMENT STATIONS= 9963.0 10036.0 TYPE= 1 TARGET= 73.000

20.335	10.24	1347.54	.00	1347.44	1348.79	1.25	1.59	.04	100000.00
5700.0	.0	5672.0	28.0	.0	630.1	10.2	510.6	52.0	1344.00
.45	.00	9.00	2.76	.000	.035	.040	.000	1337.30	9963.00
.002739	510.	491.	470.	2	0	0	.00	73.00	10036.00

CCHV= .300 CEHV= .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1351.50 ELREA= 1351.50

20.347	10.22	1347.42	.00	1347.24	1349.28	1.86	.18	.30	1337.20
5700.0	.0	5700.0	.0	.0	521.2	.0	511.4	52.1	1337.20
.45	.00	10.94	.00	.000	.035	.000	.000	1337.20	9970.00
.002991	1.	63.	150.	2	0	0	.00	51.00	10021.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1337.70	1337.20

*SECNO 20.366
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN

1349	1349.73	.68	0.	5700.	576.	576.	1349.70	1354.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.366	10.98	1348.18	.00	1347.97	1349.79	1.61	.52	.00	1337.20
5700.0	.0	5700.0	.0	.0	560.2	.0	512.7	52.3	1337.20
.46	.00	10.17	.00	.000	.035	.000	.000	1337.20	9970.00
.002352	100.	100.	100.	3	0	0	.00	51.00	10021.00

*SECNO 20.423

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9958.0 10072.0 TYPE= 1 TARGET= 114.000

20.423	11.71	1349.71	.00	1349.57	1350.61	.91	.61	.21	1345.00
5700.0	107.1	5250.9	342.0	39.5	665.4	90.5	517.3	52.8	1344.30
.47	2.71	7.89	3.78	.040	.035	.040	.000	1338.00	9958.20
.001788	415.	301.	205.	3	0	0	.00	113.80	10072.00

*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.430	9.97	1349.27	.00	1349.13	1351.22	1.95	.09	.52	1339.30
5700.0	.0	5700.0	.0	.0	508.8	.0	517.9	52.9	1339.30
.47	.00	11.20	.00	.000	.035	.000	.000	1339.30	9985.00
.003242	1.	37.	65.	2	0	0	.00	51.00	10036.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1339.30	1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1348.77 BRIDGE VELOCITY= 12.54 CALCULATED CHANNEL AREA= 455.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1351.64	1351.71	.75	0.	5700.	576.	576.	1351.30	1355.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1353.50 ELREA= 1353.50

20.444	10.72	1350.02	.00	1349.92	1351.71	1.69	.49	.00	1339.30

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    5700.0        .0    5700.0        .0        .0     546.8        .0     518.7      53.0   1339.30
       .47       .00     10.43       .00      .000      .035      .000      .000   1339.30   9985.00
   .002550       70.       70.       70.         0         0         0       .00     51.00  10036.00

*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     9930.0   10069.0  TYPE=      1  TARGET=      139.000
    20.529      9.24   1352.24       .00   1352.25   1353.01       .77      1.02       .28   1350.20
    5700.0      79.8    5564.0      56.2      32.8     783.6      24.7     525.9      54.0   1350.40
       .49      2.44      7.10      2.28      .040      .035      .040      .000   1343.00   9930.00
   .002052      545.      449.      375.         3         0         0       .00    139.00  10069.00

CCHV=     .100 CEHV=     .300
*SECNO 20.628

3470 ENCROACHMENT STATIONS=     9935.0   10065.0  TYPE=      1  TARGET=      130.000
    20.628     10.04   1353.34       .00   1353.31   1353.79       .45       .75       .03 100000.00
    5700.0        .0    5700.0        .0        .0    1059.1        .0     537.3      55.6 100000.00
       .52       .00      5.38       .00      .000      .035      .000      .000   1343.30   9935.00
   .001054      530.      523.      520.         2         0         0       .00    130.00  10065.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9962.0   10026.0  TYPE=      1  TARGET=       64.000
    20.725      8.74   1355.94   1355.94   1356.04   1359.12      3.18      1.26       .82 100000.00
    5700.0        .0    5700.0        .0        .0     398.2        .0     545.9      56.7 100000.00
       .53       .00     14.31       .00      .000      .035      .000      .000   1347.20   9962.00
   .011046      510.      512.      520.        20        15         0       .00     64.00  10026.00

CCHV=     .300 CEHV=     .500
*SECNO 20.737
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1363.00 ELREA=      1363.00

    20.737      7.30   1358.20   1358.20   1358.17   1361.84      3.64       .80       .23   1350.90
    5700.0        .0    5700.0        .0        .0     372.1        .0     546.6      56.8   1350.90
       .53       .00     15.32       .00      .000      .035      .000      .000   1350.90   9968.00
   .009201       80.       80.       80.        20        11         0       .00     51.00  10019.00
```

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1356.93 , NOT 1358.20 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1351.00	1350.90

*SECNO 20.750

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

1

14APR06 10:33:57

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1358.54 BRIDGE VELOCITY= 15.64 CALCULATED CHANNEL AREA= 362.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1362.70	.00	0.	5700.	576.	576.	1363.00	1366.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1364.00 ELREA= 1364.00

20.750	9.60	1360.60	.00	1360.60	1362.70	2.11	.86	.00	1351.00
5700.0	.0	5700.0	.0	.0	489.5	.0	547.3	56.9	1351.00
.53	.00	11.64	.00	.000	.035	.000	.000	1351.00	9968.00
.003686	71.	71.	71.	0	0	0	.00	51.00	10019.00

*SECNO 20.819

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1366.90 ELREA= 1366.90

20.819	5.87	1362.37	.00	1362.37	1364.78	2.41	1.92	.15	1356.50
5700.0	.0	5700.0	.0	.0	457.7	.0	551.2	57.4	1356.50
.54	.00	12.45	.00	.000	.035	.000	.000	1356.50	9965.00
.008131	375.	365.	345.	3	0	0	.00	78.00	10043.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1361.20 , NOT 1362.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	77.30	3.30	655.00	.00	1357.40	1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1362.64 BRIDGE VELOCITY= 13.54 CALCULATED CHANNEL AREA= 388.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1364.20	1366.08	.00	0.	5700.	655.	592.	1365.40	1369.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1367.90 ELREA= 1367.90

20.841	6.98	1364.38	.00	1364.38	1366.08	1.70	1.31	.00	1357.40
5700.0	.0	5700.0	.0	.0	544.7	.0	552.6	57.6	1357.40
.54	.00	10.46	.00	.000	.035	.000	.000	1357.40	9965.00
.004551	115.	115.	115.	0	0	0	.00	78.00	10043.00

*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.51

3470 ENCROACHMENT STATIONS= 9904.0 10060.0 TYPE= 1 TARGET= 156.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1365.30 ELREA= 1367.60

20.860	9.64	1365.94	.00	1365.98	1366.67	.72	.29	.29	1365.30
5700.0	26.8	5673.2	.0	22.9	828.9	.0	554.2	57.9	100000.00
.54	1.17	6.84	.00	.040	.035	.000	.000	1356.30	9904.00
.002004	90.	100.	110.	3	0	0	.00	156.00	10060.00

CCHV= .100 CEHV= .300
*SECNO 20.942

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

3470 ENCROACHMENT STATIONS= 9860.0 10110.0 TYPE= 1 TARGET= 250.000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

20.942	7.63	1367.23	.00	1367.29	1367.96	.74	1.29	.00	100000.00
5700.0	.0	4745.2	954.8	.0	657.8	192.3	562.8	60.0	1366.50
.56	.00	7.21	4.97	.000	.035	.035	.000	1359.60	9860.00
.004787	530.	433.	490.	2	0	0	.00	250.00	10110.00

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*SECNO 21.036

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9810.0   10060.0  TYPE=      1  TARGET=      250.000
    21.036      7.98   1371.48   1371.48   1371.95   1373.10      1.62      2.89       .26   1370.70
    5700.0     112.5    5545.8      41.7      52.9     536.0      19.5     571.1      62.9   1370.40
       .58      2.13     10.35      2.14      .040      .035      .040      .000   1363.50   9810.00
   .007272      490.      496.      490.         4         8         0       .00    250.00  10060.00

*SECNO 21.127

3470 ENCROACHMENT STATIONS=     9900.0   10060.0  TYPE=      1  TARGET=      160.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1374.00 ELREA=    100000.00

    21.127      7.93   1374.63   1374.23   1374.75   1376.44      1.81      3.28       .06   1374.20
    5700.0     130.2    5569.8        .0      53.9     510.7        .0     577.4      65.0 100000.00
       .59      2.42     10.91       .00      .040      .035      .000      .000   1366.70   9900.00
   .006491      400.      480.      500.         4         8         0       .00    160.00  10060.00

*SECNO 21.230

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9900.0   10125.0  TYPE=      1  TARGET=      225.000
    21.230      8.37   1380.37   1380.37   1380.36   1381.88      1.52      3.89       .03   1379.30
    5700.0     251.2    4277.1    1171.6      71.9     392.1     188.7     585.0      67.3   1380.60
       .60      3.49     10.91      6.21      .040      .035      .040      .000   1372.00   9900.00
   .008046      560.      544.      500.         2         8         0       .00    221.77  10125.00

1
   14APR06      10:33:57                                                                          PAGE  121

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 21.363
3280 CROSS SECTION     21.36 EXTENDED       .59 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.26

3470 ENCROACHMENT STATIONS=     9930.0   10130.0  TYPE=      1  TARGET=      200.000
    21.363      9.48   1383.58       .00   1383.37   1384.11       .53      2.12       .10 100000.00
    5700.0        .0    5684.3      15.7        .0     973.2      13.0     598.2      70.5   1382.10
       .64       .00      5.84      1.21      .000      .035      .040      .000   1374.10   9939.05
   .001572      740.      702.      700.         3         0         0       .00    166.44  10105.49
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*SECNO 21.484

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9852.0   10077.0  TYPE=      1  TARGET=      225.000
    21.484      8.59   1387.09   1387.09   1386.53   1388.54      1.45      1.90       .28   1386.90
    5700.0     967.4    4674.8      57.9     169.6     452.1      25.2     610.1      73.2   1386.50
       .66      5.70     10.34      2.30      .040      .035      .040      .000   1378.50   9852.00
   .007569      650.      639.      520.        20        10         0       .00    215.51  10077.00


*SECNO 21.576

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41
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     SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
     Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
     TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
     SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3470 ENCROACHMENT STATIONS=     9940.0   10165.0  TYPE=      1  TARGET=      225.000
    21.576      8.08   1390.18       .00   1389.24   1391.06       .88      2.46       .06   1390.00
    5700.0      16.5    4724.2     959.3      13.1     587.5     214.0     617.9      75.4   1388.30
       .67      1.25      8.04      4.48      .040      .035      .040      .000   1382.10   9940.00
   .003827      320.      486.      480.         2         0         0       .00    225.00  10165.00


*SECNO 21.669
3280 CROSS SECTION     21.67 EXTENDED       .59 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9890.0   10115.0  TYPE=      1  TARGET=      225.000
    21.669      9.89   1393.89   1393.89   1393.38   1395.24      1.35      2.45       .14   1393.80
    5500.0     629.5    3935.4     935.1     132.0     372.7     181.3     626.2      77.9   1392.00
       .69      4.77     10.56      5.16      .040      .035      .040      .000   1384.00   9890.00
   .007088      440.      491.      470.        20         9         0       .00    225.00  10115.00


*SECNO 21.742

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.58
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3470 ENCROACHMENT STATIONS=     9940.0   10140.0  TYPE=      1  TARGET=      200.000
    21.742       9.76   1396.16       .00   1395.18   1396.95       .79      1.66       .06   1394.70
    5500.0      87.3    5127.9     284.8      40.6     697.0      94.6     633.0      79.8   1394.20
       .70      2.15      7.36      3.01      .040      .035      .040      .000   1386.40   9940.00
   .002841      430.      385.      390.         2         0         0       .00    200.00  10140.00

*SECNO 21.840

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =    .69

3470 ENCROACHMENT STATIONS=     9900.0   10100.0  TYPE=      1  TARGET=      200.000
1
   14APR06      10:33:57                                                                                                PAGE  123

    SECNO       DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q           QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME        VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE       XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

    21.840       6.82   1397.92       .00   1398.04   1399.09      1.17      2.02       .11   1396.20
    5500.0      625.7    4701.1     173.2     119.2     511.9      54.7     641.7      82.0   1397.00
       .72       5.25      9.18      3.17      .040      .035      .040      .000   1391.10   9900.00
   .005989      430.      517.      430.         2         0         0       .00    200.00  10100.00

*SECNO 21.895

3470 ENCROACHMENT STATIONS=     9830.0   10080.0  TYPE=      1  TARGET=      250.000
    21.895       7.82   1399.72       .00   1399.67   1401.04      1.32      1.90       .05   1398.00
    5500.0     1891.4    3424.0     184.5     333.8     314.5      54.1     646.5      83.5   1397.70
       .73       5.67     10.89      3.41      .040      .035      .040      .000   1391.90   9834.63
   .006875      330.      290.      220.         3         0         0       .00    245.37  10080.00

*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.29

3470 ENCROACHMENT STATIONS=     9650.0   10070.0  TYPE=      1  TARGET=      420.000
    21.933       4.68   1401.48       .00   1400.86   1401.69       .20       .53       .11   1398.00
    5500.0     2120.4    3379.6        .0     708.6     857.3        .0     651.9      85.1 100000.00
       .75       2.99      3.94       .00      .040      .035      .000      .000   1396.80   9650.00
   .001314      210.      210.      210.         2         0         0       .00    420.00  10070.00

*SECNO 21.953

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =    .40

3470 ENCROACHMENT STATIONS=     9630.0   10051.0  TYPE=      1  TARGET=      421.000
    21.953       7.20   1401.20       .00   1401.06   1402.09       .89       .20       .21   1400.20
    5500.0     2410.7    2933.1     156.2     454.9     321.8      35.3     654.0      85.7   1398.30
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     .75       5.30       9.11       4.43       .045       .045       .045       .000    1394.00    9630.00
 .008342        75.        74.        75.          3          0          0        .00     310.27   10051.00
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 22.065

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.50

3470 ENCROACHMENT STATIONS=     9620.0   10030.0  TYPE=      1  TARGET=      410.000
    22.065      8.68   1404.48       .00   1404.08   1404.84       .36      2.69       .05   1404.10
    5500.0    3697.1    1792.4      10.5     839.8     320.8       4.9     665.0      89.5   1402.00
       .78      4.40      5.59      2.16      .045      .045      .045      .000   1395.80   9620.00
   .003732      430.      591.      630.         3         0         0       .00    396.88  10030.00

*SECNO 22.165

3265 DIVIDED FLOW

3280 CROSS SECTION     22.17 EXTENDED       .36 FEET

3470 ENCROACHMENT STATIONS=     9620.0   10020.0  TYPE=      1  TARGET=      400.000
    22.165     11.06   1406.06       .00   1405.25   1406.42       .36      1.58       .00   1400.90
    5500.0    3632.3    1859.8       8.0     953.4     294.5       4.6     679.7      94.2   1403.70
       .81      3.81      6.31      1.73      .045      .045      .045      .000   1395.00   9620.00
   .002451      530.      528.      530.         3         0         0       .00    381.09  10020.00

*SECNO 22.273

3265 DIVIDED FLOW

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .69

3470 ENCROACHMENT STATIONS=     9650.0   10027.0  TYPE=      1  TARGET=      377.000
    22.273      8.21   1407.61       .00   1406.66   1408.32       .72      1.80       .11   1404.10
    5500.0    1439.3    4060.7        .0     336.1     542.6        .0     692.2      98.0 100000.00
       .83      4.28      7.48       .00      .045      .045      .000      .000   1399.40   9650.00
   .005127      470.      570.      580.         2         0         0       .00    292.44  10027.00
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
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TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 22.410

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9860.0   10040.0  TYPE=      1  TARGET=      180.000
    22.410     10.09   1414.09   1414.09   1414.22   1416.01      1.92      4.99       .36   1410.70
    5500.0     717.5    4672.2     110.3     142.7     393.2      23.9     704.2     101.9   1411.30
       .85      5.03     11.88      4.63      .045      .045      .045      .000   1404.00   9860.00
   .009664      750.      723.      630.         5        11         0       .00    159.26  10040.00

*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.12


3470 ENCROACHMENT STATIONS=     9890.0   10050.0  TYPE=      1  TARGET=      160.000
    22.483     11.24   1416.74       .00   1416.46   1417.04       .30       .87       .16   1411.10
    5500.0     505.1    4994.9        .0     194.8    1098.2        .0     712.4     103.3 100000.00
       .87      2.59      4.55       .00      .045      .045      .000      .000   1405.50   9890.00
   .000990      380.      385.      390.         3         0         0       .00    160.00  10050.00

*SECNO 22.578

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .56


3470 ENCROACHMENT STATIONS=     9968.0   10064.0  TYPE=      1  TARGET=       96.000
    22.578     10.52   1417.22       .00   1416.34   1418.01       .79       .82       .15   1416.60
    5500.0        .0    5500.0        .0        .0     772.8        .0     724.4     104.8 100000.00
       .89       .00      7.12       .00      .000      .045      .000      .000   1406.70   9968.00
   .003142      540.      502.      490.         3         0         0       .00     96.00  10064.00
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.68


3470 ENCROACHMENT STATIONS=     9830.0   10028.0  TYPE=      1  TARGET=      198.000
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   22.675      9.02   1418.72       .00   1418.01   1418.96       .24       .89       .05 100000.00
   5500.0        .0    5500.0        .0        .0    1407.4        .0     737.2     106.5 100000.00
      .93       .00      3.91       .00      .000      .045      .000      .000   1409.70   9830.00
  .001107      570.      512.      480.         2         0         0       .00    198.00  10028.00

*SECNO 22.794

3470 ENCROACHMENT STATIONS=     9977.0   10160.0  TYPE=      1  TARGET=      183.000
   22.794      8.80   1419.50       .00   1418.55   1419.84       .34       .85       .03   1417.80
   5500.0       9.5    5490.5        .0       6.8    1168.8        .0     755.8     109.2 100000.00
      .97      1.38      4.70       .00      .045      .045      .000      .000   1410.70   9977.00
  .001709      460.      628.      500.         2         0         0       .00    183.00  10160.00

*SECNO 22.880

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .52

3470 ENCROACHMENT STATIONS=     9951.0   10120.0  TYPE=      1  TARGET=      169.000
   22.880      7.53   1420.53       .00   1420.05   1421.31       .78      1.34       .13 100000.00
   5500.0        .0    5500.0        .0        .0     775.9        .0     766.0     111.1 100000.00
      .99       .00      7.09       .00      .000      .045      .000      .000   1413.00   9951.00
  .006285      440.      454.      480.         2         0         0       .00    169.00  10120.00

*SECNO 22.990

3470 ENCROACHMENT STATIONS=     9890.0   10026.0  TYPE=      1  TARGET=      136.000
   22.990      6.73   1424.63       .00   1423.63   1425.77      1.14      4.35       .11 100000.00
   5500.0        .0    5500.0        .0        .0     642.8        .0     775.4     113.1 100000.00
     1.00       .00      8.56       .00      .000      .045      .000      .000   1417.90   9890.00
  .009071      480.      581.      530.         2         0         0       .00    136.00  10026.00

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   14APR06      10:33:57                                                                          PAGE  127

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 23.097

3470 ENCROACHMENT STATIONS=     9958.0   10090.0  TYPE=      1  TARGET=      132.000
   23.097      5.50   1430.60       .00   1429.89   1432.09      1.50      6.22       .11 100000.00
   5500.0        .0    5500.0        .0        .0     560.5        .0     783.2     114.8 100000.00
     1.02       .00      9.81       .00      .000      .045      .000      .000   1425.10   9958.00
  .013626      640.      565.      490.         3         0         0       .00    132.00  10090.00

*SECNO 23.168

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.41

3470 ENCROACHMENT STATIONS=     9830.0   10140.0  TYPE=      1  TARGET=      310.000
   23.168      4.79   1433.69       .00   1433.05   1433.96       .27      1.75       .12 100000.00
   5500.0        .0    5266.2     233.8        .0    1248.3      74.2     791.3     116.7   1430.30
     1.04       .00      4.22      3.15      .000      .045      .045      .000   1428.90   9830.00
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   .0023[illegible]    330.    375.    300.      3      0      0[illegible].00    310.00  10140.00

*SECNO 23.253

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9978.5   10023.2  TYPE=      1  TARGET=       44.700
    23.253      9.28   1434.48   1434.48   1434.53   1437.36      2.88      1.82       .78 100000.00
    3400.0       .0    3400.0       .0        .0     249.8        .0     799.5     118.6 100000.00
      1.05      .00     13.61       .00      .000      .040      .000     .000   1425.20   9978.53
   .015287     470.      459.      450.        20        17         0       .00     44.57  10023.10

*SECNO 23.334

3301 HV CHANGED MORE THAN HVINS

1
   14APR06      10:33:57                                                                          PAGE  128

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.43

3470 ENCROACHMENT STATIONS=     9969.0   10036.0  TYPE=      1  TARGET=       67.000
    23.334      7.82   1440.42       .00   1440.39   1441.84      1.42      4.34       .15 100000.00
    3400.0       .0    3400.0        .0        .0     355.5        .0     802.4     119.1 100000.00
      1.07      .00      9.56       .00      .000      .040      .000     .000   1432.60   9969.01
   .007526     400.      417.      420.         2         0         0       .00     66.99  10036.00

*SECNO 23.416
    23.416      7.32   1443.82       .00   1443.82   1445.59      1.78      3.65       .11   1447.80
    3400.0       .0    3400.0        .0        .0     317.8        .0     805.8     119.7   1450.20
      1.08      .00     10.70       .00      .000      .040      .000     .000   1436.50   9980.95
   .009483     400.      433.      430.         3         0         0       .00     59.11  10040.06

*SECNO 23.514
    23.514      8.51   1448.11       .00   1448.11   1449.46      1.35      3.82       .04   1451.40
    3400.0       .0    3400.0        .0        .0     365.0        .0     809.8     120.4   1451.10
      1.09      .00      9.32       .00      .000      .040      .000     .000   1439.60   9977.53
   .005927     560.      517.      470.         2         0         0       .00     57.48  10035.02

*SECNO 23.544

3301 HV CHANGED MORE THAN HVINS

    23.544      7.52   1448.92       .00   1448.91   1450.79      1.87      1.17       .16   1453.20
    3400.0       .0    3400.0        .0        .0     309.5        .0     811.1     120.6   1452.90
      1.10      .00     10.98       .00      .000      .040      .000     .000   1441.40   9978.90
   .009541     190.      158.      150.         2         0         0       .00     54.80  10033.70
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SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	2.48	3.20	.00	5.70	1.00	14.10	.00	1442.00	1441.40

*SECNO 23.555

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.95

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3688.08	1453.58	2.79	3249.	152.	14.	14.	1445.00	1449.00	140.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.555	10.64	1452.64	.00	1452.64	1453.37	.74	2.58	.00	1453.80
3400.0	.0	3400.0	.0	.0	493.8	.0	811.6	120.7	1453.50
1.10	.00	6.89	.00	.000	.040	.000	.000	1442.00	9974.59
.002505	60.	60.	60.	2	0	8	.00	63.27	10037.86

*SECNO 23.591
3280 CROSS SECTION 23.59 EXTENDED 1.15 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.591	8.95	1453.15	.00	1453.15	1453.93	.78	.54	.01	1452.90
3400.0	.0	3400.0	.0	.0	478.5	.0	813.7	121.0	1453.80
1.11	.00	7.11	.00	.000	.040	.000	.000	1444.20	9968.00
.003293	100.	190.	210.	3	0	0	.00	75.49	10043.49

*SECNO 23.691

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.691	8.75	1455.15	.00	1455.15	1456.48	1.33	2.39	.16	1457.60
3400.0	.0	3400.0	.0	.0	367.9	.0	818.9	121.9	1455.30
1.12	.00	9.24	.00	.000	.040	.000	.000	1446.40	9970.39
.006584	510.	528.	540.	2	0	0	.00	65.33	10035.72

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 23.815

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.815	9.31	1459.01	.00	1459.01	1460.09	1.08	3.59	.02	1458.90
4350.0	.0	4350.0	.0	.0	520.9	.0	825.5	123.0	1457.80
1.14	.00	8.35	.00	.000	.040	.000	.000	1449.70	9951.00
.004797	650.	655.	680.	3	0	0	.00	86.00	10037.00

*SECNO 23.912
3280 CROSS SECTION 23.91 EXTENDED .14 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.912	13.14	1461.04	.00	1461.04	1462.18	1.14	2.07	.02	1461.30
5300.0	.0	5300.0	.0	.0	619.1	.0	832.2	124.0	1460.90
1.16	.00	8.56	.00	.000	.040	.000	.000	1447.90	9967.41
.003558	480.	512.	510.	3	0	0	.00	75.59	10043.00

*SECNO 23.989

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

23.989	12.91	1462.61	.00	1462.61	1463.23	.63	1.00	.05	1465.60
5300.0	.0	5300.0	.0	.0	835.0	.0	839.0	124.8	1465.80
1.18	.00	6.35	.00	.000	.040	.000	.000	1449.70	9944.77
.001801	400.	407.	410.	2	0	0	.00	98.91	10043.68

CCHV= .300 CEHV= .500

1

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 24.086

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1463.70 ELREA= 1463.70

24.086	9.84	1463.44	.00	1463.44	1464.31	.87	.95	.12	1453.60
5300.0	.0	5300.0	.0	.0	708.4	.0	848.1	125.8	1453.60
1.20	.00	7.48	.00	.000	.040	.000	.000	1453.60	9972.00

```
   .001924      450.      512.      560.         4         0         0       .00     72.00  10044.00


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      1.56      3.00    100.00     71.60      3.00    590.00       .00   1453.60   1453.60

*SECNO 24.096
PRESSURE FLOW

 EGPRS       EGLWC       H3        QWEIR      QPR       BAREA   TRAPEZOID      ELLC      ELTRD     WEIRLN
                                                                  AREA
   1465.39   1464.37       .08        0.     5300.      590.      590.     1462.20   1466.70        0.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1466.00 ELREA=      1466.00

    24.096     11.11   1464.71       .00   1464.71   1465.39       .68      1.09       .00   1453.60
    5300.0        .0    5300.0        .0        .0     800.4        .0     849.1     125.9   1453.60
      1.20       .00      6.62       .00      .000      .040      .000      .000   1453.60   9972.00
   .001280       56.       56.       56.         2         0         0       .00     72.00  10044.00


*SECNO 24.106

3470 ENCROACHMENT STATIONS=     9955.0   10055.0  TYPE=      1  TARGET=      100.000
    24.106     10.80   1465.00       .00   1465.21   1465.52       .51       .07       .05   1464.10
    5300.0        .0    5300.0        .0        .0     922.0        .0     850.1     126.0 100000.00
      1.20       .00      5.75       .00      .000      .040      .000      .000   1454.20   9955.00
   .001433       80.       53.       20.         2         0         0       .00    100.00  10055.00


CCHV=      .100 CEHV=      .300
1
   14APR06      10:33:57                                                                          PAGE  132

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


*SECNO 24.195

3470 ENCROACHMENT STATIONS=     9950.0   10050.0  TYPE=      1  TARGET=      100.000
    24.195     12.08   1465.68       .00   1465.69   1466.01       .34       .48       .02 100000.00
    5300.0        .0    5300.0        .0        .0    1134.9        .0     861.2     127.0 100000.00
      1.23       .00      4.67       .00      .000      .040      .000      .000   1453.60   9950.00
   .000766      470.      470.      460.         2         0         0       .00    100.00  10050.00


*SECNO 24.322

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.71


3470 ENCROACHMENT STATIONS=     9940.0   10080.0  TYPE=      1  TARGET=      140.000
    24.322     14.57   1466.17       .00   1465.91   1466.31       .15       .28       .02 100000.00
    5300.0        .0    5067.6     232.4        .0    1628.2     148.2     883.6     128.9   1456.80
      1.29       .00      3.11      1.57      .000      .040      .050      .000   1451.60   9940.00
   .000262      640.      671.      630.         2         0         0       .00    140.00  10080.00
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*SECNO 24.444

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .43

3470 ENCROACHMENT STATIONS= 9927.0 10080.0 TYPE= 1 TARGET= 153.000

24.444	9.07	1466.37	.00	1465.95	1466.70	.33	.33	.06	1465.00	
5300.0	.9	5299.1	.0	1.1	1142.9	.0	905.1	131.0	100000.00	
1.33	.84	4.64	.00	.045	.045	.000	.000	1457.30	9927.00	
.001443	640.	644.	600.	2	0	0	.00	153.00	10080.00	

*SECNO 24.542

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .44

1

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9950.0 10160.0 TYPE= 1 TARGET= 210.000

24.542	7.51	1467.31	.00	1466.33	1468.35	1.04	1.44	.21	100000.00
5300.0	.0	5300.0	.0	.0	647.3	.0	915.7	132.7	100000.00
1.35	.00	8.19	.00	.000	.045	.000	.000	1459.80	9950.00
.007420	470.	517.	530.	3	0	0	.00	121.98	10160.00

*SECNO 24.635

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .66

3470 ENCROACHMENT STATIONS= 9940.0 10060.0 TYPE= 1 TARGET= 120.000

24.635	5.26	1472.06	1471.86	1472.05	1473.84	1.79	5.27	.22	100000.00
5300.0	.0	5300.0	.0	.0	494.0	.0	922.1	134.0	100000.00
1.36	.00	10.73	.00	.000	.045	.000	.000	1466.80	9940.00
.016891	650.	491.	220.	6	14	0	.00	120.00	10060.00

*SECNO 24.738

3265 DIVIDED FLOW

3280 CROSS SECTION 24.74 EXTENDED .20 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.96

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3470 ENCROACHMENT STATIONS=     9936.0   10200.0  TYPE=      1  TARGET=      264.000
    24.738      5.80   1477.80       .00   1476.89   1478.28       .48      4.30       .13 100000.00
    5200.0        .0    2288.8    2911.2        .0     409.9     524.7     931.6     136.3   1480.90
      1.39       .00      5.58      5.55      .000      .045      .045      .000   1472.00   9936.00
   .004242      350.      544.      630.         3         0         0       .00    225.20  10200.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 24.838

3265 DIVIDED FLOW

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .55

3470 ENCROACHMENT STATIONS=     9968.0   10350.0  TYPE=      1  TARGET=      382.000
    24.838      6.28   1480.98       .00   1480.33   1481.73       .75      3.37       .08 100000.00
    5200.0        .0    1515.0    3685.0        .0     170.8     616.1     941.0     139.5   1483.50
      1.41       .00      8.87      5.98      .000      .045      .045      .000   1474.70   9968.00
   .013920      470.      528.      450.         3         0         0       .00    370.28  10350.00

*SECNO 24.943

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.35

3470 ENCROACHMENT STATIONS=     9860.0   10300.0  TYPE=      1  TARGET=      440.000
    24.943      6.66   1484.36       .00   1483.44   1484.58       .22      2.79       .05   1481.80
    5200.0    1224.1     735.7    3240.2     361.1     162.1     887.6     955.2     144.7   1484.80
      1.45      3.39      4.54      3.65      .045      .045      .045      .000   1477.70   9860.00
   .002529      530.      554.      570.         1         0         0       .00    433.65  10300.00

*SECNO 25.048

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
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    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       HL         TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3470 ENCROACHMENT STATIONS=     9850.0   10250.0  TYPE=      1  TARGET=      400.000
    25.048      3.93    1487.63    1487.63    1487.27    1488.57       .94       3.07        .22    1486.60
    5200.0    1208.5      870.3     3121.2      181.3       98.5     396.4      968.1      149.7    1493.60
      1.47      6.67       8.84       7.87       .045       .045      .045       .000    1483.70    9850.00
   .022755      580.       554.       520.         20         14         0        .00     369.90   10250.00


*SECNO 25.163

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.23


3470 ENCROACHMENT STATIONS=     9940.0   10175.0  TYPE=      1  TARGET=      235.000
    25.163      7.08    1493.08        .00    1492.19    1493.53       .45       4.91        .05    1491.60
    4900.0     360.3     1584.9     2954.8       89.1      264.8     573.5      979.1      153.9    1493.10
      1.50      4.04       5.98       5.15       .045       .045      .045       .000    1486.00    9940.00
   .004072      640.       607.       580.          6          0         0        .00     234.87   10175.00


*SECNO 25.262
3280 CROSS SECTION     25.26 EXTENDED      1.05 FEET


3470 ENCROACHMENT STATIONS=     9750.0   10023.0  TYPE=      1  TARGET=      273.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1491.60 ELREA=      1510.00

    25.262     11.04    1495.04        .00    1494.01    1495.36       .32       1.82        .01    1491.60
    4900.0    3562.1     1337.9         .0      783.5      298.1        .0      990.9      156.9  100000.00
      1.53      4.55       4.49        .00       .045       .045      .000       .000    1484.00    9750.00
   .003091      470.       523.       570.          4          0         0        .00     273.00   10023.00


*SECNO 25.374

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
1
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9925.0   10023.0  TYPE=      1  TARGET=       98.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1499.30 ELREA=    100000.00

    25.374      6.87    1500.17    1500.17    1499.37    1502.33      2.16       3.90        .55    1499.30
    4900.0    1342.9     3557.1         .0      145.4      281.4        .0     1002.1      159.6  100000.00
      1.55      9.23      12.64        .00       .045       .045      .000       .000    1493.30    9925.00
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 .017615      680.      591.      300.        20        23         0       .00     98.00  10023.00

*SECNO 25.434

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     9970.0   10036.0  TYPE=      1  TARGET=       66.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1504.90 ELREA=    100000.00

   25.434       8.37   1504.17   1504.09   1503.97   1506.91      2.75      4.41       .17 100000.00
   4900.0        .0    4900.0       .0        .0     368.4        .0    1005.1     160.3 100000.00
     1.55       .00     13.30       .00      .000      .035      .000      .000   1495.80   9970.00
 .010572      400.      317.      190.         6        11         0       .00     66.00  10036.00

*SECNO 25.500

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.36

3470 ENCROACHMENT STATIONS=     9970.0   10050.0  TYPE=      1  TARGET=       80.000
   25.500       9.95   1507.65       .00   1507.74   1508.42       .77      1.31       .20 100000.00
   4900.0        .0    4900.0        .0        .0     698.0        .0    1009.4     160.8 100000.00
     1.57       .00      7.02       .00      .000      .035      .000      .000   1497.70   9970.00
 .001894      250.      349.      420.         3         0         0       .00     80.00  10050.00
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

CCHV=     .300 CEHV=     .500
*SECNO 25.523

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.79

3470 ENCROACHMENT STATIONS=     9960.0   10040.0  TYPE=      1  TARGET=       80.000
   25.523      12.20   1508.20       .00   1507.99   1508.63       .43       .12       .10   1498.00
   4900.0       38.7    4806.1      55.2      30.6     900.8      30.6    1011.7     161.1   1498.00
     1.57       1.26      5.34      1.80      .050      .035      .035      .000   1496.00   9960.00
 .000589       120.      121.      120.         2         0         0       .00     80.00  10040.00

*SECNO 25.534

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   25.534       5.22   1510.76   1510.76   1510.75   1513.36      2.60       .06      1.08   1515.00
   4900.0        .0    4900.0        .0        .0     378.4        .0    1012.6     161.2   1515.00
     1.58       .00     12.95       .00      .000      .015      .000      .000   1505.54   9963.45
 .002242        58.       58.       58.        20        14         0       .00     73.10  10036.55
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*SECNO 25.551

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
    25.551      6.67   1512.21   1510.75   1512.21   1513.80      1.58       .13       .31   1515.00
    4900.0        .0    4900.0       .0        .0     485.0        .0    1013.5     161.3   1515.00
      1.58       .00     10.10       .00      .000      .015      .000      .000   1505.54   9963.29
   .001026       90.       90.       90.        25         5         0       .00     73.41  10036.71


*SECNO 25.557
    25.557      6.53   1512.07       .00   1512.08   1514.01      1.94       .04       .18   1515.00
    4900.0        .0    4900.0       .0        .0     438.7        .0    1013.8     161.4   1515.00
      1.58       .00     11.17       .00      .000      .015      .000      .000   1505.54   9959.87
   .001387       32.       32.       32.         2         0         0       .00     80.25  10040.13


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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 25.561

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9949.0   10050.0  TYPE=      1  TARGET=      101.000
    25.561      8.72   1514.32       .00   1514.36   1514.54       .23       .02       .51 100000.00
    2900.0        .0    2900.0       .0        .0     759.6        .0    1014.1     161.4 100000.00
      1.58       .00      3.82       .00      .000      .035      .000      .000   1505.60   9949.44
   .000612       20.       21.       20.         3         0         0       .00    100.55  10050.00


CCHV=     .100 CEHV=     .300
*SECNO 25.680

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .49


3470 ENCROACHMENT STATIONS=     9950.0   10050.0  TYPE=      1  TARGET=      100.000
    25.680      8.30   1514.80       .00   1514.74   1515.26       .45       .64       .07 100000.00
    2700.0        .0    2700.0       .0        .0     499.5        .0    1023.2     162.9 100000.00
      1.61       .00      5.41       .00      .000      .035      .000      .000   1506.50   9950.00
   .002179      580.      628.      660.         2         0         0       .00    100.00  10050.00


*SECNO 25.786

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .44


3470 ENCROACHMENT STATIONS=     9982.0   10082.0  TYPE=      1  TARGET=      100.000
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3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1518.90 ELREA=      1515.80

    25.786      5.65   1516.35   1516.23   1516.32   1517.71      1.36      2.18       .27 100000.00
    2500.0        .0    2454.1      45.9        .0     260.1      15.6    1028.1     164.1   1515.80
      1.63       .00      9.43      2.93      .000      .035      .035      .000   1510.70   9982.00
   .009706      600.      560.      470.         6        14         0       .00    100.00  10082.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 25.947

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.57

3470 ENCROACHMENT STATIONS=     9959.0   10059.0  TYPE=      1  TARGET=      100.000
    25.947      7.46   1521.86       .00   1521.07   1522.40       .54      4.61       .08 100000.00
    2300.0        .0    2300.0        .0        .0     388.3        .0    1034.6     166.1 100000.00
      1.67       .00      5.92       .00      .000      .035      .000      .000   1514.40   9959.00
   .003343      870.      850.      830.         3         0         0       .00    100.00  10059.00

*SECNO 26.058

3470 ENCROACHMENT STATIONS=     9950.0   10023.0  TYPE=      1  TARGET=       73.000
    26.058      7.63   1523.83       .00   1523.49   1524.65       .82      2.16       .08   1522.00
    2200.0     173.5    2026.5        .0      37.7     271.4        .0    1039.3     167.2 100000.00
      1.69      4.60      7.47       .00      .035      .035      .000      .000   1516.20   9950.00
   .004141      540.      586.      570.         3         0         0       .00     73.00  10023.00

*SECNO 26.152

3470 ENCROACHMENT STATIONS=     9970.0   10040.0  TYPE=      1  TARGET=       70.000
    26.152      5.70   1525.70       .00   1524.99   1526.20       .50      1.52       .03 100000.00
    2000.0        .0    2000.0        .0        .0     351.9        .0    1042.9     168.0 100000.00
      1.72       .00      5.68       .00      .000      .035      .000      .000   1520.00   9970.00
   .002376      240.      496.      550.         2         0         0       .00     70.00  10040.00

*SECNO 26.265

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9973.0   10060.0  TYPE=      1  TARGET=       87.000
    26.265      6.08   1528.08   1528.08   1528.15   1529.38      1.30      2.54       .24 100000.00
    1900.0        .0    1760.7     139.3        .0     186.6      32.1    1046.9     169.1   1526.50
      1.73       .00      9.44      4.34      .000      .035      .035      .000   1522.00   9973.34
   .010164      580.      597.      610.         0         8         0       .00     86.66  10060.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 26.372

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.05

3470 ENCROACHMENT STATIONS=     9967.0   10064.0  TYPE=      1  TARGET=       97.000
    26.372      7.57   1531.37       .00   1531.35   1531.69       .32       2.21       .10 100000.00
    1700.0       .0    1700.0        .0        .0     374.4        .0     1050.7     170.2 100000.00
      1.77      .00      4.54       .00      .000      .035      .000       .000   1523.80   9967.05
   .001937     600.      565.      510.         3         0         0        .00     96.95  10064.00

*SECNO 26.492

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.69

3470 ENCROACHMENT STATIONS=     9955.0   10045.0  TYPE=      1  TARGET=       90.000
    26.492      6.49   1532.19       .00   1532.15   1532.34       .15        .64       .02 100000.00
    1600.0       .0    1600.0        .0        .0     511.4        .0     1057.1     171.6 100000.00
      1.82      .00      3.13       .00      .000      .035      .000       .000   1525.70   9955.00
   .000602     640.      634.      610.         3         0         0        .00     90.00  10045.00

*SECNO 26.582

3470 ENCROACHMENT STATIONS=     9945.0   10025.0  TYPE=      1  TARGET=       80.000
    26.582      8.33   1532.43       .00   1532.24   1532.52       .09        .17       .01 100000.00
    1300.0       .0    1300.0        .0        .0     544.1        .0     1062.9     172.5 100000.00
      1.88      .00      2.39       .00      .000      .030      .000       .000   1524.10   9945.00
   .000221     460.      475.      480.         2         0         0        .00     80.00  10025.00

*SECNO 26.673

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

3470 ENCROACHMENT STATIONS=     9970.0   10030.0  TYPE=      1  TARGET=       60.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1535.00 ELREA=    100000.00
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   26.673      3.14   1534.94   1534.94   1533.98   1536.17      1.23       .32       .34 100000.00
   1300.0       .0    1300.0       .0        .0     146.0        .0    1066.7     173.3 100000.00
     1.89      .00      8.91      .00      .000      .030      .000      .000   1531.80   9970.00
  .010965     510.      480.     460.        20        18         0       .00     60.00  10030.00


*SECNO 26.784
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9981.0   10031.0  TYPE=      1  TARGET=       50.000
   26.784      3.55   1546.25   1546.25   1546.18   1547.49      1.24      6.31       .00 100000.00
   1100.0       .0    1100.0       .0        .0     123.1        .0    1068.5     174.0 100000.00
     1.91      .00      8.94      .00      .000      .030      .000      .000   1542.70   9981.00
  .010542     590.      586.     530.        13         8         0       .00     50.00  10031.00


*SECNO 26.883

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  5.95


3470 ENCROACHMENT STATIONS=     9975.0   10025.0  TYPE=      1  TARGET=       50.000
   26.883      7.82   1547.92       .00   1547.31   1548.02       .10       .42       .11 100000.00
   1000.0       .0    1000.0       .0        .0     391.3        .0    1071.6     174.6 100000.00
     1.97      .00      2.56      .00      .000      .030      .000      .000   1540.10   9975.00
  .000246     530.      523.     500.         3         0         0       .00     50.00  10025.00


*SECNO 26.984

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .56


3470 ENCROACHMENT STATIONS=     9975.0   10025.0  TYPE=      1  TARGET=       50.000
1
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


   26.984      7.57   1548.07       .00   1547.31   1548.24       .17       .20       .02 100000.00
    900.0       .0     900.0       .0        .0     273.3        .0    1075.6     175.2 100000.00
     2.01      .00      3.29      .00      .000      .030      .000      .000   1540.50   9975.00
  .000645     480.      533.     460.         2         0         0       .00     50.00  10025.00


*SECNO 27.060

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9883.7   10013.1  TYPE=      1  TARGET=      129.399

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1565.00 ELREA=    100000.00

   27.060      5.35   1559.45   1559.45   1559.46   1561.02      1.57       .66       .42   1560.80
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     90[illegible]      .0     900.0       .0       .0      89.6       .0  [illegible]77.3     175.6 100000.00
      2.[illegible]    .00     10.05      .00     .000      .030     .000      .000   1554.10   9983.69
   .010211     270.     401.     470.       20        19         0      .00     29.41  10013.10

*SECNO 27.166

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.66

3470 ENCROACHMENT STATIONS=     9881.1   10020.0  TYPE=      1  TARGET=      138.900

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1565.00 ELREA=      1565.00

    27.166      6.98   1562.18      .00   1562.18   1562.35      .17      1.19      .14   1564.20
     600.0        .0     600.0       .0        .0     181.6       .0    1079.1     176.1 100000.00
      2.07       .00      3.30      .00      .000      .030     .000      .000   1555.20   9981.03
   .000642      560.      560.     560.         3         0        0      .00     38.97  10020.00


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   14APR06      10:33:57                                                                          PAGE  143

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 27.294

3470 ENCROACHMENT STATIONS=     9972.0   10022.2  TYPE=      1  TARGET=       50.200
    27.294      6.54   1562.54      .00   1562.54   1562.59      .05       .23       .01 100000.00
     400.0        .0     400.0       .0        .0     232.9       .0    1082.3     176.7 100000.00
      2.18       .00      1.72      .00      .000      .030     .000      .000   1556.00   9972.01
   .000167      710.      676.     630.         3         0        0      .00     50.19  10022.20

CCHV=     .100 CEHV=     .300
*SECNO -19.560
START TRIB COMP
    -19.560    19.560  1328.212

3470 ENCROACHMENT STATIONS=     9921.4   10061.0  TYPE=      1  TARGET=      139.630
   -19.560     12.61   1328.21      .00   1328.21   1330.15     1.93       .00       .00   1329.70
   14600.0        .0   14600.0       .0        .0    1307.9       .0    1095.2     178.2 100000.00
      2.20       .00     11.16      .00      .000      .035     .000      .000   1315.60   9931.37
   .003382      730.      729.     720.         0         0        0      .00    129.62  10060.99

*SECNO  .029

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9942.6   10073.1  TYPE=      1  TARGET=      130.540
      .029      9.83   1329.43   1329.43   1329.35   1332.59     3.16      1.09       .37 100000.00
    9500.0        .0    9473.7      26.3        .0     662.9     19.7    1105.0     179.5   1328.20
      2.21       .00     14.29      1.34      .000      .015     .035      .000   1319.60   9942.56
   .001749      380.      430.     450.        20        15        0      .00    130.54  10073.10
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*SECNO  .112

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.44
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     9905.0   10092.0  TYPE=      1  TARGET=      187.000
      .112     11.38   1332.88      .00   1332.94   1333.42       .55       .57       .26 100000.00
    9500.0        .0    9500.0       .0        .0    1603.5        .0    1117.7     181.3 100000.00
      2.23       .00      5.92      .00      .000      .030      .000      .000   1321.50   9905.00
   .000847      430.      483.     450.         3         0         0       .00    187.00  10092.00

*SECNO  .198

3470 ENCROACHMENT STATIONS=     9910.0   10110.0  TYPE=      1  TARGET=      200.000
      .198      9.46   1333.26      .00   1333.31   1333.92       .66       .46       .03 100000.00
    9500.0        .0    9500.0       .0        .0    1458.9        .0    1133.6     183.3 100000.00
      2.25       .00      6.51      .00      .000      .030      .000      .000   1323.80   9910.00
   .001257      460.      454.     420.         2         0         0       .00    200.00  10110.00

*SECNO  .288

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9903.0   10054.0  TYPE=      1  TARGET=      151.000
      .288      7.60   1333.30   1333.30   1333.31   1335.83      2.53      1.22       .56 100000.00
    9500.0        .0    9500.0       .0        .0     744.7        .0    1145.6     185.2 100000.00
      2.26       .00     12.76      .00      .000      .030      .000      .000   1325.70   9903.24
   .007949      470.      475.     460.         4        15         0       .00    150.67  10053.90

*SECNO  .398

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.79

3470 ENCROACHMENT STATIONS=     9912.0   10094.0  TYPE=      1  TARGET=      182.000
      .398      8.47   1337.27      .00   1337.27   1338.35      1.08      2.37       .14 100000.00
    9500.0        .0    9500.0       .0        .0    1139.0        .0    1158.2     187.4 100000.00
      2.28       .00      8.34      .00      .000      .030      .000      .000   1328.80   9912.47
   .002478      600.      581.     540.         2         0         0       .00    181.53  10094.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO  .482

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9904.0   10175.0  TYPE=      1  TARGET=      271.000
      .482      10.73   1341.93   1341.93   1342.35   1344.04      2.11       1.36        .31   1341.10
    9500.0       46.3    8417.4    1036.3      22.4     685.2     239.4     1168.4      189.4   1338.00
      2.29       2.07     12.28      4.33      .035      .030      .035       .000    1331.20   9904.00
   .004085       440.      444.      270.        20        11         0        .00     271.00  10175.00

*SECNO  .575

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     9870.0   10080.0  TYPE=      1  TARGET=      210.000
      .575      13.12   1344.62       .00   1343.82   1345.55       .94       1.40        .12 100000.00
    9500.0         .0    9360.9     139.1        .0    1197.3      52.4     1180.8      192.2   1343.10
      2.31        .00      7.82      2.66      .000      .030      .035       .000    1331.50   9870.00
   .002104       460.      491.      500.         2         0         0        .00     210.00  10080.00

*SECNO  .697

3470 ENCROACHMENT STATIONS=     9875.0   10035.0  TYPE=      1  TARGET=      160.000
      .697      11.85   1345.85       .00   1345.06   1346.82       .97       1.26        .01 100000.00
    9400.0         .0    9211.7     188.3        .0    1156.1      48.9     1198.9      194.9   1341.40
      2.33        .00      7.97      3.85      .000      .030      .035       .000    1334.00   9875.00
   .001815       640.      644.      640.         3         0         0        .00     160.00  10035.00

*SECNO  .826

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

3470 ENCROACHMENT STATIONS=     9880.0   10040.0  TYPE=      1  TARGET=      160.000
      .826       9.39   1348.19   1348.19   1348.29   1350.60      2.41       2.30        .43   1345.50
    9400.0      632.7    8767.3        .0     100.6     685.8        .0     1214.5      197.4 100000.00
      2.35       6.29     12.78       .00      .035      .035      .000       .000    1338.80   9880.00
   .008343       680.      681.      660.        20        16         0        .00     160.00  10040.00
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*SECNO  .945

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.85

3470 ENCROACHMENT STATIONS=     9870.0   10030.0  TYPE=      1  TARGET=      160.000
      .945     12.02   1352.42       .00   1352.12   1353.34       .92      2.60       .15 100000.00
    9400.0        .0    9400.0        .0        .0    1219.2        .0    1229.0     199.7 100000.00
      2.37       .00      7.71       .00      .000      .035      .000      .000   1340.40   9870.00
   .002450      680.      628.      600.         3         0         0       .00    160.00  10030.00

*SECNO 1.035
3280 CROSS SECTION      1.03 EXTENDED       .59 FEET

3470 ENCROACHMENT STATIONS=     9870.0   10030.0  TYPE=      1  TARGET=      160.000
     1.035     11.70   1353.60       .00   1352.93   1354.71      1.12      1.31       .06 100000.00
    9400.0        .0    9229.4     170.6        .0    1081.4      35.2    1241.7     201.5   1348.80
      2.39       .00      8.54      4.85      .000      .035      .035      .000   1341.90   9870.00
   .003128      440.      475.      460.         3         0         0       .00    160.00  10030.00

*SECNO 1.121
3280 CROSS SECTION      1.12 EXTENDED       .17 FEET

3470 ENCROACHMENT STATIONS=     9890.0   10050.0  TYPE=      1  TARGET=      160.000
     1.121     11.57   1355.17       .00   1354.16   1355.89       .71      1.14       .04 100000.00
    9400.0        .0    9400.0        .0        .0    1386.1        .0    1254.7     203.1 100000.00
      2.40       .00      6.78       .00      .000      .040      .000      .000   1343.60   9890.00
   .002046      480.      454.      440.         2         0         0       .00    160.00  10050.00
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 1.204

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .53

3470 ENCROACHMENT STATIONS=     9950.0   10110.0  TYPE=      1  TARGET=      160.000
     1.204     11.44   1355.74       .00   1355.42   1357.82      2.09      1.53       .41 100000.00
    9400.0        .0    8621.8     778.2        .0     718.6     147.9    1266.1     204.7   1352.50
      2.41       .00     12.00      5.26      .000      .040      .040      .000   1344.30   9950.00
   .007180      430.      438.      450.         3         0         0       .00    160.00  10110.00

*SECNO 1.315

3301 HV CHANGED MORE THAN HVINS
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3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.83

3470 ENCROACHMENT STATIONS= 9905.0 10060.0 TYPE= 1 TARGET= 155.000

1.315	10.99	1359.79	.00	1359.33	1360.51	.72	2.55	.14	100000.00
9100.0	.0	9100.0	.0	.0	1340.6	.0	1284.6	207.4	100000.00
2.44	.00	6.79	.00	.000	.040	.000	.000	1348.80	9905.00
.002012	720.	734.	700.	2	0	0	.00	155.00	10060.00

*SECNO 1.420

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

3470 ENCROACHMENT STATIONS= 9895.0 10085.0 TYPE= 1 TARGET= 190.000

1.420	5.29	1360.19	.00	1359.99	1362.08	1.89	1.22	.35	1360.00
9100.0	.0	9100.0	.0	.0	825.1	.0	1294.7	209.0	100000.00
2.45	.00	11.03	.00	.000	.025	.000	.000	1354.90	9895.00
.004908	380.	407.	420.	3	0	0	.00	190.00	10085.00

THIS RUN EXECUTED 14APR06 10:33:57

****
HEC-2 WATER SURFACE PROFILES

Version 4.6.2; May 1991
****

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAVE CREEK WASH

SUMMARY PRINTOUT

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	17.588	1269.60	1283.69	9777.93	10229.71	451.78	14.09	15400.00	.33	.00	.00	.00	.00
	17.588	1269.60	1284.69	9855.24	10193.00	337.76	15.09	15400.00	.39	.00	.00	.00	.00
*	17.662	1271.60	1283.82	9829.44	10149.15	319.71	12.22	15400.00	.89	.13	.00	.00	.00
*	17.662	1271.60	1284.81	9900.00	10150.00	250.00	13.21	15400.00	.96	.12	.00	.00	.00
*	17.783	1275.40	1285.58	9900.35	10101.72	201.37	10.18	15400.00	2.28	1.76	.00	.00	.00
*	17.783	1275.40	1286.37	9921.00	10064.00	143.00	10.97	15400.00	2.28	1.56	.00	.00	.00
	17.932	1277.90	1290.98	9921.07	10085.31	164.24	13.08	15400.00	3.62	5.40	.00	.00	.00
	17.932	1277.90	1291.41	9956.00	10066.00	110.00	13.51	15400.00	3.36	5.03	.00	.00	.00
*	18.042	1282.30	1294.31	9951.61	10048.37	96.76	12.01	15400.00	3.83	3.33	.00	.00	.00
*	18.042	1282.30	1294.43	9951.60	10048.38	96.78	12.13	15400.00	3.74	3.03	.00	.00	.00
	18.061	1283.10	1296.44	9951.54	10048.43	96.89	13.34	15400.00	2.99	2.13	.00	1301.60	1293.20

	18.061	1283.10	1296.69	9951.53	10048.45	96.91	13.59	15400.00	2.86	2.26	.00	1301.60	1293.20
*	18.081	1281.10	1299.54	9876.94	10106.51	229.58	18.44	15400.00	.71	3.10	.00	.00	.00
*	18.081	1281.10	1299.61	9900.00	10085.00	185.00	18.51	15400.00	.71	2.92	.00	.00	.00
	18.174	1281.70	1300.22	9856.87	10454.71	597.84	18.52	15400.00	.30	.68	.00	.00	.00
	18.174	1281.70	1300.18	9857.02	10125.00	267.98	18.48	15400.00	.45	.57	.00	.00	.00
*	18.269	1283.80	1300.17	9881.86	10110.59	228.73	16.37	15400.00	.76	-.05	.00	.00	.00
	18.269	1283.80	1300.30	9882.20	10110.00	227.80	16.50	15400.00	.74	.12	.00	.00	.00
	18.362	1285.30	1300.54	9895.20	10108.18	212.97	15.24	15400.00	.97	.36	.00	.00	.00
	18.362	1285.30	1300.64	9895.60	10107.80	212.20	15.34	15400.00	.95	.35	.00	.00	.00
*	18.445	1287.30	1305.39	9885.22	10271.68	386.47	18.09	15400.00	2.09	4.85	.00	.00	.00
*	18.445	1287.30	1304.91	9888.33	10110.00	221.67	17.61	15400.00	2.86	4.27	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	18.456	1287.70	1307.31	9873.21	10316.94	443.73	19.61	15400.00	1.00	1.92	15108.43	1299.50	1294.20
*	18.456	1287.70	1308.52	9885.00	10110.00	225.00	20.82	15400.00	1.05	3.61	15030.78	1299.50	1294.20
*	18.545	1289.30	1308.28	9881.31	10169.98	288.68	18.98	15400.00	.47	.97	.00	.00	.00
*	18.545	1289.30	1309.56	9881.40	10169.80	288.40	20.26	15400.00	.37	1.04	.00	.00	.00
	18.575	1289.30	1308.43	9880.61	10170.93	290.32	19.13	15400.00	.41	.14	.00	.00	.00
	18.575	1289.30	1309.67	9880.70	10170.80	290.10	20.37	15400.00	.32	.10	.00	.00	.00
	18.583	1289.40	1309.50	9875.91	10177.35	301.44	20.10	15400.00	.34	1.07	14974.04	1299.00	1295.40
	18.583	1289.40	1310.09	9876.10	10177.20	301.10	20.69	15400.00	.31	.42	15165.87	1299.00	1295.40
	18.640	1290.20	1309.43	9879.37	10134.89	255.52	19.23	15400.00	.64	-.07	.00	.00	.00
	18.640	1290.20	1310.02	9879.60	10134.70	255.10	19.82	15400.00	.57	-.06	.00	.00	.00
	18.734	1292.40	1309.68	9883.01	10111.84	228.83	17.28	15400.00	.84	.26	.00	.00	.00
	18.734	1292.40	1310.24	9883.20	10111.70	228.50	17.84	15400.00	.75	.21	.00	.00	.00
	18.832	1293.20	1310.19	9891.67	10107.84	216.17	16.99	15400.00	.85	.51	.00	.00	.00
	18.832	1293.20	1310.66	9891.80	10107.00	215.20	17.46	15400.00	.78	.43	.00	.00	.00
	18.925	1294.60	1310.64	9887.57	10087.64	200.07	16.04	15400.00	.97	.45	.00	.00	.00
	18.925	1294.60	1311.05	9887.70	10087.50	199.80	16.45	15400.00	.89	.39	.00	.00	.00
*	19.018	1297.60	1310.89	9866.12	10038.56	172.44	13.29	15400.00	1.80	.26	.00	.00	.00
*	19.018	1297.60	1311.26	9866.30	10038.50	172.20	13.66	15400.00	1.66	.21	.00	.00	.00
*	19.117	1298.60	1312.49	9942.00	10062.09	120.09	13.89	15400.00	4.37	1.59	.00	.00	.00
*	19.117	1298.60	1312.68	9942.10	10061.90	119.80	14.08	15400.00	4.15	1.43	.00	.00	.00
*	19.210	1300.20	1317.19	9922.94	10081.20	158.26	16.99	15400.00	1.82	4.70	.00	.00	.00
*	19.210	1300.20	1317.10	9923.33	10080.82	157.49	16.90	15400.00	1.85	4.42	.00	.00	.00
*	19.283	1311.70	1319.92	9948.00	10057.00	109.00	8.22	14600.00	4.12	2.73	.00	.00	.00
*	19.283	1311.70	1319.92	9948.00	10057.00	109.00	8.22	14600.00	4.13	2.82	.00	.00	.00
*	19.299	1311.70	1322.06	9948.00	10057.00	109.00	10.36	14600.00	2.60	2.13	.00	1326.50	1324.20
*	19.299	1311.70	1322.06	9948.00	10057.00	109.00	10.36	14600.00	2.60	2.14	.00	1326.50	1324.20
	19.313	1311.70	1323.31	9944.34	10104.00	159.66	11.61	14600.00	1.87	1.25	.00	.00	.00
	19.313	1311.70	1323.30	9944.35	10103.99	159.64	11.60	14600.00	1.87	1.25	.00	.00	.00
	19.418	1313.00	1325.59	9955.11	10117.80	162.69	12.59	14600.00	1.83	2.29	.00	.00	.00
	19.418	1313.00	1325.59	9955.11	10117.80	162.69	12.59	14600.00	1.83	2.29	.00	.00	.00

	19.560	1315.60	1328.21	9931.38	10060.98	129.60	12.61	14600.00	1.94	2.62	.00	.00	.00
	19.560	1315.60	1328.21	9931.37	10060.99	129.63	12.61	14600.00	1.93	2.62	.00	.00	.00
*	19.625	1317.60	1329.89	9965.00	10025.00	60.00	12.29	5700.00	.93	1.68	.00	.00	.00
	19.625	1317.60	1329.95	9965.00	10025.00	60.00	12.35	5700.00	.92	1.74	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	19.691	1318.60	1331.53	9965.00	10025.00	60.00	12.93	5700.00	.84	1.64	.00	1334.80	1328.30
	19.691	1318.60	1331.60	9965.00	10025.00	60.00	13.00	5700.00	.83	1.65	.00	1334.80	1328.30
	19.742	1319.10	1331.99	9935.22	10043.57	108.35	12.89	5700.00	.52	.46	.00	.00	.00
	19.742	1319.10	1332.03	9953.00	10038.00	85.00	12.93	5700.00	.54	.43	.00	.00	.00
*	19.847	1318.80	1332.14	9940.63	10050.49	109.85	13.34	5700.00	.59	.15	.00	.00	.00
*	19.847	1318.80	1332.14	9957.00	10043.00	86.00	13.34	5700.00	.67	.11	.00	.00	.00
*	19.960	1324.60	1332.37	9950.40	10037.28	86.88	7.77	5700.00	2.55	.24	.00	.00	.00
*	19.960	1324.60	1332.43	9958.00	10031.00	73.00	7.83	5700.00	2.60	.29	.00	.00	.00
*	19.974	1323.80	1333.31	9969.00	10020.00	51.00	9.51	5700.00	2.14	.94	.00	.00	.00
*	19.974	1323.80	1333.67	9969.00	10020.00	51.00	9.87	5700.00	1.99	1.24	.00	.00	.00
	19.986	1323.80	1335.25	9969.00	10020.00	51.00	11.45	5700.00	1.48	1.94	.00	1337.90	1334.10
	19.986	1323.80	1335.72	9969.00	10020.00	51.00	11.92	5700.00	1.37	2.05	.00	1337.90	1334.10
*	20.049	1327.10	1338.35	9971.56	10025.19	53.63	11.25	5700.00	3.54	3.10	.00	.00	.00
*	20.049	1327.10	1338.20	9975.00	10024.93	49.93	11.10	5700.00	3.76	2.49	.00	.00	.00
*	20.144	1330.90	1343.48	9960.58	10044.51	83.94	12.58	5700.00	1.58	5.13	.00	.00	.00
*	20.144	1330.90	1343.38	9972.00	10029.00	57.00	12.48	5700.00	1.79	5.17	.00	.00	.00
	20.242	1333.30	1345.49	9961.30	10049.98	88.68	12.19	5700.00	1.57	2.00	.00	.00	.00
	20.242	1333.30	1345.51	9964.00	10035.00	71.00	12.21	5700.00	1.65	2.13	.00	.00	.00
	20.335	1337.30	1347.44	9950.57	10038.88	88.31	10.14	5700.00	1.17	1.95	.00	.00	.00
	20.335	1337.30	1347.54	9963.00	10036.00	73.00	10.24	5700.00	1.25	2.03	.00	.00	.00
	20.347	1337.20	1347.24	9970.00	10021.00	51.00	10.04	5700.00	1.92	-.20	.00	.00	.00
	20.347	1337.20	1347.42	9970.00	10021.00	51.00	10.22	5700.00	1.86	-.12	.00	.00	.00
	20.366	1337.20	1347.97	9970.00	10021.00	51.00	10.77	5700.00	1.67	.73	.00	1354.50	1349.70
	20.366	1337.20	1348.18	9970.00	10021.00	51.00	10.98	5700.00	1.61	.76	.00	1354.50	1349.70
	20.423	1338.00	1349.57	9958.69	10071.51	112.82	11.57	5700.00	.94	1.60	.00	.00	.00
	20.423	1338.00	1349.71	9958.20	10072.00	113.80	11.71	5700.00	.91	1.52	.00	.00	.00
	20.430	1339.30	1349.13	9985.00	10036.00	51.00	9.83	5700.00	2.01	-.44	.00	.00	.00
	20.430	1339.30	1349.27	9985.00	10036.00	51.00	9.97	5700.00	1.95	-.43	.00	.00	.00
	20.444	1339.30	1349.92	9985.00	10036.00	51.00	10.62	5700.00	1.72	.80	.00	1355.50	1351.30
	20.444	1339.30	1350.02	9985.00	10036.00	51.00	10.72	5700.00	1.69	.75	.00	1355.50	1351.30
	20.529	1343.00	1352.25	9905.35	10095.18	189.83	9.25	5700.00	.70	2.33	.00	.00	.00
	20.529	1343.00	1352.24	9930.00	10069.00	139.00	9.24	5700.00	.77	2.22	.00	.00	.00
	20.628	1343.30	1353.31	9917.80	10068.41	150.61	10.01	5700.00	.43	1.06	.00	.00	.00
	20.628	1343.30	1353.34	9935.00	10065.00	130.00	10.04	5700.00	.45	1.10	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	20.725	1347.20	1356.04	9959.29	10026.51	67.22	8.84	5700.00	3.06	2.72	.00	.00	.00
*	20.725	1347.20	1355.94	9962.00	10026.00	64.00	8.74	5700.00	3.18	2.60	.00	.00	.00
*	20.737	1350.90	1358.17	9968.00	10019.00	51.00	7.27	5700.00	3.67	2.13	.00	.00	.00
*	20.737	1350.90	1358.20	9968.00	10019.00	51.00	7.30	5700.00	3.64	2.25	.00	.00	.00
*	20.750	1351.00	1360.60	9968.00	10019.00	51.00	9.60	5700.00	2.11	2.43	.00	1366.00	1363.00
*	20.750	1351.00	1360.60	9968.00	10019.00	51.00	9.60	5700.00	2.11	2.40	.00	1366.00	1363.00
*	20.819	1356.50	1362.37	9965.00	10043.00	78.00	5.87	5700.00	2.41	1.77	.00	.00	.00
*	20.819	1356.50	1362.37	9965.00	10043.00	78.00	5.87	5700.00	2.41	1.77	.00	.00	.00
*	20.841	1357.40	1364.38	9965.00	10043.00	78.00	6.98	5700.00	1.70	2.01	.00	1369.90	1365.40
*	20.841	1357.40	1364.38	9965.00	10043.00	78.00	6.98	5700.00	1.70	2.01	.00	1369.90	1365.40
*	20.860	1356.30	1365.98	9800.89	10062.04	261.14	9.68	5700.00	.69	1.60	.00	.00	.00
*	20.860	1356.30	1365.94	9904.00	10060.00	156.00	9.64	5700.00	.72	1.56	.00	.00	.00
	20.942	1359.60	1367.29	9629.81	10168.29	313.22	7.69	5700.00	.43	1.31	.00	.00	.00
*	20.942	1359.60	1367.23	9860.00	10110.00	250.00	7.63	5700.00	.74	1.29	.00	.00	.00
*	21.036	1363.50	1371.95	9568.93	10089.02	520.10	8.45	5700.00	1.12	4.66	.00	.00	.00
*	21.036	1363.50	1371.48	9810.00	10060.00	250.00	7.98	5700.00	1.62	4.25	.00	.00	.00
*	21.127	1366.70	1374.75	9631.62	10066.01	434.39	8.05	5700.00	1.00	2.80	.00	.00	.00
	21.127	1366.70	1374.63	9900.00	10060.00	160.00	7.93	5700.00	1.81	3.15	.00	.00	.00
*	21.230	1372.00	1380.36	9818.28	10126.36	304.81	8.36	5700.00	1.30	5.62	.00	.00	.00
*	21.230	1372.00	1380.37	9900.00	10125.00	221.77	8.37	5700.00	1.52	5.74	.00	.00	.00
*	21.363	1374.10	1383.37	9556.04	10337.00	366.91	9.27	5700.00	.53	3.00	.00	.00	.00
*	21.363	1374.10	1383.58	9939.05	10105.49	166.44	9.48	5700.00	.53	3.21	.00	.00	.00
*	21.484	1378.50	1386.53	9497.84	10076.82	514.70	8.03	5700.00	.92	3.16	.00	.00	.00
*	21.484	1378.50	1387.09	9852.00	10077.00	215.51	8.59	5700.00	1.45	3.51	.00	.00	.00
*	21.576	1382.10	1389.24	9388.00	10340.54	868.38	7.14	5700.00	.78	2.71	.00	.00	.00
*	21.576	1382.10	1390.18	9940.00	10165.00	225.00	8.08	5700.00	.88	3.08	.00	.00	.00
*	21.669	1384.00	1393.38	9392.00	10414.00	977.37	9.38	5500.00	.60	4.13	.00	.00	.00
*	21.669	1384.00	1393.89	9890.00	10115.00	225.00	9.89	5500.00	1.35	3.72	.00	.00	.00
*	21.742	1386.40	1395.18	9744.71	10353.48	525.85	8.78	5500.00	1.19	1.80	.00	.00	.00
*	21.742	1386.40	1396.16	9940.00	10140.00	200.00	9.76	5500.00	.79	2.27	.00	.00	.00
	21.840	1391.10	1398.04	9857.22	10295.09	437.88	6.94	5500.00	.80	2.86	.00	.00	.00
*	21.840	1391.10	1397.92	9900.00	10100.00	200.00	6.82	5500.00	1.17	1.76	.00	.00	.00
*	21.895	1391.90	1399.67	9834.78	10431.00	596.22	7.77	5500.00	.80	1.63	.00	.00	.00
	21.895	1391.90	1399.72	9834.63	10080.00	245.37	7.82	5500.00	1.32	1.80	.00	.00	.00

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	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	21.933	1396.80	1400.86	9314.75	10285.14	970.39	4.06	5500.00	.13	1.19	.00	.00	.00
*	21.933	1396.80	1401.48	9650.00	10070.00	420.00	4.68	5500.00	.20	1.77	.00	.00	.00
*	21.953	1394.00	1401.06	9424.44	10052.98	459.91	7.06	5500.00	.94	.20	.00	.00	.00
*	21.953	1394.00	1401.20	9630.00	10051.00	310.27	7.20	5500.00	.89	-.28	.00	.00	.00
*	22.065	1395.80	1404.08	9242.08	10049.66	777.84	8.28	5500.00	.17	3.02	.00	.00	.00

*	22[illegible]	1395.80	1404.48	9620.00	10030.00	396.88	8.68	[illegible]00.00	.36	3.27	.00	.00	.00
	22.165	1395.00	1405.25	9137.48	10060.52	828.27	10.25	5500.00	.21	1.17	.00	.00	.00
	22.165	1395.00	1406.06	9620.00	10020.00	381.09	11.06	5500.00	.36	1.59	.00	.00	.00
*	22.273	1399.40	1406.66	9320.96	10027.44	419.21	7.26	5500.00	.71	1.42	.00	.00	.00
*	22.273	1399.40	1407.61	9650.00	10027.00	292.44	8.21	5500.00	.72	1.54	.00	.00	.00
*	22.410	1404.00	1414.22	9854.46	10066.88	193.61	10.22	5500.00	1.76	7.56	.00	.00	.00
*	22.410	1404.00	1414.09	9860.00	10040.00	159.26	10.09	5500.00	1.92	6.48	.00	.00	.00
*	22.483	1405.50	1416.46	9874.91	10199.99	325.09	10.96	5500.00	.12	2.23	.00	.00	.00
*	22.483	1405.50	1416.74	9890.00	10050.00	160.00	11.24	5500.00	.30	2.65	.00	.00	.00
*	22.578	1406.70	1416.34	9968.38	10064.20	95.82	9.65	5500.00	.99	-.11	.00	.00	.00
*	22.578	1406.70	1417.22	9968.00	10064.00	96.00	10.52	5500.00	.79	.48	.00	.00	.00
*	22.675	1409.70	1418.01	9740.49	10028.39	287.90	8.31	5500.00	.14	1.66	.00	.00	.00
*	22.675	1409.70	1418.72	9830.00	10028.00	198.00	9.02	5500.00	.24	1.50	.00	.00	.00
*	22.794	1410.70	1418.55	9978.95	10194.69	215.74	7.85	5500.00	.42	.55	.00	.00	.00
	22.794	1410.70	1419.50	9977.00	10160.00	183.00	8.80	5500.00	.34	.78	.00	.00	.00
	22.880	1413.00	1420.05	9952.13	10163.91	211.78	7.05	5500.00	.58	1.49	.00	.00	.00
*	22.880	1413.00	1420.53	9951.00	10120.00	169.00	7.53	5500.00	.78	1.03	.00	.00	.00
	22.990	1417.90	1423.63	9754.06	10026.14	272.08	5.73	5500.00	.62	3.59	.00	.00	.00
	22.990	1417.90	1424.63	9890.00	10026.00	136.00	6.73	5500.00	1.14	4.10	.00	.00	.00
*	23.097	1425.10	1429.89	9899.14	10117.43	186.86	4.79	5500.00	1.57	6.25	.00	.00	.00
	23.097	1425.10	1430.60	9958.00	10090.00	132.00	5.50	5500.00	1.50	5.97	.00	.00	.00
*	23.168	1428.90	1433.05	9604.29	10213.52	609.23	4.15	5500.00	.17	3.16	.00	.00	.00
*	23.168	1428.90	1433.69	9830.00	10140.00	310.00	4.79	5500.00	.27	3.09	.00	.00	.00
*	23.253	1425.20	1434.53	9978.44	10023.18	44.74	9.33	3400.00	2.83	1.48	.00	.00	.00
*	23.253	1425.20	1434.48	9978.53	10023.10	44.57	9.28	3400.00	2.88	.79	.00	.00	.00
	23.334	1432.60	1440.39	9969.06	10035.98	66.92	7.79	3400.00	1.43	5.86	.00	.00	.00
*	23.334	1432.60	1440.42	9969.01	10036.00	66.99	7.82	3400.00	1.42	5.94	.00	.00	.00
	23.416	1436.50	1443.82	9980.93	10040.07	59.14	7.32	3400.00	1.77	3.43	.00	.00	.00
	23.416	1436.50	1443.82	9980.95	10040.06	59.11	7.32	3400.00	1.78	3.40	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	23.514	1439.60	1448.11	9977.54	10035.01	57.47	8.51	3400.00	1.35	4.28	.00	.00	.00
	23.514	1439.60	1448.11	9977.53	10035.02	57.48	8.51	3400.00	1.35	4.30	.00	.00	.00
	23.544	1441.40	1448.91	9978.90	10033.70	54.80	7.51	3400.00	1.88	.80	.00	.00	.00
	23.544	1441.40	1448.92	9978.90	10033.70	54.80	7.52	3400.00	1.87	.80	.00	.00	.00
*	23.555	1442.00	1452.64	9974.59	10037.86	63.27	10.64	3400.00	.74	3.72	3249.50	1449.00	1445.00
*	23.555	1442.00	1452.64	9974.59	10037.86	63.27	10.64	3400.00	.74	3.72	3249.50	1449.00	1445.00
	23.591	1444.20	1453.15	9968.00	10043.49	75.49	8.95	3400.00	.78	.51	.00	.00	.00
	23.591	1444.20	1453.15	9968.00	10043.49	75.49	8.95	3400.00	.78	.51	.00	.00	.00
	23.691	1446.40	1455.15	9970.39	10035.72	65.33	8.75	3400.00	1.33	2.01	.00	.00	.00
	23.691	1446.40	1455.15	9970.39	10035.72	65.33	8.75	3400.00	1.33	2.01	.00	.00	.00
*	23.815	1449.70	1459.01	9951.00	10037.00	86.00	9.31	4350.00	1.08	3.86	.00	.00	.00
*	23.815	1449.70	1459.01	9951.00	10037.00	86.00	9.31	4350.00	1.08	3.86	.00	.00	.00

*	23.912	1447.90	1461.04	9967.41	10043.00	75.59	13.14	5300.00	1.14	2.03	.00	.00	.00
*	23.912	1447.90	1461.04	9967.41	10043.00	75.59	13.14	5300.00	1.14	2.03	.00	.00	.00
*	23.989	1449.70	1462.61	9944.77	10043.68	98.91	12.91	5300.00	.63	1.56	.00	.00	.00
*	23.989	1449.70	1462.61	9944.77	10043.68	98.91	12.91	5300.00	.63	1.56	.00	.00	.00
	24.086	1453.60	1463.44	9972.00	10044.00	72.00	9.84	5300.00	.87	.83	.00	.00	.00
	24.086	1453.60	1463.44	9972.00	10044.00	72.00	9.84	5300.00	.87	.83	.00	.00	.00
	24.096	1453.60	1464.71	9972.00	10044.00	72.00	11.11	5300.00	.68	1.27	.00	1466.70	1462.20
	24.096	1453.60	1464.71	9972.00	10044.00	72.00	11.11	5300.00	.68	1.27	.00	1466.70	1462.20
	24.106	1454.20	1465.21	9952.58	10119.36	166.78	11.01	5300.00	.34	.50	.00	.00	.00
	24.106	1454.20	1465.00	9955.00	10055.00	100.00	10.80	5300.00	.51	.29	.00	.00	.00
*	24.195	1453.60	1465.69	9941.09	10137.67	196.58	12.09	5300.00	.15	.48	.00	.00	.00
	24.195	1453.60	1465.68	9950.00	10050.00	100.00	12.08	5300.00	.34	.67	.00	.00	.00
*	24.322	1451.60	1465.91	9858.94	10225.25	366.31	14.31	5300.00	.04	.22	.00	.00	.00
*	24.322	1451.60	1466.17	9940.00	10080.00	140.00	14.57	5300.00	.15	.49	.00	.00	.00
*	24.444	1457.30	1465.95	9926.47	10204.13	277.67	8.65	5300.00	.15	.04	.00	.00	.00
*	24.444	1457.30	1466.37	9927.00	10080.00	153.00	9.07	5300.00	.33	.20	.00	.00	.00
*	24.542	1459.80	1466.33	9907.26	10181.31	181.23	6.53	5300.00	.92	.37	.00	.00	.00
*	24.542	1459.80	1467.31	9950.00	10160.00	121.98	7.51	5300.00	1.04	.94	.00	.00	.00
	24.635	1466.80	1472.05	9911.01	10105.18	194.18	5.25	5300.00	1.28	5.72	.00	.00	.00
*	24.635	1466.80	1472.06	9940.00	10060.00	120.00	5.26	5300.00	1.79	4.75	.00	.00	.00
*	24.738	1472.00	1476.89	9936.06	10340.68	355.18	4.89	5200.00	.29	4.84	.00	.00	.00
*	24.738	1472.00	1477.80	9936.00	10200.00	225.20	5.80	5200.00	.48	5.74	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	24.838	1474.70	1480.33	9968.35	10633.62	650.49	5.63	5200.00	.60	3.44	.00	.00	.00
*	24.838	1474.70	1480.98	9968.00	10350.00	370.28	6.28	5200.00	.75	3.18	.00	.00	.00
*	24.943	1477.70	1483.44	9801.22	10618.77	799.36	5.74	5200.00	.12	3.12	.00	.00	.00
*	24.943	1477.70	1484.36	9860.00	10300.00	433.65	6.66	5200.00	.22	3.38	.00	.00	.00
*	25.048	1483.70	1487.27	9705.76	10481.24	557.24	3.57	5200.00	.71	3.83	.00	.00	.00
*	25.048	1483.70	1487.63	9850.00	10250.00	369.90	3.93	5200.00	.94	3.27	.00	.00	.00
*	25.163	1486.00	1492.19	9922.08	10297.84	369.01	6.19	4900.00	.31	4.92	.00	.00	.00
*	25.163	1486.00	1493.08	9940.00	10175.00	234.87	7.08	4900.00	.45	5.45	.00	.00	.00
	25.262	1484.00	1494.01	9501.71	10023.49	521.78	10.01	4900.00	.19	1.82	.00	.00	.00
	25.262	1484.00	1495.04	9750.00	10023.00	273.00	11.04	4900.00	.32	1.96	.00	.00	.00
*	25.374	1493.30	1499.37	9655.94	10023.00	367.07	6.07	4900.00	.26	5.35	.00	.00	.00
*	25.374	1493.30	1500.17	9925.00	10023.00	98.00	6.87	4900.00	2.16	5.12	.00	.00	.00
*	25.434	1495.80	1503.97	9970.53	10035.93	65.40	8.17	4900.00	2.95	4.60	.00	.00	.00
	25.434	1495.80	1504.17	9970.00	10036.00	66.00	8.37	4900.00	2.75	4.00	.00	.00	.00
*	25.500	1497.70	1507.74	9923.52	10094.35	170.83	10.04	4900.00	.34	3.77	.00	.00	.00
*	25.500	1497.70	1507.65	9970.00	10050.00	80.00	9.95	4900.00	.77	3.49	.00	.00	.00
*	25.523	1496.00	1507.99	9930.02	10091.63	161.62	11.99	4900.00	.20	.25	.00	.00	.00
*	25.523	1496.00	1508.20	9960.00	10040.00	80.00	12.20	4900.00	.43	.55	.00	.00	.00

*	25.[illegible]	1505.54	1510.75	9963.45	10036.55	73.10	5.21	[illegible]900.00	2.61	2.76	.00	.00	.00
*	25.534	1505.54	1510.76	9963.45	10036.55	73.10	5.22	4900.00	2.60	2.56	.00	.00	.00
*	25.551	1505.54	1512.21	9963.29	10036.71	73.41	6.67	4900.00	1.58	1.46	.00	.00	.00
*	25.551	1505.54	1512.21	9963.29	10036.71	73.41	6.67	4900.00	1.58	1.46	.00	.00	.00
	25.557	1505.54	1512.08	9959.87	10040.13	80.27	6.54	4900.00	1.93	-.14	.00	.00	.00
	25.557	1505.54	1512.07	9959.87	10040.13	80.25	6.53	4900.00	1.94	-.14	.00	.00	.00
	25.561	1505.60	1514.36	9949.33	10067.02	117.68	8.76	2900.00	.19	2.29	.00	.00	.00
	25.561	1505.60	1514.32	9949.44	10050.00	100.55	8.72	2900.00	.23	2.24	.00	.00	.00
*	25.680	1506.50	1514.74	9471.45	10305.23	663.75	8.24	2700.00	.04	.38	.00	.00	.00
*	25.680	1506.50	1514.80	9950.00	10050.00	100.00	8.30	2700.00	.45	.48	.00	.00	.00
*	25.786	1510.70	1516.32	9982.01	10442.86	351.98	5.62	2500.00	.64	1.58	.00	.00	.00
*	25.786	1510.70	1516.35	9982.00	10082.00	100.00	5.65	2500.00	1.36	1.55	.00	.00	.00
	25.947	1514.40	1521.07	9958.72	10123.26	164.54	6.67	2300.00	.56	4.75	.00	.00	.00
*	25.947	1514.40	1521.86	9959.00	10059.00	100.00	7.46	2300.00	.54	5.51	.00	.00	.00
	26.058	1516.20	1523.49	9841.26	10023.28	182.03	7.29	2200.00	.49	2.42	.00	.00	.00
	26.058	1516.20	1523.83	9950.00	10023.00	73.00	7.63	2200.00	.82	1.97	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	26.152	1520.00	1524.99	9958.10	10063.97	105.87	4.99	2000.00	.46	1.50	.00	.00	.00
	26.152	1520.00	1525.70	9970.00	10040.00	70.00	5.70	2000.00	.50	1.87	.00	.00	.00
*	26.265	1522.00	1528.15	9972.98	10076.25	103.26	6.15	1900.00	1.24	3.15	.00	.00	.00
*	26.265	1522.00	1528.08	9973.34	10060.00	86.66	6.08	1900.00	1.30	2.38	.00	.00	.00
*	26.372	1523.80	1531.35	9967.15	10064.32	97.17	7.55	1700.00	.32	3.20	.00	.00	.00
*	26.372	1523.80	1531.37	9967.05	10064.00	96.95	7.57	1700.00	.32	3.29	.00	.00	.00
*	26.492	1525.70	1532.15	9885.25	10068.38	183.14	6.45	1600.00	.08	.80	.00	.00	.00
*	26.492	1525.70	1532.19	9955.00	10045.00	90.00	6.49	1600.00	.15	.83	.00	.00	.00
*	26.582	1524.10	1532.24	9470.61	10189.08	718.47	8.14	1300.00	.00	.09	.00	.00	.00
	26.582	1524.10	1532.43	9945.00	10025.00	80.00	8.33	1300.00	.09	.24	.00	.00	.00
*	26.673	1531.80	1533.98	9957.84	10280.56	239.18	2.18	1300.00	.53	1.74	.00	.00	.00
*	26.673	1531.80	1534.94	9970.00	10030.00	60.00	3.14	1300.00	1.23	2.51	.00	.00	.00
*	26.784	1542.70	1546.18	9980.90	10048.91	68.01	3.48	1100.00	1.02	12.20	.00	.00	.00
*	26.784	1542.70	1546.25	9981.00	10031.00	50.00	3.55	1100.00	1.24	11.32	.00	.00	.00
*	26.883	1540.10	1547.31	9765.39	10199.60	434.21	7.21	1000.00	.00	1.13	.00	.00	.00
*	26.883	1540.10	1547.92	9975.00	10025.00	50.00	7.82	1000.00	.10	1.67	.00	.00	.00
*	26.984	1540.50	1547.31	9932.30	10336.41	371.10	6.81	900.00	.00	.00	.00	.00	.00
*	26.984	1540.50	1548.07	9975.00	10025.00	50.00	7.57	900.00	.17	.15	.00	.00	.00
*	27.060	1554.10	1559.46	9983.67	10013.14	29.47	5.36	900.00	1.56	12.15	.00	.00	.00
*	27.060	1554.10	1559.45	9983.69	10013.10	29.41	5.35	900.00	1.57	11.38	.00	.00	.00
*	27.166	1555.20	1562.18	9981.04	10020.03	38.99	6.98	600.00	.17	2.72	.00	.00	.00
*	27.166	1555.20	1562.18	9981.03	10020.00	38.97	6.98	600.00	.17	2.72	.00	.00	.00
	27.294	1556.00	1562.54	9972.01	10022.21	50.20	6.54	400.00	.05	.36	.00	.00	.00
	27.294	1556.00	1562.54	9972.01	10022.20	50.19	6.54	400.00	.05	.36	.00	.00	.00
	-19.560	1315.60	1328.21	9931.37	10060.99	129.62	12.61	14600.00	1.93	-234.33	.00	.00	.00

	-19.560	1315.60	1328.21	9931.37	10060.99	129.62	12.61	14600.00	1.93	-234.33	.00	.00	.00
*	.029	1319.60	1329.35	9942.56	10073.06	130.50	9.75	9500.00	3.24	1.14	.00	.00	.00
*	.029	1319.60	1329.43	9942.56	10073.10	130.54	9.83	9500.00	3.16	1.22	.00	.00	.00
*	.112	1321.50	1332.94	9762.30	10092.55	330.25	11.44	9500.00	.50	3.59	.00	.00	.00
*	.112	1321.50	1332.88	9905.00	10092.00	187.00	11.38	9500.00	.55	3.45	.00	.00	.00
	.198	1323.80	1333.31	9860.87	10110.44	249.57	9.51	9500.00	.63	.37	.00	.00	.00
	.198	1323.80	1333.26	9910.00	10110.00	200.00	9.46	9500.00	.66	.38	.00	.00	.00
*	.288	1325.70	1333.31	9903.19	10053.94	150.75	7.61	9500.00	2.52	.00	.00	.00	.00
*	.288	1325.70	1333.30	9903.24	10053.90	150.67	7.60	9500.00	2.53	.04	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	.398	1328.80	1337.27	9912.48	10094.30	181.83	8.47	9500.00	1.08	3.96	.00	.00	.00
*	.398	1328.80	1337.27	9912.47	10094.00	181.53	8.47	9500.00	1.08	3.96	.00	.00	.00
*	.482	1331.20	1342.35	9903.83	10793.57	889.74	11.15	9500.00	1.05	5.09	.00	.00	.00
*	.482	1331.20	1341.93	9904.00	10175.00	271.00	10.73	9500.00	2.11	4.66	.00	.00	.00
	.575	1331.50	1343.82	9777.80	10508.02	730.21	12.32	9500.00	.71	1.47	.00	.00	.00
	.575	1331.50	1344.62	9870.00	10080.00	210.00	13.12	9500.00	.94	2.69	.00	.00	.00
	.697	1334.00	1345.06	9856.01	10093.21	237.20	11.06	9400.00	1.04	1.24	.00	.00	.00
	.697	1334.00	1345.85	9875.00	10035.00	160.00	11.85	9400.00	.97	1.23	.00	.00	.00
*	.826	1338.80	1348.29	9845.35	10045.20	199.85	9.49	9400.00	2.23	3.24	.00	.00	.00
*	.826	1338.80	1348.19	9880.00	10040.00	160.00	9.39	9400.00	2.41	2.34	.00	.00	.00
*	.945	1340.40	1352.12	9624.18	10185.88	561.70	11.72	9400.00	.52	3.82	.00	.00	.00
*	.945	1340.40	1352.42	9870.00	10030.00	160.00	12.02	9400.00	.92	4.23	.00	.00	.00
	1.035	1341.90	1352.93	9686.18	10146.95	460.77	11.03	9400.00	.72	.82	.00	.00	.00
	1.035	1341.90	1353.60	9870.00	10030.00	160.00	11.70	9400.00	1.12	1.17	.00	.00	.00
	1.121	1343.60	1354.16	9871.67	10106.95	235.28	10.56	9400.00	.80	1.23	.00	.00	.00
	1.121	1343.60	1355.17	9890.00	10050.00	160.00	11.57	9400.00	.71	1.58	.00	.00	.00
*	1.204	1344.30	1355.42	9930.00	10173.36	226.07	11.12	9400.00	2.09	1.26	.00	.00	.00
*	1.204	1344.30	1355.74	9950.00	10110.00	160.00	11.44	9400.00	2.09	.57	.00	.00	.00
*	1.315	1348.80	1359.33	9904.63	10236.67	332.04	10.53	9100.00	.39	3.91	.00	.00	.00
*	1.315	1348.80	1359.79	9905.00	10060.00	155.00	10.99	9100.00	.72	4.05	.00	.00	.00
*	1.420	1354.90	1359.99	9895.02	10084.98	189.95	5.09	9100.00	2.08	.66	.00	.00	.00
*	1.420	1354.90	1360.19	9895.00	10085.00	190.00	5.29	9100.00	1.89	.40	.00	.00	.00

CAVE CREEK WASH

SUMMARY PRINTOUT TABLE 110

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
17.588	1283.69	.00	1284.02	451.78	3410.65	11671.02	318.33	.00	.00	9982.00	10193.00	.00
17.588	1284.69	1.00	1285.08	337.76	1964.85	13435.15	.00	.16	9855.24	9982.00	10193.00	10193.00

*	17[illegible]	1283.82	.00	1284.71	319.71	3988.73	11364.70	[illegible]46.58	.00	.00	9941.00	10130.00	.00
*	17.662	1284.81	.99	1285.77	250.00	2238.05	13039.23	122.73	250.00	9900.00	9941.00	10130.00	10150.00
*	17.783	1285.58	.00	1287.86	201.37	296.49	14381.19	722.32	.00	.00	9921.00	10064.00	.00
*	17.783	1286.37	.79	1288.65	143.00	.00	15400.00	.00	.09	9921.00	9921.00	10064.00	10064.00
	17.932	1290.98	.00	1294.60	164.24	59.98	15314.69	25.33	.00	.00	9956.00	10066.00	.00
	17.932	1291.41	.42	1294.76	110.00	.00	15400.00	.00	.02	9956.00	9956.00	10066.00	10066.00
*	18.042	1294.31	.00	1298.14	96.76	.00	15400.00	.00	.00	.00	9951.00	10049.00	.00
*	18.042	1294.43	.12	1298.17	96.78	.00	15400.00	.00	.00	9951.00	9951.00	10049.00	10049.00
	18.061	1296.44	.00	1299.43	96.89	.00	15400.00	.00	.00	.00	9951.00	10049.00	.00
	18.061	1296.69	.25	1299.55	96.91	.00	15400.00	.00	.00	9951.00	9951.00	10049.00	10049.00
*	18.081	1299.54	.00	1300.24	229.58	1235.51	12528.72	1635.78	.00	.00	9942.00	10045.00	.00
*	18.081	1299.61	.07	1300.32	185.00	1220.63	12608.39	1570.98	185.00	9900.00	9942.00	10045.00	10085.00
	18.174	1300.22	.00	1300.52	597.84	1569.89	11409.13	2420.99	.00	.00	9919.00	10073.00	.00
	18.174	1300.18	-.04	1300.63	267.98	1800.18	13116.05	483.77	268.00	9857.00	9919.00	10073.00	10125.00
*	18.269	1300.17	.00	1300.93	228.73	2261.70	12456.32	681.98	.00	.00	9942.00	10060.00	.00
	18.269	1300.30	.12	1301.04	227.80	2281.27	12415.20	703.53	227.80	9882.20	9942.00	10060.00	10110.00
	18.362	1300.54	.00	1301.51	212.97	1154.29	13225.19	1020.51	.00	.00	9942.00	10060.00	.00
	18.362	1300.64	.11	1301.60	212.20	1169.84	13188.25	1041.91	212.20	9895.60	9942.00	10060.00	10107.80
*	18.445	1305.39	.00	1307.48	386.47	5165.58	3758.29	6476.14	.00	.00	9992.00	10005.00	.00
*	18.445	1304.91	-.48	1307.77	221.67	5150.63	4076.29	6173.07	225.00	9885.00	9992.00	10005.00	10110.00
*	18.456	1307.31	.00	1308.31	443.73	5168.41	2970.57	7261.02	.00	.00	9992.00	10005.00	.00
*	18.456	1308.52	1.21	1309.57	225.00	5931.90	2952.32	6515.78	225.00	9885.00	9992.00	10005.00	10110.00
*	18.545	1308.28	.00	1308.76	288.68	1745.21	11300.05	2354.74	.00	.00	9951.00	10058.00	.00
*	18.545	1309.56	1.28	1309.93	288.40	1923.29	10840.09	2636.61	288.40	9881.40	9951.00	10058.00	10169.80
	18.575	1308.43	.00	1308.83	290.32	3584.18	3152.32	8663.50	.00	.00	9972.00	10000.00	.00
	18.575	1309.67	1.24	1309.99	290.10	3707.22	3015.70	8677.08	290.10	9880.70	9972.00	10000.00	10170.80
	18.583	1309.50	.00	1309.84	301.44	3685.39	3046.31	8668.30	.00	.00	9972.00	10000.00	.00
	18.583	1310.09	.59	1310.39	301.10	3739.77	2983.72	8676.51	301.10	9876.10	9972.00	10000.00	10177.20
	18.640	1309.43	.00	1310.07	255.52	2345.59	9850.54	3203.87	.00	.00	9955.00	10033.00	.00
	18.640	1310.02	.60	1310.59	255.10	2433.35	9638.38	3328.26	255.10	9879.60	9955.00	10033.00	10134.70

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SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
18.734	1309.68	.00	1310.53	228.83	1314.28	13486.67	599.05	.00	.00	9938.00	10062.00	.00
18.734	1310.24	.55	1310.99	228.50	1412.75	13301.70	685.55	228.50	9883.20	9938.00	10062.00	10111.70
18.832	1310.19	.00	1311.04	216.17	437.54	12951.81	2010.65	.00	.00	9929.00	10046.00	.00
18.832	1310.66	.47	1311.44	215.20	497.22	12812.49	2090.29	215.20	9891.80	9929.00	10046.00	10107.00
18.925	1310.64	.00	1311.60	200.07	1711.89	12782.42	905.69	.00	.00	9941.00	10048.00	.00
18.925	1311.05	.41	1311.94	199.80	1782.17	12651.31	966.52	199.80	9887.70	9941.00	10048.00	10087.50
* 19.018	1310.89	.00	1312.69	172.44	489.51	14883.12	27.37	.00	.00	9903.00	10030.00	.00
* 19.018	1311.26	.36	1312.92	172.20	558.06	14803.54	38.40	172.20	9866.30	9903.00	10030.00	10038.50
* 19.117	1312.49	.00	1316.85	120.09	1414.18	11917.85	2067.97	.00	.00	9973.00	10026.00	.00
* 19.117	1312.68	.20	1316.84	119.80	1457.21	11826.79	2116.00	119.80	9942.10	9973.00	10026.00	10061.90
* 19.210	1317.19	.00	1319.01	158.26	227.00	14955.16	217.84	.00	.00	9945.00	10060.00	.00

*	19.210	1317.10	-.09	1318.95	157.49	219.47	14969.92	210.62	157.90	9923.10	9945.00	10060.00	10081.00
*	19.283	1319.92	.00	1324.04	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.283	1319.92	.00	1324.04	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.299	1322.06	.00	1324.65	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.299	1322.06	.00	1324.65	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
	19.313	1323.31	.00	1325.17	159.66	.00	14600.00	.00	.00	.00	9932.00	10112.00	.00
	19.313	1323.30	.00	1325.17	159.64	.00	14600.00	.00	.00	9932.00	9932.00	10112.00	10112.00
	19.418	1325.59	.00	1327.43	162.69	.00	14600.00	.00	.00	.00	9948.00	10120.00	.00
	19.418	1325.59	.00	1327.43	162.69	.00	14600.00	.00	.00	9948.00	9948.00	10120.00	10120.00
	19.560	1328.21	.00	1330.15	129.60	.00	14600.00	.00	.00	.00	9929.00	10065.00	.00
	19.560	1328.21	.00	1330.15	129.63	.00	14600.00	.00	.00	9929.00	9929.00	10065.00	10065.00
*	19.625	1329.89	.00	1330.82	60.00	.00	5700.00	.00	.00	.00	9965.00	10025.00	.00
	19.625	1329.95	.06	1330.87	60.00	.00	5700.00	.00	.00	9965.00	9965.00	10025.00	10025.00
	19.691	1331.53	.00	1332.37	60.00	.00	5700.00	.00	.00	.00	9965.00	10025.00	.00
	19.691	1331.60	.07	1332.43	60.00	.00	5700.00	.00	.00	9965.00	9965.00	10025.00	10025.00
	19.742	1331.99	.00	1332.51	108.35	.78	5698.99	.24	.00	.00	9948.00	10042.00	.00
	19.742	1332.03	.04	1332.57	85.00	.00	5700.00	.00	85.00	9953.00	9948.00	10042.00	10038.00
*	19.847	1332.14	.00	1332.73	109.85	.00	5700.00	.00	.00	.00	9929.00	10062.00	.00
*	19.847	1332.14	.00	1332.81	86.00	.00	5700.00	.00	86.00	9957.00	9929.00	10062.00	10043.00
*	19.960	1332.37	.00	1334.93	86.88	38.92	5629.33	31.75	.00	.00	9958.00	10031.00	.00
*	19.960	1332.43	.05	1335.03	73.00	.00	5700.00	.00	73.00	9958.00	9958.00	10031.00	10031.00
*	19.974	1333.31	.00	1335.46	51.00	.00	5700.00	.00	.00	.00	9969.00	10020.00	.00
*	19.974	1333.67	.35	1335.66	51.00	.00	5700.00	.00	51.00	9969.00	9969.00	10020.00	10020.00

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	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	19.986	1335.25	.00	1336.73	51.00	.00	5700.00	.00	.00	.00	9969.00	10020.00	.00
	19.986	1335.72	.47	1337.08	51.00	.00	5700.00	.00	51.00	9969.00	9969.00	10020.00	10020.00
*	20.049	1338.35	.00	1341.90	53.63	.00	5700.00	.00	.00	.00	9954.00	10027.00	.00
*	20.049	1338.20	-.15	1341.96	49.93	.00	5700.00	.00	50.00	9975.00	9954.00	10027.00	10025.00
*	20.144	1343.48	.00	1345.07	83.94	.00	5588.64	111.36	.00	.00	9955.00	10025.00	.00
*	20.144	1343.38	-.11	1345.17	57.00	.00	5671.10	28.89	57.00	9972.00	9955.00	10025.00	10029.00
	20.242	1345.49	.00	1347.06	88.68	.00	5546.27	153.73	.00	.00	9953.00	10029.00	.00
	20.242	1345.51	.02	1347.16	71.00	.00	5645.34	54.66	71.00	9964.00	9953.00	10029.00	10035.00
	20.335	1347.44	.00	1348.61	88.31	31.74	5639.18	29.07	.00	.00	9958.00	10032.00	.00
	20.335	1347.54	.10	1348.79	73.00	.00	5671.99	28.01	73.00	9963.00	9958.00	10032.00	10036.00
	20.347	1347.24	.00	1349.16	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.347	1347.42	.18	1349.28	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.366	1347.97	.00	1349.64	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.366	1348.18	.22	1349.79	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.423	1349.57	.00	1350.51	112.82	101.68	5266.19	332.13	.00	.00	9975.00	10045.00	.00
	20.423	1349.71	.14	1350.61	113.80	107.11	5250.90	341.99	114.00	9958.00	9975.00	10045.00	10072.00
	20.430	1349.13	.00	1351.13	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.430	1349.27	.14	1351.22	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00

	20.444	1349.92	.00	1351.64	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.444	1350.02	.10	1351.71	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.529	1352.25	.00	1352.95	189.83	165.51	5398.15	136.33	.00	.00	9947.00	10055.00	.00
	20.529	1352.24	-.01	1353.01	139.00	79.85	5563.98	56.17	139.00	9930.00	9947.00	10055.00	10069.00
	20.628	1353.31	.00	1353.74	150.61	.00	5700.00	.00	.00	.00	9909.00	10076.00	.00
	20.628	1353.34	.03	1353.79	130.00	.00	5700.00	.00	130.00	9935.00	9909.00	10076.00	10065.00
*	20.725	1356.04	.00	1359.09	67.22	.00	5700.00	.00	.00	.00	9951.00	10036.00	.00
*	20.725	1355.94	-.09	1359.12	64.00	.00	5700.00	.00	64.00	9962.00	9951.00	10036.00	10026.00
*	20.737	1358.17	.00	1361.84	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.737	1358.20	.03	1361.84	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.750	1360.60	.00	1362.70	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.750	1360.60	.00	1362.70	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.819	1362.37	.00	1364.78	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.819	1362.37	.00	1364.78	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.841	1364.38	.00	1366.08	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.841	1364.38	.00	1366.08	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	20.860	1365.98	.00	1366.67	261.14	86.17	5613.83	.00	.00	.00	9942.00	10066.00	.00
*	20.860	1365.94	-.04	1366.67	156.00	26.83	5673.17	.00	156.00	9904.00	9942.00	10066.00	10060.00
	20.942	1367.29	.00	1367.72	313.22	.00	3724.38	1975.62	.00	.00	9854.00	10024.00	.00
*	20.942	1367.23	-.06	1367.96	250.00	.00	4745.17	954.83	250.00	9860.00	9854.00	10024.00	10110.00
*	21.036	1371.95	.00	1373.07	520.10	367.07	5202.79	130.15	.00	.00	9912.00	10020.00	.00
*	21.036	1371.48	-.47	1373.10	250.00	112.48	5545.82	41.70	250.00	9810.00	9912.00	10020.00	10060.00
*	21.127	1374.75	.00	1375.74	434.39	1077.09	4622.90	.00	.00	.00	9974.00	10067.00	.00
	21.127	1374.63	-.12	1376.44	160.00	130.17	5569.82	.00	160.00	9900.00	9974.00	10067.00	10060.00
*	21.230	1380.36	.00	1381.67	304.81	508.80	4046.90	1144.30	.00	.00	9967.00	10048.00	.00
*	21.230	1380.37	.00	1381.88	221.77	251.25	4277.13	1171.62	225.00	9900.00	9967.00	10048.00	10125.00
*	21.363	1383.37	.00	1383.90	366.91	98.15	5566.19	35.65	.00	.00	9928.00	10088.00	.00
*	21.363	1383.58	.21	1384.11	166.44	.00	5684.33	15.67	200.00	9930.00	9928.00	10088.00	10130.00
*	21.484	1386.53	.00	1387.44	514.70	2045.40	3648.02	6.58	.00	.00	9932.00	10026.00	.00
*	21.484	1387.09	.57	1388.54	215.51	967.36	4674.76	57.88	225.00	9852.00	9932.00	10026.00	10077.00
*	21.576	1389.24	.00	1390.02	868.38	720.87	4008.42	970.70	.00	.00	9980.00	10087.00	.00
*	21.576	1390.18	.94	1391.06	225.00	16.47	4724.25	959.29	225.00	9940.00	9980.00	10087.00	10165.00
*	21.669	1393.38	.00	1393.98	977.37	905.25	2788.42	1806.33	.00	.00	9962.00	10031.00	.00
*	21.669	1393.89	.52	1395.24	225.00	629.54	3935.40	935.05	225.00	9890.00	9962.00	10031.00	10115.00
*	21.742	1395.18	.00	1396.38	525.85	29.14	5238.84	232.02	.00	.00	9975.00	10091.00	.00
*	21.742	1396.16	.98	1396.95	200.00	87.25	5127.94	284.80	200.00	9940.00	9975.00	10091.00	10140.00
	21.840	1398.04	.00	1398.83	437.88	945.78	4156.96	397.26	.00	.00	9946.00	10054.00	.00
*	21.840	1397.92	-.12	1399.09	200.00	625.73	4701.10	173.18	200.00	9900.00	9946.00	10054.00	10100.00
*	21.895	1399.67	.00	1400.47	596.22	1555.35	2864.44	1080.21	.00	.00	9975.00	10031.00	.00
	21.895	1399.72	.05	1401.04	245.37	1891.44	3424.05	184.51	250.00	9830.00	9975.00	10031.00	10080.00

*	21.933	1400.86	.00	1400.99	970.39	1740.18	3230.12	529.70	.00	.00	9865.00	10140.00	.00
*	21.933	1401.48	.62	1401.69	420.00	2120.38	3379.62	.00	420.00	9650.00	9865.00	10140.00	10070.00
*	21.953	1401.06	.00	1402.01	459.91	2374.60	2981.81	143.59	.00	.00	9969.00	10029.00	.00
*	21.953	1401.20	.14	1402.09	310.27	2410.71	2933.11	156.19	421.00	9630.00	9969.00	10029.00	10051.00
*	22.065	1404.08	.00	1404.25	777.84	4154.77	1273.89	71.34	.00	.00	9961.00	10028.00	.00
*	22.065	1404.48	.40	1404.84	396.88	3697.13	1792.35	10.51	410.00	9620.00	9961.00	10028.00	10030.00
	22.165	1405.25	.00	1405.46	828.27	4034.46	1433.28	32.26	.00	.00	9983.00	10018.00	.00
	22.165	1406.06	.82	1406.42	381.09	3632.26	1859.77	7.97	400.00	9620.00	9983.00	10018.00	10020.00
*	22.273	1406.66	.00	1407.38	419.21	1973.64	3526.36	.00	.00	.00	9933.00	10028.00	.00
*	22.273	1407.61	.94	1408.32	292.44	1439.28	4060.72	.00	377.00	9650.00	9933.00	10028.00	10027.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	22.410	1414.22	.00	1415.98	193.61	768.28	4585.83	145.88	.00	.00	9973.00	10027.00	.00
*	22.410	1414.09	-.14	1416.01	159.26	717.48	4672.17	110.35	180.00	9860.00	9973.00	10027.00	10040.00
*	22.483	1416.46	.00	1416.58	325.09	301.10	4551.84	647.06	.00	.00	9941.00	10105.00	.00
*	22.483	1416.74	.29	1417.04	160.00	505.09	4994.91	.00	160.00	9890.00	9941.00	10105.00	10050.00
*	22.578	1416.34	.00	1417.33	95.82	.00	5500.00	.00	.00	.00	9968.00	10072.00	.00
*	22.578	1417.22	.88	1418.01	96.00	.00	5500.00	.00	96.00	9968.00	9968.00	10072.00	10064.00
*	22.675	1418.01	.00	1418.14	287.90	.00	5500.00	.00	.00	.00	9736.00	10032.00	.00
*	22.675	1418.72	.71	1418.96	198.00	.00	5500.00	.00	198.00	9830.00	9736.00	10032.00	10028.00
*	22.794	1418.55	.00	1418.97	215.74	1.34	5395.07	103.60	.00	.00	9983.00	10169.00	.00
	22.794	1419.50	.95	1419.84	183.00	9.46	5490.54	.00	183.00	9977.00	9983.00	10169.00	10160.00
	22.880	1420.05	.00	1420.62	211.78	.00	5500.00	.00	.00	.00	9927.00	10167.00	.00
*	22.880	1420.53	.49	1421.31	169.00	.00	5500.00	.00	169.00	9951.00	9927.00	10167.00	10120.00
	22.990	1423.63	.00	1424.26	272.08	.00	5500.00	.00	.00	.00	9739.00	10034.00	.00
	22.990	1424.63	1.00	1425.77	136.00	.00	5500.00	.00	136.00	9890.00	9739.00	10034.00	10026.00
*	23.097	1429.89	.00	1431.46	186.86	38.91	5461.09	.00	.00	.00	9951.00	10121.00	.00
	23.097	1430.60	.71	1432.09	132.00	.00	5500.00	.00	132.00	9958.00	9951.00	10121.00	10090.00
*	23.168	1433.05	.00	1433.22	609.23	763.81	4435.30	300.90	.00	.00	9777.00	10116.00	.00
*	23.168	1433.69	.64	1433.96	310.00	.00	5266.17	233.83	310.00	9830.00	9777.00	10116.00	10140.00
*	23.253	1434.53	.00	1437.36	44.74	.00	3400.00	.00	.00	.00	9973.00	10038.00	.00
*	23.253	1434.48	-.05	1437.36	44.57	.00	3400.00	.00	44.70	9978.50	9973.00	10038.00	10023.20
	23.334	1440.39	.00	1441.83	66.92	.00	3400.00	.00	.00	.00	9962.00	10055.00	.00
*	23.334	1440.42	.03	1441.84	66.99	.00	3400.00	.00	67.00	9969.00	9962.00	10055.00	10036.00
	23.416	1443.82	.00	1445.60	59.14	.00	3400.00	.00	.00	.00	9974.00	10053.00	.00
	23.416	1443.82	-.01	1445.59	59.11	.00	3400.00	.00	.00	.00	9974.00	10053.00	.00
	23.514	1448.11	.00	1449.46	57.47	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
	23.514	1448.11	.00	1449.46	57.48	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
	23.544	1448.91	.00	1450.79	54.80	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
	23.544	1448.92	.00	1450.79	54.80	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
*	23.555	1452.64	.00	1453.37	63.27	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
*	23.555	1452.64	.00	1453.37	63.27	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
	23.591	1453.15	.00	1453.93	75.49	.00	3400.00	.00	.00	.00	9968.00	10045.00	.00

	23[illegible]	1453.15	.00	1453.93	75.49	.00	3400.00	.00	.00	.00	9968.00	10045.00	.00
	23.691	1455.15	.00	1456.48	65.33	.00	3400.00	.00	.00	.00	9965.00	10036.00	.00
	23.691	1455.15	.00	1456.48	65.33	.00	3400.00	.00	.00	.00	9965.00	10036.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	23.815	1459.01	.00	1460.09	86.00	.00	4350.00	.00	.00	.00	9951.00	10037.00	.00
*	23.815	1459.01	.00	1460.09	86.00	.00	4350.00	.00	.00	.00	9951.00	10037.00	.00
*	23.912	1461.04	.00	1462.18	75.59	.00	5300.00	.00	.00	.00	9967.00	10043.00	.00
*	23.912	1461.04	.00	1462.18	75.59	.00	5300.00	.00	.00	.00	9967.00	10043.00	.00
*	23.989	1462.61	.00	1463.23	98.91	.00	5300.00	.00	.00	.00	9937.00	10049.00	.00
*	23.989	1462.61	.00	1463.23	98.91	.00	5300.00	.00	.00	.00	9937.00	10049.00	.00
	24.086	1463.44	.00	1464.31	72.00	.00	5300.00	.00	.00	.00	9972.00	10044.00	.00
	24.086	1463.44	.00	1464.31	72.00	.00	5300.00	.00	.00	.00	9972.00	10044.00	.00
	24.096	1464.71	.00	1465.39	72.00	.00	5300.00	.00	.00	.00	9972.00	10044.00	.00
	24.096	1464.71	.00	1465.39	72.00	.00	5300.00	.00	.00	.00	9972.00	10044.00	.00
	24.106	1465.21	.00	1465.55	166.78	1.08	4877.63	421.28	.00	.00	9955.00	10064.00	.00
	24.106	1465.00	-.21	1465.52	100.00	.00	5300.00	.00	100.00	9955.00	9955.00	10064.00	10055.00
*	24.195	1465.69	.00	1465.84	196.58	.00	5300.00	.00	.00	.00	9933.00	10142.00	.00
	24.195	1465.68	-.01	1466.01	100.00	.00	5300.00	.00	100.00	9950.00	9933.00	10142.00	10050.00
*	24.322	1465.91	.00	1465.95	366.31	6.23	4200.34	1093.43	.00	.00	9871.00	10064.00	.00
*	24.322	1466.17	.26	1466.31	140.00	.00	5067.63	232.37	140.00	9940.00	9871.00	10064.00	10080.00
*	24.444	1465.95	.00	1466.10	277.67	.36	4211.19	1088.46	.00	.00	9928.00	10122.00	.00
*	24.444	1466.37	.41	1466.70	153.00	.89	5299.11	.00	153.00	9927.00	9928.00	10122.00	10080.00
*	24.542	1466.33	.00	1467.25	181.23	26.14	5273.86	.00	.00	.00	9914.00	10187.00	.00
*	24.542	1467.31	.98	1468.35	121.98	.00	5300.00	.00	210.00	9950.00	9914.00	10187.00	10160.00
	24.635	1472.05	.00	1473.32	194.18	.00	5300.00	.00	.00	.00	9876.00	10111.00	.00
*	24.635	1472.06	.01	1473.84	120.00	.00	5300.00	.00	120.00	9940.00	9876.00	10111.00	10060.00
*	24.738	1476.89	.00	1477.18	355.18	.00	1399.36	3800.64	.00	.00	9897.00	10038.00	.00
*	24.738	1477.80	.91	1478.28	225.20	.00	2288.79	2911.21	264.00	9936.00	9897.00	10038.00	10200.00
*	24.838	1480.33	.00	1480.92	650.49	.00	1244.32	3955.67	.00	.00	9945.00	10019.00	.00
*	24.838	1480.98	.66	1481.73	370.28	.00	1515.04	3684.96	382.00	9968.00	9945.00	10019.00	10350.00
*	24.943	1483.44	.00	1483.57	799.36	851.43	498.44	3850.13	.00	.00	9983.00	10017.00	.00
*	24.943	1484.36	.92	1484.58	433.65	1224.11	735.71	3240.17	440.00	9860.00	9983.00	10017.00	10300.00
*	25.048	1487.27	.00	1487.98	557.24	1444.52	645.12	3110.36	.00	.00	9966.00	10017.00	.00
*	25.048	1487.63	.36	1488.57	369.90	1208.50	870.32	3121.17	400.00	9850.00	9966.00	10017.00	10250.00
*	25.163	1492.19	.00	1492.51	369.01	205.28	1143.60	3551.12	.00	.00	9972.00	10025.00	.00
*	25.163	1493.08	.89	1493.53	234.87	360.32	1584.93	2954.76	235.00	9940.00	9972.00	10025.00	10175.00
	25.262	1494.01	.00	1494.20	521.78	4118.96	781.04	.00	.00	.00	9948.00	10030.00	.00
	25.262	1495.04	1.03	1495.36	273.00	3562.09	1337.91	.00	273.00	9750.00	9948.00	10030.00	10023.00

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR

*	25.374	1499.37	.00	1499.62	367.07	3795.47	1104.53	.00	.00	.00	9969.00	10023.00	.00
*	25.374	1500.17	.80	1502.33	98.00	1342.90	3557.10	.00	98.00	9925.00	9969.00	10023.00	10023.00
*	25.434	1503.97	.00	1506.92	65.40	.00	4900.00	.00	.00	.00	9968.00	10036.00	.00
	25.434	1504.17	.20	1506.91	66.00	.00	4900.00	.00	66.00	9970.00	9968.00	10036.00	10036.00
*	25.500	1507.74	.00	1508.08	170.83	.00	4900.00	.00	.00	.00	9908.00	10105.00	.00
*	25.500	1507.65	-.09	1508.42	80.00	.00	4900.00	.00	80.00	9970.00	9908.00	10105.00	10050.00
*	25.523	1507.99	.00	1508.19	161.62	472.40	3501.05	926.55	.00	.00	9963.00	10037.00	.00
*	25.523	1508.20	.21	1508.63	80.00	38.66	4806.13	55.21	80.00	9960.00	9963.00	10037.00	10040.00
*	25.534	1510.75	.00	1513.36	73.10	.00	4900.00	.00	.00	.00	9963.00	10037.00	.00
*	25.534	1510.76	.00	1513.36	73.10	.00	4900.00	.00	.00	.00	9963.00	10037.00	.00
*	25.551	1512.21	.00	1513.80	73.41	.00	4900.00	.00	.00	.00	9963.00	10037.00	.00
*	25.551	1512.21	.00	1513.80	73.41	.00	4900.00	.00	.00	.00	9963.00	10037.00	.00
	25.557	1512.08	.00	1514.01	80.27	.00	4900.00	.00	.00	.00	9954.00	10046.00	.00
	25.557	1512.07	.00	1514.01	80.25	.00	4900.00	.00	.00	.00	9954.00	10046.00	.00
	25.561	1514.36	.00	1514.55	117.68	.00	2900.00	.00	.00	.00	9948.00	10069.00	.00
	25.561	1514.32	-.04	1514.54	100.55	.00	2900.00	.00	101.00	9949.00	9948.00	10069.00	10050.00
*	25.680	1514.74	.00	1514.78	663.75	297.03	1319.35	1083.62	.00	.00	9927.00	10093.00	.00
*	25.680	1514.80	.06	1515.26	100.00	.00	2700.00	.00	100.00	9950.00	9927.00	10093.00	10050.00
*	25.786	1516.32	.00	1516.97	351.98	.00	1867.53	632.47	.00	.00	9978.00	10056.00	.00
*	25.786	1516.35	.03	1517.71	100.00	.00	2454.12	45.88	100.00	9982.00	9978.00	10056.00	10082.00
	25.947	1521.07	.00	1521.63	164.54	.00	1967.12	332.87	.00	.00	9950.00	10066.00	.00
*	25.947	1521.86	.79	1522.40	100.00	.00	2300.00	.00	100.00	9959.00	9950.00	10066.00	10059.00
	26.058	1523.49	.00	1523.98	182.03	620.82	1579.18	.00	.00	.00	9966.00	10024.00	.00
	26.058	1523.83	.34	1524.65	73.00	173.53	2026.47	.00	73.00	9950.00	9966.00	10024.00	10023.00
	26.152	1524.99	.00	1525.46	105.87	.00	2000.00	.00	.00	.00	9956.00	10069.00	.00
	26.152	1525.70	.70	1526.20	70.00	.00	2000.00	.00	70.00	9970.00	9956.00	10069.00	10040.00
*	26.265	1528.15	.00	1529.39	103.26	.00	1758.20	141.80	.00	.00	9955.00	10029.00	.00
*	26.265	1528.08	-.07	1529.38	86.66	.00	1760.69	139.31	87.00	9973.00	9955.00	10029.00	10060.00
*	26.372	1531.35	.00	1531.67	97.17	.00	1700.00	.00	.00	.00	9966.00	10080.00	.00
*	26.372	1531.37	.02	1531.69	96.95	.00	1700.00	.00	97.00	9967.00	9966.00	10080.00	10064.00
*	26.492	1532.15	.00	1532.22	183.14	.00	1600.00	.00	.00	.00	9866.00	10084.00	.00
*	26.492	1532.19	.04	1532.34	90.00	.00	1600.00	.00	90.00	9955.00	9866.00	10084.00	10045.00
*	26.582	1532.24	.00	1532.24	718.47	594.58	479.07	226.35	.00	.00	9869.00	10028.00	.00
	26.582	1532.43	.19	1532.52	80.00	.00	1300.00	.00	80.00	9945.00	9869.00	10028.00	10025.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	26.673	1533.98	.00	1534.51	239.18	.00	1094.68	205.32	.00	.00	9955.00	10077.00	.00
*	26.673	1534.94	.96	1536.17	60.00	.00	1300.00	.00	60.00	9970.00	9955.00	10077.00	10030.00
*	26.784	1546.18	.00	1547.20	68.01	.00	1100.00	.00	.00	.00	9975.00	10080.00	.00
*	26.784	1546.25	.07	1547.49	50.00	.00	1100.00	.00	50.00	9981.00	9975.00	10080.00	10031.00
*	26.883	1547.31	.00	1547.31	434.21	.94	936.36	62.70	.00	.00	9773.00	10122.00	.00
*	26.883	1547.92	.61	1548.02	50.00	.00	1000.00	.00	50.00	9975.00	9773.00	10122.00	10025.00

*	26.[illegible]	1547.31	.00	1547.32	371.10	1.28	764.04	134.68	.00	.00	9943.00	10170.00	.00
*	26.984	1548.07	.76	1548.24	50.00	.00	900.00	.00	50.00	9975.00	9943.00	10170.00	10025.00
*	27.060	1559.46	.00	1561.02	29.47	.00	900.00	.00	.00	.00	9980.00	10019.00	.00
*	27.060	1559.45	-.01	1561.02	29.41	.00	900.00	.00	129.40	9883.70	9980.00	10019.00	10013.10
*	27.166	1562.18	.00	1562.35	38.99	.00	600.00	.00	.00	.00	9977.00	10023.00	.00
*	27.166	1562.18	.00	1562.35	38.97	.00	600.00	.00	138.90	9881.10	9977.00	10023.00	10020.00
	27.294	1562.54	.00	1562.59	50.20	.00	400.00	.00	.00	.00	9967.00	10027.00	.00
	27.294	1562.54	.00	1562.59	50.19	.00	400.00	.00	50.20	9972.00	9967.00	10027.00	10022.20
	-19.560	1328.21	.00	1330.15	129.62	.00	14600.00	.00	.00	.00	9929.00	10065.00	.00
	-19.560	1328.21	.00	1330.15	129.62	.00	14600.00	.00	139.63	9921.37	9929.00	10065.00	10061.00
*	.029	1329.35	.00	1332.60	130.50	.00	9478.32	21.68	.00	.00	9942.00	10043.00	.00
*	.029	1329.43	.08	1332.59	130.54	.00	9473.71	26.29	130.54	9942.56	9942.00	10043.00	10073.10
*	.112	1332.94	.00	1333.44	330.25	100.06	9399.94	.00	.00	.00	9887.00	10101.00	.00
*	.112	1332.88	-.07	1333.42	187.00	.00	9500.00	.00	187.00	9905.00	9887.00	10101.00	10092.00
	.198	1333.31	.00	1333.94	249.57	13.92	9486.08	.00	.00	.00	9897.00	10133.00	.00
	.198	1333.26	-.05	1333.92	200.00	.00	9500.00	.00	200.00	9910.00	9897.00	10133.00	10110.00
*	.288	1333.31	.00	1335.83	150.75	.00	9500.00	.00	.00	.00	9885.00	10069.00	.00
*	.288	1333.30	-.01	1335.83	150.67	.00	9500.00	.00	151.00	9903.00	9885.00	10069.00	10054.00
*	.398	1337.27	.00	1338.35	181.83	.00	9500.00	.00	.00	.00	9904.00	10119.00	.00
*	.398	1337.27	.00	1338.35	181.53	.00	9500.00	.00	182.00	9912.00	9904.00	10119.00	10094.00
*	.482	1342.35	.00	1343.41	889.74	79.05	6887.36	2533.59	.00	.00	9937.00	10024.00	.00
*	.482	1341.93	-.43	1344.04	271.00	46.29	8417.40	1036.31	271.00	9904.00	9937.00	10024.00	10175.00
	.575	1343.82	.00	1344.53	730.21	727.34	7778.19	994.47	.00	.00	9869.00	10049.00	.00
	.575	1344.62	.80	1345.55	210.00	.00	9360.91	139.09	210.00	9870.00	9869.00	10049.00	10080.00
	.697	1345.06	.00	1346.10	237.20	.00	9013.49	386.51	.00	.00	9847.00	10023.00	.00
	.697	1345.85	.79	1346.82	160.00	.00	9211.68	188.32	160.00	9875.00	9847.00	10023.00	10035.00
*	.826	1348.29	.00	1350.53	199.85	729.25	8670.75	.00	.00	.00	9929.00	10050.00	.00
*	.826	1348.19	-.10	1350.60	160.00	632.65	8767.35	.00	160.00	9880.00	9929.00	10050.00	10040.00

1

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	.945	1352.12	.00	1352.63	561.70	1059.47	7814.26	526.27	.00	.00	9856.00	10034.00	.00
*	.945	1352.42	.31	1353.34	160.00	.00	9400.00	.00	160.00	9870.00	9856.00	10034.00	10030.00
	1.035	1352.93	.00	1353.65	460.77	1059.57	7955.86	384.58	.00	.00	9841.00	10022.00	.00
	1.035	1353.60	.66	1354.71	160.00	.00	9229.39	170.61	160.00	9870.00	9841.00	10022.00	10030.00
	1.121	1354.16	.00	1354.96	235.28	.00	9395.98	4.02	.00	.00	9868.00	10069.00	.00
	1.121	1355.17	1.01	1355.89	160.00	.00	9400.00	.00	160.00	9890.00	9868.00	10069.00	10050.00
*	1.204	1355.42	.00	1357.51	226.07	.00	8391.40	1008.60	.00	.00	9949.00	10043.00	.00
*	1.204	1355.74	.32	1357.82	160.00	.00	8621.78	778.22	160.00	9950.00	9949.00	10043.00	10110.00
*	1.315	1359.33	.00	1359.72	332.04	.00	6944.01	2155.99	.00	.00	9904.00	10074.00	.00
*	1.315	1359.79	.46	1360.51	155.00	.00	9100.00	.00	155.00	9905.00	9904.00	10074.00	10060.00
*	1.420	1359.99	.00	1362.07	189.95	.00	9100.00	.00	.00	.00	9895.00	10085.00	.00
*	1.420	1360.19	.19	1362.08	190.00	.00	9100.00	.00	190.00	9895.00	9895.00	10085.00	10085.00

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SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=     17.662  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     17.662  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     17.783  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     17.783  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.042  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.042  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.081  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.081  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.269  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     18.445  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     18.445  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     18.445  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     18.445  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     18.456  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.456  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.545  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.545  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.018  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.018  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     19.117  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.117  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.117  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.117  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.117  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.117  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     19.210  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.210  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     19.283  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.283  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.283  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.283  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.283  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.283  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     19.299  PROFILE=  1  HYDRAULIC JUMP D.S.
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WARNING SECNO=     19.299  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     19.299  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=     19.299  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.625  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.847  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=      19.960  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      19.960  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      19.974  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      19.974  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      20.049  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      20.049  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      20.049  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      20.049  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      20.049  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      20.049  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      20.144  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      20.144  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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CAUTION SECNO=      20.725  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      20.725  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      20.725  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      20.725  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      20.725  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      20.737  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      20.737  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      20.737  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      20.737  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      20.737  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      20.737  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      20.750  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=      20.750  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=      20.750  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=      20.750  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      20.819  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      20.819  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      20.841  PROFILE=  1  HYDRAULIC JUMP D.S.
CAUTION SECNO=      20.841  PROFILE=  2  HYDRAULIC JUMP D.S.

WARNING SECNO=      20.860  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=      20.860  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      20.942  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      21.036  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=      21.036  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      21.036  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.036  PROFILE=  2  MINIMUM SPECIFIC ENERGY

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WARNING SECNO=     21.363  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.484  PROFILE=  1  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=     21.484  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     21.484  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.484  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.484  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     21.576  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.576  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     21.576  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.669  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.669  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.669  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     21.669  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.669  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.669  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     21.742  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.742  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     21.742  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     21.840  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.895  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.895  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     21.933  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     21.933  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=     21.953  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.953  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.953  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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WARNING SECNO=     22.065  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     22.065  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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WARNING SECNO=     22.273  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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CAUTION SECNO=     22.410  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     22.483  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=     22.578  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=     22.675  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     22.794  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     22.880  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     23.097  PROFILE=  1  CRITICAL DEPTH ASSUMED
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WARNING SECNO=      23.168  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=      23.253  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=      23.253  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      23.334  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      23.555  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=      23.912  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=      23.989  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      23.989  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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WARNING SECNO=      24.322  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=      24.444  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      24.444  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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WARNING SECNO=      24.542  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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CAUTION SECNO=      24.838  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=      24.838  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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WARNING SECNO=      24.943  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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CAUTION SECNO=      25.048  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      25.048  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      25.048  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      25.048  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      25.048  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      25.163  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      25.163  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      25.374  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      25.374  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      25.374  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      25.374  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=     25.374  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.374  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     25.434  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.434  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.434  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     25.500  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     25.500  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
1
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WARNING SECNO=     25.523  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     25.523  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     25.534  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.534  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.534  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     25.534  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.534  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.534  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     25.551  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     25.551  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     25.551  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     25.551  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     25.680  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     25.680  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     25.786  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.786  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.786  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     25.786  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     25.947  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     26.265  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.265  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.265  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.265  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     26.372  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.372  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     26.492  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.492  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     26.582  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     26.673  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.673  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.673  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     26.673  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.673  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.673  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     26.784  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.784  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.784  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     26.784  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.784  PROFILE=  2  MINIMUM SPECIFIC ENERGY
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WARNING SECNO=     26.883  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.883  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     26.984  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.984  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     27.060  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     27.060  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     27.060  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     27.060  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     27.060  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     27.060  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     27.166  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     27.166  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=       .029  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .029  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .029  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=       .029  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .029  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .029  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=       .112  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=       .112  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=       .288  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .288  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .288  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .288  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=       .398  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=       .398  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=       .482  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .482  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .482  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=       .482  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .482  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .482  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=       .826  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .826  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .826  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=       .826  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=       .826  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=       .826  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=       .945  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=       .945  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
1
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CAUTION SECNO=      1.204  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.204  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=      1.204  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      1.315  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      1.315  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      1.420  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.420  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.420  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
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WARNING SECNO= 1.420 PROFILE= 2 CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

1

FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
17.588	338.	3195.	4.8	1284.7	1283.7	1.0
17.662	250.	1988.	7.7	1284.8	1283.8	1.0
17.783	143.	1271.	12.1	1286.4	1285.6	.8
17.932	110.	1047.	14.7	1291.4	1291.0	.4
18.042	97.	992.	15.5	1294.4	1294.3	.1
18.061	97.	1134.	13.6	1296.6	1296.4	.2
18.081	185.	2411.	6.4	1299.6	1299.5	.1
18.174	268.	3010.	5.1	1300.2	1300.2	.0
18.269	228.	2349.	6.6	1300.3	1300.2	.1
18.362	212.	2086.	7.4	1300.6	1300.5	.1
18.445	222.	1268.	12.1	1304.9	1305.4	-.5
18.456	225.	1990.	7.7	1308.5	1307.3	1.2
18.545	288.	3404.	4.5	1309.6	1308.3	1.3
18.575	290.	3436.	4.5	1309.6	1308.4	1.2
18.583	301.	3540.	4.3	1310.1	1309.5	.6
18.640	255.	2726.	5.6	1310.0	1309.4	.6
18.734	228.	2354.	6.5	1310.3	1309.7	.6
18.832	215.	2295.	6.7	1310.7	1310.2	.5
18.925	200.	2164.	7.1	1311.0	1310.6	.4
19.018	172.	1543.	10.0	1311.3	1310.9	.4
19.117	120.	1023.	15.1	1312.7	1312.5	.2
19.210	157.	1462.	10.5	1317.1	1317.2	-.1
19.283	109.	896.	16.3	1319.9	1319.9	.0
19.299	109.	1129.	12.9	1322.1	1322.1	.0
19.313	160.	1330.	11.0	1323.3	1323.3	.0
19.418	163.	1343.	10.9	1325.6	1325.6	.0
19.560	130.	1308.	11.2	1328.2	1328.2	.0
19.625	60.	741.	7.7	1330.0	1329.9	.1
19.691	60.	780.	7.3	1331.6	1331.5	.1
19.742	85.	969.	5.9	1332.0	1332.0	.0
19.847	86.	868.	6.6	1332.1	1332.1	.0
19.960	73.	441.	12.9	1332.5	1332.4	.1
19.974	51.	503.	11.3	1333.7	1333.3	.4
19.986	51.	608.	9.4	1335.8	1335.3	.5
20.049	50.	366.	15.6	1338.2	1338.4	-.2
20.144	57.	536.	10.6	1343.4	1343.5	-.1
20.242	71.	561.	10.2	1345.5	1345.5	.0
20.335	73.	640.	8.9	1347.5	1347.4	.1
20.347	51.	521.	10.9	1347.4	1347.2	.2
20.366	51.	560.	10.2	1348.2	1348.0	.2
20.423	114.	796.	7.2	1349.7	1349.6	.1
20.430	51.	509.	11.2	1349.2	1349.1	.1

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FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
20.444	51.	547.	10.4	1350.0	1349.9	.1
20.529	139.	841.	6.8	1352.3	1352.3	.0
20.628	130.	1059.	5.4	1353.3	1353.3	.0
20.725	64.	398.	14.3	1355.9	1356.0	-.1
20.737	51.	372.	15.3	1358.2	1358.2	.0
20.750	51.	490.	11.6	1360.6	1360.6	.0
20.819	78.	458.	12.5	1362.4	1362.4	.0
20.841	78.	545.	10.5	1364.4	1364.4	.0
20.860	156.	852.	6.7	1366.0	1366.0	.0
20.942	250.	850.	6.7	1367.2	1367.3	-.1
21.036	250.	608.	9.4	1371.4	1371.9	-.5
21.127	160.	565.	10.1	1374.6	1374.7	-.1
21.230	225.	653.	8.7	1380.4	1380.4	.0
21.363	166.	986.	5.8	1383.6	1383.4	.2
21.484	225.	647.	8.8	1387.1	1386.5	.6
21.576	225.	815.	7.0	1390.1	1389.2	.9
21.669	225.	686.	8.0	1393.9	1393.4	.5
21.742	200.	832.	6.6	1396.2	1395.2	1.0
21.840	200.	686.	8.0	1397.9	1398.0	-.1
21.895	245.	702.	7.8	1399.7	1399.7	.0
21.933	420.	1566.	3.5	1401.5	1400.9	.6
21.953	421.	812.	6.8	1401.2	1401.1	.1
22.065	410.	1165.	4.7	1404.5	1404.1	.4
22.165	400.	1253.	4.4	1406.0	1405.2	.8
22.273	377.	879.	6.3	1407.6	1406.7	.9
22.410	180.	560.	9.8	1414.1	1414.2	-.1
22.483	160.	1293.	4.3	1416.8	1416.5	.3
22.578	96.	773.	7.1	1417.2	1416.3	.9
22.675	198.	1407.	3.9	1418.7	1418.0	.7
22.794	183.	1176.	4.7	1419.5	1418.6	.9
22.880	169.	776.	7.1	1420.5	1420.0	.5
22.990	136.	643.	8.6	1424.6	1423.6	1.0
23.097	132.	561.	9.8	1430.6	1429.9	.7
23.168	310.	1322.	4.2	1433.7	1433.1	.6
23.253	45.	250.	13.6	1434.5	1434.5	.0
23.334	67.	355.	9.6	1440.4	1440.4	.0
23.416	59.	318.	10.7	1443.8	1443.8	.0
23.514	57.	365.	9.3	1448.1	1448.1	.0
23.544	55.	310.	11.0	1448.9	1448.9	.0
23.555	63.	494.	6.9	1452.6	1452.6	.0
23.591	75.	478.	7.1	1453.1	1453.1	.0
23.691	65.	368.	9.2	1455.2	1455.2	.0

1

FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
23.815	86.	521.	8.4	1459.0	1459.0	.0
23.912	76.	619.	8.6	1461.0	1461.0	.0
23.989	99.	835.	6.3	1462.6	1462.6	.0
24.086	72.	708.	7.5	1463.4	1463.4	.0
24.096	72.	800.	6.6	1464.7	1464.7	.0
24.106	100.	922.	5.7	1465.0	1465.2	-.2

24.195	100.	1135.	4.7	1465.7	1465.7	.0
24.322	140.	1776.	3.0	1466.2	1465.9	.3
24.444	153.	1144.	4.6	1466.4	1466.0	.4
24.542	210.	647.	8.2	1467.3	1466.3	1.0
24.635	120.	494.	10.7	1472.0	1472.0	.0
24.738	264.	935.	5.6	1477.8	1476.9	.9
24.838	382.	787.	6.6	1481.0	1480.3	.7
24.943	440.	1411.	3.7	1484.3	1483.4	.9
25.048	400.	676.	7.7	1487.7	1487.3	.4
25.163	235.	927.	5.3	1493.1	1492.2	.9
25.262	273.	1082.	4.5	1495.0	1494.0	1.0
25.374	98.	427.	11.5	1500.2	1499.4	.8
25.434	66.	368.	13.3	1504.2	1504.0	.2
25.500	80.	698.	7.0	1507.6	1507.7	-.1
25.523	80.	962.	5.1	1508.2	1508.0	.2
25.534	73.	378.	12.9	1510.8	1510.8	.0
25.551	73.	485.	10.1	1512.2	1512.2	.0
25.557	80.	439.	11.2	1512.1	1512.1	.0
25.561	101.	760.	3.8	1514.4	1514.4	.0
25.680	100.	500.	5.4	1514.8	1514.7	.1
25.786	100.	276.	9.1	1516.3	1516.3	.0
25.947	100.	388.	5.9	1521.9	1521.1	.8
26.058	73.	309.	7.1	1523.8	1523.5	.3
26.152	70.	352.	5.7	1525.7	1525.0	.7
26.265	87.	219.	8.7	1528.0	1528.1	-.1
26.372	97.	374.	4.5	1531.3	1531.3	.0
26.492	90.	511.	3.1	1532.1	1532.1	.0
26.582	80.	544.	2.4	1532.4	1532.2	.2
26.673	60.	146.	8.9	1535.0	1534.0	1.0
26.784	50.	123.	8.9	1546.3	1546.2	.1
26.883	50.	391.	2.6	1547.9	1547.3	.6
26.984	50.	273.	3.3	1548.1	1547.3	.8
27.060	29.	90.	10.0	1559.5	1559.5	.0
27.166	39.	182.	3.3	1562.2	1562.2	.0
27.294	50.	233.	1.7	1562.5	1562.5	.0
-19.560	130.	1308.	11.2	1328.2	1328.2	.0

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FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.029	131.	683.	13.9	1329.5	1329.4	.1
.112	187.	1603.	5.9	1332.8	1332.9	-.1
.198	200.	1459.	6.5	1333.3	1333.3	.0
.288	151.	745.	12.8	1333.3	1333.3	.0
.398	182.	1139.	8.3	1337.3	1337.3	.0
.482	271.	947.	10.0	1342.0	1342.4	-.4
.575	210.	1250.	7.6	1344.6	1343.8	.8
.697	160.	1205.	7.8	1345.9	1345.1	.8
.826	160.	786.	12.0	1348.2	1348.3	-.1
.945	160.	1219.	7.7	1352.4	1352.1	.3
1.035	160.	1117.	8.4	1353.6	1352.9	.7
1.121	160.	1386.	6.8	1355.2	1354.2	1.0
1.204	160.	867.	10.8	1355.7	1355.4	.3
1.315	155.	1341.	6.8	1359.8	1359.3	.5
1.420	190.	825.	11.0	1360.2	1360.0	.2

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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA CO. 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          NATURAL 100-YR  J. MISCHLER
*
*       CAVE BUTTE DAM CONTROLS DISCHARGES UP TO THE 100 YEAR FLOOD.
        ABOVE THE 100 YEAR FLOOD, THE EMERGENCY SPILLWAY WILL PASS FLOWS.
*       AS THE EFFORT TO COMPUTE 500 YEAR HYDROLOGY (WHICH WOULD REQUIRE
*       ANALYSIS OF THE ENTIRE WATERSHED ABOVE THE DAM) IS NOT JUSTIFIED
*       BY THE VALUE OF 500 YEAR FLOODPLAIN INFORMATION, THE FLOOD CONTROL
*       DISTRICT HAS BEEN GRANTED PERMISSION BY FEMA TO DELETE THE 500 YEAR
*       FLOOD FROM THE RESTUDY OF CAVE CREEK WASH.  ONLY THE WATERSHED BELOW
*       THE DAM HAS BEEN CONSIDERED FOR HYDROLOGIC COMPUTATIONS OF THE 10, 50,
*       AND 100 YEAR FLOODS.
*
*
*
*       FLOODWAY RUN FROM SEDIMENT BASIN TO CAVE BUTTE DAM.
*
*       FOR SECTIONS 15.310 TO 16.971, REFER TO A SEPARATE SUPERCRITICAL
*       RUN FOR THE CORPS OF ENGINEERS' CONCRETE LINED CHANNEL. (NATURAL PROF)
*
*       FLOW IS WITHIN THE CORPS OF ENGINEER'S CHANNEL, SEDIMENT BASIN, OR
*       BROAD CRESTED WEIR INLET FROM RM15.015 TO 17.492, THEREFORE NO FLOODWAY
*       IS RUN FOR THIS REACH.
*
*
*
*       FILE LAST MODIFIED 1/26/90
*
*       MODIFIED 4/1/2006 BY ASPEN CONSULTING ENGINEERS.
*       4/1/2006 MODIFICATION CONSISTS OF ENCROACHMENT STATIONS AT PROPOSED
*       CITY OF PHOENIX FILL AT CROSS SECTIONS 22.410, 22.483, AND 22.578
J1            2.                                                  1283.69
J2     1.            -1.                                                      15.
J3    38.     42.     1.     53.     54.      4.      8.     43.     10.     51.
J3    46.     40.    41.            110.            200.
QT     2.  15400.  15400.
NC  0.04    0.04    0.04     0.1     0.3
*
*       BEGIN ENCROACHMENTS UPSTREAM OF THE SEDIMENT BASIN
*
ET                 10.41
X117.588     25.   9982.  10193.    440.    560.    496.
GR1291.4   9666.  1290.3   9746.  1275.6   9817.  1275.2   9835.  1273.5   9854.
GR1277.8   9873.  1279.7   9889.  1277.3   9896.  1278.2   9909.  1281.6   9922.
GR1281.9   9939.  1282.2   9964.  1278.1   9982.  1269.6   9992.  1270.6  10000.
GR1270.9  10009.  1272.6  10014.  1273.6  10039.  1273.6  10079.  1271.2  10144.
GR1271.2  10170.  1276.4  10193.  1290.5  10264.  1291.3  10328.   1291.  10495.
ET                   4.1   9900.  10150.
X117.662     23.   9941.  10130.    380.    400.    391.
GR1293.1   9731.  1293.1   9781.  1291.6   9791.  1282.7   9835.  1278.1   9844.
GR1279.2   9871.  1277.3   9911.  1276.4   9941.  1272.5   9986.  1271.6  10000.
GR1274.6  10016.  1277.5  10033.  1278.8  10063.  1278.9  10086.  1276.8  10099.
GR1275.7  10111.  1281.6  10130.  1285.2  10161.  1293.1  10208.   1294.  10221.
GR1293.7  10281.   1294.  10400.  1294.5  10432.
ET                 10.41
X117.783     18.   9921.  10064.    540.    500.    639.
GR1295.2   9812.   1294.   9837.  1291.3   9861.  1286.9   9895.  1280.5   9921.
GR1276.8   9938.  1278.3   9954.  1277.6   9973.  1275.4  10000.  1276.3  10019.
GR1277.4  10033.  1277.7  10045.  1281.1  10064.  1281.3  10074.  1284.6  10097.
GR1289.8  10122.  1291.5  10143.  1291.9  10153.
X117.932     23.   9956.  10066.    790.    780.    787.
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GR1294.8   9675.  1294.7   9732.  1295.5   9750.  1293.6   9766.  1297.5   9792.
GR1297.5   9837.  1298.3   9869.  1291.9   9896.  1289.7   9956.  1283.6   9966.
GR1283.5   9971.  1277.9   9986.  1278.2  10000.  1278.2  10006.  1279.5  10008.
GR1279.9  10022.  1280.2  10032.  1285.5  10054.  1290.2  10066.  1290.6  10083.
GR1298.5  10131.  1299.7  10159.  1299.7  10193.
*
*       THUNDERBIRD ROAD BRIDGE - ALTHOUGH THE ROAD IS LOWEST IN THE RIGHT
*       OVERBANK, HIGH BANKS UPSTREAM PREVENT THIS AREA FROM BECOMING EFFECTIVE,
*       THEREFORE, ONLY THE BRIDGE OPENING IS CONSIDERED ON THE GR CARDS AND
*       ONLY THE BRIDGE LENGTH IS CONSIDERED FOR THE BT CARDS.  ENDS OF THE
*       SECTIONS ARE ARTIFICIALLY EXTENDED.  BT'S ARE RAISED 0.5' FROM CENTER-
*       LINE OF ROAD ELEVATIONS AT THE BRIDGE. TO ACCOUNT FOR THE RAILING.
*
*                    4.1   9951.  10049.
NC 0.035   0.035   0.025     0.3     0.5
X118.042      8.   9951.  10049.    620.    550.    581.             2.4
GR 1305.   9951.  1283.4   9952.  1282.9   9979.  1279.9   9980.  1279.9  10020.
GR1281.9  10021.  1284.2  10048.   1305.  10049.
SB  1.05    1.56      3.             75.      4.   1059.    0.81  1280.2  1279.9
NC  0.03    0.03   0.025
*                   4.11   9951.  10049.
X118.061                          101.    101.    101.             0.8
*
*       ELTRD IS 1298.4+3.2HV =  1301.6
*
X2                     1.  1293.2  1301.6
BT    4.   9951.   1305.      0.   9952.  1298.4      0.  10048.  1298.4      0.
BT10049.   1305.      0.
NC 0.035   0.035   0.035
ET                   4.1   9900.  10085.
X118.081     11.   9942.  10045.     80.    130.    106.
GR1300.5   9819.  1300.2   9866.  1298.2   9899.  1286.6   9942.  1282.7   9960.
GR1281.4  10000.  1281.1  10008.  1282.7  10030.  1284.9  10045.  1297.3  10088.
GR1300.2  10112.
NC                     0.1     0.3
ET                   4.1   9857.  10125.
X118.174     29.   9919.  10073.    500.    490.    491.
GR1303.6   9673.  1304.6   9713.  1307.3   9757.  1302.5   9801.   1302.   9850.
GR 1288.   9904.  1287.3   9915.  1288.7   9919.   1284.   9927.  1283.5   9956.
GR1282.6   9975.  1283.5   9985.  1281.8   9992.  1281.7  10000.   1282.  10006.
GR1282.3  10011.  1282.7  10020.  1294.6  10073.   1297.  10093.  1296.2  10113.
GR1293.7  10142.  1293.7  10182.  1296.8  10236.  1299.3  10270.  1298.9  10295.
GR 1298.  10340.  1299.8  10364.   1298.  10396.  1301.1  10478.
ET                   4.1  9882.2  10110.
X118.269     12.   9942.  10060.    500.    500.    502.
GR1303.8   9868.  1288.1   9928.  1288.4   9942.  1285.3   9952.  1283.8   9979.
GR1283.8  10000.  1283.8  10010.  1285.6  10023.  1292.4  10060.   1294.  10071.
GR1303.2  10130.  1303.7  10144.
ET                   4.1  9895.6 10107.8
X118.362     20.   9942.  10060.    490.    510.    491.
GR1315.5   9728.  1315.4   9758.  1315.8   9780.  1310.6   9807.  1307.1   9862.
GR1298.6   9905.   1290.   9942.  1287.8   9952.   1288.   9967.  1286.1   9971.
GR1285.3  10000.  1286.8  10022.  1286.8  10036.  1290.6  10060.  1303.8  10124.
GR1307.7  10151.  1307.5  10169.  1306.8  10183.  1308.1  10240.  1308.8  10283.
*
*       DOWNSTREAM GOLF CART CROSSING ON A SINGLE 78" CMP WITH PROTRUDING
*       ENDS AND EMBANKMENT SLOPES  (NO WINGWALLS).
*
ET                   4.1   9885.  10110.
X118.445     13.   9992.  10005.    470.    460.    440.
X3   10.                                                  1297.   1297.
GR1315.1   9796.  1306.2   9880.   1300.   9920.  1299.5   9978.   1290.   9992.
GR1287.3  10000.   1290.  10005.   1300.  10040.   1302.  10060.   1303.  10097.
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GR 1305.  10200.  1305.6  10310.  1309.4  10330.
SB   0.9    2.34     3.0      0.    6.11     1.0    33.2      0.  1287.7  1287.4
ET                  4.11   9885.  10110.
X118.456                             60.     60.     60.             0.4
*
*       ELTRD IS 1198.8+0.7HV = 1199.5
*
X2                    1.  1294.2  1299.5
X3   10.                                                   1298.8  1298.8
BT   10.   9796.  1315.5      0.   9880.  1306.6      0.   9928.  1301.9      0.
BT 9991.  1299.1      0.  10000.  1298.8      0.  10046.  1301.9      0.  10097.
BT1303.4      0.  10200.  1305.4      0.  10310.   1306.      0.  10330.  1309.8
BT    0.
ET                  4.1  9881.4 10169.8
X118.545     21.   9951.  10058.    440.    480.    466.
GR1324.2   9716.  1323.1   9748.  1324.4   9765.  1321.9   9790.  1318.3   9810.
GR 1317.   9839.  1306.7   9889.  1294.1   9951.  1291.5   9972.  1289.3   9993.
GR1289.7  10000.  1289.7  10018.  1290.5  10040.  1293.8  10058.  1298.8  10073.
GR1299.8  10094.  1303.4  10108.  1303.9  10121.   1303.  10135.  1310.1  10182.
GR1310.2  10194.
*
*       UPSTREAM GOLF CART CROSSING ON 2 - 72" RCP WITH FLUSH INLETS AND
*       45 DEGREE WINGWALLS.
*
ET                  4.1  9880.7 10170.8
X118.575     21.   9972.  10000.    160.    160.    160.
X3   10.                                                   1297.   1297.
GR1324.2   9716.  1323.1   9748.  1324.4   9765.  1321.9   9790.  1318.3   9810.
GR 1317.   9839.  1306.7   9889.  1294.1   9951.  1291.5   9972.  1289.3   9993.
GR1289.7  10000.  1289.7  10018.  1290.5  10040.  1293.8  10058.  1298.8  10073.
GR1299.8  10094.  1303.4  10108.  1303.9  10121.   1303.  10135.  1310.1  10182.
GR1310.2  10194.
   1.25    1.56     3.0      0.    10.4     1.0    56.5      0.  1289.4  1289.3
ET                 4.11  9876.1 10177.2
X118.583                             40.     40.     40.             0.1
*
*       ELTRD IS 1298.4+0.6HV = 1299.0
*
X2                    1.  1295.4   1299.
X3   10.                                                   1298.4  1298.4
BT    9.   9880.   1310.      0.   9965.   1300.      0.  10000.  1298.4      0.
BT10037.   1300.      0.  10065.   1302.      0.  10085.   1304.      0.  10122.
BT 1306.      0.  10160.   1308.      0.  10170.   1310.      0.
ET                  4.1  9879.6 10134.7
X118.640     17.   9955.  10033.    300.    310.    301.
GR1322.5   9707.  1323.7   9729.  1320.1   9768.  1313.8   9827.  1312.3   9858.
GR1308.4   9887.  1302.6   9920.  1294.6   9955.  1292.8   9966.  1290.2   9993.
GR1291.5  10000.  1291.8  10009.  1293.4  10033.  1307.8  10111.   1309.  10132.
GR1312.1  10153.  1313.2  10167.
ET                  4.1  9883.2 10111.7
X118.734     19.   9938.  10062.    490.    500.    496.
GR1320.7   9713.  1316.3   9762.  1316.6   9809.  1319.2   9819.  1317.9   9841.
GR1308.7   9888.  1298.6   9938.  1293.4   9971.  1294.2   9981.  1292.4   9992.
GR1294.5  10000.  1294.4  10025.  1300.8  10062.   1309.  10094.  1307.6  10104.
GR1312.9  10124.   1314.  10143.  1317.1  10178.  1319.9  10201.
ET                  4.1  9891.8  10107.
X118.832     21.   9929.  10046.    480.    540.    517.
GR1326.2   9779.   1328.   9788.  1320.6   9826.   1316.   9853.  1312.5   9880.
GR1302.8   9929.  1296.1   9960.  1293.5   9982.  1293.2  10000.  1293.2  10005.
GR1294.8  10008.  1295.5  10027.  1297.1  10046.  1307.7  10095.  1314.1  10128.
GR1314.1  10141.  1317.1  10187.  1320.3  10221.  1319.9  10247.  1318.6  10271.
GR1319.2  10278.
ET                  4.1  9887.7 10087.5
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X118.925      14.   9941.  10048.    480.    500.    491.
GR1329.1    9741.  1315.9   9866.  1297.6   9941.  1297.3   9960.  1295.3   9989.
GR 1295.   10000.  1296.1  10006.  1295.4  10022.  1294.6  10025.  1296.3  10034.
GR 1300.   10048.  1310.5  10087.  1320.1  10132.  1321.3  10161.
ET                   4.1  9866.3 10038.5
X119.018      20.   9903.  10030.    460.    520.    491.
GR 1331.    9681.  1321.2   9775.  1313.9   9847.  1305.1   9903.  1298.1   9930.
GR 1298.    9948.  1298.1   9957.  1297.6   9974.   1299.  10000.  1308.4  10030.
GR1325.3   10088.   1327.  10101.  1325.5  10109.  1330.2  10118.  1330.9  10124.
GR 1327.   10145.  1326.8  10211.  1328.8  10218.  1332.6  10260.  1331.8  10268.
ET                   4.1  9942.1 10061.9
X119.117      10.   9973.  10026.    490.    560.    523.
GR1333.9    9803.  1331.8   9872.   1323.   9908.  1302.9   9973.  1299.2   9997.
GR1298.7   10000.  1298.6  10010.  1301.5  10026.  1328.9  10116.   1333.  10144.
ET                   4.1  9923.1  10081.
X119.210      16.   9945.  10060.    500.    490.    491.
GR1333.2    9669.  1330.6   9853.  1328.7   9874.   1312.   9945.   1310.   9954.
GR1303.8    9978.  1301.4   9991.  1300.2  10000.  1301.3  10010.  1303.4  10026.
GR 1312.   10060.  1321.3  10098.   1327.  10127.  1332.5  10166.  1335.3  10191.
GR1335.6   10192.
*
*       19TH AVENUE  (SPECIAL BRIDGE)
*
NC                            0.3     0.5
QT    2.   14600.  14600.
X119.283      12.   9948.  10057.    390.    390.    386.            11.2
X3   10.                                                        1324.   1324.
GR1333.2    9669.  1330.6   9853.  1328.7   9874.   1312.   9945.  1300.5   9948.
GR1300.5   10057.   1312.  10060.  1321.3  10098.   1327.  10127.  1332.5  10166.
GR1335.3   10191.  1335.6  10192.
SB   0.9    1.56      3.            109.     4.5   1304.      0.  1311.7  1311.7
X119.299                             86.     86.     86.
*
*       ELTRD IS 1324.5+2HV = 1326.5
*
X2                    1.  1324.2  1326.5
X3   10.                                                        1325.   1325.
BT    6.    9500.   1326.      0.   9650.  1324.5      0.   9855.  1325.3      0.
BT10000.   1325.7      0.  10275.  1324.9      0.  10460.   1326.      0.
ET                 10.41
X119.313      20.   9932.  10112.     75.     75.     74.
GR 1329.    9853.  1326.7   9859.  1327.6   9866.  1327.9   9932.  1314.5   9968.
GR1312.2    9980.  1311.7   9988.  1313.1   9996.  1313.1  10000.  1313.4  10017.
GR 1312.   10029.  1313.7  10044.  1311.7  10054.  1313.7  10069.  1325.5  10112.
GR1325.4   10137.  1324.3  10180.  1324.9  10219.  1325.2  10325.  1326.6  10464.
NC                      0.1     0.3
X119.418      19.   9948.  10120.    570.    530.    554.
GR1330.8    9898.  1328.8   9902.  1330.6   9910.  1330.2   9938.   1328.   9948.
GR1313.1    9992.  1313.1  10000.   1313.  10004.  1316.1  10022.  1314.6  10058.
GR1315.5   10076.  1320.1  10094.  1326.1  10120.  1327.6  10138.  1327.5  10186.
GR1326.2   10276.   1327.  10322.  1328.3  10376.  1328.6  10401.
*
*       SECTION 19.56  IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST
*       FORK.  THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE
*       EAST FORK OF CAVE CREEK.  THE CONFLUENCE OCCURS AT RM 19.608
*
X1 19.56      17.   9929.  10065.    730.    720.    729.
GR1346.1    9801.  1329.7   9902.  1329.7   9929.  1316.5   9950.  1316.8   9978.
GR1315.6   10000.  1315.6  10008.  1316.6  10026.  1316.4  10035.  1317.5  10043.
GR1330.6   10065.  1330.8  10099.  1330.5  10146.  1330.2  10195.  1330.9  10208.
GR1331.2   10223.  1332.1  10301.
*
*       GREENWAY BRIDGE  (SPECIAL BRIDGE).  LARGE SKEW ACCOUNTED FOR PRIOR
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*       TO DATA INPUT BY ADJUSTING BWC ETC.  DUE TO COMPLEX CHANNEL GEOMETRY
*       DOWNSTREAM AT THE CONFLUENCE WITH THE EAST FORK, IT WAS MOST APPROPRIATE
*       TO USE THE UPSTREAM SECTION, REPEATED AT THE DOWNSTREAM FACE.  GR CARDS
*       FROM SECTION 19.742 ARE REPEATED FOR 19.625 WITH PSXECE = -1.7
*
     2.   5700.   5700.
NC 0.035   0.035   0.015     0.3     0.5
X119.625     11.   9965.  10025.    580.     70.    364.            -1.7
X3   10.                                                     1332.   1332.
GR1335.7   9834.  1335.1   9893.  1333.4   9922.  1331.8   9937.  1331.6   9948.
GR1319.3   9965.  1319.3  10025.   1331.  10042.  1339.2  10055.  1337.7  10060.
GR1338.8  10100.
SB  1.05    1.56      3.    100.     60.      2.    564.      0.  1318.6  1317.6
X119.691                            330.    430.    350.             1.0
*
*       ELTRD IS 1332.8+2HV = 1334.8
*
X2                    1.  1328.3  1334.8
X3   10.                                                     1333.   1333.
ET                   4.1   9953.  10038.
X119.742     13.   9948.  10042.     80.    470.    269.
GR1335.7   9834.  1335.1   9893.  1333.4   9922.  1331.8   9937.  1331.6   9948.
GR1319.1   9967.  1319.2  10000.  1319.7  10017.  1319.7  10027.   1331.  10042.
GR1339.2  10055.  1337.7  10060.  1338.8  10100.
NC 0.035   0.035   0.035     0.1     0.3
ET                   4.1   9957.  10043.
X119.847     22.   9929.  10062.    570.    520.    554.
GR1339.8   9621.  1338.7   9726.  1341.6   9738.  1338.8   9759.   1339.   9806.
GR1337.7   9915.  1336.1   9921.  1336.3   9929.  1320.2   9974.  1318.8   9989.
GR1320.8  10000.  1320.5  10017.  1321.3  10023.  1328.8  10040.  1335.8  10062.
GR1336.1  10070.  1336.6  10084.  1335.8  10150.   1336.  10160.  1338.3  10175.
GR1339.2  10195.  1339.2  10198.
                     4.1   9958.  10031.
X119.960     24.   9958.  10031.    640.    560.    597.
GR1340.4   9544.  1339.1   9638.  1336.7   9736.  1337.2   9768.  1338.2   9807.
GR1338.9   9836.  1338.4   9908.  1340.1   9911.  1337.7   9917.  1339.1   9924.
GR1337.2   9935.   1330.   9958.  1327.8   9964.  1326.1   9977.  1324.6   9990.
GR1324.7  10000.  1326.1  10008.  1326.8  10023.   1330.  10031.  1340.6  10059.
GR1340.8  10072.  1340.7  10099.  1340.1  10194.  1339.9  10251.
*
*       TIERRA BUENA  (SPECIAL BRIDGE)
*
*
*       DUE TO HIGHER DEPTHS THAN ANTICIPATED, XNCH HAS BEEN REDUCED
*       FROM 0.04 (PER MANNINGS n VALUE REPORT) TO 0.035 BETWEEN GREENWAY ROAD
*       AND UNION HILLS DRIVE
*
NC  0.04    0.04   0.035     0.3     0.5
ET                   4.1   9969.  10020.
X119.974     10.   9969.  10020.    105.     65.     74.
X3   10.                                                     1336.   1336.
GR1340.1   9911.  1337.7   9917.  1339.1   9924.  1337.2   9935.   1330.   9958.
GR1323.8   9969.  1323.8  10020.   1330.  10031.  1340.6  10059.  1340.8  10072.
SB  1.25    1.56      3.            51.      3.    480.      0.  1324.1  1323.8
ET                  4.11   9969.  10020.
X119.986                             61.     61.     61.
*
*       ELTRD IS 1336.9+1HV = 1337.9
*
                     1.  1334.1  1337.9
X3   10.                                                     1337.   1337.
BT    3.   9560.   1340.      0.  10000.  1336.9      0.  10230.   1340.      0.
ET                   4.1   9975.  10025.
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X120.049     37.   9954.  10027.    305.    345.    333.
X3   10.                                             1340.
GR1344.7   9266.  1345.2   9300.  1342.4   9304.  1340.8   9328.  1332.6   9344.
GR1333.1   9400.  1333.3   9490.   1334.   9563.  1334.8   9606.  1333.2   9728.
GR 1335.   9767.  1331.4   9805.   1331.   9820.  1331.5   9854.  1331.5   9901.
GR1332.1   9920.  1341.1   9938.  1340.5   9950.  1343.4   9954.  1339.8   9969.
GR1327.4   9991.  1327.1   9997.  1327.1  10000.  1328.4  10008.  1339.4  10027.
GR 1340.  10047.  1342.3  10075.  1342.4  10097.  1340.2  10114.  1342.3  10131.
GR 1343.  10142.  1341.5  10162.  1342.7  10175.  1342.9  10210.  1343.3  10307.
GR1342.5  10378.   1343.  10477.
NC                          0.1     0.3
ET                   4.1   9972.  10029.
X120.144     38.   9955.  10025.    490.    500.    502.
X3   10.                                             1344.
GR1346.6   9136.  1347.4   9206.  1348.2   9208.  1348.4   9215.  1347.1   9235.
GR1342.5   9239.  1341.7   9258.  1334.6   9278.   1332.   9297.  1332.6   9357.
GR1333.7   9417.  1333.1   9457.  1334.1   9479.  1334.9   9499.  1335.3   9554.
GR1334.4   9582.  1335.7   9631.  1335.6   9698.  1336.1   9745.  1334.6   9779.
GR1329.6   9788.  1330.5   9820.  1329.4   9847.  1328.5   9881.  1328.5   9912.
GR1341.6   9931.  1343.1   9951.  1344.6   9955.   1342.   9968.  1330.9   9986.
GR1330.9  10000.  1330.9  10010.  1340.8  10025.  1342.2  10040.  1345.9  10053.
GR1346.5  10073.   1347.  10128.   1347.  10198.
ET                   4.1   9964.  10035.
X120.242     32.   9953.  10029.    470.    560.    517.
X3   10.                                             1348.
GR1346.6   9200.  1347.9   9269.  1348.7   9271.  1348.7   9277.  1346.6   9330.
GR1347.7   9377.  1342.3   9383.  1342.7   9400.  1332.4   9422.  1333.6   9470.
GR1333.7   9529.  1334.9   9573.  1334.2   9626.  1334.9   9648.  1335.1   9651.
GR 1336.   9785.   1336.   9842.  1338.6   9846.  1339.3   9895.  1339.2   9935.
GR1347.2   9953.  1343.7   9970.  1333.3   9988.  1333.7  10000.  1333.5  10012.
GR1342.8  10029.  1343.2  10041.  1348.3  10061.  1349.2  10076.  1349.9  10107.
GR1350.1  10201.  1350.3  10202.
ET                   4.1   9963.  10036.
X120.335     27.   9958.  10032.    510.    470.    491.
GR1349.5   9230.  1351.4   9312.  1349.1   9322.  1350.7   9340.   1351.   9476.
GR1351.2   9592.  1350.4   9726.  1350.1   9808.  1351.1   9820.  1351.4   9850.
GR1351.8   9928.  1347.7   9950.   1344.   9958.  1337.7   9971.  1337.3   9987.
GR1337.4  10000.  1338.3  10021.   1344.  10032.   1349.  10042.  1351.8  10056.
GR1351.1  10100.  1351.6  10141.   1350.  10144.   1350.  10166.   1350.  10240.
GR1350.8  10328.  1351.4  10406.
*
*       11TH AVENUE  (SPECIAL BRIDGE)
*
NC                          0.3     0.5
X120.347     25.   9970.  10021.      1.    150.     63.
X3   10.                                             1351.5  1351.5
GR1349.5   9230.  1351.4   9312.  1349.1   9322.  1350.7   9340.   1351.   9476.
GR1351.2   9592.  1350.4   9726.  1350.1   9808.  1351.1   9820.  1351.4   9850.
GR1351.8   9928.  1347.7   9950.   1344.   9958.  1337.2   9970.  1337.2  10021.
GR 1344.  10032.   1349.  10042.  1351.8  10056.  1351.1  10100.  1351.6  10141.
GR 1350.  10144.   1350.  10166.   1350.  10240.  1350.8  10328.  1351.4  10406.
SB  1.25    1.56     3.0    100.     51.      3.    576.      0.  1337.7  1337.2
X120.366                           100.    100.    100.
*
*       ELTRD IS 1352.5+2HV = 1354.5
*
X2                   1.  1349.7  1354.5
X3   10.                                             1352.5  1352.5
ET                   4.1   9958.  10072.
X120.423     21.   9975.  10045.    415.    205.    301.
GR1354.3   9418.  1353.8   9613.  1355.3   9653.  1354.6   9696.  1353.3   9711.
GR1353.6   9724.  1353.5   9931.   1352.   9950.   1345.   9975.   1338.  10000.
GR1339.4  10027.  1339.7  10037.  1344.3  10045.   1345.  10055.  1353.3  10085.
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GR1353.5  10100.  1354.7  10127.  1354.4  10214.  1354.3  10273.  1353.3  10300.
GR1353.5  10333.
*
*       10TH AVENUE  (SPECIAL BRIDGE)
*
X120.430     20.   9985.  10036.      1.     65.     37.
X3   10.                                                  1352.5  1352.5
GR1354.3   9418.  1353.8   9613.  1355.3   9653.  1354.6   9696.  1353.3   9711.
GR1353.6   9724.  1353.5   9931.   1352.   9950.   1345.   9975.  1339.3   9985.
GR1339.3  10036.  1344.3  10045.   1345.  10055.  1353.3  10085.  1353.5  10100.
GR1354.7  10127.  1354.4  10214.  1354.3  10273.  1353.3  10300.  1353.5  10333.
SB  1.25    1.56     3.0    100.     51.      3.    576.      0.  1339.3  1339.3
X120.444                            70.     70.     70.
*
*       ELTRD IS 1353.5+2HV = 1355.5
*
X2                    1.  1351.3  1355.5
X3   10.                                                  1353.5  1353.5
ET                   4.1   9930.  10069.
X120.529     19.   9947.  10055.    545.    375.    449.
GR 1354.   9570.  1353.7   9764.  1354.8   9836.   1355.   9885.  1354.7   9898.
GR1350.7   9910.  1350.2   9947.  1343.4   9963.  1343.4   9990.  1343.3  10000.
GR 1343.  10025.  1348.6  10041.  1350.4  10055.  1350.8  10090.   1355.  10105.
GR1354.4  10159.   1355.  10192.   1355.  10302.  1355.2  10313.
NC                            0.1     0.3
ET                   4.1   9935.  10065.
X120.628     16.   9909.  10076.    530.    520.    523.
GR1357.3   9532.  1357.3   9624.  1356.8   9754.  1357.2   9808.  1357.1   9909.
GR1351.5   9922.  1350.2   9947.  1343.3   9959.  1343.6   9991.  1343.6  10000.
GR1343.7  10044.  1356.3  10076.   1357.  10082.  1357.1  10137.  1357.2  10282.
GR 1358.  10337.
ET                   4.1   9962.  10026.
X120.725     20.   9951.  10036.    510.    520.    512.
GR1360.3   9544.  1361.1   9631.  1361.3   9734.   1361.   9783.   1362.   9858.
GR1360.8   9940.  1360.4   9951.  1350.4   9970.  1350.4   9981.  1348.3   9984.
GR1347.4   9992.  1347.2  10000.  1347.4  10010.   1361.  10036.  1363.4  10046.
GR1363.8  10101.  1364.1  10156.  1364.7  10184.  1365.1  10212.  1364.7  10291.
*
*       PHELPS ROAD  (SPECIAL BRIDGE)
*
NC                            0.3     0.5
X120.737     16.   9968.  10019.     80.     80.     80.             3.4
X3   10.                                                   1363.   1363.
GR1360.3   9544.  1361.1   9631.  1361.3   9734.   1361.   9783.   1362.   9858.
GR1360.8   9940.  1360.4   9951.  1347.5   9968.  1347.5  10019.   1361.  10036.
GR1363.4  10046.  1363.8  10101.  1364.1  10156.  1364.7  10184.  1365.1  10212.
GR1364.7  10291.
SB  1.25    1.56     3.0    100.     51.      3.    576.      0.  1351.0  1350.9
X120.750                            71.     71.     71.             0.1
*
*       ELTRD IS 1364+2HV = 1366.0
*
X2                    1.   1363.   1366.
X3   10.                                                   1364.   1364.
*
*       BELL ROAD  (SPECIAL BRIDGE)  A SECTION TAKEN UPSTREAM OF BELL ROAD AT
*       RM 20.845 IS USED TO MODEL THE BELL ROAD BRIDGE.  GR CARDS ARE REPEATED
*       AT THE DOWNSTREAM FACE WITH PSXECE = -0.9.  TO MORE APPROPRIATELY MODEL
*       CONTRACTION LOSSES, THE UPSTREAM SECTION IS PRESENTED AT RM 20.860
*       INSTEAD OF RM 20.845 WHERE THE AERIAL SECTION WAS TAKEN.

X120.819     12.   9965.  10043.    375.    345.    365.            -0.9
X3   10.                                                   1366.9  1366.9
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GR1366.5   9554.  1365.4   9663.  1365.5   9777.  1365.5   9846.  1365.3   9942.
GR1357.4   9965.  1357.4  10043.  1367.6  10066.  1366.2  10107.  1366.2  10146.
GR 1367.  10166.  1367.2  10169.
SB  1.05    1.56     3.0    100.    77.3     3.3    655.      0.  1357.4  1356.5
X120.841                           115.    115.    115.             0.9
*
*       ELTRD IS 1367.9+2HV = 1369.9
*
X2                    1.  1365.4  1369.9
X3   10.                                                   1367.9  1367.9
ET                   4.1   9904.  10060.
X120.860     14.   9942.  10066.     90.    110.    100.
X3   10.                                                   1365.3  1367.6
GR 1370.   9800.  1365.5   9801.  1365.5   9846.  1365.3   9942.  1357.8   9975.
GR1356.3   9991.  1356.4  10000.  1357.2  10015.   1357.  10040.  1367.6  10066.
GR1366.2  10107.  1366.2  10146.   1367.  10166.  1367.2  10169.
NC  0.04   0.035   0.035     0.1     0.3
ET                   4.1   9860.  10110.
X120.942     26.   9854.  10024.    530.    490.    433.
GR1372.5   9619.  1367.2   9630.  1368.7   9643.  1369.8   9663.  1369.4   9719.
GR1367.6   9792.  1367.6   9836.  1368.6   9854.  1360.2   9867.  1359.8   9879.
GR1359.8   9891.  1364.6   9904.  1365.2   9942.  1363.7   9970.   1366.   9977.
GR1360.3   9998.  1359.6  10000.  1366.5  10024.  1364.7  10027.  1364.5  10053.
GR1365.7  10070.  1364.5  10114.  1361.6  10153.  1368.3  10171.  1368.3  10194.
GR1368.3  10204.
NC  0.04    0.04   0.035
ET                   4.1   9810.  10060.
X121.036     19.   9912.  10020.    490.    490.    496.
GR1376.1   9530.   1372.   9541.   1372.   9561.  1371.3   9665.  1371.9   9728.
GR1371.6   9758.  1370.9   9867.  1370.7   9912.  1367.3   9917.  1367.5   9952.
GR1366.3   9980.  1363.5   9994.  1363.6  10000.  1364.3  10009.  1370.4  10020.
GR1371.2  10041.  1371.2  10075.  1371.8  10089.   1378.  10090.
ET                   4.1   9900.  10060.
X121.127     13.   9974.  10067.    400.    500.    480.
X3   10.                                                   1374.
GR1378.9   9623.  1373.6   9634.  1373.6   9666.  1373.4   9759.  1373.5   9860.
GR1373.7   9913.  1374.2   9974.  1366.9   9990.  1366.7  10000.  1367.5  10015.
GR1367.8  10039.   1375.  10067.   1375.  10077.
ET                   4.1   9900.  10125.
X121.230     28.   9967.  10048.    560.    500.    544.
GR1381.5   9741.  1381.5   9764.  1381.5   9786.  1380.7   9813.  1379.3   9835.
GR1379.3   9852.  1379.9   9862.  1378.2   9870.  1379.8   9879.  1378.9   9891.
GR1379.5   9916.  1379.6   9930.  1378.9   9944.  1379.2   9955.  1379.3   9967.
GR1374.7   9982.  1372.4   9992.   1372.  10000.  1373.2  10014.  1375.6  10023.
GR1379.3  10037.  1380.6  10048.   1378.  10062.  1377.5  10083.  1377.4  10102.
GR1377.7  10117.  1377.8  10126.   1385.  10127.
ET                   4.1   9930.  10130.
X121.363     55.   9928.  10088.    740.    700.    702.
GR1384.8   9135.  1384.7   9160.  1383.9   9189.  1384.6   9215.  1383.9   9245.
GR1384.4   9279.  1383.8   9313.   1384.   9345.  1384.1   9374.  1383.8   9405.
GR1383.5   9428.  1384.5   9459.   1385.   9498.  1384.7   9527.   1385.   9549.
GR1382.2   9561.   1381.   9570.  1382.1   9583.  1383.9   9596.  1384.3   9628.
GR1384.3   9657.   1384.   9697.  1383.6   9739.  1384.1   9779.  1383.9   9811.
GR1383.1   9822.  1383.6   9848.  1383.3   9886.  1383.5   9907.  1384.1   9916.
GR1383.2   9922.  1384.4   9928.  1383.6   9939.  1379.2   9954.  1377.7   9977.
GR 1375.   9996.  1374.8  10000.   1375.  10016.  1374.2  10037.  1374.1  10045.
GR1377.5  10066.  1382.1  10088.  1383.8  10108.   1384.  10125.  1384.5  10147.
GR1382.7  10174.  1383.2  10202.  1383.1  10224.  1383.1  10245.  1383.3  10265.
GR1384.3  10285.  1383.4  10301.   1383.  10319.   1383.  10334.   1383.  10337.
ET                   4.1   9852.  10077.
X121.484     33.   9932.  10026.    650.    520.    639.
GR1386.8   9487.  1385.8   9527.  1385.8   9572.  1385.4   9614.  1384.8   9647.
GR1385.2   9678.  1385.6   9709.  1386.7   9746.  1385.9   9776.  1384.5   9805.
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GR1383.9   9837.  1384.4   9867.   1384.   9892.  1386.5   9919.  1386.9   9932.
GR1386.2   9943.  1383.5   9964.  1380.2   9970.  1379.7   9988.  1378.5   9994.
GR1378.6  10000.  1381.2  10014.  1386.5  10026.  1386.6  10053.  1387.8  10056.
GR1385.5  10060.  1388.2  10068.  1385.8  10075.  1387.4  10079.  1387.4  10101.
GR1387.6  10116.  1387.5  10131.  1387.4  10134.
ET                   4.1   9940.  10165.
X121.576     43.   9980.  10087.    320.    480.    486.
GR1388.7   9388.  1388.6   9414.  1388.2   9461.  1388.5   9500.  1389.3   9532.
GR1388.7   9570.  1388.5   9607.  1387.9   9643.  1388.6   9664.  1388.8   9705.
GR1389.1   9743.  1388.9   9780.   1388.   9821.  1388.4   9852.  1388.7   9889.
GR1389.1   9922.  1389.7   9952.  1390.1   9968.   1390.   9980.  1382.5   9994.
GR1382.1  10000.  1382.2  10008.  1383.8  10015.  1385.1  10038.  1385.2  10056.
GR1384.1  10065.  1384.6  10073.  1388.3  10087.  1387.1  10114.  1387.1  10140.
GR1387.8  10162.  1387.7  10199.  1388.4  10243.  1388.7  10281.  1389.3  10300.
GR1390.3  10307.  1389.2  10313.  1390.7  10320.  1387.6  10329.  1388.9  10335.
GR1389.7  10348.  1390.2  10360.  1390.3  10386.
QT    2.   5500.   5500.
ET                   4.1   9890.  10115.
X121.669     35.   9962.  10031.    440.    470.    491.
GR1393.2   9392.   1393.   9426.  1392.7   9446.  1392.3   9515.  1392.9   9562.
GR1392.2   9606.  1392.8   9663.  1392.7   9710.  1393.1   9742.  1393.5   9777.
GR1393.3   9819.  1392.7   9858.  1392.2   9893.  1391.6   9925.   1392.   9949.
GR1393.8   9962.  1392.7   9974.  1392.2   9982.   1385.   9989.   1384.   9997.
GR1384.5  10000.  1385.1  10011.  1388.7  10023.   1392.  10031.  1391.2  10045.
GR 1392.  10074.  1391.7  10124.  1391.9  10182.   1392.  10245.  1392.1  10303.
GR1391.9  10361.   1392.  10395.  1392.6  10401.  1391.6  10404.  1393.3  10414.
ET                   4.1   9940.  10140.
X121.742     25.   9975.  10091.    430.    390.    385.
GR 1396.   9733.  1394.6   9753.  1395.1   9777.   1395.   9802.   1395.   9839.
GR1395.6   9885.  1395.1   9930.  1395.3   9940.  1394.7   9975.  1387.4   9991.
GR1386.4  10000.  1386.9  10015.  1392.2  10035.  1391.9  10052.  1389.9  10062.
GR1391.5  10080.  1394.2  10091.  1394.2  10126.  1394.9  10176.   1395.  10240.
GR1394.6  10281.  1394.8  10324.  1395.2  10355.  1395.3  10367.  1397.3  10376.
ET                   4.1   9900.  10100.
X121.840     22.   9946.  10054.    430.    430.    517.
GR1401.5   9827.  1402.1   9842.  1397.3   9860.  1395.5   9882.   1395.   9913.
GR1395.3   9931.  1396.2   9946.  1395.7   9953.  1392.1   9967.  1392.6   9984.
GR1393.7   9997.  1393.3  10000.  1392.5  10020.  1391.1  10033.  1393.5  10045.
GR 1397.  10054.  1396.5  10097.  1397.3  10145.  1397.8  10186.  1397.5  10227.
GR1397.6  10273.  1398.3  10308.
ET                   4.1   9830.  10080.
X121.895     31.   9975.  10031.    330.    220.    290.
GR1402.6   9807.  1402.6   9825.  1398.4   9839.  1397.2   9857.  1396.7   9885.
GR1396.7   9919.  1397.7   9939.  1397.9   9960.   1398.   9975.  1397.1   9981.
GR 1393.   9990.  1391.9  10000.  1392.3  10010.   1394.  10021.  1397.7  10031.
GR1398.6  10046.   1399.  10078.  1398.4  10113.  1398.6  10149.  1398.7  10187.
GR1398.5  10225.  1398.1  10251.  1398.6  10292.  1398.6  10333.  1399.3  10364.
GR1398.8  10399.  1399.5  10428.  1400.5  10446.  1400.5  10458.  1399.7  10463.
GR1400.9  10470.
*
*       UNION HILLS RD:   PIPES BENEATH LOW CROSSING WERE MODELLED AS AN AREA
*       (BAREA) WITH AN ORIFICE COEFFICIENT.  THE 100 YEAR FLOW THROUGH THE
*       PIPES WAS NEGLIGIBLE (18 CFS).  UNION HILLS IS THEREFORE MORE
*       APPROPRIATELY MODELLED AS A NORMAL SECTION USING GR CARDS.
*
ET                   4.1   9650.  10070.
X121.933     12.   9865.  10140.    210.    210.    210.
GR 1402.   9060.  1400.3   9440.   1400.   9590.   1398.   9680.  1397.4   9725.
GR 1398.   9780.  1399.4   9840.   1398.   9865.  1396.8  10000.   1398.  10140.
GR 1400.  10285.   1406.  10286.
NC 0.045   0.045   0.045
ET                   4.1   9630.  10051.
X121.953     39.   9969.  10029.     75.     75.     74.
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GR 1402.	9320.	1400.5	9487.	1400.8	9527.	1401.4	9557.	1400.2	9580.
GR1401.7	9599.	1401.1	9621.	1400.2	9647.	1399.6	9678.	1398.8	9699.
GR1398.3	9714.	1397.6	9720.	1396.6	9725.	1398.8	9735.	1399.3	9745.
GR1398.8	9759.	1397.3	9768.	1398.9	9782.	1398.9	9810.	1400.1	9832.
GR1402.1	9851.	1401.7	9870.	1403.3	9884.	1403.7	9893.	1403.4	9912.
GR1402.3	9939.	1401.	9956.	1399.7	9965.	1400.2	9969.	1395.6	9986.
GR1394.4	9997.	1394.1	10000.	1394.	10010.	1394.9	10018.	1398.3	10029.
GR1400.1	10044.	1401.6	10058.	1401.4	10064.	1407.	10065.		
ET		4.1	9620.	10030.					
X122.065	39.	9961.	10028.	430.	630.	591.			
GR1404.2	9230.	1404.	9250.	1402.	9270.	1402.	9500.	1403.1	9594.
GR1403.6	9604.	1400.4	9627.	1400.1	9645.	1400.6	9657.	1400.3	9680.
GR1400.5	9700.	1401.9	9717.	1403.3	9731.	1403.7	9746.	1403.9	9761.
GR1400.1	9776.	1400.	9785.	1401.1	9796.	1401.	9816.	1403.7	9829.
GR1403.7	9843.	1400.7	9861.	1399.7	9869.	1402.7	9890.	1403.5	9899.
GR1404.1	9915.	1404.8	9934.	1403.6	9950.	1404.1	9961.	1401.4	9977.
GR 1398.	9989.	1395.8	9995.	1395.8	10000.	1395.9	10006.	1399.4	10010.
GR 1402.	10028.	1402.6	10043.	1406.6	10061.	1407.1	10085.		
ET		4.1	9620.	10020.					
X122.165	63.	9983.	10018.	530.	530.	528.			
GR 1406.	9130.	1405.2	9138.	1405.	9151.	1404.4	9164.	1402.8	9176.
GR1402.7	9184.	1400.8	9204.	1399.8	9213.	1399.3	9222.	1401.2	9232.
GR 1403.	9256.	1403.8	9282.	1403.8	9308.	1404.3	9334.	1404.2	9364.
GR1404.1	9396.	1404.	9425.	1404.9	9463.	1405.2	9499.	1405.3	9526.
GR1404.9	9548.	1403.8	9565.	1402.8	9579.	1404.6	9595.	1404.8	9608.
GR1402.4	9624.	1400.	9637.	1399.7	9645.	1400.6	9657.	1402.	9669.
GR1403.1	9686.	1404.5	9701.	1405.8	9714.	1406.2	9728.	1406.1	9741.
GR 1404.	9753.	1403.8	9760.	1405.2	9772.	1405.6	9784.	1405.3	9793.
GR1402.9	9806.	1402.7	9820.	1402.6	9834.	1402.6	9843.	1401.8	9849.
GR1401.9	9862.	1402.8	9872.	1403.8	9876.	1405.	9894.	1406.1	9909.
GR1405.4	9919.	1403.1	9930.	1403.	9946.	1402.1	9967.	1400.9	9983.
GR1395.3	9994.	1395.	10000.	1396.1	10007.	1403.7	10018.	1404.8	10038.
GR1405.2	10053.	1405.2	10060.	1405.7	10065.				
ET		4.1	9650.	10027.					
X122.273	57.	9933.	10028.	470.	580.	570.			
GR1418.7	9227.	1418.7	9238.	1412.4	9262.	1411.6	9274.	1410.9	9284.
GR 1409.	9292.	1407.6	9300.	1407.3	9314.	1406.3	9325.	1403.5	9335.
GR1403.1	9344.	1403.	9350.	1404.3	9359.	1405.4	9369.	1405.8	9386.
GR1406.7	9408.	1407.1	9427.	1407.4	9444.	1407.2	9460.	1406.4	9473.
GR1406.5	9485.	1406.9	9502.	1407.7	9520.	1408.2	9532.	1407.1	9558.
GR1404.4	9574.	1404.3	9598.	1406.	9622.	1407.	9657.	1407.3	9686.
GR1406.2	9708.	1406.4	9727.	1406.4	9745.	1405.6	9754.	1402.6	9766.
GR1402.8	9774.	1406.7	9789.	1409.4	9801.	1408.5	9827.	1407.9	9851.
GR1408.8	9869.	1406.3	9887.	1407.	9902.	1404.	9915.	1404.1	9933.
GR1403.2	9948.	1401.8	9961.	1400.6	9977.	1400.1	9992.	1399.4	9999.
GR1399.8	10000.	1401.2	10011.	1404.	10021.	1406.9	10028.	1408.	10050.
GR1408.3	10080.	1408.7	10109.						
ET		4.1	9860.	10040.					
X122.410	25.	9973.	10027.	750.	630.	723.			
X3			9787.						
GR 1420.	9802.	1419.1	9817.	1418.8	9825.	1415.8	9838.	1414.8	9850.
GR1412.6	9867.	1413.9	9879.	1412.	9890.	1413.4	9903.	1414.5	9914.
GR1416.1	9922.	1414.	9931.	1412.4	9941.	1411.4	9954.	1411.2	9967.
GR1410.7	9973.	1405.7	9987.	1404.9	9997.	1404.	10000.	1404.7	10007.
GR1407.6	10017.	1411.3	10027.	1413.5	10042.	1413.8	10057.	1414.4	10071.
ET		4.1	9890.	10050.					
X122.483	19.	9941.	10105.	380.	390.	385.			
X3			9823.						
GR 1421.	9823.	1420.2	9843.	1416.7	9873.	1414.4	9891.	1413.1	9915.
GR1411.1	9941.	1407.8	9961.	1406.2	9984.	1405.5	10000.	1405.5	10027.
GR1406.4	10056.	1408.3	10084.	1411.2	10105.	1412.3	10120.	1412.6	10138.
GR1412.6	10156.	1411.9	10175.	1412.7	10191.	1419.8	10208.		
ET		4.1	9968.	10064.					

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X122.578     13.   9968.  10072.    540.    490.    502.
X3                       9579.
GR1417.2   9914.  1417.6   9942.  1416.4   9958.  1416.6   9968.  1406.7   9983.
GR1406.7   9993.  1407.5  10000.  1408.5  10024.  1408.5  10040.  1408.8  10050.
GR1415.6  10063.  1421.2  10072.  1421.4  10090.
ET                   4.1   9830.  10028.
X122.675     19.   9736.  10032.    570.    480.    512.
GR1419.9   9671.  1419.9   9710.  1419.8   9736.  1410.6   9759.  1411.1   9783.
GR1410.6   9809.  1409.7   9828.  1410.8   9850.  1411.5   9873.  1413.4   9892.
GR1412.2   9922.   1411.   9950.   1411.   9976.  1410.7  10000.  1410.6  10015.
GR 1420.  10032.  1428.3  10047.  1426.6  10055.   1426.  10060.
ET                   4.1   9977.  10160.
X122.794     20.   9983.  10169.    460.    500.    628.
GR1420.6   9968.  1417.8   9983.  1413.6   9998.  1412.4  10000.  1412.3  10013.
GR1410.7  10041.  1411.6  10065.  1413.7  10080.  1413.8  10103.  1414.2  10119.
GR1411.7  10136.  1413.8  10151.  1416.1  10169.  1417.2  10189.  1420.3  10202.
GR1423.1  10219.   1427.  10244.  1429.9  10261.  1429.8  10278.  1429.8  10282.
ET                   4.1   9951.  10120.
X122.880     34.   9927.  10167.    440.    480.    454.
GR1427.3   9791.   1427.   9807.  1426.5   9815.  1424.8   9827.  1424.6   9838.
GR1424.8   9863.  1424.8   9883.  1424.5   9903.  1424.7   9917.  1426.4   9927.
GR1423.9   9934.  1421.4   9947.  1418.5   9958.  1416.1   9968.   1415.   9984.
GR 1414.   9999.  1414.3  10000.  1414.5  10012.  1415.2  10024.  1416.1  10048.
GR1416.5  10067.  1416.4  10101.  1416.2  10125.  1415.5  10143.  1413.2  10152.
GR 1413.  10156.  1414.8  10160.  1424.2  10167.  1426.6  10188.  1428.4  10200.
GR1430.9  10214.  1433.5  10230.  1433.8  10241.  1433.5  10248.
ET                   4.1   9890.  10026.
X122.990     35.   9739.  10034.    480.    530.    581.
GR1427.7   9668.  1427.6   9697.  1425.6   9719.  1425.3   9730.  1425.4   9739.
GR1423.9   9751.  1422.5   9767.  1422.4   9785.  1421.5   9804.  1421.3   9817.
GR1421.3   9829.  1420.8   9843.  1419.5   9855.  1418.9   9864.  1417.9   9873.
GR1419.4   9886.   1420.   9903.  1420.6   9921.  1420.8   9935.  1420.3   9949.
GR 1420.   9963.  1419.1   9977.  1419.1   9995.  1419.1  10000.  1418.7  10014.
GR1420.3  10020.  1427.9  10034.  1427.3  10044.  1428.3  10060.  1430.5  10076.
GR1435.7  10094.  1437.4  10108.  1438.7  10119.  1436.3  10126.  1435.1  10133.
ET                   4.1   9958.  10090.
X123.097     48.   9951.  10121.    640.    490.    565.
GR1433.9   9713.  1433.9   9740.  1433.8   9758.  1432.3   9772.  1432.1   9778.
GR1433.5   9794.  1433.5   9811.  1433.5   9835.  1433.4   9849.  1431.1   9864.
GR 1430.   9878.  1430.1   9885.   1431.   9892.  1429.6   9901.  1429.1   9916.
GR1429.6   9925.  1431.3   9935.  1432.2   9945.  1432.3   9951.  1427.9   9964.
GR1426.4   9977.  1425.6   9988.  1425.1   9999.  1425.1  10000.   1426.  10012.
GR1426.1  10021.  1426.5  10044.  1426.5  10063.  1426.5  10073.  1426.5  10082.
GR1425.5  10093.  1426.4  10101.  1428.5  10112.  1430.8  10121.  1430.1  10135.
GR 1430.  10150.  1431.6  10163.  1432.8  10176.   1433.  10198.  1432.7  10221.
GR1431.6  10247.  1430.9  10267.  1430.6  10286.  1431.5  10296.  1433.4  10310.
GR1438.3  10337.  1439.7  10353.  1440.5  10363.
*
*       THE BEARDSLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL
*       CROSS SECTION.  THE BEARDSLEY ROAD CENTERLINE IS AT RM 23.168
*
ET                   4.1   9830.  10140.
X123.168     22.   9777.  10116.    330.    300.    375.
GR1435.4   9358.  1435.5   9412.  1435.6   9477.  1434.7   9533.  1433.2   9598.
GR1431.8   9657.  1430.8   9718.  1429.5   9777.  1428.9   9827.   1429.   9877.
GR1429.1   9942.   1429.   9999.  1429.1  10000.  1429.8  10053.  1430.3  10116.
GR1431.8  10176.  1433.6  10230.  1434.3  10274.  1434.9  10326.  1435.5  10363.
GR1435.6  10399.  1435.8  10409.
*
*       DUE TO BREAKOUTS (SPLIT FLOWS) BETWEEN RM 23.55 AND RM 23.8, THE
*       50 AND 100 YEAR Q'S ARE REDUCED PER THE FOLLOWING TABLE.
*
*       NO ENCROACHMENTS ARE COMPUTED FOR THE FOLLOWING REACH BETWEEN RM 23.253
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*       AND 7TH STREET.  FOR PURPOSES OF A FLOODWAY, A 100 FT CORRIDOR IS MAIN-
*       TAINED OUTSIDE OF THE LEVEES (WHICH ARE LIKELY TO BE ERODABLE) TO PASS
*       THE SPLIT FLOWS WHICH HAVE BEEN REMOVED FROM THE MODEL, AS DISCUSSED
*       WITH CITY OF PHOENIX AND FLOOD CONTROL DISTRICT REPRESENTATIVES. IF THIS
*       CORRIDOR IS NOT MAINTAINED, THE REDUCTION IN Q FOR THIS MODEL IS NOT
*       VALID, RESULTING IN A FLOODWAY PROFILE ABOVE THE NATURAL PROFILE BY MORE
*       THAN THE STATUTORY 1.0 FT.
*
*
*                          FULL Q        REDUCED Q
*
*                50 YEAR   4800.            3300
*
*               100 YEAR   5500.            3400
*
*       THE 10 YEAR Q (3200 CFS) IS UNAFFECTED
*
QT    2.   3400.   3400.
NC 0.035    0.05    0.04
ET                   4.1  9978.5 10023.2
X123.253      8.   9973.  10038.    470.    450.    459.
GR1437.5   9973.  1425.5   9995.  1425.2  10000.  1427.4  10008.  1429.2  10015.
GR1444.2  10038.  1444.9  10052.   1445.  10060.
ET                   4.1   9969.  10036.
X123.334     10.   9962.  10055.    400.    420.    417.
GR1443.8   9962.  1435.6   9979.  1433.2   9990.  1432.6  10000.  1433.2  10012.
GR1435.4  10022.  1438.5  10032.  1444.2  10044.  1449.8  10055.  1449.6  10063.
X123.416     10.   9974.  10053.    400.    430.    433.
GR1447.7   9958.  1447.8   9974.  1439.2   9989.  1436.5   9999.  1436.6  10000.
GR1437.2  10017.  1437.6  10030.  1444.4  10041.  1450.2  10053.  1450.4  10066.
X123.514      8.   9973.  10039.    560.    470.    517.
GR1451.5   9965.  1451.4   9973.  1439.8   9989.  1439.6  10000.  1440.1  10012.
GR1441.5  10022.  1443.6  10029.  1451.1  10039.
*
*       SPECIAL BRIDGE IS USED TO MODEL EMBANKMENT PLACED IN THE CHANNEL TO
*       ALLOW VEHICULAR ACCESS BETWEEN THE LANDFILL ON THE LEFT AND THE GRAVEL
*       PIT ON THE RIGHT.  THE EMBANKMENT MAY WASH OUT, BUT FOR THIS STUDY, IT
*       IS ASSUMED TO REMAIN.  LOW FLOWS PASS THROUGH 2-36" CMP'S.
*
X123.544                                190.    150.    158.            1.8
X3   10.                                                        1445.   1445.
SB  1.25    2.48     3.2      0.      5.7      1.    14.1      0.   1442.  1441.4
X123.555                                60.     60.     60.            0.6
*
*       ELTRD IS 1448.4+0.6HV = 1449
*
X2                    1.   1445.   1449.
X3   10.                                                        1480.   1480.
BT   10.   9930.   1452.      0.   9939.  1451.2      0.   9951.  1451.1      0.
BT 9967.  1449.8      0.   9987.  1448.4      0.  10000.  1448.4      0.  10019.
BT1448.6      0.  10041.  1449.5      0.  10055.   1450.      0.  10070.   1452.
BT    0.
X123.591     17.   9968.  10045.    100.    210.    190.
*
*       ARTIFICIAL LEVEES ARE SET VERY HIGH ON THE LEFT AND RIGHT OVERBANKS
*       USING THE X3 CARD TO CONSIDER ONLY THE CHANNEL AREA AS EFFECTIVE.  SPLIT
*       FLOW THAT BREAKS OUT UPSTREAM IS ACCOUNTED FOR BY THE REDUCED Q.  FLOWS
*       ARE RETURNED TO CAVE CREEK DOWNSTREAM AT BEARDSLEY ROAD.
*
X3   10.                                                        1480.   1480.
GR 1460.   9700.   1448.   9760.   1448.   9850.  1452.9   9959.  1452.9   9968.
GR1446.8   9982.  1444.6   9993.  1444.2  10000.  1444.2  10013.  1444.9  10023.
GR1449.9  10036.  1453.8  10045.  1451.9  10048.   1448.  10070.   1448.  10430.
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GR 1450.  10770.   1452.  11200.
X123.691     43.   9965.  10036.    510.    540.    528.
*
*       HIGH ARTIFICIAL LEVEE
*
X3    10.                                                  1480.   1480.
GR1461.1   9722.  1449.4   9747.  1449.4   9767.  1449.5   9784.  1449.1   9800.
GR1448.3   9819.  1448.6   9832.  1448.3   9866.   1449.   9894.  1449.3   9913.
GR1450.2   9925.  1453.5   9936.  1456.1   9944.  1455.4   9951.  1457.3   9955.
GR1457.6   9965.  1450.8   9980.  1448.5   9985.  1447.2   9991.  1446.6   9999.
GR1446.4  10000.   1447.  10011.  1449.6  10017.  1451.3  10028.  1455.3  10036.
GR1453.2  10045.  1452.4  10054.  1451.3  10057.  1452.2  10062.  1452.4  10077.
GR1452.2  10094.  1451.7  10108.  1452.6  10117.  1451.4  10123.  1452.7  10128.
GR 1451.  10138.  1452.3  10143.  1451.7  10147.  1453.4  10155.  1452.1  10160.
GR 1452.  10320.   1454.  10560.   1456.  10730.
*
*       Q IS NOW CHANGED TO BE THE AVERAGE OF THE FULL Q UPSTREAM OF THE
*       BREAKOUT AND OF THE REDUCED Q DOWNSTREAM OF THE BREAKOUT.
*
QT    2.   4350.   4350.
X123.815     31.   9951.  10037.    650.    680.    655.
*
*       HIGH ARTIFICIAL LEVEE
*
X3    10.                                                  1480.   1480.
GR 1470.   9650.  1459.3   9716.  1453.5   9738.  1453.1   9772.  1453.4   9812.
GR1454.5   9857.  1455.1   9890.   1455.   9914.  1455.4   9941.  1458.9   9951.
GR 1458.   9963.  1451.4   9979.  1449.7   9988.  1449.9   9996.  1449.7  10000.
GR1449.7  10017.  1454.6  10028.  1457.8  10037.  1456.8  10043.  1456.8  10060.
GR1456.9  10081.  1457.1  10110.  1458.2  10140.  1458.4  10157.  1459.5  10172.
GR1458.5  10182.   1456.  10195.  1457.2  10215.  1458.7  10226.  1457.1  10235.
GR1465.5  10249.
*
*       Q IS NOW CHANGED TO BE THE FULL Q UPSTREAM OF THE BREAKOUT
*
QT    2.   5300.   5300.
X123.912     12.   9967.  10043.    480.    510.    512.
*
*       HIGH ARTIFICIAL LEVEE
*
X3    10.                                                  1480.   1480.
GR1463.9   9868.  1461.7   9878.  1460.6   9898.  1460.7   9925.  1461.4   9950.
GR1461.3   9967.  1451.3   9983.  1447.9   9994.   1448.  10000.  1447.9  10010.
GR1454.9  10026.  1460.9  10043.
X123.989      9.   9937.  10049.    400.    410.    407.
GR1465.6   9937.  1457.9   9957.  1452.6   9977.  1450.8   9989.  1449.7  10000.
GR1450.5  10014.  1452.5  10024.   1458.  10036.  1465.8  10049.
*
*       7TH STREET  (SPECIAL BRIDGE).  THE GR CARDS FROM SECTION 24.106 TAKEN
*       UPSTREAM OF 7TH STREET ARE REPEATED AT THE DOWNSTREAM FACE OF THE BRIDGE
*       AS SECTION 24.086 WITH PSXECE = -1.3.
*
NC                            0.3     0.5
X124.086     12.   9972.  10044.    450.    560.    512.            -1.3
X3    10.                                                  1463.7  1463.7
GR1470.1   9942.  1464.1   9955.  1454.9   9972.  1454.9  10044.   1456.  10052.
GR1458.5  10064.  1461.9  10091.  1463.7  10108.  1465.7  10123.  1466.1  10136.
GR1466.4  10155.  1467.4  10310.
SB    0.9    1.56      3.    100.    71.6      3.    590.      0.  1453.6  1453.6
X24.096                              56.     56.     56.
*
*       ELTRD IS 1464.7+2HV = 1466.7
*
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```
X2                    1.  1462.2  1466.7
X3   10.                                                  1466.   1466.
ET                  4.1   9955.  10055.
X124.106     13.   9955.  10064.     80.     20.     53.
GR1470.1   9942.  1464.1   9955.  1455.2   9972.  1454.7   9997.  1454.2  10000.
GR1454.9  10028.   1456.  10052.  1458.5  10064.  1461.9  10091.  1463.7  10108.
GR1465.7  10123.  1466.1  10136.  1466.4  10155.
NC                          0.1     0.3
ET                  4.1   9950.  10050.
X124.195     13.   9933.  10142.    470.    460.    470.
GR1498.7   9862.  1497.1   9889.  1470.4   9933.  1454.1   9961.  1453.6   9996.
GR1453.6  10000.  1453.9  10032.  1455.5  10052.  1456.3  10073.  1458.8  10093.
GR1462.3  10117.  1466.4  10142.  1468.9  10164.
ET                  4.1   9940.  10080.
X124.322     11.   9871.  10064.    640.    630.    671.
GR1473.7   9820.  1463.5   9871.  1453.2   9895.  1451.6   9972.  1452.1  10000.
GR1454.5  10042.  1456.8  10064.  1457.7  10134.  1459.6  10177.  1465.2  10220.
GR1470.9  10262.
NC 0.045   0.045   0.045
ET                  4.1   9927.  10080.
X124.444     16.   9928.  10122.    640.    600.    644.
GR1478.8   9885.  1478.7   9906.   1465.   9928.  1457.6   9939.   1458.   9972.
GR1457.3   9995.  1457.7  10000.  1459.1  10027.  1460.4  10064.  1459.3  10097.
GR1461.7  10122.  1458.9  10142.  1460.7  10166.  1460.3  10180.  1468.5  10215.
GR1474.2  10230.
ET                  4.1   9950.  10160.
X124.542     20.   9914.  10187.    470.    530.    517.
GR1488.2   9844.   1464.   9914.  1463.2   9948.  1460.4   9968.  1459.8   9996.
GR1459.8  10000.  1461.4  10017.  1462.3  10033.  1470.7  10056.  1470.3  10083.
GR1472.2  10112.  1470.9  10127.  1464.4  10141.  1462.5  10166.   1463.  10171.
GR1464.7  10175.  1467.8  10187.  1473.8  10237.  1475.2  10268.  1478.9  10283.
*
*       THE DEER VALLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL
*       CROSS SECTION.  THE DEER VALLEY ROAD CENTERLINE IS AT RM 24.635.
*
ET                  4.1   9940.  10060.
X124.635      8.   9876.  10111.    650.    220.    491.
GR1480.9   9752.  1474.5   9876.   1467.   9983.  1466.8  10000.  1467.9  10037.
GR1472.4  10111.  1478.6  10193.  1480.1  10247.
QT    2.   5200.   5200.
*
*       DIVIDED FLOW OCCURS FROM SECTION 24.738 TO 25.163.  ALTHOUGH THE RIGHT
*       OVERBANK IS SOMETIMES LOWER THAN THE CHANNEL, EFFECTIVE FLOW IS
*       CONTROLLED DOWNSTREAM AT SECTION 24.738.  OVERBANK LOW ELEVATIONS ARE
*       ARTIFICIALLY ADJUSTED AT SECTIONS 24.838 TO 25.163 TO YIELD QROB =
*       QROB AT SECTION 24.738 + OR - 10%.  NATURAL CONDITIONS AT SECTION
*       25.048 RESULT IN A QROB THAT IS LESS THAN SECTION 24.738.
*
ET                  4.1   9936.  10200.
X124.738     21.   9897.  10038.    350.    630.    544.
GR1490.4   9703.  1489.7   9717.  1479.2   9736.  1479.3   9805.  1477.7   9884.
GR1481.2   9897.  1477.6   9931.  1472.8   9965.  1472.3   9986.   1472.  10000.
GR1473.5  10023.  1480.9  10038.  1476.7  10045.  1480.8  10067.  1477.6  10079.
GR1473.6  10088.  1473.6  10127.  1472.5  10224.  1474.4  10291.  1473.6  10330.
GR1477.6  10343.
ET                  4.1   9968.  10350.
X124.838     20.   9945.  10019.    470.    450.    528.
* 1488.5   9909.  1483.8   9945.  1477.7   9986.  1474.8   9991.  1474.7  10000.
*  1475.  10004.  1483.5  10019.  1477.3  10032.  1479.5  10066.  1469.1  10111.
* 1467.6  10133.  1468.5  10162.  1472.5  10185.  1469.9  10199.  1469.7  10219.
*  1470.  10270.   1466.  10365.   1466.  10450.   1468.  10630.   1490.  10660.
GR1488.5   9909.  1483.8   9945.  1477.7   9986.  1474.8   9991.  1474.7  10000.
GR 1475.  10004.  1483.5  10019.   1479.  10032.  1479.5  10066.   1479.  10111.
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GR 1479.  10133.   1479.  10162.   1479.  10185.   1479.  10199.   1479.  10219.
GR 1479.  10270.   1479.  10365.   1479.  10450.   1479.  10630.   1490.  10660.
ET                   4.1   9860.  10300.
X124.943     17.   9983.  10017.    530.    570.    554.
* 1504.8   9651.  1494.9   9694.  1493.1   9736.  1481.7   9813.  1480.7   9926.
* 1482.4   9945.  1481.8   9983.   1478.   9990.  1477.9  10000.  1477.7  10004.
* 1484.8  10017.  1483.6  10032.  1478.1  10044.   1470.  10080.   1470.  10540.
*  1480.  10610.  1503.3  10690.
GR1504.8   9651.  1494.9   9694.  1493.1   9736.  1481.7   9813.  1480.7   9926.
GR1482.4   9945.  1481.8   9983.   1478.   9990.  1477.9  10000.  1477.7  10004.
GR1484.8  10017.  1483.6  10032.   1481.  10044.   1481.  10080.   1481.  10540.
GR 1481.  10610.  1503.3  10690.
ET                   4.1   9850.  10250.
X125.048     23.   9966.  10017     580.    520.    554.
GR1497.2   9659.  1493.6   9692.  1486.7   9707.   1486.   9817.   1486.   9941.
GR1486.6   9966.  1485.7   9981.   1484.   9986.   1484.  10000.  1493.6  10017.
GR1488.3  10026.   1486.  10062.  1485.4  10154.  1486.5  10223.  1483.7  10232.
GR1484.6  10247.   1488.  10258.  1487.5  10405.  1492.2  10420.   1489.  10431.
GR 1484.  10450.   1484.  10470.   1500.  10525.
QT    2.   4900.   4900.
ET                   4.1   9940.  10175.
X125.163     16.   9972.  10025.    640.    580.    607.
* 1499.3   9878.  1492.6   9917.  1490.2   9947.  1489.9   9965.  1491.6   9972.
* 1486.2   9984.  1486.3  10000.   1486.  10005.  1493.1  10025.  1485.3  10044.
* 1486.3  10088.  1486.3  10147.  1486.4  10220.  1488.4  10291.  1498.8  10312.
* 1499.8  10417.
GR1499.3   9878.  1492.6   9917.  1490.2   9947.  1489.9   9965.  1491.6   9972.
GR1486.2   9984.  1486.3  10000.   1486.  10005.  1493.1  10025.   1489.  10044.
GR 1489.  10088.   1489.  10147.   1489.  10220.   1489.  10291.  1498.8  10312.
GR1499.8  10417.
*
*       THE BREAKOUT IN THE RIGHT OVERBANK IS NOT EFFECTIVE DUE TO DOWNSTREAM
        PONDING.  HIGH ARTIFICIAL LEVEES HAVE BEEN SET ON THE RIGHT AT SECTIONS
        25.262, 25.374, AND 25.434.
*
ET                   4.1   9750.  10023.
X125.262     28.   9948.  10030.    470.    570.    523.
X3   10.                                                  1491.6   1510.
GR1503.2   9465.  1506.4   9470.  1489.6   9513.  1490.2   9547.  1492.2   9618.
GR1491.5   9646.  1492.7   9689.  1492.6   9707.  1490.5   9823.  1491.6   9948.
GR1489.1   9969.  1493.6   9987.  1490.2  10000.  1490.8  10016.  1496.8  10030.
GR1488.4  10044.  1487.4  10059.   1486.  10070.  1484.4  10260.   1486.  10380.
GR 1492.  10420.   1492.  10450.   1484.  10475.   1484.  10510.   1488.  10535.
GR 1486.  10575.   1488.  10585.   1494.  10610.
ET                   4.1   9925.  10023.
X125.374     16.   9969.  10023.    680.    300.    591.
X3   10.                                                  1499.3
GR 1510.   9628.  1498.2   9659.   1496.   9704.  1495.7   9838.  1496.2   9920.
GR 1496.   9933.  1497.8   9944.  1497.8   9950.  1495.6   9955.  1496.7   9963.
GR1499.3   9969.  1493.5   9986.  1493.3  10000.  1493.5  10011.  1498.8  10023.
GR 1510. 10023.1
NC  0.05   0.035   0.035
ET                   4.1   9970.  10036.
X125.434     14.   9968.  10036.    400.    190.    317.
X3   10.                                                  1504.9
GR1511.5   9463.  1506.8   9561.  1504.8   9631.  1504.9   9716.   1502.   9788.
GR1501.3   9885.  1500.8   9942.  1500.6   9954.  1504.9   9968.  1496.8   9990.
GR1496.6  10000.  1495.8  10018.   1504.  10036.   1510. 10036.1
ET                   4.1   9970.  10050.
X125.500      9.   9908.  10105.    250.    420.    349.
GR1511.5   9908.  1506.9   9927.  1504.5   9943.  1499.9   9957.  1497.7  10000.
GR1498.5  10025.  1503.7  10061.  1507.7  10094.   1509.  10105.
*
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*        CAP CANAL OVERSHOOT STRUCTURE
*
NC                                0.3     0.5
*
*                SECTION IN DOWNSTREAM OUTLET OF OVERSHOOT IN STILLING POOL
*
ET                      4.1   9960.  10040.
X125.523      9.      9963.  10037.    120.    120.    121.
GR 1510.   9900.      1508.   9930.   1498.   9950.   1498.   9963.   1496.   9964.
GR 1496.  10036.      1498.  10037.   1498.  10050.   1510.  10100.
*
*                SECTION AT DOWNSTREAM CREST OF OVERSHOOT WHERE FLOW PASSES
*                THROUGH CRITICAL DEPTH. DO NOT ENCROACH.
*
NC  0.05   0.035   0.015
X125.534      4.      9963.  10037.     58.     58.     58.
GR 1515.   9963. 1505.54   9964. 1505.54  10036.   1515.  10037.
*
*                SECTION AT UPSTREAM END OF NARROW CHUTE. DO NOT ENCROACH.
*
X125.551                                 90.     90.     90.
*
*                SECTION AT UPSTREAM FLARED ENTRANCE TO OVERSHOOT. DO NOT
*                ENCROACH.
*
X125.557      4.      9954.  10046.     32.     32.     32.
GR 1515.   9954. 1505.54   9973. 1505.54  10027.   1515.  10046.
*
*                NATURAL SECTION UPSTREAM OF OVERSHOOT.  SET ENCROACHMENTS
*                TO NATURAL SSTA & ENDSTA.
*
NC 0.035   0.035   0.035
QT    2.   2900.   2900.
ET                      4.1   9949.  10050.
X125.561      5.      9948.  10069.     20.     20.     21.
GR1514.9   9948.     1505.6   9971.  1505.7  10000.  1506.3  10048.  1515.2  10069.
NC                                0.1     0.3
QT    2.   2700.   2700.
ET                      4.1   9950.  10050.
X125.680     36.      9927.  10093.    580.    660.    628.
GR1519.8   9136.     1518.8   9203.  1516.1   9267.  1515.7   9325.  1515.7   9359.
GR1516.7   9372.     1514.9   9462.  1514.2   9504.  1515.2   9516.  1515.6   9559.
GR1515.7   9593.      1515.   9622.  1516.9   9637.  1515.3   9653.  1512.1   9664.
GR1512.4   9688.     1513.8   9704.  1518.5   9720.  1510.6   9747.  1514.3   9796.
GR1513.9   9866.     1514.4   9927.  1508.7   9946.  1511.3   9961.  1511.2   9985.
GR1506.5   9997.     1506.8  10000.  1506.8  10011.  1510.5  10022.  1511.1  10057.
GR1509.6  10063.     1511.2  10093.  1512.4  10167.   1510.  10278.  1508.7  10295.
GR1534.1  10338.
QT    2.   2500.   2500.
ET                      4.1   9982.  10082.
X125.786     32.      9978.  10056.    600.    470.    560.
X3   10.                                                        1518.9
GR1522.7   9477.     1522.5   9507.  1515.5   9529.  1515.7   9575.  1514.1   9667.
GR1514.3   9705.     1513.4   9736.   1517.   9753.  1516.8   9776.  1517.2   9794.
GR1513.5   9822.     1516.2   9837.  1512.2   9848.  1516.5   9872.  1514.6   9883.
GR 1517.   9913.      1517.   9922.  1515.2   9944.  1518.9   9964.  1518.9   9978.
GR1511.2   9990.     1511.4  10000.  1510.7  10010.  1514.5  10020.  1512.2  10041.
GR1515.8  10056.     1515.3  10189.  1517.3  10353.  1515.1  10418.   1514.  10435.
GR1514.2  10440.     1532.8  10465.
QT    2.   2300.   2300.
ET                      4.1   9959.  10059.
X125.947     14.      9950.  10066.    870.    830.    850.
GR 1524.   9816.     1522.7   9917.  1522.7   9950.  1518.8   9971.  1518.3   9986.
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GR1514.4  10000.  1514.5  10011.  1518.4  10028.  1519.7  10037.  1520.6  10066.
GR1519.3  10107.  1518.2  10113.  1518.8  10119.  1529.5  10139.
QT    2.   2200.   2200.
ET                  4.1   9950.  10023.
X126.058     15.   9966.  10024.    540.    570.    586.
GR1529.2   9598.  1526.6   9747.  1527.1   9765.   1526.   9790.  1523.3   9845.
GR1522.1   9904.  1521.1   9927.   1521.   9951.   1522.   9966.  1520.8   9976.
GR1517.4  10000.  1516.2  10010.  1516.8  10014.   1524.  10024.  1541.9  10048.
QT    2.   2000.   2000.
ET                  4.1   9970.  10040.
X126.152     13.   9956.  10069.    240.    550.    496.
GR1530.2   9789.  1529.9   9847.  1527.3   9895.  1525.4   9956.  1522.3   9972.
GR 1520.   9982.  1520.1  10000.  1520.5  10018.  1522.2  10050.   1526.  10069.
GR1530.7  10102.  1531.9  10114.  1533.1  10139.
QT    2.   1900.   1900.
ET                  4.1   9973.  10060.
X126.265     10.   9955.  10029.    580.    610.    597.
GR1533.9   9829.  1533.6   9913.  1534.3   9916.  1531.7   9955.  1523.8   9995.
GR 1522.  10000.  1522.5  10010.  1524.8  10015.  1526.5  10029.  1529.5  10115.
QT    2.   1700.   1700.
ET                  4.1   9967.  10064.
X126.372     14.   9966.  10080.    600.    510.    565.
GR1558.5   9909.  1544.2   9928.  1535.7   9945.  1531.6   9966.  1528.4   9981.
GR1525.9   9990.  1523.9   9995.  1523.8  10000.  1527.3  10016.  1526.6  10034.
GR1529.9  10055.  1533.8  10080.  1534.6  10100.  1535.5  10116.
QT    2.   1600.   1600.
ET                  4.1   9955.  10045.
X126.492     17.   9866.  10084.    640.    610.    634.
GR1539.5   9819.  1538.5   9851.  1537.5   9866.  1533.3   9880.  1530.9   9891.
GR1530.2   9920.  1527.7   9953.  1525.8   9972.  1525.8   9994.  1525.7  10000.
GR1526.2  10019.  1528.4  10039.  1530.4  10062.  1534.8  10078.   1536.  10084.
GR1536.4  10097.  1537.1  10100.
    0.04    0.04    0.03
QT    2.   1300.   1300.
ET                  4.1   9945.  10025.
X126.582     37.   9869.  10028.    460.    480.    475.
GR1538.6   9388.  1538.3   9411.   1535.   9445.  1532.2   9471.  1530.3   9493.
GR1526.4   9510.  1525.5   9519.  1525.3   9539.  1526.3   9568.  1526.5   9602.
GR1527.2   9622.  1526.7   9655.  1527.3   9691.  1526.9   9725.  1527.2   9752.
GR1527.4   9786.  1528.1   9817.  1527.9   9845.  1528.2   9869.  1526.9   9894.
GR1524.1   9911.  1524.9   9937.  1525.2   9958.  1525.6   9983.  1525.7  10000.
GR 1526.  10014.  1527.2  10028.  1526.4  10047.  1527.2  10086.  1526.5  10123.
GR1526.8  10140.  1528.8  10157.  1528.8  10176.  1533.8  10195.  1536.6  10211.
GR1536.7  10224.  1537.5  10226.
ET                  4.1   9970.  10030.
X126.673     44.   9955.  10077.    510.    460.    480.
X3   10.                                                   1535.
GR1549.8   9490.  1541.8   9544.  1534.8   9585.  1533.1   9600.  1531.8   9629.
GR1530.8   9656.  1530.5   9681.  1530.5   9715.  1530.5   9748.  1531.1   9773.
GR1532.3   9803.  1532.9   9829.  1532.6   9851.  1532.1   9868.  1532.7   9898.
GR1532.9   9922.  1532.6   9944.  1534.3   9955.  1532.6   9970.  1532.7   9988.
GR1532.8  10000.  1531.8  10013.  1532.6  10023.  1532.2  10047.  1531.9  10061.
GR1533.2  10077.  1533.2  10105.  1534.5  10130.  1536.4  10141.  1537.8  10149.
GR1537.4  10165.  1536.9  10192.  1533.6  10205.  1533.2  10237.  1533.2  10265.
GR1534.2  10285.  1534.8  10304.  1535.1  10331.  1535.6  10348.  1539.7  10359.
GR1539.2  10378.  1539.9  10387.   1552.  10411.  1550.3  10420.
QT    2.   1100.   1100.
ET                  4.1   9981.  10031.
X126.784     29.   9975.  10080.    590.    530.    586.
1556.2   9628.  1553.4   9629.  1551.5   9652.  1550.5   9674.  1549.6   9695.
1548.7   9721.  1549.2   9749.  1548.9   9783.  1549.4   9822.  1549.5   9859.
GR1549.4   9898.  1549.7   9925.  1550.7   9951.  1551.2   9975.  1542.7   9985.
GR1543.2  10000.  1544.4  10019.  1545.4  10045.  1550.2  10069.  1551.5  10080.
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GR1550.8  10091.   1551.  10110.   1551.  10132.  1550.9  10150.   1551.  10162.
GR1552.5  10191.  1552.7  10228.   1552.  10271.  1551.9  10279.
QT    2.   1000.   1000.
ET                  4.1   9975.  10025.
X126.883     21.   9773.  10122.    530.    500.    523.
GR1555.5   9726.  1549.5   9759.  1544.7   9773.   1542.   9791.  1540.1   9803.
GR1540.1   9895.  1540.1  10000.  1540.1  10062.  1540.6  10074.  1541.3  10093.
GR1542.8  10122.  1542.6  10148.  1542.5  10166.  1544.1  10179.  1546.3  10194.
GR 1549.  10209.  1553.7  10235.  1555.3  10255.  1557.4  10265.  1557.4  10279.
GR1556.2  10282.
QT    2.    900.    900.
ET                  4.1   9975.  10025.
X126.984     32.   9943.  10170.    480.    460.    533.
GR1560.6   9811.  1559.7   9833.  1557.2   9861.  1554.5   9891.  1549.4   9920.
GR1545.5   9943.  1543.8   9953.  1542.3   9968.  1542.1  10000.  1545.1  10012.
GR1540.6  10023.  1540.6  10107.  1540.6  10124.  1541.7  10135.  1540.5  10147.
GR1540.5  10156.  1546.5  10170.  1547.3  10189.  1547.5  10203.  1547.7  10218.
GR1546.7  10231.  1543.5  10241.  1542.8  10256.  1542.3  10271.  1542.3  10282.
GR1544.6  10290.  1543.4  10300.  1543.3  10310.  1544.8  10323.  1545.3  10333.
GR1558.9  10356.  1551.6  10369.
ET                  4.1  9883.7 10013.1
X127.060     33.   9980.  10019.    270.    470.    401.
X3   10.                                                 1565.
GR1566.5   9583.  1559.9   9608.  1557.5   9614.  1557.6   9617.  1560.3   9624.
GR1560.6   9643.  1560.9   9670.  1559.8   9683.  1559.6   9706.   1560.   9720.
GR1559.4   9740.  1559.5   9772.  1560.4   9795.   1560.   9824.  1558.8   9852.
GR1558.7   9879.  1558.9   9895.  1558.5   9911.  1559.2   9940.   1560.   9954.
GR1559.7   9963.  1560.6   9967.  1560.8   9980.  1554.6   9997.  1554.1  10000.
GR1555.1  10005.  1562.6  10019.  1562.2  10040.  1562.1  10056.  1563.4  10068.
GR1565.2  10081.   1566.  10093.  1563.9  10103.
QT    2.    600.    600.
ET                  4.1  9881.1  10020.
X127.166     36.   9977.  10023.    560.    560.    560.
X3   10.                                                 1565.   1565.
GR 1572.   9622.  1572.2   9639.  1571.5   9661.  1569.4   9686.  1568.5   9709.
GR1568.1   9719.  1568.4   9730.  1567.4   9742.  1567.1   9762.  1567.9   9772.
GR1568.8   9787.  1567.6   9811.  1566.7   9830.   1566.   9847.  1562.3   9858.
GR1558.7   9868.  1557.6   9870.  1558.4   9872.  1560.6   9875.  1560.9   9884.
GR1560.9   9911.  1560.8   9943.  1560.7   9955.  1564.2   9963.  1564.2   9977.
GR1555.2   9995.  1555.2  10000.  1555.2  10008.  1563.9  10023.  1563.9  10038.
GR1561.1  10043.  1561.1  10067.  1560.8  10098.  1560.9  10129.  1561.5  10142.
GR1562.8  10146.
*
*       SECTION 27.294 IS NEAR THE DOWNSTREAM OUTLET OF CAVE BUTTE DAM.
*
QT    2.    400.    400.
ET                  4.1   9972. 10022.2
X127.294     26.   9967.  10027.    710.    630.    676.
GR1591.6   9811.  1589.8   9827.  1587.9   9839.  1589.7   9851.  1588.2   9870.
GR1585.6   9883.  1584.2   9888.  1584.4   9900.  1583.9   9914.  1568.3   9948.
GR1565.9   9954.  1565.2   9967.  1558.3   9980.  1557.2   9984.  1556.2   9987.
GR 1556.  10000.   1556.  10007.  1564.6  10027.  1565.6  10037.   1573.  10054.
GR1572.8  10074.  1573.4  10093.   1574.  10112.   1575.  10135.  1575.4  10163.
GR1575.6  10171.
*
*       THE CENTERLINE OF CAVE BUTTE DAM IS AT RM 27.365.
*
*
*       FOLLOWING IS THE TRUBUTARY RUN FOR THE EAST FORK OF CAVE CREEK.
*
*
*       SECTION 19.56  IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST
*       FORK.  THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE
```

```
*       EAST FORK OF CAVE CREEK.  THE CONFLUENCE OCCURS AT RM 19.608
*
NC 0.035   0.035   0.035     0.1     0.3
QT    2.  14600.  14600.
ET                   4.1 9921.37  10061.
X1-19.56     17.   9929.  10065.    730.    720.    729.
GR1346.1   9801.  1329.7   9902.  1329.7   9929.  1316.5   9950.  1316.8   9978.
GR1315.6  10000.  1315.6  10008.  1316.6  10026.  1316.4  10035.  1317.5  10043.
GR1330.6  10065.  1330.8  10099.  1330.5  10146.  1330.2  10195.  1330.9  10208.
GR1331.2  10223.  1332.1  10301.
*
*       SECTION 0.029 IS JUST UPSTREAM OF THE CONFLUENCE WITH CAVE CREEK
*       WASH.  SECTION 19.556 DOWNSTREAM IN THE WASH IS USED TO START THE
*       RUN ON THE EAST FORK.
*
QT    2.   9500.   9500.
NC 0.035   0.035   0.015
ET                   4.1 9942.56 10073.1
X1 0.029     15.   9942.  10043.    380.    450.    430.
GR1336.7   9849.  1332.4   9893.  1329.5   9942.  1326.3   9954.  1326.3   9963.
GR1319.8   9982.  1319.6   9995.  1319.6  10000.  1319.6  10019.  1328.2  10043.
GR 1330.  10090.  1330.3  10128.  1332.4  10166.  1333.1  10216.  1333.1  10217.
NC 0.035   0.035    0.03
ET                   4.1   9905.  10092.
X1 0.112     22.   9887.  10101.    430.    450.    483.
GR1357.6   9597.  1333.1   9743.  1332.6   9804.   1332.   9816.  1331.8   9863.
GR1332.1   9887.  1329.4   9906.  1329.4   9915.  1323.4   9937.  1322.3   9949.
GR1321.5   9985.  1321.6   9999.  1321.6  10000.   1322.  10037.  1323.2  10049.
GR1329.3  10076.  1334.8  10101.  1334.8  10139.  1333.4  10214.  1334.8  10286.
GR1334.5  10320.  1334.5  10321.
ET                   4.1   9910.  10110.
X1 0.198     26.   9897.  10133.    460.    420.    454.
GR1334.8   9569.  1336.5   9570.  1335.1   9591.  1335.7   9694.  1333.8   9754.
GR1333.3   9863.  1332.4   9897.  1329.4   9916.  1325.5   9937.  1323.8   9965.
GR1324.5   9981.  1324.8   9999.  1324.8  10000.  1324.1  10044.  1324.5  10058.
GR1328.8  10085.  1328.8  10093.  1336.3  10122.  1337.8  10133.   1336.  10138.
GR1337.3  10170.  1337.1  10262.   1337.  10356.  1345.1  10370.  1337.1  10382.
GR1336.7  10417.
ET                   4.1   9903.  10054.
X1 0.288     20.   9885.  10069.    470.    460.    475.
GR1338.2   9550.  1337.6   9684.  1336.1   9733.  1336.9   9848.   1336.   9885.
GR1328.9   9933.  1326.6   9954.  1325.9   9978.  1325.7  10000.  1328.5  10026.
GR1335.9  10069.  1335.9  10078.  1336.7  10089.  1336.2  10101.   1338.  10213.
GR1339.6  10443.  1347.3  10459.   1341.  10472.  1341.9  10485.  1339.9  10517.
ET                   4.1   9912.  10094.
X1 0.398     19.   9904.  10119.    600.    540.    581.
GR1340.2   9739.  1340.7   9804.  1339.3   9843.  1338.9   9904.  1330.2   9949.
GR1329.4   9979.  1328.8  10000.  1329.7  10061.  1338.1  10098.  1338.1  10105.
GR1340.6  10119.  1338.4  10126.  1338.6  10168.  1340.5  10175.  1339.9  10190.
GR1339.7  10352.  1339.2  10456.  1339.5  10478.  1339.8  10533.
ET                   4.1   9904.  10175.
X1 0.482     20.   9937.  10024.    440.    270.    444.
GR 1347.   9903.  1341.4   9904.  1341.1   9937.  1337.1   9953.  1333.4   9962.
GR1331.2   9988.  1331.3  10000.  1331.3  10008.   1338.  10024.  1340.8  10093.
GR1340.9  10125.  1341.6  10161.  1340.4  10236.  1341.6  10256.   1340.  10291.
GR1341.1  10315.  1340.9  10402.  1341.5  10528.  1341.5  10640.   1343.  10910.
ET                   4.1   9870.  10080.
X1 0.575     19.   9869.  10049.    460.    500.    491.
GR 1348.   9777.  1342.8   9778.  1340.2   9869.  1337.1   9896.  1341.1   9944.
GR1337.8   9977.  1331.7   9990.  1331.5   9997.  1331.5  10000.   1332.  10011.
GR1338.9  10023.  1343.1  10049.  1342.5  10105.  1343.5  10113.  1342.9  10186.
GR1341.8  10239.   1342.  10274.  1343.2  10411.  1345.4  10755.
QT    2.   9400.   9400.
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```
ET                    4.1   9875.  10035.
X1 0.697     16.    9847.  10023.    640.    640.    644.
GR1346.4   9847.  1345.3   9855.  1338.8   9882.  1338.1   9888.   1339.   9900.
GR1340.4   9912.  1343.4   9919.  1341.4   9921.  1339.9   9950.  1334.9   9967.
GR1334.6  10000.   1334.  10007.  1341.4  10023.  1343.8  10061.  1345.4  10102.
GR1346.4  10237.
NC 0.035   0.035   0.035
ET                    4.1   9880.  10040.
X1 0.826     11.    9929.  10050.    680.    660.    681.
GR1349.5   9815.  1346.4   9893.  1345.5   9929.  1342.7   9969.  1338.8   9974.
GR1338.8   9988.  1338.8  10000.  1339.2  10009.  1349.5  10050.  1350.1  10066.
GR 1351.  10219.
ET                    4.1   9870.  10030.
X1 0.945     20.    9856.  10034.    680.    600.    628.
GR1352.7   9469.  1352.6   9548.  1351.8   9674.  1351.8   9704.   1349.   9769.
GR1349.8   9819.  1349.5   9843.  1348.6   9856.  1345.5   9866.  1346.8   9929.
GR1347.7   9956.  1340.4   9978.  1340.8  10000.  1340.8  10008.  1349.5  10034.
GR1350.1  10046.  1350.1  10100.  1352.8  10215.  1353.4  10254.   1353.  10284.
ET                    4.1   9870.  10030.
X1 1.035     22.    9841.  10022.    440.    460.    475.
GR 1354.   9670.  1350.5   9723.  1352.3   9776.   1352.   9795.  1348.6   9823.
GR1348.4   9832.  1350.8   9841.  1348.1   9844.  1349.2   9871.  1349.4   9908.
GR1345.9   9921.  1348.6   9941.  1348.1   9948.  1343.9   9966.  1343.3   9983.
GR1342.3   9992.  1341.9  10000.  1348.8  10022.  1351.2  10046.  1352.5  10059.
GR1352.4  10100.   1353.  10153.
NC  0.04    0.04    0.04
ET                    4.1   9890.  10050.
X1 1.121     19.    9868.  10069.    480.    440.    454.
GR1355.2   9850.   1355.   9868.  1348.4   9897.  1346.1   9910.  1345.9   9931.
GR1346.4   9955.  1345.1   9966.  1343.6   9994.  1343.6  10000.  1348.1  10015.
GR1348.8  10036.  1350.6  10048.  1351.1  10059.  1353.6  10069.  1354.1  10082.
GR1354.2  10121.   1355.  10134.  1355.1  10173.   1355.  10175.
ET                    4.1   9950.  10110.
X1 1.204     16.    9949.  10043.    430.    450.    438.
GR1355.4   9930.  1355.6   9949.  1348.3   9964.  1348.3   9978.  1344.3   9991.
GR1344.3   9995.  1344.8  10000.  1348.3  10027.  1352.5  10043.  1353.8  10057.
GR1353.7  10072.  1353.5  10098.  1354.2  10165.  1356.1  10178.  1355.8  10262.
GR1356.3  10334.
QT    2.   9100.   9100.
ET                    4.1   9905.  10060.
X1 1.315     17.    9904.  10074.    720.    700.    734.
GR1359.7   9904.  1352.7   9916.  1350.3   9931.  1348.8  10000.  1351.1  10012.
GR1351.6  10028.  1353.4  10043.  1353.4  10056.  1356.5  10064.   1359.  10074.
GR1357.8  10085.   1358.  10091.   1358.  10130.   1352.  10150.   1352.  10170.
GR 1358.  10230.   1360.  10240.
NC 0.035   0.035   0.025
ET                    4.1   9895.  10085.
X1 1.420      9.    9895.  10085.    380.    420.    407.
GR 1364.   9860.   1362.   9870.   1360.   9895.   1356.   9910.  1354.9  10000.
GR 1356.  10070.   1360.  10085.   1362.  10100.   1364.  10120.
EJ
T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          FLOODWAY        J.MISCHLER
J1            3.                                                  1284.69
J2   15.              -1.
ER
```

```
1*****************************************
 *  HEC-2 WATER SURFACE PROFILES          *
 *                                        *
 *  Version   4.6.2;  May 1991            *
 *                                        *
 *  RUN DATE    17APR06    TIME   15:20:18 *
 *****************************************
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*****************************************
*  U.S. ARMY CORPS OF ENGINEERS         *
*  HYDROLOGIC ENGINEERING CENTER        *
*  609 SECOND STREET, SUITE D           *
*  DAVIS, CALIFORNIA 95616-4687         *
*          (916) 756-1104               *
*****************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
```

1

17APR06 15:20:18 PAGE 1

THIS RUN EXECUTED 17APR06 15:20:18

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*************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
*************************************
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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA CO. 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH         NATURAL 100-YR  J. MISCHLER

        CAVE BUTTE DAM CONTROLS DISCHARGES UP TO THE 100 YEAR FLOOD.
        ABOVE THE 100 YEAR FLOOD, THE EMERGENCY SPILLWAY WILL PASS FLOWS.
        AS THE EFFORT TO COMPUTE 500 YEAR HYDROLOGY (WHICH WOULD REQUIRE
        ANALYSIS OF THE ENTIRE WATERSHED ABOVE THE DAM) IS NOT JUSTIFIED
        BY THE VALUE OF 500 YEAR FLOODPLAIN INFORMATION, THE FLOOD CONTROL
        DISTRICT HAS BEEN GRANTED PERMISSION BY FEMA TO DELETE THE 500 YEAR
        FLOOD FROM THE RESTUDY OF CAVE CREEK WASH.  ONLY THE WATERSHED BELOW
        THE DAM HAS BEEN CONSIDERED FOR HYDROLOGIC COMPUTATIONS OF THE 10, 50,
        AND 100 YEAR FLOODS.


        FLOODWAY RUN FROM SEDIMENT BASIN TO CAVE BUTTE DAM.

        FOR SECTIONS 15.310 TO 16.971, REFER TO A SEPARATE SUPERCRITICAL
        RUN FOR THE CORPS OF ENGINEERS' CONCRETE LINED CHANNEL. (NATURAL PROF)

        FLOW IS WITHIN THE CORPS OF ENGINEER'S CHANNEL, SEDIMENT BASIN, OR
        BROAD CRESTED WEIR INLET FROM RM15.015 TO 17.492, THEREFORE NO FLOODWAY
        IS RUN FOR THIS REACH.


        FILE LAST MODIFIED 1/26/90

        MODIFIED 4/1/2006 BY ASPEN CONSULTING ENGINEERS.
        4/1/2006 MODIFICATION CONSISTS OF ENCROACHMENT STATIONS AT PROPOSED
        CITY OF PHOENIX FILL AT CROSS SECTIONS 22.410, 22.483, AND 22.578
```

```
J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ
              2.                                                                  1283.69
J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE
     1.                 -1.                                                                    15.

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    38.       42.       1.        53.       54.       4.        8.        43.       10.       51.
1
   17APR06    15:20:18                                                                                    PAGE    2

    46.       40.       41.                 110.                200.

QT      2.    15400.    15400.
NC    0.04      0.04      0.04       0.1       0.3

        BEGIN ENCROACHMENTS UPSTREAM OF THE SEDIMENT BASIN

ET                        10.41
X1   17.588       25.     9982.    10193.      440.      560.      496.
GR   1291.4     9666.    1290.3     9746.    1275.6     9817.    1275.2     9835.    1273.5     9854.
GR   1277.8     9873.    1279.7     9889.    1277.3     9896.    1278.2     9909.    1281.6     9922.
GR   1281.9     9939.    1282.2     9964.    1278.1     9982.    1269.6     9992.    1270.6    10000.
GR   1270.9    10009.    1272.6    10014.    1273.6    10039.    1273.6    10079.    1271.2    10144.
GR   1271.2    10170.    1276.4    10193.    1290.5    10264.    1291.3    10328.     1291.    10495.

ET                          4.1     9900.    10150.
X1   17.662       23.     9941.    10130.      380.      400.      391.
GR   1293.1     9731.    1293.1     9781.    1291.6     9791.    1282.7     9835.    1278.1     9844.
GR   1279.2     9871.    1277.3     9911.    1276.4     9941.    1272.5     9986.    1271.6    10000.
GR   1274.6    10016.    1277.5    10033.    1278.8    10063.    1278.9    10086.    1276.8    10099.
GR   1275.7    10111.    1281.6    10130.    1285.2    10161.    1293.1    10208.     1294.    10221.
GR   1293.7    10281.     1294.    10400.    1294.5    10432.

ET                        10.41
X1   17.783       18.     9921.    10064.      540.      500.      639.
GR   1295.2     9812.     1294.     9837.    1291.3     9861.    1286.9     9895.    1280.5     9921.
GR   1276.8     9938.    1278.3     9954.    1277.6     9973.    1275.4    10000.    1276.3    10019.
GR   1277.4    10033.    1277.7    10045.    1281.1    10064.    1281.3    10074.    1284.6    10097.
GR   1289.8    10122.    1291.5    10143.    1291.9    10153.

X1   17.932       23.     9956.    10066.      790.      780.      787.
GR   1294.8     9675.    1294.7     9732.    1295.5     9750.    1293.6     9766.    1297.5     9792.
GR   1297.5     9837.    1298.3     9869.    1291.9     9896.    1289.7     9956.    1283.6     9966.
GR   1283.5     9971.    1277.9     9986.    1278.2    10000.    1278.2    10006.    1279.5    10008.
GR   1279.9    10022.    1280.2    10032.    1285.5    10054.    1290.2    10066.    1290.6    10083.
GR   1298.5    10131.    1299.7    10159.    1299.7    10193.

        THUNDERBIRD ROAD BRIDGE - ALTHOUGH THE ROAD IS LOWEST IN THE RIGHT
        OVERBANK, HIGH BANKS UPSTREAM PREVENT THIS AREA FROM BECOMING EFFECTIVE,
        THEREFORE, ONLY THE BRIDGE OPENING IS CONSIDERED ON THE GR CARDS AND
        ONLY THE BRIDGE LENGTH IS CONSIDERED FOR THE BT CARDS.  ENDS OF THE
        SECTIONS ARE ARTIFICIALLY EXTENDED.  BT'S ARE RAISED 0.5' FROM CENTER-
        LINE OF ROAD ELEVATIONS AT THE BRIDGE. TO ACCOUNT FOR THE RAILING.

                    4.1   9951.  10049.

NC    0.035     0.035     0.025       0.3       0.5
X1   18.042        8.     9951.    10049.      620.      550.      581.                  2.4
GR    1305.     9951.    1283.4     9952.    1282.9     9979.    1279.9     9980.    1279.9    10020.
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GR   1281.      10021.     1284.2     10048.       1305.      10049.
1
   17APR06      15:20:18                                                                                    PAGE    3


SB     1.05       1.56        3.                     75.         4.       1059.       0.81      1280.2      1279.9
NC     0.03       0.03      0.025
                    4.11    9951.  10049.
X1   18.061                                          101.       101.       101.                    0.8

        ELTRD IS 1298.4+3.2HV =  1301.6

X2                              1.     1293.2      1301.6
BT       4.      9951.      1305.         0.       9952.     1298.4         0.      10048.     1298.4         0.
BT   10049.      1305.         0.

NC    0.035      0.035      0.035
ET                             4.1      9900.      10085.
X1   18.081        11.      9942.     10045.         80.       130.       106.
GR   1300.5      9819.     1300.2      9866.      1298.2      9899.     1286.6      9942.     1282.7      9960.
GR   1281.4     10000.     1281.1     10008.      1282.7     10030.     1284.9     10045.     1297.3     10088.
GR   1300.2     10112.

NC                                 0.1         0.3
ET                             4.1      9857.      10125.
X1   18.174        29.      9919.     10073.        500.       490.       491.
GR   1303.6      9673.     1304.6      9713.      1307.3      9757.     1302.5      9801.      1302.      9850.
GR    1288.      9904.     1287.3      9915.      1288.7      9919.      1284.      9927.     1283.5      9956.
GR   1282.6      9975.     1283.5      9985.      1281.8      9992.     1281.7     10000.      1282.     10006.
GR   1282.3     10011.     1282.7     10020.      1294.6     10073.      1297.     10093.     1296.2     10113.
GR   1293.7     10142.     1293.7     10182.      1296.8     10236.     1299.3     10270.     1298.9     10295.
GR    1298.     10340.     1299.8     10364.       1298.     10396.     1301.1     10478.

ET                             4.1     9882.2      10110.
X1   18.269        12.      9942.     10060.        500.       500.       502.
GR   1303.8      9868.     1288.1      9928.      1288.4      9942.     1285.3      9952.     1283.8      9979.
GR   1283.8     10000.     1283.8     10010.      1285.6     10023.     1292.4     10060.      1294.     10071.
GR   1303.2     10130.     1303.7     10144.

ET                             4.1     9895.6     10107.8
X1   18.362        20.      9942.     10060.        490.       510.       491.
GR   1315.5      9728.     1315.4      9758.      1315.8      9780.     1310.6      9807.     1307.1      9862.
GR   1298.6      9905.      1290.      9942.      1287.8      9952.      1288.      9967.     1286.1      9971.
GR   1285.3     10000.     1286.8     10022.      1286.8     10036.     1290.6     10060.     1303.8     10124.
GR   1307.7     10151.     1307.5     10169.      1306.8     10183.     1308.1     10240.     1308.8     10283.

        DOWNSTREAM GOLF CART CROSSING ON A SINGLE 78" CMP WITH PROTRUDING
        ENDS AND EMBANKMENT SLOPES  (NO WINGWALLS).

ET                             4.1      9885.      10110.
X1   18.445        13.      9992.     10005.        470.       460.       440.
X3      10.                                                                          1297.      1297.
GR   1315.1      9796.     1306.2      9880.      1300.      9920.     1299.5      9978.      1290.      9992.
GR   1287.3     10000.      1290.     10005.      1300.     10040.      1302.     10060.      1303.     10097.
GR    1305.     10200.     1305.6     10310.      1309.4     10330.
1
   17APR06      15:20:18                                                                                    PAGE    4


SB      0.9       2.34        3.0         0.        6.11         1.0       33.2         0.     1287.7      1287.4
ET                            4.11      9885.      10110.
X1   18.456                                           60.        60.        60.                    0.4

        ELTRD IS 1198.8+0.7HV = 1199.5
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X2                                1.     1294.2     1299.5
X3      10.                                                          1298.8     1298.8
BT      10.      9796.     1315.5        0.      9880.     1306.6        0.      9928.     1301.9        0.
BT    9991.     1299.1        0.    10000.     1298.8        0.    10046.     1301.9        0.    10097.
BT  1303.4         0.    10200.     1305.4        0.    10310.     1306.        0.    10330.     1309.8
BT      0.

ET                                4.1     9881.4    10169.8
X1  18.545        21.      9951.    10058.      440.      480.      466.
GR  1324.2      9716.     1323.1     9748.     1324.4     9765.     1321.9     9790.     1318.3     9810.
GR   1317.      9839.     1306.7     9889.     1294.1     9951.     1291.5     9972.     1289.3     9993.
GR  1289.7     10000.     1289.7    10018.     1290.5    10040.     1293.8    10058.     1298.8    10073.
GR  1299.8     10094.     1303.4    10108.     1303.9    10121.      1303.    10135.     1310.1    10182.
GR  1310.2     10194.
```

UPSTREAM GOLF CART CROSSING ON 2 - 72" RCP WITH FLUSH INLETS AND
45 DEGREE WINGWALLS.

```
ET                                4.1     9880.7    10170.8
X1  18.575        21.      9972.    10000.      160.      160.      160.
X3      10.                                                          1297.      1297.
GR  1324.2      9716.     1323.1     9748.     1324.4     9765.     1321.9     9790.     1318.3     9810.
GR   1317.      9839.     1306.7     9889.     1294.1     9951.     1291.5     9972.     1289.3     9993.
GR  1289.7     10000.     1289.7    10018.     1290.5    10040.     1293.8    10058.     1298.8    10073.
GR  1299.8     10094.     1303.4    10108.     1303.9    10121.      1303.    10135.     1310.1    10182.
GR  1310.2     10194.

SB    1.25       1.56       3.0        0.       10.4       1.0      56.5        0.     1289.4     1289.3
ET                               4.11     9876.1    10177.2
X1  18.583                                    40.       40.       40.                    0.1
```

ELTRD IS 1298.4+0.6HV = 1299.0

```
X2                                1.     1295.4     1299.
X3      10.                                                          1298.4     1298.4
BT       9.      9880.     1310.        0.      9965.     1300.        0.     10000.     1298.4        0.
BT   10037.      1300.        0.    10065.     1302.        0.    10085.      1304.        0.    10122.
BT    1306.         0.    10160.     1308.        0.    10170.     1310.        0.

ET                                4.1     9879.6    10134.7
X1  18.640        17.      9955.    10033.      300.      310.      301.
GR  1322.5      9707.     1323.7     9729.     1320.1     9768.     1313.8     9827.     1312.3     9858.
GR  1308.4      9887.     1302.6     9920.     1294.6     9955.     1292.8     9966.     1290.2     9993.
GR  1291.5     10000.     1291.8    10009.     1293.4    10033.     1307.8    10111.      1309.    10132.
GR  1312.1     10153.     1313.2    10167.
```



```
ET                                4.1     9883.2    10111.7
X1  18.734        19.      9938.    10062.      490.      500.      496.
GR  1320.7      9713.     1316.3     9762.     1316.6     9809.     1319.2     9819.     1317.9     9841.
GR  1308.7      9888.     1298.6     9938.     1293.4     9971.     1294.2     9981.     1292.4     9992.
GR  1294.5     10000.     1294.4    10025.     1300.8    10062.      1309.    10094.     1307.6    10104.
GR  1312.9     10124.      1314.    10143.     1317.1    10178.     1319.9    10201.

ET                                4.1     9891.8    10107.
X1  18.832        21.      9929.    10046.      480.      540.      517.
GR  1326.2      9779.     1328.     9788.     1320.6     9826.      1316.     9853.     1312.5     9880.
GR  1302.8      9929.     1296.1     9960.     1293.5     9982.     1293.2    10000.     1293.2    10005.
GR  1294.8     10008.     1295.5    10027.     1297.1    10046.     1307.7    10095.     1314.1    10128.
GR  1314.1     10141.     1317.1    10187.     1320.3    10221.     1319.9    10247.     1318.6    10271.
GR  1319.2     10278.
```

```
ET                                4.1     9887.7    10087.5
X1   18.925       14.       9941.     10048.       480.       500.       491.
GR   1329.1     9741.     1315.9      9866.     1297.6      9941.     1297.3      9960.     1295.3      9989.
GR    1295.    10000.     1296.1     10006.     1295.4     10022.     1294.6     10025.     1296.3     10034.
GR    1300.    10048.     1310.5     10087.     1320.1     10132.     1321.3     10161.

ET                                4.1     9866.3    10038.5
X1   19.018       20.       9903.     10030.       460.       520.       491.
GR    1331.     9681.     1321.2      9775.     1313.9      9847.     1305.1      9903.     1298.1      9930.
GR    1298.     9948.     1298.1      9957.     1297.6      9974.      1299.     10000.     1308.4     10030.
GR   1325.3    10088.      1327.     10101.     1325.5     10109.     1330.2     10118.     1330.9     10124.
GR    1327.    10145.     1326.8     10211.     1328.8     10218.     1332.6     10260.     1331.8     10268.

ET                                4.1     9942.1    10061.9
X1   19.117       10.       9973.     10026.       490.       560.       523.
GR   1333.9     9803.     1331.8      9872.      1323.      9908.     1302.9      9973.     1299.2      9997.
GR   1298.7    10000.     1298.6     10010.     1301.5     10026.     1328.9     10116.      1333.     10144.

ET                                4.1     9923.1    10081.
X1   19.210       16.       9945.     10060.       500.       490.       491.
GR   1333.2     9669.     1330.6      9853.     1328.7      9874.      1312.      9945.      1310.      9954.
GR   1303.8     9978.     1301.4      9991.     1300.2     10000.     1301.3     10010.     1303.4     10026.
GR    1312.    10060.     1321.3     10098.      1327.     10127.     1332.5     10166.     1335.3     10191.
GR   1335.6    10192.

        19TH AVENUE  (SPECIAL BRIDGE)

NC                                      0.3        0.5
QT       2.    14600.    14600.
X1   19.283       12.       9948.     10057.       390.       390.       386.                   11.2
X3      10.                                                                        1324.      1324.
GR   1333.2     9669.     1330.6      9853.     1328.7      9874.      1312.      9945.     1300.5      9948.
GR   1300.5    10057.      1312.     10060.     1321.3     10098.      1327.     10127.     1332.5     10166.
GR   1335.3    10191.     1335.6     10192.
1
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SB       0.9      1.56        3.                  109.        4.5      1304.        0.     1311.7     1311.7
X1   19.299                                        86.         86.        86.

        ELTRD IS 1324.5+2HV = 1326.5

X2                                1.     1324.2     1326.5
X3      10.                                                                        1325.      1325.
BT       6.     9500.      1326.        0.      9650.     1324.5         0.      9855.     1325.3         0.
BT   10000.    1325.7         0.     10275.     1324.9         0.     10460.     1326.         0.

ET                              10.41
X1   19.313       20.       9932.     10112.        75.        75.        74.
GR    1329.     9853.     1326.7      9859.     1327.6      9866.     1327.9      9932.     1314.5      9968.
GR   1312.2     9980.     1311.7      9988.     1313.1      9996.     1313.1     10000.     1313.4     10017.
GR    1312.    10029.     1313.7     10044.     1311.7     10054.     1313.7     10069.     1325.5     10112.
GR   1325.4    10137.     1324.3     10180.     1324.9     10219.     1325.2     10325.     1326.6     10464.

NC                                    0.1        0.3
X1   19.418       19.       9948.     10120.       570.       530.       554.
GR   1330.8     9898.     1328.8      9902.     1330.6      9910.     1330.2      9938.      1328.      9948.
GR   1313.1     9992.     1313.1     10000.      1313.     10004.     1316.1     10022.     1314.6     10058.
GR   1315.5    10076.     1320.1     10094.     1326.1     10120.     1327.6     10138.     1327.5     10186.
GR   1326.2    10276.      1327.     10322.     1328.3     10376.     1328.6     10401.

        SECTION 19.56  IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST
        FORK.  THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE
        EAST FORK OF CAVE CREEK.  THE CONFLUENCE OCCURS AT RM 19.608
```

```
X1    19.56       17.     9929.    10065.      730.      720.      729.
GR   1346.1     9801.    1329.7     9902.    1329.7     9929.    1316.5     9950.    1316.8     9978.
GR   1315.6    10000.    1315.6    10008.    1316.6    10026.    1316.4    10035.    1317.5    10043.
GR   1330.6    10065.    1330.8    10099.    1330.5    10146.    1330.2    10195.    1330.9    10208.
GR   1331.2    10223.    1332.1    10301.
```

GREENWAY BRIDGE (SPECIAL BRIDGE). LARGE SKEW ACCOUNTED FOR PRIOR TO DATA INPUT BY ADJUSTING BWC ETC. DUE TO COMPLEX CHANNEL GEOMETRY DOWNSTREAM AT THE CONFLUENCE WITH THE EAST FORK, IT WAS MOST APPROPRIATE TO USE THE UPSTREAM SECTION, REPEATED AT THE DOWNSTREAM FACE. GR CARDS FROM SECTION 19.742 ARE REPEATED FOR 19.625 WITH PSXECE = -1.7

```
QT       2.     5700.     5700.
NC   0.035     0.035     0.015       0.3       0.5
X1  19.625       11.     9965.    10025.      580.       70.      364.                  -1.7
X3      10.                                                                   1332.     1332.
GR   1335.7     9834.    1335.1     9893.    1333.4     9922.    1331.8     9937.    1331.6     9948.
GR   1319.3     9965.    1319.3    10025.     1331.    10042.    1339.2    10055.    1337.7    10060.
GR   1338.8    10100.
```



```
SB    1.05      1.56        3.       100.       60.        2.      564.         0.    1318.6    1317.6
X1  19.691                                     330.      430.      350.                    1.0
```

ELTRD IS 1332.8+2HV = 1334.8

```
X2                            1.    1328.3    1334.8
X3      10.                                                                   1333.     1333.
ET                            4.1     9953.    10038.
X1  19.742       13.     9948.    10042.       80.      470.      269.
GR   1335.7     9834.    1335.1     9893.    1333.4     9922.    1331.8     9937.    1331.6     9948.
GR   1319.1     9967.    1319.2    10000.    1319.7    10017.    1319.7    10027.     1331.    10042.
GR   1339.2    10055.    1337.7    10060.    1338.8    10100.
NC   0.035     0.035     0.035       0.1       0.3
ET                            4.1     9957.    10043.
X1  19.847       22.     9929.    10062.      570.      520.      554.
GR   1339.8     9621.    1338.7     9726.    1341.6     9738.    1338.8     9759.     1339.     9806.
GR   1337.7     9915.    1336.1     9921.    1336.3     9929.    1320.2     9974.    1318.8     9989.
GR   1320.8    10000.    1320.5    10017.    1321.3    10023.    1328.8    10040.    1335.8    10062.
GR   1336.1    10070.    1336.6    10084.    1335.8    10150.     1336.    10160.    1338.3    10175.
GR   1339.2    10195.    1339.2    10198.
ET                            4.1     9958.    10031.
X1  19.960       24.     9958.    10031.      640.      560.      597.
GR   1340.4     9544.    1339.1     9638.    1336.7     9736.    1337.2     9768.    1338.2     9807.
GR   1338.9     9836.    1338.4     9908.    1340.1     9911.    1337.7     9917.    1339.1     9924.
GR   1337.2     9935.     1330.     9958.    1327.8     9964.    1326.1     9977.    1324.6     9990.
GR   1324.7    10000.    1326.1    10008.    1326.8    10023.     1330.    10031.    1340.6    10059.
GR   1340.8    10072.    1340.7    10099.    1340.1    10194.    1339.9    10251.
```

TIERRA BUENA (SPECIAL BRIDGE)

DUE TO HIGHER DEPTHS THAN ANTICIPATED, XNCH HAS BEEN REDUCED FROM 0.04 (PER MANNINGS n VALUE REPORT) TO 0.035 BETWEEN GREENWAY ROAD AND UNION HILLS DRIVE

```
NC   0.04      0.04     0.035       0.3       0.5
```

```
ET                          4.1      9969.     10020.
X1   19.974       10.      9969.     10020.       105.       65.        74.
X3      10.                                                          1336.      1336.
GR   1340.1     9911.    1337.7      9917.    1339.1     9924.    1337.2     9935.     1330.     9958.
GR   1323.8     9969.    1323.8     10020.     1330.    10031.    1340.6    10059.    1340.8    10072.

SB     1.25     1.56        3.                   51.        3.       480.        0.    1324.1    1323.8
ET                          4.11      9969.     10020.
X1   19.986                                      61.       61.        61.

        ELTRD IS 1336.9+1HV = 1337.9

X2                           1.     1334.1     1337.9
1
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X3      10.                                                          1337.      1337.
BT       3.     9560.     1340.        0.     10000.    1336.9        0.    10230.     1340.        0.

ET                          4.1      9975.     10025.
X1   20.049       37.      9954.     10027.       305.      345.       333.
X3      10.                                                          1340.
GR   1344.7     9266.    1345.2      9300.    1342.4     9304.    1340.8     9328.    1332.6     9344.
GR   1333.1     9400.    1333.3      9490.     1334.     9563.    1334.8     9606.    1333.2     9728.
GR    1335.     9767.    1331.4      9805.     1331.     9820.    1331.5     9854.    1331.5     9901.
GR   1332.1     9920.    1341.1      9938.    1340.5     9950.    1343.4     9954.    1339.8     9969.
GR   1327.4     9991.    1327.1      9997.    1327.1    10000.    1328.4    10008.    1339.4    10027.
GR    1340.    10047.    1342.3     10075.    1342.4    10097.    1340.2    10114.    1342.3    10131.
GR    1343.    10142.    1341.5     10162.    1342.7    10175.    1342.9    10210.    1343.3    10307.
GR   1342.5    10378.     1343.     10477.

NC                                     0.1       0.3
ET                          4.1      9972.     10029.
X1   20.144       38.      9955.     10025.       490.      500.       502.
X3      10.                                                          1344.
GR   1346.6     9136.    1347.4      9206.    1348.2     9208.    1348.4     9215.    1347.1     9235.
GR   1342.5     9239.    1341.7      9258.    1334.6     9278.     1332.     9297.    1332.6     9357.
GR   1333.7     9417.    1333.1      9457.    1334.1     9479.    1334.9     9499.    1335.3     9554.
GR   1334.4     9582.    1335.7      9631.    1335.6     9698.    1336.1     9745.    1334.6     9779.
GR   1329.6     9788.    1330.5      9820.    1329.4     9847.    1328.5     9881.    1328.5     9912.
GR   1341.6     9931.    1343.1      9951.    1344.6     9955.     1342.     9968.    1330.9     9986.
GR   1330.9    10000.    1330.9     10010.    1340.8    10025.    1342.2    10040.    1345.9    10053.
GR   1346.5    10073.     1347.     10128.     1347.    10198.

ET                          4.1      9964.     10035.
X1   20.242       32.      9953.     10029.       470.      560.       517.
X3      10.                                                          1348.
GR   1346.6     9200.    1347.9      9269.    1348.7     9271.    1348.7     9277.    1346.6     9330.
GR   1347.7     9377.    1342.3      9383.    1342.7     9400.    1332.4     9422.    1333.6     9470.
GR   1333.7     9529.    1334.9      9573.    1334.2     9626.    1334.9     9648.    1335.1     9651.
GR    1336.     9785.     1336.      9842.    1338.6     9846.    1339.3     9895.    1339.2     9935.
GR   1347.2     9953.    1343.7      9970.    1333.3     9988.    1333.7    10000.    1333.5    10012.
GR   1342.8    10029.    1343.2     10041.    1348.3    10061.    1349.2    10076.    1349.9    10107.
GR   1350.1    10201.    1350.3     10202.

ET                          4.1      9963.     10036.
X1   20.335       27.      9958.     10032.       510.      470.       491.
GR   1349.5     9230.    1351.4      9312.    1349.1     9322.    1350.7     9340.     1351.     9476.
GR   1351.2     9592.    1350.4      9726.    1350.1     9808.    1351.1     9820.    1351.4     9850.
GR   1351.8     9928.    1347.7      9950.     1344.     9958.    1337.7     9971.    1337.3     9987.
GR   1337.4    10000.    1338.3     10021.     1344.    10032.     1349.    10042.    1351.8    10056.
GR   1351.1    10100.    1351.6     10141.     1350.    10144.     1350.    10166.     1350.    10240.
GR   1350.8    10328.    1351.4     10406.

        11TH AVENUE  (SPECIAL BRIDGE)
```

```
NC                                      0.3       0.5
X1   20.347       25.     9970.    10021.        1.       150.       63.
X3      10.                                                        1351.5     1351.5
GR   1349.5     9230.    1351.4     9312.    1349.1     9322.    1350.7     9340.      1351.      9476.
GR   1351.2     9592.    1350.4     9726.    1350.1     9808.    1351.1     9820.     1351.4      9850.
GR   1351.8     9928.    1347.7     9950.     1344.     9958.    1337.2     9970.     1337.2     10021.
GR    1344.    10032.     1349.    10042.    1351.8    10056.    1351.1    10100.     1351.6     10141.
GR    1350.    10144.     1350.    10166.     1350.    10240.    1350.8    10328.     1351.4     10406.

SB     1.25      1.56       3.0      100.       51.        3.       576.        0.     1337.7     1337.2
X1   20.366                                    100.      100.       100.

        ELTRD IS 1352.5+2HV = 1354.5

X2                          1.     1349.7    1354.5
X3      10.                                                        1352.5     1352.5

ET                          4.1     9958.    10072.
X1   20.423       21.     9975.    10045.     415.       205.       301.
GR   1354.3     9418.    1353.8     9613.    1355.3     9653.    1354.6     9696.     1353.3      9711.
GR   1353.6     9724.    1353.5     9931.     1352.     9950.     1345.     9975.      1338.     10000.
GR   1339.4    10027.    1339.7    10037.    1344.3    10045.     1345.    10055.     1353.3     10085.
GR   1353.5    10100.    1354.7    10127.    1354.4    10214.    1354.3    10273.     1353.3     10300.
GR   1353.5    10333.

        10TH AVENUE  (SPECIAL BRIDGE)

X1   20.430       20.     9985.    10036.        1.        65.        37.
X3      10.                                                        1352.5     1352.5
GR   1354.3     9418.    1353.8     9613.    1355.3     9653.    1354.6     9696.     1353.3      9711.
GR   1353.6     9724.    1353.5     9931.     1352.     9950.     1345.     9975.     1339.3      9985.
GR   1339.3    10036.    1344.3    10045.     1345.    10055.    1353.3    10085.     1353.5     10100.
GR   1354.7    10127.    1354.4    10214.    1354.3    10273.    1353.3    10300.     1353.5     10333.

SB     1.25      1.56       3.0      100.       51.        3.       576.        0.     1339.3     1339.3
X1   20.444                                     70.       70.        70.

        ELTRD IS 1353.5+2HV = 1355.5

X2                          1.     1351.3    1355.5
X3      10.                                                        1353.5     1353.5

ET                          4.1     9930.    10069.
X1   20.529       19.     9947.    10055.     545.       375.       449.
GR    1354.     9570.    1353.7     9764.    1354.8     9836.     1355.     9885.      1354.7      9898.
GR   1350.7     9910.    1350.2     9947.    1343.4     9963.    1343.4     9990.     1343.3     10000.
GR    1343.    10025.    1348.6    10041.    1350.4    10055.    1350.8    10090.      1355.     10105.
GR   1354.4    10159.     1355.    10192.     1355.    10302.    1355.2    10313.
```



```
NC                                      0.1       0.3
ET                          4.1     9935.    10065.
X1   20.628       16.     9909.    10076.     530.       520.       523.
GR   1357.3     9532.    1357.3     9624.    1356.8     9754.    1357.2     9808.     1357.1      9909.
GR   1351.5     9922.    1350.2     9947.    1343.3     9959.    1343.6     9991.     1343.6     10000.
GR   1343.7    10044.    1356.3    10076.     1357.    10082.    1357.1    10137.     1357.2     10282.
GR    1358.    10337.
```

```
ET                                  4.1      9962.     10026.
X1   20.725       20.      9951.    10036.       510.       520.       512.
GR   1360.3     9544.     1361.1     9631.    1361.3      9734.      1361.     9783.     1362.     9858.
GR   1360.8     9940.     1360.4     9951.    1350.4      9970.    1350.4     9981.    1348.3     9984.
GR   1347.4     9992.     1347.2    10000.    1347.4     10010.      1361.    10036.    1363.4    10046.
GR   1363.8    10101.     1364.1    10156.    1364.7     10184.    1365.1    10212.    1364.7    10291.

        PHELPS ROAD  (SPECIAL BRIDGE)

NC                                     0.3       0.5
X1   20.737       16.      9968.    10019.        80.        80.        80.                  3.4
X3      10.                                                                      1363.     1363.
GR   1360.3     9544.     1361.1     9631.    1361.3      9734.      1361.     9783.     1362.     9858.
GR   1360.8     9940.     1360.4     9951.    1347.5      9968.    1347.5    10019.     1361.    10036.
GR   1363.4    10046.     1363.8    10101.    1364.1     10156.    1364.7    10184.    1365.1    10212.
GR   1364.7    10291.

SB     1.25     1.56        3.0       100.       51.         3.       576.        0.    1351.0    1350.9
X1   20.750                                       71.        71.        71.                  0.1

        ELTRD IS 1364+2HV = 1366.0

X2                                  1.      1363.      1366.
X3      10.                                                                      1364.     1364.

        BELL ROAD  (SPECIAL BRIDGE)  A SECTION TAKEN UPSTREAM OF BELL ROAD AT
        RM 20.845 IS USED TO MODEL THE BELL ROAD BRIDGE.  GR CARDS ARE REPEATED
        AT THE DOWNSTREAM FACE WITH PSXECE = -0.9.  TO MORE APPROPRIATELY MODEL
        CONTRACTION LOSSES, THE UPSTREAM SECTION IS PRESENTED AT RM 20.860
        INSTEAD OF RM 20.845 WHERE THE AERIAL SECTION WAS TAKEN.

X1   20.819       12.      9965.    10043.       375.       345.       365.                 -0.9
X3      10.                                                                      1366.9    1366.9
GR   1366.5     9554.     1365.4     9663.    1365.5      9777.    1365.5     9846.    1365.3     9942.
GR   1357.4     9965.     1357.4    10043.    1367.6     10066.    1366.2    10107.    1366.2    10146.
GR    1367.    10166.     1367.2    10169.

SB     1.05     1.56        3.0       100.       77.3        3.3       655.        0.    1357.4    1356.5
X1   20.841                                      115.       115.       115.                  0.9

        ELTRD IS 1367.9+2HV = 1369.9

X2                                  1.      1365.4      1369.9
1
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X3      10.                                                                      1367.9    1367.9

ET                                  4.1      9904.     10060.
X1   20.860       14.      9942.    10066.        90.       110.       100.
X3      10.                                                                      1365.3    1367.6
GR    1370.     9800.     1365.5     9801.    1365.5      9846.    1365.3     9942.    1357.8     9975.
GR   1356.3     9991.     1356.4    10000.    1357.2     10015.      1357.    10040.    1367.6    10066.
GR   1366.2    10107.     1366.2    10146.     1367.     10166.    1367.2    10169.

NC     0.04    0.035       0.035       0.1       0.3
ET                                  4.1      9860.     10110.
X1   20.942       26.      9854.    10024.       530.       490.       433.
GR   1372.5     9619.     1367.2     9630.    1368.7      9643.    1369.8     9663.    1369.4     9719.
GR   1367.6     9792.     1367.6     9836.    1368.6      9854.    1360.2     9867.    1359.8     9879.
GR   1359.8     9891.     1364.6     9904.    1365.2      9942.    1363.7     9970.     1366.     9977.
GR   1360.3     9998.     1359.6    10000.    1366.5     10024.    1364.7    10027.    1364.5    10053.
GR   1365.7    10070.     1364.5    10114.    1361.6     10153.    1368.3    10171.    1368.3    10194.
GR   1368.3    10204.
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NC      0.04       0.04      0.035
ET                            4.1      9810.     10060.
X1    21.036        19.      9912.     10020.       490.       490.       496.
GR    1376.1      9530.      1372.      9541.      1372.      9561.     1371.3      9665.     1371.9      9728.
GR    1371.6      9758.    1370.9      9867.    1370.7      9912.     1367.3      9917.     1367.5      9952.
GR    1366.3      9980.    1363.5      9994.    1363.6     10000.     1364.3     10009.     1370.4     10020.
GR    1371.2     10041.    1371.2     10075.    1371.8     10089.      1378.     10090.

ET                            4.1      9900.     10060.
X1    21.127        13.      9974.     10067.       400.       500.       480.
X3       10.                                                                      1374.
GR    1378.9      9623.    1373.6      9634.    1373.6      9666.     1373.4      9759.     1373.5      9860.
GR    1373.7      9913.    1374.2      9974.    1366.9      9990.     1366.7     10000.     1367.5     10015.
GR    1367.8     10039.     1375.     10067.     1375.     10077.

ET                            4.1      9900.     10125.
X1    21.230        28.      9967.     10048.       560.       500.       544.
GR    1381.5      9741.    1381.5      9764.    1381.5      9786.     1380.7      9813.     1379.3      9835.
GR    1379.3      9852.    1379.9      9862.    1378.2      9870.     1379.8      9879.     1378.9      9891.
GR    1379.5      9916.    1379.6      9930.    1378.9      9944.     1379.2      9955.     1379.3      9967.
GR    1374.7      9982.    1372.4      9992.     1372.     10000.     1373.2     10014.     1375.6     10023.
GR    1379.3     10037.    1380.6     10048.     1378.     10062.     1377.5     10083.     1377.4     10102.
GR    1377.7     10117.    1377.8     10126.     1385.     10127.

ET                            4.1      9930.     10130.
X1    21.363        55.      9928.     10088.       740.       700.       702.
GR    1384.8      9135.    1384.7      9160.    1383.9      9189.     1384.6      9215.     1383.9      9245.
GR    1384.4      9279.    1383.8      9313.     1384.      9345.     1384.1      9374.     1383.8      9405.
GR    1383.5      9428.    1384.5      9459.     1385.      9498.     1384.7      9527.      1385.      9549.
GR    1382.2      9561.     1381.      9570.    1382.1      9583.     1383.9      9596.     1384.3      9628.
GR    1384.3      9657.     1384.      9697.    1383.6      9739.     1384.1      9779.     1383.9      9811.
GR    1383.1      9822.    1383.6      9848.    1383.3      9886.     1383.5      9907.     1384.1      9916.
GR    1383.2      9922.    1384.4      9928.    1383.6      9939.     1379.2      9954.     1377.7      9977.
GR     1375.      9996.    1374.8     10000.     1375.     10016.     1374.2     10037.     1374.1     10045.
GR    1377.5     10066.    1382.1     10088.    1383.8     10108.      1384.     10125.     1384.5     10147.
1
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GR    1382.7     10174.    1383.2     10202.    1383.1     10224.     1383.1     10245.     1383.3     10265.
GR    1384.3     10285.    1383.4     10301.     1383.     10319.      1383.     10334.      1383.     10337.

ET                            4.1      9852.     10077.
X1    21.484        33.      9932.     10026.       650.       520.       639.
GR    1386.8      9487.    1385.8      9527.    1385.8      9572.     1385.4      9614.     1384.8      9647.
GR    1385.2      9678.    1385.6      9709.    1386.7      9746.     1385.9      9776.     1384.5      9805.
GR    1383.9      9837.    1384.4      9867.     1384.      9892.     1386.5      9919.     1386.9      9932.
GR    1386.2      9943.    1383.5      9964.    1380.2      9970.     1379.7      9988.     1378.5      9994.
GR    1378.6     10000.    1381.2     10014.    1386.5     10026.     1386.6     10053.     1387.8     10056.
GR    1385.5     10060.    1388.2     10068.    1385.8     10075.     1387.4     10079.     1387.4     10101.
GR    1387.6     10116.    1387.5     10131.    1387.4     10134.

ET                            4.1      9940.     10165.
X1    21.576        43.      9980.     10087.       320.       480.       486.
GR    1388.7      9388.    1388.6      9414.    1388.2      9461.     1388.5      9500.     1389.3      9532.
GR    1388.7      9570.    1388.5      9607.    1387.9      9643.     1388.6      9664.     1388.8      9705.
GR    1389.1      9743.    1388.9      9780.     1388.      9821.     1388.4      9852.     1388.7      9889.
GR    1389.1      9922.    1389.7      9952.    1390.1      9968.      1390.      9980.     1382.5      9994.
GR    1382.1     10000.    1382.2     10008.    1383.8     10015.     1385.1     10038.     1385.2     10056.
GR    1384.1     10065.    1384.6     10073.    1388.3     10087.     1387.1     10114.     1387.1     10140.
GR    1387.8     10162.    1387.7     10199.    1388.4     10243.     1388.7     10281.     1389.3     10300.
GR    1390.3     10307.    1389.2     10313.    1390.7     10320.     1387.6     10329.     1388.9     10335.
GR    1389.7     10348.    1390.2     10360.    1390.3     10386.

QT       2.       5500.     5500.
ET                            4.1      9890.     10115.
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X1   21.66      35.     9962.    10031.      440.      470.      591.
GR   1393.2    9392.     1393.     9426.   1392.7     9446.   1392.3     9515.   1392.9     9562.
GR   1392.2    9606.   1392.8     9663.   1392.7     9710.   1393.1     9742.   1393.5     9777.
GR   1393.3    9819.   1392.7     9858.   1392.2     9893.   1391.6     9925.    1392.     9949.
GR   1393.8    9962.   1392.7     9974.   1392.2     9982.    1385.     9989.    1384.     9997.
GR   1384.5   10000.   1385.1    10011.   1388.7    10023.    1392.    10031.   1391.2    10045.
GR    1392.   10074.   1391.7    10124.   1391.9    10182.    1392.    10245.   1392.1    10303.
GR   1391.9   10361.    1392.    10395.   1392.6    10401.   1391.6    10404.   1393.3    10414.

ET                        4.1     9940.   10140.
X1   21.742      25.     9975.    10091.      430.      390.      385.
GR    1396.    9733.   1394.6     9753.   1395.1     9777.    1395.     9802.    1395.     9839.
GR   1395.6    9885.   1395.1     9930.   1395.3     9940.   1394.7     9975.   1387.4     9991.
GR   1386.4   10000.   1386.9    10015.   1392.2    10035.   1391.9    10052.   1389.9    10062.
GR   1391.5   10080.   1394.2    10091.   1394.2    10126.   1394.9    10176.    1395.    10240.
GR   1394.6   10281.   1394.8    10324.   1395.2    10355.   1395.3    10367.   1397.3    10376.

ET                        4.1     9900.   10100.
X1   21.840      22.     9946.    10054.      430.      430.      517.
GR   1401.5    9827.   1402.1     9842.   1397.3     9860.   1395.5     9882.    1395.     9913.
GR   1395.3    9931.   1396.2     9946.   1395.7     9953.   1392.1     9967.   1392.6     9984.
GR   1393.7    9997.   1393.3    10000.   1392.5    10020.   1391.1    10033.   1393.5    10045.
GR    1397.   10054.   1396.5    10097.   1397.3    10145.   1397.8    10186.   1397.5    10227.
GR   1397.6   10273.   1398.3    10308.
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ET                        4.1     9830.   10080.
X1   21.895      31.     9975.    10031.      330.      220.      290.
GR   1402.6    9807.   1402.6     9825.   1398.4     9839.   1397.2     9857.   1396.7     9885.
GR   1396.7    9919.   1397.7     9939.   1397.9     9960.    1398.     9975.   1397.1     9981.
GR    1393.    9990.   1391.9    10000.   1392.3    10010.    1394.    10021.   1397.7    10031.
GR   1398.6   10046.    1399.    10078.   1398.4    10113.   1398.6    10149.   1398.7    10187.
GR   1398.5   10225.   1398.1    10251.   1398.6    10292.   1398.6    10333.   1399.3    10364.
GR   1398.8   10399.   1399.5    10428.   1400.5    10446.   1400.5    10458.   1399.7    10463.
GR   1400.9   10470.
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UNION HILLS RD: PIPES BENEATH LOW CROSSING WERE MODELLED AS AN AREA (BAREA) WITH AN ORIFICE COEFFICIENT. THE 100 YEAR FLOW THROUGH THE PIPES WAS NEGLIGIBLE (18 CFS). UNION HILLS IS THEREFORE MORE APPROPRIATELY MODELLED AS A NORMAL SECTION USING GR CARDS.

```
ET                        4.1     9650.   10070.
X1   21.933      12.     9865.    10140.      210.      210.      210.
GR    1402.    9060.   1400.3     9440.    1400.     9590.    1398.     9680.   1397.4     9725.
GR    1398.    9780.   1399.4     9840.    1398.     9865.   1396.8    10000.    1398.    10140.
GR    1400.   10285.    1406.    10286.

NC    0.045    0.045    0.045
ET                        4.1     9630.   10051.
X1   21.953      39.     9969.    10029.       75.       75.       74.
GR    1402.    9320.   1400.5     9487.   1400.8     9527.   1401.4     9557.   1400.2     9580.
GR   1401.7    9599.   1401.1     9621.   1400.2     9647.   1399.6     9678.   1398.8     9699.
GR   1398.3    9714.   1397.6     9720.   1396.6     9725.   1398.8     9735.   1399.3     9745.
GR   1398.8    9759.   1397.3     9768.   1398.9     9782.   1398.9     9810.   1400.1     9832.
GR   1402.1    9851.   1401.7     9870.   1403.3     9884.   1403.7     9893.   1403.4     9912.
GR   1402.3    9939.    1401.     9956.   1399.7     9965.   1400.2     9969.   1395.6     9986.
GR   1394.4    9997.   1394.1    10000.    1394.    10010.   1394.9    10018.   1398.3    10029.
GR   1400.1   10044.   1401.6    10058.   1401.4    10064.    1407.    10065.

ET                        4.1     9620.   10030.
X1   22.065      39.     9961.    10028.      430.      630.      591.
GR   1404.2    9230.    1404.     9250.    1402.     9270.    1402.     9500.   1403.1     9594.
GR   1403.6    9604.   1400.4     9627.   1400.1     9645.   1400.6     9657.   1400.3     9680.
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GR	1400.5	9700.	1401.9	9717.	1403.3	9731.	1403.7	9746.	1403.9	9761.
GR	1400.1	9776.	1400.	9785.	1401.1	9796.	1401.	9816.	1403.7	9829.
GR	1403.7	9843.	1400.7	9861.	1399.7	9869.	1402.7	9890.	1403.5	9899.
GR	1404.1	9915.	1404.8	9934.	1403.6	9950.	1404.1	9961.	1401.4	9977.
GR	1398.	9989.	1395.8	9995.	1395.8	10000.	1395.9	10006.	1399.4	10010.
GR	1402.	10028.	1402.6	10043.	1406.6	10061.	1407.1	10085.		
ET			4.1	9620.	10020.					
X1	22.165	63.	9983.	10018.	530.	530.	528.			
GR	1406.	9130.	1405.2	9138.	1405.	9151.	1404.4	9164.	1402.8	9176.
GR	1402.7	9184.	1400.8	9204.	1399.8	9213.	1399.3	9222.	1401.2	9232.
GR	1403.	9256.	1403.8	9282.	1403.8	9308.	1404.3	9334.	1404.2	9364.
GR	1404.1	9396.	1404.	9425.	1404.9	9463.	1405.2	9499.	1405.3	9526.
GR	1404.9	9548.	1403.8	9565.	1402.8	9579.	1404.6	9595.	1404.8	9608.
GR	1402.4	9624.	1400.	9637.	1399.7	9645.	1400.6	9657.	1402.	9669.

1

GR	1403.1	9686.	1404.5	9701.	1405.8	9714.	1406.2	9728.	1406.1	9741.
GR	1404.	9753.	1403.8	9760.	1405.2	9772.	1405.6	9784.	1405.3	9793.
GR	1402.9	9806.	1402.7	9820.	1402.6	9834.	1402.6	9843.	1401.8	9849.
GR	1401.9	9862.	1402.8	9872.	1403.8	9876.	1405.	9894.	1406.1	9909.
GR	1405.4	9919.	1403.1	9930.	1403.	9946.	1402.1	9967.	1400.9	9983.
GR	1395.3	9994.	1395.	10000.	1396.1	10007.	1403.7	10018.	1404.8	10038.
GR	1405.2	10053.	1405.2	10060.	1405.7	10065.				
ET			4.1	9650.	10027.					
X1	22.273	57.	9933.	10028.	470.	580.	570.			
GR	1418.7	9227.	1418.7	9238.	1412.4	9262.	1411.6	9274.	1410.9	9284.
GR	1409.	9292.	1407.6	9300.	1407.3	9314.	1406.3	9325.	1403.5	9335.
GR	1403.1	9344.	1403.	9350.	1404.3	9359.	1405.4	9369.	1405.8	9386.
GR	1406.7	9408.	1407.1	9427.	1407.4	9444.	1407.2	9460.	1406.4	9473.
GR	1406.5	9485.	1406.9	9502.	1407.7	9520.	1408.2	9532.	1407.1	9558.
GR	1404.4	9574.	1404.3	9598.	1406.	9622.	1407.	9657.	1407.3	9686.
GR	1406.2	9708.	1406.4	9727.	1406.4	9745.	1405.6	9754.	1402.6	9766.
GR	1402.8	9774.	1406.7	9789.	1409.4	9801.	1408.5	9827.	1407.9	9851.
GR	1408.8	9869.	1406.3	9887.	1407.	9902.	1404.	9915.	1404.1	9933.
GR	1403.2	9948.	1401.8	9961.	1400.6	9977.	1400.1	9992.	1399.4	9999.
GR	1399.8	10000.	1401.2	10011.	1404.	10021.	1406.9	10028.	1408.	10050.
GR	1408.3	10080.	1408.7	10109.						
ET			4.1	9860.	10040.					
X1	22.410	25.	9973.	10027.	750.	630.	723.			
X3				9787.						
GR	1420.	9802.	1419.1	9817.	1418.8	9825.	1415.8	9838.	1414.8	9850.
GR	1412.6	9867.	1413.9	9879.	1412.	9890.	1413.4	9903.	1414.5	9914.
GR	1416.1	9922.	1414.	9931.	1412.4	9941.	1411.4	9954.	1411.2	9967.
GR	1410.7	9973.	1405.7	9987.	1404.9	9997.	1404.	10000.	1404.7	10007.
GR	1407.6	10017.	1411.3	10027.	1413.5	10042.	1413.8	10057.	1414.4	10071.
ET			4.1	9890.	10050.					
X1	22.483	19.	9941.	10105.	380.	390.	385.			
X3				9823.						
GR	1421.	9823.	1420.2	9843.	1416.7	9873.	1414.4	9891.	1413.1	9915.
GR	1411.1	9941.	1407.8	9961.	1406.2	9984.	1405.5	10000.	1405.5	10027.
GR	1406.4	10056.	1408.3	10084.	1411.2	10105.	1412.3	10120.	1412.6	10138.
GR	1412.6	10156.	1411.9	10175.	1412.7	10191.	1419.8	10208.		
ET			4.1	9968.	10064.					
X1	22.578	13.	9968.	10072.	540.	490.	502.			
X3				9579.						
GR	1417.2	9914.	1417.6	9942.	1416.4	9958.	1416.6	9968.	1406.7	9983.
GR	1406.7	9993.	1407.5	10000.	1408.5	10024.	1408.5	10040.	1408.8	10050.
GR	1415.6	10063.	1421.2	10072.	1421.4	10090.				
ET			4.1	9830.	10028.					

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X1    22.6[illegible]      19.     9736.    10032.      570.      480.      [illegible]2.
GR    1419.[illegible]    9671.    1419.9    9710.    1419.8     9736.      [illegible]0.6     9759.     1411.1     9783.
GR    1410.6     9809.    1409.7    9828.    1410.8     9850.    1411.5     9873.     1413.4     9892.
GR    1412.2     9922.     1411.    9950.     1411.     9976.    1410.7    10000.     1410.6    10015.
GR     1420.    10032.    1428.3   10047.    1426.6    10055.     1426.    10060.
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ET                            4.1     9977.    10160.
X1    22.794       20.     9983.    10169.      460.      500.      628.
GR    1420.6     9968.    1417.8    9983.    1413.6     9998.    1412.4    10000.     1412.3    10013.
GR    1410.7    10041.    1411.6   10065.    1413.7    10080.    1413.8    10103.     1414.2    10119.
GR    1411.7    10136.    1413.8   10151.    1416.1    10169.    1417.2    10189.     1420.3    10202.
GR    1423.1    10219.     1427.   10244.    1429.9    10261.    1429.8    10278.     1429.8    10282.

ET                            4.1     9951.    10120.
X1    22.880       34.     9927.    10167.      440.      480.      454.
GR    1427.3     9791.     1427.    9807.    1426.5     9815.    1424.8     9827.     1424.6     9838.
GR    1424.8     9863.    1424.8    9883.    1424.5     9903.    1424.7     9917.     1426.4     9927.
GR    1423.9     9934.    1421.4    9947.    1418.5     9958.    1416.1     9968.      1415.     9984.
GR     1414.     9999.    1414.3   10000.    1414.5    10012.    1415.2    10024.     1416.1    10048.
GR    1416.5    10067.    1416.4   10101.    1416.2    10125.    1415.5    10143.     1413.2    10152.
GR     1413.    10156.    1414.8   10160.    1424.2    10167.    1426.6    10188.     1428.4    10200.
GR    1430.9    10214.    1433.5   10230.    1433.8    10241.    1433.5    10248.

ET                            4.1     9890.    10026.
X1    22.990       35.     9739.    10034.      480.      530.      581.
GR    1427.7     9668.    1427.6    9697.    1425.6     9719.    1425.3     9730.     1425.4     9739.
GR    1423.9     9751.    1422.5    9767.    1422.4     9785.    1421.5     9804.     1421.3     9817.
GR    1421.3     9829.    1420.8    9843.    1419.5     9855.    1418.9     9864.     1417.9     9873.
GR    1419.4     9886.     1420.    9903.    1420.6     9921.    1420.8     9935.     1420.3     9949.
GR     1420.     9963.    1419.1    9977.    1419.1     9995.    1419.1    10000.     1418.7    10014.
GR    1420.3    10020.    1427.9   10034.    1427.3    10044.    1428.3    10060.     1430.5    10076.
GR    1435.7    10094.    1437.4   10108.    1438.7    10119.    1436.3    10126.     1435.1    10133.

ET                            4.1     9958.    10090.
X1    23.097       48.     9951.    10121.      640.      490.      565.
GR    1433.9     9713.    1433.9    9740.    1433.8     9758.    1432.3     9772.     1432.1     9778.
GR    1433.5     9794.    1433.5    9811.    1433.5     9835.    1433.4     9849.     1431.1     9864.
GR     1430.     9878.    1430.1    9885.     1431.     9892.    1429.6     9901.     1429.1     9916.
GR    1429.6     9925.    1431.3    9935.    1432.2     9945.    1432.3     9951.     1427.9     9964.
GR    1426.4     9977.    1425.6    9988.    1425.1     9999.    1425.1    10000.      1426.    10012.
GR    1426.1    10021.    1426.5   10044.    1426.5    10063.    1426.5    10073.     1426.5    10082.
GR    1425.5    10093.    1426.4   10101.    1428.5    10112.    1430.8    10121.     1430.1    10135.
GR     1430.    10150.    1431.6   10163.    1432.8    10176.     1433.    10198.     1432.7    10221.
GR    1431.6    10247.    1430.9   10267.    1430.6    10286.    1431.5    10296.     1433.4    10310.
GR    1438.3    10337.    1439.7   10353.    1440.5    10363.
```

THE BEARDSLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL
CROSS SECTION. THE BEARDSLEY ROAD CENTERLINE IS AT RM 23.168

```
ET                            4.1     9830.    10140.
X1    23.168       22.     9777.    10116.      330.      300.      375.
GR    1435.4     9358.    1435.5    9412.    1435.6     9477.    1434.7     9533.     1433.2     9598.
GR    1431.8     9657.    1430.8    9718.    1429.5     9777.    1428.9     9827.      1429.     9877.
GR    1429.1     9942.     1429.    9999.    1429.1    10000.    1429.8    10053.     1430.3    10116.
GR    1431.8    10176.    1433.6   10230.    1434.3    10274.    1434.9    10326.     1435.5    10363.
GR    1435.6    10399.    1435.8   10409.
```

DUE TO BREAKOUTS (SPLIT FLOWS) BETWEEN RM 23.55 AND RM 23.8, THE

1

50 AND 100 YEAR Q'S ARE REDUCED PER THE FOLLOWING TABLE.

NO ENCROACHMENTS ARE COMPUTED FOR THE FOLLOWING REACH BETWEEN RM 23.253 AND 7TH STREET. FOR PURPOSES OF A FLOODWAY, A 100 FT CORRIDOR IS MAINTAINED OUTSIDE OF THE LEVEES (WHICH ARE LIKELY TO BE ERODABLE) TO PASS THE SPLIT FLOWS WHICH HAVE BEEN REMOVED FROM THE MODEL, AS DISCUSSED WITH CITY OF PHOENIX AND FLOOD CONTROL DISTRICT REPRESENTATIVES. IF THIS CORRIDOR IS NOT MAINTAINED, THE REDUCTION IN Q FOR THIS MODEL IS NOT VALID, RESULTING IN A FLOODWAY PROFILE ABOVE THE NATURAL PROFILE BY MORE THAN THE STATUTORY 1.0 FT.

	FULL Q	REDUCED Q
50 YEAR	4800.	3300
100 YEAR	5500.	3400

THE 10 YEAR Q (3200 CFS) IS UNAFFECTED

```
QT       2.      3400.      3400.
NC    0.035       0.05       0.04
ET                            4.1     9978.5    10023.2
X1   23.253         8.      9973.     10038.       470.       450.       459.
GR   1437.5      9973.    1425.5      9995.     1425.2     10000.     1427.4     10008.     1429.2     10015.
GR   1444.2     10038.    1444.9     10052.      1445.     10060.

ET                            4.1      9969.     10036.
X1   23.334        10.      9962.     10055.       400.       420.       417.
GR   1443.8      9962.    1435.6      9979.     1433.2      9990.     1432.6     10000.     1433.2     10012.
GR   1435.4     10022.    1438.5     10032.     1444.2     10044.     1449.8     10055.     1449.6     10063.

X1   23.416        10.      9974.     10053.       400.       430.       433.
GR   1447.7      9958.    1447.8      9974.     1439.2      9989.     1436.5      9999.     1436.6     10000.
GR   1437.2     10017.    1437.6     10030.     1444.4     10041.     1450.2     10053.     1450.4     10066.

X1   23.514         8.      9973.     10039.       560.       470.       517.
GR   1451.5      9965.    1451.4      9973.     1439.8      9989.     1439.6     10000.     1440.1     10012.
GR   1441.5     10022.    1443.6     10029.     1451.1     10039.
```

SPECIAL BRIDGE IS USED TO MODEL EMBANKMENT PLACED IN THE CHANNEL TO ALLOW VEHICULAR ACCESS BETWEEN THE LANDFILL ON THE LEFT AND THE GRAVEL PIT ON THE RIGHT. THE EMBANKMENT MAY WASH OUT, BUT FOR THIS STUDY, IT IS ASSUMED TO REMAIN. LOW FLOWS PASS THROUGH 2-36" CMP'S.

```
X1   23.544                                       190.       150.       158.                   1.8
X3      10.                                                                        1445.      1445.
1
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```



```
SB    1.25       2.48       3.2        0.        5.7         1.       14.1         0.      1442.     1441.4
X1   23.555                                        60.        60.        60.                   0.6
```

ELTRD IS 1448.4+0.6HV = 1449

```
X2                            1.      1445.      1449.
X3      10.                                                                        1480.      1480.
BT      10.      9930.      1452.        0.      9939.     1451.2         0.      9951.     1451.1        0.
BT    9967.     1449.8        0.      9987.     1448.4        0.     10000.     1448.4        0.     10019.
BT   1448.6         0.     10041.     1449.5        0.     10055.      1450.        0.     10070.     1452.
BT       0.

X1   23.591        17.      9968.     10045.       100.       210.       190.
```

ARTIFICIAL LEVEES ARE SET VERY HIGH ON THE LEFT AND RIGHT OVERBANKS USING THE X3 CARD TO CONSIDER ONLY THE CHANNEL AREA AS EFFECTIVE. SPLIT FLOW THAT BREAKS OUT UPSTREAM IS ACCOUNTED FOR BY THE REDUCED Q. FLOWS ARE RETURNED TO CAVE CREEK DOWNSTREAM AT BEARDSLEY ROAD.

```
X3      10.                                                                     1480.      1480.
GR    1460.      9700.      1448.      9760.      1448.      9850.      1452.9    9959.      1452.9      9968.
GR   1446.8      9982.     1444.6      9993.     1444.2     10000.      1444.2   10013.      1444.9     10023.
GR   1449.9     10036.     1453.8     10045.     1451.9     10048.       1448.   10070.       1448.     10430.
GR    1450.     10770.      1452.     11200.

X1   23.691        43.      9965.     10036.       510.       540.       528.
```

HIGH ARTIFICIAL LEVEE

```
X3      10.                                                                     1480.      1480.
GR   1461.1      9722.     1449.4      9747.     1449.4      9767.     1449.5    9784.      1449.1      9800.
GR   1448.3      9819.     1448.6      9832.     1448.3      9866.      1449.    9894.      1449.3      9913.
GR   1450.2      9925.     1453.5      9936.     1456.1      9944.     1455.4    9951.      1457.3      9955.
GR   1457.6      9965.     1450.8      9980.     1448.5      9985.     1447.2    9991.      1446.6      9999.
GR   1446.4     10000.      1447.     10011.     1449.6     10017.     1451.3   10028.      1455.3     10036.
GR   1453.2     10045.     1452.4     10054.     1451.3     10057.     1452.2   10062.      1452.4     10077.
GR   1452.2     10094.     1451.7     10108.     1452.6     10117.     1451.4   10123.      1452.7     10128.
GR    1451.     10138.     1452.3     10143.     1451.7     10147.     1453.4   10155.      1452.1     10160.
GR    1452.     10320.      1454.     10560.      1456.     10730.
```

Q IS NOW CHANGED TO BE THE AVERAGE OF THE FULL Q UPSTREAM OF THE BREAKOUT AND OF THE REDUCED Q DOWNSTREAM OF THE BREAKOUT.

```
QT       2.      4350.      4350.
X1   23.815        31.      9951.     10037.       650.       680.       655.
```

HIGH ARTIFICIAL LEVEE

```
X3      10.                                                                     1480.      1480.
GR    1470.      9650.     1459.3      9716.     1453.5      9738.     1453.1    9772.      1453.4      9812.
GR   1454.5      9857.     1455.1      9890.      1455.      9914.     1455.4    9941.      1458.9      9951.
GR    1458.      9963.     1451.4      9979.     1449.7      9988.     1449.9    9996.      1449.7     10000.
```



```
GR   1449.7     10017.     1454.6     10028.     1457.8     10037.     1456.8   10043.      1456.8     10060.
GR   1456.9     10081.     1457.1     10110.     1458.2     10140.     1458.4   10157.      1459.5     10172.
GR   1458.5     10182.      1456.     10195.     1457.2     10215.     1458.7   10226.      1457.1     10235.
GR   1465.5     10249.
```

Q IS NOW CHANGED TO BE THE FULL Q UPSTREAM OF THE BREAKOUT

```
QT       2.      5300.      5300.
X1   23.912        12.      9967.     10043.       480.       510.       512.
```

HIGH ARTIFICIAL LEVEE

```
X3      10.                                                                     1480.      1480.
GR   1463.9      9868.     1461.7      9878.     1460.6      9898.     1460.7    9925.      1461.4      9950.
GR   1461.3      9967.     1451.3      9983.     1447.9      9994.       1448.  10000.      1447.9     10010.
GR   1454.9     10026.     1460.9     10043.

X1   23.989         9.      9937.     10049.       400.       410.       407.
GR   1465.6      9937.     1457.9      9957.     1452.6      9977.     1450.8    9989.      1449.7     10000.
GR   1450.5     10014.     1452.5     10024.      1458.     10036.     1465.8   10049.
```

7TH STREET (SPECIAL BRIDGE). THE GR CARDS FROM SECTION 24.106 TAKEN

UPSTREAM OF 7TH STREET ARE REPEATED AT THE DOWNSTREAM FACE OF THE BRIDGE
AS SECTION 24.086 WITH PSXECE = -1.3.

```
NC                                        0.3       0.5
X1    24.086      12.      9972.     10044.       450.      560.      512.                  -1.3
X3       10.                                                                        1463.7   1463.7
GR    1470.1    9942.    1464.1      9955.    1454.9     9972.    1454.9   10044.     1456.   10052.
GR    1458.5   10064.    1461.9     10091.    1463.7    10108.    1465.7   10123.   1466.1   10136.
GR    1466.4   10155.    1467.4     10310.

SB       0.9    1.56        3.       100.      71.6        3.       590.       0.    1453.6    1453.6
X1    24.096                                     56.       56.        56.

      ELTRD IS 1464.7+2HV = 1466.7

X2                          1.     1462.2    1466.7
X3       10.                                                                        1466.     1466.

ET                          4.1     9955.    10055.
X1    24.106      13.     9955.    10064.      80.       20.       53.
GR    1470.1    9942.    1464.1      9955.    1455.2     9972.    1454.7    9997.    1454.2   10000.
GR    1454.9   10028.     1456.    10052.    1458.5    10064.    1461.9   10091.    1463.7   10108.
GR    1465.7   10123.    1466.1    10136.    1466.4    10155.

NC                                        0.1       0.3
ET                          4.1      9950.    10050.
```

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```
X1    24.195      13.     9933.    10142.     470.      460.      470.
GR    1498.7    9862.    1497.1      9889.    1470.4     9933.    1454.1    9961.    1453.6    9996.
GR    1453.6   10000.    1453.9     10032.    1455.5    10052.    1456.3   10073.    1458.8   10093.
GR    1462.3   10117.    1466.4     10142.    1468.9    10164.

ET                          4.1      9940.    10080.
X1    24.322      11.     9871.    10064.     640.      630.      671.
GR    1473.7    9820.    1463.5      9871.    1453.2     9895.    1451.6    9972.    1452.1   10000.
GR    1454.5   10042.    1456.8     10064.    1457.7    10134.    1459.6   10177.    1465.2   10220.
GR    1470.9   10262.

NC     0.045    0.045     0.045
ET                          4.1      9927.    10080.
X1    24.444      16.     9928.    10122.     640.      600.      644.
GR    1478.8    9885.    1478.7      9906.    1465.     9928.    1457.6    9939.    1458.    9972.
GR    1457.3    9995.    1457.7     10000.    1459.1    10027.    1460.4   10064.    1459.3   10097.
GR    1461.7   10122.    1458.9     10142.    1460.7    10166.    1460.3   10180.    1468.5   10215.
GR    1474.2   10230.

ET                          4.1      9950.    10160.
X1    24.542      20.     9914.    10187.     470.      530.      517.
GR    1488.2    9844.     1464.      9914.    1463.2     9948.    1460.4    9968.    1459.8    9996.
GR    1459.8   10000.    1461.4     10017.    1462.3    10033.    1470.7   10056.    1470.3   10083.
GR    1472.2   10112.    1470.9     10127.    1464.4    10141.    1462.5   10166.     1463.   10171.
GR    1464.7   10175.    1467.8     10187.    1473.8    10237.    1475.2   10268.    1478.9   10283.
```

THE DEER VALLEY ROAD LOW CROSSING IS MODELLED WITH GR CARDS AS A NORMAL
CROSS SECTION. THE DEER VALLEY ROAD CENTERLINE IS AT RM 24.635.

```
ET                          4.1      9940.    10060.
X1    24.635       8.     9876.    10111.     650.      220.      491.
GR    1480.9    9752.    1474.5      9876.    1467.     9983.    1466.8   10000.    1467.9   10037.
GR    1472.4   10111.    1478.6     10193.    1480.1    10247.

QT       2.    5200.     5200.
```

DIVIDED FLOW OCCURS FROM SECTION 24.738 TO 25.163. ALTHOUGH THE RIGHT OVERBANK IS SOMETIMES LOWER THAN THE CHANNEL, EFFECTIVE FLOW IS CONTROLLED DOWNSTREAM AT SECTION 24.738. OVERBANK LOW ELEVATIONS ARE ARTIFICIALLY ADJUSTED AT SECTIONS 24.838 TO 25.163 TO YIELD QROB = QROB AT SECTION 24.738 + OR - 10%. NATURAL CONDITIONS AT SECTION 25.048 RESULT IN A QROB THAT IS LESS THAN SECTION 24.738.

```
ET                          4.1      9936.      10200.
X1   24.738        21.      9897.     10038.       350.       630.       544.
GR   1490.4      9703.     1489.7      9717.     1479.2      9736.     1479.3      9805.     1477.7      9884.
GR   1481.2      9897.     1477.6      9931.     1472.8      9965.     1472.3      9986.      1472.     10000.
GR   1473.5     10023.     1480.9     10038.     1476.7     10045.     1480.8     10067.     1477.6     10079.
GR   1473.6     10088.     1473.6     10127.     1472.5     10224.     1474.4     10291.     1473.6     10330.
GR   1477.6     10343.
1
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ET                          4.1      9968.      10350.
X1   24.838        20.      9945.     10019.       470.       450.       528.
  1488.5   9909.  1483.8   9945.  1477.7   9986.  1474.8   9991.  1474.7  10000.
   1475.  10004.  1483.5  10019.  1477.3  10032.  1479.5  10066.  1469.1  10111.
  1467.6  10133.  1468.5  10162.  1472.5  10185.  1469.9  10199.  1469.7  10219.
   1470.  10270.   1466.  10365.   1466.  10450.   1468.  10630.   1490.  10660.
GR   1488.5      9909.     1483.8      9945.     1477.7      9986.     1474.8      9991.     1474.7     10000.
GR    1475.     10004.     1483.5     10019.      1479.     10032.     1479.5     10066.      1479.     10111.
GR    1479.     10133.      1479.     10162.      1479.     10185.      1479.     10199.      1479.     10219.
GR    1479.     10270.      1479.     10365.      1479.     10450.      1479.     10630.      1490.     10660.

ET                          4.1      9860.      10300.
X1   24.943        17.      9983.     10017.       530.       570.       554.
  1504.8   9651.  1494.9   9694.  1493.1   9736.  1481.7   9813.  1480.7   9926.
  1482.4   9945.  1481.8   9983.   1478.   9990.  1477.9  10000.  1477.7  10004.
  1484.8  10017.  1483.6  10032.  1478.1  10044.   1470.  10080.   1470.  10540.
   1480.  10610.  1503.3  10690.
GR   1504.8      9651.     1494.9      9694.     1493.1      9736.     1481.7      9813.     1480.7      9926.
GR   1482.4      9945.     1481.8      9983.      1478.      9990.     1477.9     10000.     1477.7     10004.
GR   1484.8     10017.     1483.6     10032.      1481.     10044.      1481.     10080.      1481.     10540.
GR    1481.     10610.     1503.3     10690.

ET                          4.1      9850.      10250.
X1   25.048        23.      9966.     10017        580.       520.       554.
GR   1497.2      9659.     1493.6      9692.     1486.7      9707.      1486.      9817.      1486.      9941.
GR   1486.6      9966.     1485.7      9981.      1484.      9986.      1484.     10000.     1493.6     10017.
GR   1488.3     10026.      1486.     10062.     1485.4     10154.     1486.5     10223.     1483.7     10232.
GR   1484.6     10247.      1488.     10258.     1487.5     10405.     1492.2     10420.      1489.     10431.
GR    1484.     10450.      1484.     10470.      1500.     10525.

QT       2.      4900.      4900.
ET                          4.1      9940.      10175.
X1   25.163        16.      9972.     10025.       640.       580.       607.
  1499.3   9878.  1492.6   9917.  1490.2   9947.  1489.9   9965.  1491.6   9972.
  1486.2   9984.  1486.3  10000.   1486.  10005.  1493.1  10025.  1485.3  10044.
  1486.3  10088.  1486.3  10147.  1486.4  10220.  1488.4  10291.  1498.8  10312.
  1499.8  10417.
GR   1499.3      9878.     1492.6      9917.     1490.2      9947.     1489.9      9965.     1491.6      9972.
GR   1486.2      9984.     1486.3     10000.      1486.     10005.     1493.1     10025.      1489.     10044.
GR    1489.     10088.      1489.     10147.      1489.     10220.      1489.     10291.     1498.8     10312.
GR   1499.8     10417.
```

THE BREAKOUT IN THE RIGHT OVERBANK IS NOT EFFECTIVE DUE TO DOWNSTREAM PONDING. HIGH ARTIFICIAL LEVEES HAVE BEEN SET ON THE RIGHT AT SECTIONS 25.262, 25.374, AND 25.434.

```
ET                          4.1      9750.     10023.
X1   25.262       28.      9948.     10030.       470.       570.       523.
X3      10.                                                          1491.6      1510.
GR   1503.2     9465.     1506.4     9470.     1489.6      9513.     1490.2      9547.     1492.2      9618.
GR   1491.5     9646.     1492.7     9689.     1492.6      9707.     1490.5      9823.     1491.6      9948.
GR   1489.1     9969.     1493.6     9987.     1490.2     10000.     1490.8     10016.     1496.8     10030.
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GR   1488.4    10044.     1487.4    10059.      1486.     10070.     1484.4     10260.      1486.     10380.
GR    1492.    10420.      1492.    10450.      1484.     10475.      1484.     10510.      1488.     10535.
GR    1486.    10575.      1488.    10585.      1494.     10610.

ET                          4.1      9925.     10023.
X1   25.374       16.      9969.     10023.       680.       300.       591.
X3      10.                                                          1499.3
GR    1510.     9628.     1498.2     9659.      1496.      9704.     1495.7      9838.     1496.2      9920.
GR    1496.     9933.     1497.8     9944.     1497.8      9950.     1495.6      9955.     1496.7      9963.
GR   1499.3     9969.     1493.5     9986.     1493.3     10000.     1493.5     10011.     1498.8     10023.
GR    1510.   10023.1

NC     0.05     0.035      0.035
ET                          4.1      9970.     10036.
X1   25.434       14.      9968.     10036.       400.       190.       317.
X3      10.                                                          1504.9
GR   1511.5     9463.     1506.8     9561.     1504.8      9631.     1504.9      9716.      1502.      9788.
GR   1501.3     9885.     1500.8     9942.     1500.6      9954.     1504.9      9968.     1496.8      9990.
GR   1496.6    10000.     1495.8    10018.      1504.     10036.      1510.    10036.1

ET                          4.1      9970.     10050.
X1   25.500        9.      9908.     10105.       250.       420.       349.
GR   1511.5     9908.     1506.9     9927.     1504.5      9943.     1499.9      9957.     1497.7     10000.
GR   1498.5    10025.     1503.7    10061.     1507.7     10094.      1509.     10105.

        CAP CANAL OVERSHOOT STRUCTURE

NC                                    0.3        0.5

                SECTION IN DOWNSTREAM OUTLET OF OVERSHOOT IN STILLING POOL

ET                          4.1      9960.     10040.
X1   25.523        9.      9963.     10037.       120.       120.       121.
GR    1510.     9900.      1508.     9930.      1498.      9950.      1498.      9963.      1496.      9964.
GR    1496.    10036.      1498.    10037.      1498.     10050.      1510.     10100.

                SECTION AT DOWNSTREAM CREST OF OVERSHOOT WHERE FLOW PASSES
                THROUGH CRITICAL DEPTH. DO NOT ENCROACH.

NC     0.05     0.035      0.015
X1   25.534        4.      9963.     10037.        58.        58.        58.
GR    1515.     9963.    1505.54      9964.    1505.54     10036.      1515.     10037.

                SECTION AT UPSTREAM END OF NARROW CHUTE. DO NOT ENCROACH.

X1   25.551                                        90.        90.        90.

                SECTION AT UPSTREAM FLARED ENTRANCE TO OVERSHOOT. DO NOT
                ENCROACH.

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X1   25.557       4.     9954.    10046.       32.       32.       32.
GR    1515.     9954.  1505.54     9973.  1505.54    10027.     1515.    10046.

                NATURAL SECTION UPSTREAM OF OVERSHOOT.  SET ENCROACHMENTS
                TO NATURAL SSTA & ENDSTA.

NC    0.035     0.035    0.035
QT       2.     2900.    2900.
ET                         4.1     9949.    10050.
X1   25.561       5.     9948.    10069.       20.       20.       21.
GR   1514.9     9948.   1505.6     9971.   1505.7    10000.   1506.3    10048.    1515.2    10069.

NC                                   0.1       0.3
QT       2.     2700.    2700.
ET                         4.1     9950.    10050.
X1   25.680      36.     9927.    10093.      580.      660.      628.
GR   1519.8    9136.   1518.8     9203.   1516.1     9267.   1515.7     9325.    1515.7     9359.
GR   1516.7    9372.   1514.9     9462.   1514.2     9504.   1515.2     9516.    1515.6     9559.
GR   1515.7    9593.    1515.     9622.   1516.9     9637.   1515.3     9653.    1512.1     9664.
GR   1512.4    9688.   1513.8     9704.   1518.5     9720.   1510.6     9747.    1514.3     9796.
GR   1513.9    9866.   1514.4     9927.   1508.7     9946.   1511.3     9961.    1511.2     9985.
GR   1506.5    9997.   1506.8    10000.   1506.8    10011.   1510.5    10022.    1511.1    10057.
GR   1509.6   10063.   1511.2    10093.   1512.4    10167.    1510.    10278.    1508.7    10295.
GR   1534.1   10338.

QT       2.     2500.    2500.
ET                         4.1     9982.    10082.
X1   25.786      32.     9978.    10056.      600.      470.      560.
X3      10.                                                                 1518.9
GR   1522.7    9477.   1522.5     9507.   1515.5     9529.   1515.7     9575.    1514.1     9667.
GR   1514.3    9705.   1513.4     9736.    1517.     9753.   1516.8     9776.    1517.2     9794.
GR   1513.5    9822.   1516.2     9837.   1512.2     9848.   1516.5     9872.    1514.6     9883.
GR    1517.    9913.    1517.     9922.   1515.2     9944.   1518.9     9964.    1518.9     9978.
GR   1511.2    9990.   1511.4    10000.   1510.7    10010.   1514.5    10020.    1512.2    10041.
GR   1515.8   10056.   1515.3    10189.   1517.3    10353.   1515.1    10418.     1514.    10435.
GR   1514.2   10440.   1532.8    10465.

QT       2.     2300.    2300.
ET                         4.1     9959.    10059.
X1   25.947      14.     9950.    10066.      870.      830.      850.
GR    1524.    9816.   1522.7     9917.   1522.7     9950.   1518.8     9971.    1518.3     9986.
GR   1514.4   10000.   1514.5    10011.   1518.4    10028.   1519.7    10037.    1520.6    10066.
GR   1519.3   10107.   1518.2    10113.   1518.8    10119.   1529.5    10139.

QT       2.     2200.    2200.
ET                         4.1     9950.    10023.
X1   26.058      15.     9966.    10024.      540.      570.      586.
GR   1529.2    9598.   1526.6     9747.   1527.1     9765.    1526.     9790.    1523.3     9845.
GR   1522.1    9904.   1521.1     9927.    1521.     9951.    1522.     9966.    1520.8     9976.
GR   1517.4   10000.   1516.2    10010.   1516.8    10014.    1524.    10024.    1541.9    10048.
1
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QT       2.     2000.    2000.
ET                         4.1     9970.    10040.
X1   26.152      13.     9956.    10069.      240.      550.      496.
GR   1530.2    9789.   1529.9     9847.   1527.3     9895.   1525.4     9956.    1522.3     9972.
GR    1520.    9982.   1520.1    10000.   1520.5    10018.   1522.2    10050.     1526.    10069.
GR   1530.7   10102.   1531.9    10114.   1533.1    10139.

QT       2.     1900.    1900.
ET                         4.1     9973.    10060.
X1   26.265      10.     9955.    10029.      580.      610.      597.
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GR   1533.9      9829.     1533.6      9913.      1534.3      9916.      1531.7      9955.      1523.8      9995.
GR    1522.     10000.     1522.5     10010.      1524.8     10015.      1526.5     10029.      1529.5     10115.

QT       2.      1700.      1700.
ET                           4.1      9967.      10064.
X1   26.372        14.      9966.     10080.        600.       510.        565.
GR   1558.5      9909.     1544.2      9928.      1535.7      9945.      1531.6      9966.      1528.4      9981.
GR   1525.9      9990.     1523.9      9995.      1523.8     10000.      1527.3     10016.      1526.6     10034.
GR   1529.9     10055.     1533.8     10080.      1534.6     10100.      1535.5     10116.

QT       2.      1600.      1600.
ET                           4.1      9955.      10045.
X1   26.492        17.      9866.     10084.        640.       610.        634.
GR   1539.5      9819.     1538.5      9851.      1537.5      9866.      1533.3      9880.      1530.9      9891.
GR   1530.2      9920.     1527.7      9953.      1525.8      9972.      1525.8      9994.      1525.7     10000.
GR   1526.2     10019.     1528.4     10039.      1530.4     10062.      1534.8     10078.       1536.     10084.
GR   1536.4     10097.     1537.1     10100.

NC     0.04      0.04       0.03
QT       2.      1300.      1300.
ET                           4.1      9945.      10025.
X1   26.582        37.      9869.     10028.        460.       480.        475.
GR   1538.6      9388.     1538.3      9411.       1535.      9445.      1532.2      9471.      1530.3      9493.
GR   1526.4      9510.     1525.5      9519.      1525.3      9539.      1526.3      9568.      1526.5      9602.
GR   1527.2      9622.     1526.7      9655.      1527.3      9691.      1526.9      9725.      1527.2      9752.
GR   1527.4      9786.     1528.1      9817.      1527.9      9845.      1528.2      9869.      1526.9      9894.
GR   1524.1      9911.     1524.9      9937.      1525.2      9958.      1525.6      9983.      1525.7     10000.
GR    1526.     10014.     1527.2     10028.      1526.4     10047.      1527.2     10086.      1526.5     10123.
GR   1526.8     10140.     1528.8     10157.      1528.8     10176.      1533.8     10195.      1536.6     10211.
GR   1536.7     10224.     1537.5     10226.

ET                           4.1      9970.      10030.
X1   26.673        44.      9955.     10077.        510.       460.        480.
X3      10.                                                                          1535.
GR   1549.8      9490.     1541.8      9544.      1534.8      9585.      1533.1      9600.      1531.8      9629.
GR   1530.8      9656.     1530.5      9681.      1530.5      9715.      1530.5      9748.      1531.1      9773.
GR   1532.3      9803.     1532.9      9829.      1532.6      9851.      1532.1      9868.      1532.7      9898.
GR   1532.9      9922.     1532.6      9944.      1534.3      9955.      1532.6      9970.      1532.7      9988.
GR   1532.8     10000.     1531.8     10013.      1532.6     10023.      1532.2     10047.      1531.9     10061.
GR   1533.2     10077.     1533.2     10105.      1534.5     10130.      1536.4     10141.      1537.8     10149.
GR   1537.4     10165.     1536.9     10192.      1533.6     10205.      1533.2     10237.      1533.2     10265.
GR   1534.2     10285.     1534.8     10304.      1535.1     10331.      1535.6     10348.      1539.7     10359.
GR   1539.2     10378.     1539.9     10387.       1552.     10411.      1550.3     10420.
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QT       2.      1100.      1100.
ET                           4.1      9981.      10031.
X1   26.784        29.      9975.     10080.        590.       530.        586.
GR   1556.2      9628.     1553.4      9629.      1551.5      9652.      1550.5      9674.      1549.6      9695.
GR   1548.7      9721.     1549.2      9749.      1548.9      9783.      1549.4      9822.      1549.5      9859.
GR   1549.4      9898.     1549.7      9925.      1550.7      9951.      1551.2      9975.      1542.7      9985.
GR   1543.2     10000.     1544.4     10019.      1545.4     10045.      1550.2     10069.      1551.5     10080.
GR   1550.8     10091.      1551.     10110.       1551.     10132.      1550.9     10150.       1551.     10162.
GR   1552.5     10191.     1552.7     10228.       1552.     10271.      1551.9     10279.

QT       2.      1000.      1000.
ET                           4.1      9975.      10025.
X1   26.883        21.      9773.     10122.        530.       500.        523.
GR   1555.5      9726.     1549.5      9759.      1544.7      9773.       1542.      9791.      1540.1      9803.
GR   1540.1      9895.     1540.1     10000.      1540.1     10062.      1540.6     10074.      1541.3     10093.
GR   1542.8     10122.     1542.6     10148.      1542.5     10166.      1544.1     10179.      1546.3     10194.
GR    1549.     10209.     1553.7     10235.      1555.3     10255.      1557.4     10265.      1557.4     10279.
GR   1556.2     10282.
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QT                 900.      900.
ET                            4.1      9975.     10025.
X1     26.984       32.     9943.     10170.       480.       460.       533.
GR     1560.6     9811.    1559.7      9833.    1557.2      9861.    1554.5     9891.    1549.4     9920.
GR     1545.5     9943.    1543.8      9953.    1542.3      9968.    1542.1    10000.    1545.1    10012.
GR     1540.6    10023.    1540.6     10107.    1540.6     10124.    1541.7    10135.    1540.5    10147.
GR     1540.5    10156.    1546.5     10170.    1547.3     10189.    1547.5    10203.    1547.7    10218.
GR     1546.7    10231.    1543.5     10241.    1542.8     10256.    1542.3    10271.    1542.3    10282.
GR     1544.6    10290.    1543.4     10300.    1543.3     10310.    1544.8    10323.    1545.3    10333.
GR     1558.9    10356.    1551.6     10369.

ET                            4.1     9883.7    10013.1
X1     27.060       33.     9980.     10019.       270.       470.       401.
X3        10.                                                          1565.
GR     1566.5     9583.    1559.9      9608.    1557.5      9614.    1557.6     9617.    1560.3     9624.
GR     1560.6     9643.    1560.9      9670.    1559.8      9683.    1559.6     9706.     1560.     9720.
GR     1559.4     9740.    1559.5      9772.    1560.4      9795.     1560.     9824.    1558.8     9852.
GR     1558.7     9879.    1558.9      9895.    1558.5      9911.    1559.2     9940.     1560.     9954.
GR     1559.7     9963.    1560.6      9967.    1560.8      9980.    1554.6     9997.    1554.1    10000.
GR     1555.1    10005.    1562.6     10019.    1562.2     10040.    1562.1    10056.    1563.4    10068.
GR     1565.2    10081.     1566.     10093.    1563.9     10103.

QT         2.       600.      600.
ET                            4.1     9881.1    10020.
X1     27.166       36.     9977.     10023.       560.       560.       560.
X3        10.                                                          1565.     1565.
GR      1572.     9622.    1572.2      9639.    1571.5      9661.    1569.4     9686.    1568.5     9709.
GR     1568.1     9719.    1568.4      9730.    1567.4      9742.    1567.1     9762.    1567.9     9772.
GR     1568.8     9787.    1567.6      9811.    1566.7      9830.     1566.     9847.    1562.3     9858.
GR     1558.7     9868.    1557.6      9870.    1558.4      9872.    1560.6     9875.    1560.9     9884.
GR     1560.9     9911.    1560.8      9943.    1560.7      9955.    1564.2     9963.    1564.2     9977.
GR     1555.2     9995.    1555.2     10000.    1555.2     10008.    1563.9    10023.    1563.9    10038.
GR     1561.1    10043.    1561.1     10067.    1560.8     10098.    1560.9    10129.    1561.5    10142.
GR     1562.8    10146.
1
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SECTION 27.294 IS NEAR THE DOWNSTREAM OUTLET OF CAVE BUTTE DAM.

```
QT         2.       400.      400.
ET                            4.1      9972.    10022.2
X1     27.294       26.     9967.     10027.       710.       630.       676.
GR     1591.6     9811.    1589.8      9827.    1587.9      9839.    1589.7     9851.    1588.2     9870.
GR     1585.6     9883.    1584.2      9888.    1584.4      9900.    1583.9     9914.    1568.3     9948.
GR     1565.9     9954.    1565.2      9967.    1558.3      9980.    1557.2     9984.    1556.2     9987.
GR      1556.    10000.     1556.     10007.    1564.6     10027.    1565.6    10037.     1573.    10054.
GR     1572.8    10074.    1573.4     10093.     1574.     10112.     1575.    10135.    1575.4    10163.
GR     1575.6    10171.
```

THE CENTERLINE OF CAVE BUTTE DAM IS AT RM 27.365.

FOLLOWING IS THE TRUBUTARY RUN FOR THE EAST FORK OF CAVE CREEK.

SECTION 19.56 IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST FORK. THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE EAST FORK OF CAVE CREEK. THE CONFLUENCE OCCURS AT RM 19.608

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NC     0.035      0.035     0.035       0.1       0.3
QT         2.    14600.    14600.
ET                            4.1    9921.37     10061.
X1    -19.56        17.     9929.     10065.       730.       720.       729.
```

```
GR    1346.1      9801.     1329.7      9902.     1329.7      9929.     1316.5      9950.     1316.8      9978.
GR    1315.6     10000.     1315.6     10008.     1316.6     10026.     1316.4     10035.     1317.5     10043.
GR    1330.6     10065.     1330.8     10099.     1330.5     10146.     1330.2     10195.     1330.9     10208.
GR    1331.2     10223.     1332.1     10301.

        SECTION 0.029 IS JUST UPSTREAM OF THE CONFLUENCE WITH CAVE CREEK
        WASH.  SECTION 19.556 DOWNSTREAM IN THE WASH IS USED TO START THE
        RUN ON THE EAST FORK.

QT       2.       9500.      9500.
NC    0.035       0.035      0.015
ET                            4.1     9942.56    10073.1
X1    0.029        15.       9942.     10043.      380.       450.       430.
GR    1336.7      9849.     1332.4      9893.     1329.5      9942.     1326.3      9954.     1326.3      9963.
GR    1319.8      9982.     1319.6      9995.     1319.6     10000.     1319.6     10019.     1328.2     10043.
GR     1330.     10090.     1330.3     10128.     1332.4     10166.     1333.1     10216.     1333.1     10217.

NC    0.035       0.035       0.03
ET                            4.1      9905.     10092.
X1    0.112        22.       9887.     10101.      430.       450.       483.
GR    1357.6      9597.     1333.1      9743.     1332.6      9804.      1332.      9816.     1331.8      9863.
GR    1332.1      9887.     1329.4      9906.     1329.4      9915.     1323.4      9937.     1322.3      9949.
GR    1321.5      9985.     1321.6      9999.     1321.6     10000.      1322.     10037.     1323.2     10049.
GR    1329.3     10076.     1334.8     10101.     1334.8     10139.     1333.4     10214.     1334.8     10286.
1
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GR    1334.5     10320.     1334.5     10321.

ET                            4.1      9910.     10110.
X1    0.198        26.       9897.     10133.      460.       420.       454.
GR    1334.8      9569.     1336.5      9570.     1335.1      9591.     1335.7      9694.     1333.8      9754.
GR    1333.3      9863.     1332.4      9897.     1329.4      9916.     1325.5      9937.     1323.8      9965.
GR    1324.5      9981.     1324.8      9999.     1324.8     10000.     1324.1     10044.     1324.5     10058.
GR    1328.8     10085.     1328.8     10093.     1336.3     10122.     1337.8     10133.      1336.     10138.
GR    1337.3     10170.     1337.1     10262.      1337.     10356.     1345.1     10370.     1337.1     10382.
GR    1336.7     10417.

ET                            4.1      9903.     10054.
X1    0.288        20.       9885.     10069.      470.       460.       475.
GR    1338.2      9550.     1337.6      9684.     1336.1      9733.     1336.9      9848.      1336.      9885.
GR    1328.9      9933.     1326.6      9954.     1325.9      9978.     1325.7     10000.     1328.5     10026.
GR    1335.9     10069.     1335.9     10078.     1336.7     10089.     1336.2     10101.      1338.     10213.
GR    1339.6     10443.     1347.3     10459.      1341.     10472.     1341.9     10485.     1339.9     10517.

ET                            4.1      9912.     10094.
X1    0.398        19.       9904.     10119.      600.       540.       581.
GR    1340.2      9739.     1340.7      9804.     1339.3      9843.     1338.9      9904.     1330.2      9949.
GR    1329.4      9979.     1328.8     10000.     1329.7     10061.     1338.1     10098.     1338.1     10105.
GR    1340.6     10119.     1338.4     10126.     1338.6     10168.     1340.5     10175.     1339.9     10190.
GR    1339.7     10352.     1339.2     10456.     1339.5     10478.     1339.8     10533.

ET                            4.1      9904.     10175.
X1    0.482        20.       9937.     10024.      440.       270.       444.
GR     1347.      9903.     1341.4      9904.     1341.1      9937.     1337.1      9953.     1333.4      9962.
GR    1331.2      9988.     1331.3     10000.     1331.3     10008.      1338.     10024.     1340.8     10093.
GR    1340.9     10125.     1341.6     10161.     1340.4     10236.     1341.6     10256.      1340.     10291.
GR    1341.1     10315.     1340.9     10402.     1341.5     10528.     1341.5     10640.      1343.     10910.

ET                            4.1      9870.     10080.
X1    0.575        19.       9869.     10049.      460.       500.       491.
GR     1348.      9777.     1342.8      9778.     1340.2      9869.     1337.1      9896.     1341.1      9944.
GR    1337.8      9977.     1331.7      9990.     1331.5      9997.     1331.5     10000.      1332.     10011.
GR    1338.9     10023.     1343.1     10049.     1342.5     10105.     1343.5     10113.     1342.9     10186.
GR    1341.8     10239.      1342.     10274.     1343.2     10411.     1345.4     10755.
```

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QT       2.      9400.      9400.
ET                           4.1      9875.     10035.
X1    0.697        16.      9847.     10023.       640.       640.       644.
GR   1346.4      9847.    1345.3      9855.    1338.8      9882.    1338.1      9888.      1339.      9900.
GR   1340.4      9912.    1343.4      9919.    1341.4      9921.    1339.9      9950.    1334.9      9967.
GR   1334.6     10000.     1334.     10007.    1341.4     10023.    1343.8     10061.    1345.4     10102.
GR   1346.4     10237.

NC    0.035     0.035      0.035
ET                           4.1      9880.     10040.
X1    0.826        11.      9929.     10050.       680.       660.       681.
GR   1349.5      9815.    1346.4      9893.    1345.5      9929.    1342.7      9969.    1338.8      9974.
GR   1338.8      9988.    1338.8     10000.    1339.2     10009.    1349.5     10050.    1350.1     10066.
GR    1351.     10219.
1
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ET                           4.1      9870.     10030.
X1    0.945        20.      9856.     10034.       680.       600.       628.
GR   1352.7      9469.    1352.6      9548.    1351.8      9674.    1351.8      9704.      1349.      9769.
GR   1349.8      9819.    1349.5      9843.    1348.6      9856.    1345.5      9866.    1346.8      9929.
GR   1347.7      9956.    1340.4      9978.    1340.8     10000.    1340.8     10008.    1349.5     10034.
GR   1350.1     10046.    1350.1     10100.    1352.8     10215.    1353.4     10254.      1353.     10284.

ET                           4.1      9870.     10030.
X1    1.035        22.      9841.     10022.       440.       460.       475.
GR    1354.      9670.    1350.5      9723.    1352.3      9776.     1352.      9795.    1348.6      9823.
GR   1348.4      9832.    1350.8      9841.    1348.1      9844.    1349.2      9871.    1349.4      9908.
GR   1345.9      9921.    1348.6      9941.    1348.1      9948.    1343.9      9966.    1343.3      9983.
GR   1342.3      9992.    1341.9     10000.    1348.8     10022.    1351.2     10046.    1352.5     10059.
GR   1352.4     10100.     1353.     10153.

NC     0.04      0.04       0.04
ET                           4.1      9890.     10050.
X1    1.121        19.      9868.     10069.       480.       440.       454.
GR   1355.2      9850.     1355.      9868.    1348.4      9897.    1346.1      9910.    1345.9      9931.
GR   1346.4      9955.    1345.1      9966.    1343.6      9994.    1343.6     10000.    1348.1     10015.
GR   1348.8     10036.    1350.6     10048.    1351.1     10059.    1353.6     10069.    1354.1     10082.
GR   1354.2     10121.     1355.     10134.    1355.1     10173.     1355.     10175.

ET                           4.1      9950.     10110.
X1    1.204        16.      9949.     10043.       430.       450.       438.
GR   1355.4      9930.    1355.6      9949.    1348.3      9964.    1348.3      9978.    1344.3      9991.
GR   1344.3      9995.    1344.8     10000.    1348.3     10027.    1352.5     10043.    1353.8     10057.
GR   1353.7     10072.    1353.5     10098.    1354.2     10165.    1356.1     10178.    1355.8     10262.
GR   1356.3     10334.

QT       2.      9100.      9100.
ET                           4.1      9905.     10060.
X1    1.315        17.      9904.     10074.       720.       700.       734.
GR   1359.7      9904.    1352.7      9916.    1350.3      9931.    1348.8     10000.    1351.1     10012.
GR   1351.6     10028.    1353.4     10043.    1353.4     10056.    1356.5     10064.      1359.     10074.
GR   1357.8     10085.     1358.     10091.     1358.     10130.     1352.     10150.      1352.     10170.
GR    1358.     10230.     1360.     10240.

NC    0.035     0.035      0.025
ET                           4.1      9895.     10085.
X1    1.420         9.      9895.     10085.       380.       420.       407.
GR    1364.      9860.     1362.      9870.     1360.      9895.     1356.      9910.    1354.9     10000.
GR    1356.     10070.     1360.     10085.     1362.     10100.     1364.     10120.
1
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

 *PROF 1
0

 CCHV=      .100 CEHV=      .300
 *SECNO 17.588
    17.588      14.09   1283.69        .00   1283.69   1284.02        .33        .00        .00   1278.10
   15400.0     3410.6   11671.0      318.3    1017.0    2337.7      133.8         .0         .0   1276.40
       .00       3.35      4.99       2.38      .040      .040       .040       .000    1269.60   9777.93
   .000750       440.      496.       560.         0         0          0        .00     451.78  10229.71

 FLOW DISTRIBUTION FOR SECNO=      17.59          CWSEL=   1283.69

 STA=     9778.     9835.     9854.     9873.     9909.     9982.    10193.    10230.
   PER Q=      6.7       5.2       4.0       3.9       2.5      75.8       2.1
    AREA=    307.3     177.5     152.8     192.6     187.0    2337.7     133.8
     VEL=      3.3       4.5       4.0       3.1       2.0       5.0       2.4
   DEPTH=      5.4       9.3       8.0       5.3       2.6      11.1       3.6

 *SECNO 17.662

 3301 HV CHANGED MORE THAN HVINS

 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =    .50

    17.662      12.22   1283.82        .00        .00   1284.71        .89        .52        .17   1276.40
   15400.0     3988.7   11364.7       46.6      605.8    1441.9       21.3       24.8        3.4   1281.60
       .01       6.58      7.88       2.19      .040      .040       .040       .000    1271.60   9829.44
   .003036       380.      391.       400.         2         0          0        .00     319.71  10149.15

 FLOW DISTRIBUTION FOR SECNO=      17.66          CWSEL=   1283.82

 STA=     9829.     9835.     9844.     9871.     9911.     9941.    10130.    10149.
   PER Q=       .0        .9       5.6       9.3      10.1      73.8        .3
    AREA=      3.1      30.8     139.7     223.0     209.2    1441.9      21.3
     VEL=      1.4       4.3       6.1       6.4       7.5       7.9       2.2
   DEPTH=       .6       3.4       5.2       5.6       7.0       7.6       1.1

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

 *SECNO 17.783

 3301 HV CHANGED MORE THAN HVINS

 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =    .66

    17.783      10.18   1285.58        .00        .00   1287.86       2.28       2.74        .42   1280.50
   15400.0      296.5   14381.2      722.3       52.5    1157.6      106.7       48.6        7.0   1281.10
       .03       5.65     12.42       6.77      .040      .040       .040       .000    1275.40   9900.35
   .006939       540.      639.       500.         3         0          0        .00     201.37  10101.72
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FLOW DISTRIBUTION FOR SECNO=     17.78          CWSEL=   1285.58

STA=    9900.    9921.   10064.   10074.   10097.   10102.
  PER Q=      1.9     93.4      2.4      2.3       .0
   AREA=     52.5   1157.6     43.8     60.5      2.3
    VEL=      5.7     12.4      8.3      5.9      1.9
  DEPTH=      2.5      8.1      4.4      2.6       .5

*SECNO 17.932

3301 HV CHANGED MORE THAN HVINS

    17.932     13.08   1290.98   1290.58       .00   1294.60      3.62      6.34       .40   1289.70
   15400.0      60.0   15314.7      25.3      22.4    1000.3      10.3      69.9      10.3   1290.20
       .04      2.68     15.31      2.46      .040      .040      .040      .000   1277.90   9921.07
   .009453      790.      787.      780.         5        11         0       .00    164.24  10085.31


FLOW DISTRIBUTION FOR SECNO=     17.93          CWSEL=   1290.98

STA=    9921.    9956.   10066.   10083.   10085.
  PER Q=       .4     99.4       .2       .0
   AREA=     22.4   1000.3      9.9       .4
    VEL=      2.7     15.3      2.5      1.2
  DEPTH=       .6      9.1       .6       .2

CCHV=     .300 CEHV=     .500
1
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


*SECNO 18.042

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.53

    18.042     12.01   1294.31       .00       .00   1298.14      3.83      3.43       .10   1307.40
   15400.0        .0   15400.0        .0        .0     980.7        .0      83.3      12.1   1307.40
       .05       .00     15.70       .00      .000      .025      .000      .000   1282.30   9951.61
   .004040      620.      581.      550.         4         0         0       .00     96.76  10048.37


FLOW DISTRIBUTION FOR SECNO=     18.04          CWSEL=   1294.31

STA=    9952.   10049.
  PER Q=    100.0
   AREA=    980.7
    VEL=     15.7
  DEPTH=     10.1


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.05      1.56      3.00       .00     75.00      4.00   1059.00       .81   1280.20   1279.90

*SECNO 18.061

3301 HV CHANGED MORE THAN HVINS
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PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1299.43	1299.04	1.15	0.	15400.	1059.	1060.	1293.20	1301.60	0.

18.061	13.34	1296.44	.00	.00	1299.43	2.99	1.29	.00	1308.20
15400.0	.0	15400.0	.0	.0	1109.9	.0	85.7	12.3	1308.20
.06	.00	13.88	.00	.000	.025	.000	.000	1283.10	9951.54
.002757	101.	101.	101.	4	0	0	.00	96.89	10048.43

FLOW DISTRIBUTION FOR SECNO= 18.06 CWSEL= 1296.44

1

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9952. 10049.
PER Q= 100.0
AREA= 1109.9
VEL= 13.9
DEPTH= 11.5

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.03

18.081	18.44	1299.54	.00	.00	1300.24	.71	.13	.69	1286.60
15400.0	1235.5	12528.7	1635.8	321.6	1737.8	383.5	90.0	12.7	1284.90
.06	3.84	7.21	4.27	.035	.035	.035	.000	1281.10	9876.94
.000672	80.	106.	130.	3	0	0	.00	229.58	10106.51

FLOW DISTRIBUTION FOR SECNO= 18.08 CWSEL= 1299.54

STA=	9877.	9899.	9942.	10045.	10088.	10107.
PER Q=	.1	7.9	81.4	10.5	.2	
AREA=	14.7	306.9	1737.8	362.8	20.7	
VEL=	.8	4.0	7.2	4.4	1.2	
DEPTH=	.7	7.1	16.9	8.4	1.1	

CCHV= .100 CEHV= .300
*SECNO 18.174

18.174	18.52	1300.22	.00	.00	1300.52	.30	.24	.04	1288.70
15400.0	1569.9	11409.1	2421.0	475.1	2330.4	1163.1	126.2	17.3	1294.60
.09	3.30	4.90	2.08	.035	.035	.035	.000	1281.70	9856.87
.000364	500.	491.	490.	2	0	0	.00	597.84	10454.71

FLOW DISTRIBUTION FOR SECNO= 18.17 CWSEL= 1300.22

STA=	9857.	9904.	9915.	9919.	10073.	10142.	10182.	10236.	10455.
PER Q=	5.0	3.9	1.3	74.1	4.6	4.8	4.1	2.3	
AREA=	288.0	138.3	48.9	2330.4	313.6	260.8	268.3	320.4	
VEL=	2.6	4.4	4.1	4.9	2.2	2.8	2.4	1.1	

```
  DEPTH=      6.1      12.6      12.2      15.1       4.5       6.5       5.0       1.5

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

 *SECNO 18.269

 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =    .64

    18.269     16.37   1300.17       .00       .00   1300.93       .76       .27       .14   1288.40
   15400.0    2261.7   12456.3     682.0     445.5    1677.2     198.9     162.4      22.1   1292.40
       .11      5.08      7.43      3.43      .035      .035      .035      .000   1283.80   9881.86
   .000901      500.      502.      500.         2         0         0       .00    228.73  10110.59

 FLOW DISTRIBUTION FOR SECNO=     18.27          CWSEL=   1300.17

 STA=    9882.    9928.    9942.   10060.   10071.   10111.
   PER Q=      7.5      7.2     80.9      2.3      2.1
    AREA=    278.5    166.9   1677.2     76.7    122.2
     VEL=      4.1      6.7      7.4      4.6      2.7
   DEPTH=      6.0     11.9     14.2      7.0      3.1

 *SECNO 18.362
    18.362     15.24   1300.54       .00       .00   1301.51       .97       .51       .06   1290.00
   15400.0    1154.3   13225.2    1020.5     240.2    1585.2     239.3     187.2      24.6   1290.60
       .13      4.80      8.34      4.26      .035      .035      .035      .000   1285.30   9895.20
   .001223      490.      491.      510.         2         0         0       .00    212.97  10108.18

 FLOW DISTRIBUTION FOR SECNO=     18.36          CWSEL=   1300.54

 STA=    9895.    9905.    9942.   10060.   10108.
   PER Q=       .1      7.4     85.9      6.6
    AREA=      9.5    230.7   1585.2    239.3
     VEL=      1.4      4.9      8.3      4.3
   DEPTH=      1.0      6.2     13.4      5.0

 *SECNO 18.445

 3301 HV CHANGED MORE THAN HVINS

 3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED
    18.445     18.09   1305.39   1305.39       .00   1307.48      2.09       .94       .34   1290.00
   15400.0    5165.6    3758.3    6476.1     569.9     217.6     715.8     205.8      27.8   1290.00
       .14      9.06     17.27      9.05      .035      .035      .035      .000   1287.30   9885.22
   .004315      470.      440.      460.        20        11         0       .00    386.47  10271.68

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST
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FLOW DISTRIBUTION FOR SECNO= 18.44 CWSEL= 1305.39

STA=	9885.	9920.	9978.	9992.	10005.	10040.	10060.	10097.	10200.	10272.
PER Q=	3.3	18.8	11.5	24.4	30.6	4.3	3.9	3.2	.1	
AREA=	93.8	327.2	149.0	217.6	363.7	87.8	107.0	143.3	14.0	
VEL=	5.4	8.8	11.9	17.3	12.9	7.5	5.7	3.5	.9	
DEPTH=	2.7	5.6	10.6	16.7	10.4	4.4	2.9	1.4	.2	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	2.34	3.00	.00	6.11	1.00	33.20	.00	1287.70	1287.40

*SECNO 18.456

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.46

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
9123.38	1308.44	.96	15108.	298.	33.	33.	1294.20	1299.50	458.

18.456	19.61	1307.31	.00	.00	1308.31	1.00	.83	.00	1290.40
15400.0	5168.4	2970.6	7261.0	741.4	237.5	1182.5	208.3	28.3	1290.40
.14	6.97	12.51	6.14	.035	.035	.035	.000	1287.70	9873.21
.002014	60.	60.	60.	3	0	8	.00	443.73	10316.94

FLOW DISTRIBUTION FOR SECNO= 18.46 CWSEL= 1307.31

STA=	9873.	9880.	9920.	9978.	9992.	10005.	10040.	10060.	10097.	10200.	10310.	10317.
PER Q=	.0	4.6	19.1	9.8	19.3	26.2	4.8	5.4	7.6	3.0	.0	
AREA=	2.4	152.8	415.8	170.4	237.5	417.2	118.4	163.5	300.7	178.1	4.6	
VEL=	1.0	4.6	7.1	8.9	12.5	9.7	6.2	5.1	3.9	2.6	1.4	
DEPTH=	.4	3.8	7.2	12.2	18.3	11.9	5.9	4.4	2.9	1.6	.7	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.09

18.545	18.98	1308.28	.00	.00	1308.76	.47	.39	.05	1294.10
15400.0	1745.2	11300.0	2354.7	495.0	1857.3	682.4	236.0	32.3	1293.80
.17	3.53	6.08	3.45	.035	.035	.035	.000	1289.30	9881.31
.000460	440.	466.	480.	2	0	0	.00	288.68	10169.98

FLOW DIST[illegible]TION FOR SECNO= 18.55 CWSEL= 1308.28

STA=	9881.	9889.	9951.	10058.	10073.	10094.	10108.	10121.	10135.	10170.
PER Q=	.0	11.3	73.4	5.4	4.8	1.9	1.0	1.1	1.0	
AREA=	6.1	488.9	1857.3	179.8	188.7	93.6	60.3	67.7	92.4	
VEL=	.8	3.6	6.1	4.6	3.9	3.2	2.5	2.6	1.7	
DEPTH=	.8	7.9	17.4	12.0	9.0	6.7	4.6	4.8	2.6	

*SECNO 18.575

18.575	19.13	1308.43	.00	.00	1308.83	.41	.07	.01	1291.50
15400.0	3584.2	3152.3	8663.5	833.2	511.1	1731.9	247.2	33.3	1289.70
.18	4.30	6.17	5.00	.035	.035	.035	.000	1289.30	9880.61
.000442	160.	160.	160.	2	0	0	.00	290.32	10170.93

FLOW DISTRIBUTION FOR SECNO= 18.58 CWSEL= 1308.43

STA=	9881.	9951.	9972.	10000.	10018.	10040.	10058.	10073.	10094.	10135.	10171.
PER Q=	11.4	11.8	20.5	13.8	16.2	10.8	5.4	4.8	4.1	1.1	
AREA=	505.0	328.2	511.1	337.1	403.2	293.0	181.9	191.7	227.4	97.5	
VEL=	3.5	5.5	6.2	6.3	6.2	5.7	4.5	3.9	2.8	1.7	
DEPTH=	7.2	15.6	18.3	18.7	18.3	16.3	12.1	9.1	5.5	2.7	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.25	1.56	3.00	.00	10.40	1.00	56.50	.00	1289.40	1289.30

*SECNO 18.583
PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3108.06	1308.92	.09	14974.	431.	57.	56.	1295.40	1299.00	288.

18.583	20.10	1309.50	.00	.00	1309.84	.34	1.00	.00	1291.60
15400.0	3685.4	3046.3	8668.3	924.1	538.2	1900.7	250.2	33.6	1289.80
.18	3.99	5.66	4.56	.035	.035	.035	.000	1289.40	9875.91
.000347	40.	40.	40.	2	0	7	.00	301.44	10177.35

FLOW DISTRIBUTION FOR SECNO= 18.58 CWSEL= 1309.50

STA=	9876.	9951.	9972.	10000.	10018.	10040.	10058.	10073.	10094.	10121.	10177.
PER Q=	12.3	11.6	19.8	13.3	15.7	10.5	5.4	5.1	3.4	2.9	
AREA=	575.5	348.5	538.2	354.6	424.5	310.5	196.5	212.0	183.9	218.7	
VEL=	3.3	5.1	5.7	5.8	5.7	5.2	4.2	3.7	2.8	2.0	
DEPTH=	7.7	16.6	19.2	19.7	19.3	17.2	13.1	10.1	6.8	3.9	

*SECNO 18.640

18.640	19.23	1309.43	.00	.00	1310.07	.64	.14	.09	1294.60
15400.0	2345.6	9850.5	3203.9	512.4	1350.9	710.6	271.0	35.5	1293.40
.19	4.58	7.29	4.51	.035	.035	.035	.000	1290.20	9879.37
.000663	300.	301.	310.	2	0	0	.00	255.52	10134.89

```
FLOW DISTRIBUTION FOR SECNO=     18.64          CWSEL=   1309.43

STA=    9879.    9887.    9920.    9955.   10033.   10111.   10132.   10135.
  PER Q=       .0      2.3     12.9     64.0     20.6       .2       .0
   AREA=      3.9    129.6    378.9   1350.9    688.5     21.6       .6
    VEL=       .7      2.7      5.3      7.3      4.6      1.1       .4
  DEPTH=       .5      3.9     10.8     17.3      8.8      1.0       .2
```



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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 18.734
    18.734     17.28   1309.68       .00       .00   1310.53       .84       .40       .06   1298.60
   15400.0    1314.3   13486.7     599.0     303.8    1747.6     174.8     298.3      38.3   1300.80
       .21      4.33      7.72      3.43      .035      .035      .035      .000   1292.40   9883.01
   .000985      490.      496.      500.         0         0         0       .00    228.83  10111.84

FLOW DISTRIBUTION FOR SECNO=     18.73          CWSEL=   1309.68

STA=    9883.    9888.    9938.   10062.   10094.   10104.   10112.
  PER Q=       .0      8.5     87.6      3.7       .1       .1
   AREA=      2.4    301.3   1747.6    152.9     13.8      8.1
    VEL=       .8      4.4      7.7      3.7      1.6      1.3
  DEPTH=       .5      6.0     14.1      4.8      1.4      1.0

*SECNO 18.832
    18.832     16.99   1310.19       .00       .00   1311.04       .85       .51       .00   1302.80
   15400.0    437.5   12951.8    2010.7     137.9    1657.8     397.7     324.5      40.9   1297.10
       .23      3.17      7.81      5.06      .035      .035      .035      .000   1293.20   9891.67
   .001003      480.      517.      540.         2         0         0       .00    216.17  10107.84

FLOW DISTRIBUTION FOR SECNO=     18.83          CWSEL=   1310.19

STA=    9892.    9929.   10046.   10095.   10108.
  PER Q=      2.8     84.1     12.9       .2
   AREA=    137.9   1657.8    381.7     16.0
    VEL=      3.2      7.8      5.2      1.5
  DEPTH=      3.7     14.2      7.8      1.2

*SECNO 18.925
    18.925     16.04   1310.64       .00       .00   1311.60       .97       .53       .03   1297.60
   15400.0   1711.9   12782.4     905.7     348.3    1523.8     210.1     348.6      43.3   1300.00
       .25      4.92      8.39      4.31      .035      .035      .035      .000   1294.60   9887.57
   .001144      480.      491.      500.         2         0         0       .00    200.07  10087.64

FLOW DISTRIBUTION FOR SECNO=     18.92          CWSEL=   1310.64

STA=    9888.    9941.   10048.   10087.
  PER Q=     11.1     83.0      5.9
   AREA=    348.3   1523.8    210.1
    VEL=      4.9      8.4      4.3
  DEPTH=      6.5     14.2      5.4
```

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19.018

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

19.018	13.29	1310.89	.00	.00	1312.69	1.80	.84	.25	1305.10
15400.0	489.5	14883.1	27.4	106.9	1362.9	10.7	368.5	45.4	1308.40
.26	4.58	10.92	2.56	.035	.035	.035	.000	1297.60	9866.12
.002864	460.	491.	520.	2	0	0	.00	172.44	10038.56

FLOW DISTRIBUTION FOR SECNO= 19.02 CWSEL= 1310.89

STA=	9866.	9903.	10030.	10039.
PER Q=	3.2	96.6	.2	
AREA=	106.9	1362.9	10.7	
VEL=	4.6	10.9	2.6	
DEPTH=	2.9	10.7	1.2	

*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

19.117	13.89	1312.49	1312.49	.00	1316.85	4.37	2.18	.77	1302.90
15400.0	1414.2	11917.8	2068.0	148.6	652.4	198.2	383.4	47.1	1301.50
.27	9.52	18.27	10.43	.035	.035	.035	.000	1298.60	9942.00
.006608	490.	523.	560.	20	8	0	.00	120.09	10062.09

FLOW DISTRIBUTION FOR SECNO= 19.12 CWSEL= 1312.49

STA=	9942.	9973.	10026.	10062.
PER Q=	9.2	77.4	13.4	
AREA=	148.6	652.4	198.2	
VEL=	9.5	18.3	10.4	
DEPTH=	4.8	12.3	5.5	

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.61

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   19.210      16.99   1317.19       .00       .00   1319.01      1.82      1.90       .25   1312.00
  15400.0      227.0   14955.2     217.8      57.2    1364.2      55.0     397.4      48.7   1312.00
      .28       3.97     10.96      3.96      .035      .035      .035      .000   1300.20   9922.94
 .002538       500.      491.      490.         3         0         0       .00    158.26  10081.20

FLOW DISTRIBUTION FOR SECNO=     19.21          CWSEL=   1317.19

STA=    9923.    9945.   10060.   10081.
  PER Q=      1.5      97.1      1.4
   AREA=     57.2    1364.2     55.0
    VEL=      4.0      11.0      4.0
  DEPTH=      2.6      11.9      2.6

CCHV=     .300 CEHV=     .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1324.00 ELREA=      1324.00

   19.283       8.22   1319.92   1319.92       .00   1324.04      4.12      1.64      1.15   1311.70
  14600.0         .0   14600.0        .0        .0     896.1        .0     407.9      49.9   1311.70
      .29        .00     16.29       .00      .000      .035      .000      .000   1311.70   9948.00
 .008876       390.      386.      390.        20        11         0       .00    109.00  10057.00

FLOW DISTRIBUTION FOR SECNO=     19.28          CWSEL=   1319.92

STA=    9948.   10057.
  PER Q=    100.0
   AREA=    896.1
    VEL=     16.3
  DEPTH=      8.2
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1318.71 , NOT    1319.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
      .90      1.56      3.00       .00    109.00      4.50   1304.00       .00   1311.70   1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.=    1320.16 BRIDGE VELOCITY=      16.51     CALCULATED CHANNEL AREA=       884.
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EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1322.96	1324.65	.00	0.	14600.	1304.	1306.	1324.20	1326.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1325.00 ELREA= 1325.00

19.299	10.36	1322.06	.00	.00	1324.65	2.60	.61	.00	1311.70
14600.0	.0	14600.0	.0	.0	1128.7	.0	409.9	50.1	1311.70
.29	.00	12.94	.00	.000	.035	.000	.000	1311.70	9948.00
.004112	86.	86.	86.	0	0	0	.00	109.00	10057.00

FLOW DISTRIBUTION FOR SECNO= 19.30 CWSEL= 1322.06

STA= 9948. 10057.
PER Q= 100.0
AREA= 1128.7
VEL= 12.9
DEPTH= 10.4

*SECNO 19.313

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

19.313	11.61	1323.31	.00	.00	1325.17	1.87	.30	.22	1327.90
14600.0	.0	14600.0	.0	.0	1330.9	.0	412.0	50.3	1325.50
.29	.00	10.97	.00	.000	.035	.000	.000	1311.70	9944.34
.004073	75.	74.	75.	4	0	0	.00	159.66	10104.00

FLOW DISTRIBUTION FOR SECNO= 19.31 CWSEL= 1323.31

STA= 9944. 10112.
PER Q= 100.0
AREA= 1330.9
VEL= 11.0
DEPTH= 8.3

CCHV= .100 CEHV= .300
*SECNO 19.418

19.418	12.59	1325.59	.00	.00	1327.43	1.83	2.25	.00	1328.00
14600.0	.0	14600.0	.0	.0	1343.4	.0	429.0	52.4	1326.10
.31	.00	10.87	.00	.000	.035	.000	.000	1313.00	9955.11
.004041	570.	554.	530.	2	0	0	.00	162.69	10117.80

FLOW DISTRIBUTION FOR SECNO= 19.42 CWSEL= 1325.59

STA= 9955. 10120.
PER Q= 100.0
AREA= 1343.4
VEL= 10.9
DEPTH= 8.3

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*SECNO 19.560
    19.560      12.61   1328.21       .00       .00   1330.15      1.94      2.69       .03   1329.70
   14600.0         .0   14600.0        .0        .0    1307.1        .0     451.2      54.8   1330.60
       .32        .00     11.17       .00      .000      .035      .000      .000   1315.60   9931.38
   .003389       730.      729.      720.         2         0         0       .00    129.60  10060.98
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

FLOW DISTRIBUTION FOR SECNO=     19.56          CWSEL=   1328.21

STA=    9931.   10065.
  PER Q=    100.0
   AREA=   1307.1
    VEL=     11.2
  DEPTH=     10.1

CCHV=     .300 CEHV=     .500
*SECNO 19.625

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.55

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1332.00 ELREA=      1332.00

    19.625      12.29   1329.89       .00       .00   1330.82       .93       .37       .30   1317.60
    5700.0         .0    5700.0        .0        .0     737.6        .0     459.7      55.6   1317.60
       .34        .00      7.73       .00      .000      .015      .000      .000   1317.60   9965.00
   .000214       580.      364.       70.         2         0         0       .00     60.00  10025.00

FLOW DISTRIBUTION FOR SECNO=     19.63          CWSEL=   1329.89

STA=    9965.   10025.
  PER Q=    100.0
   AREA=    737.6
    VEL=      7.7
  DEPTH=     12.3

SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.05      1.56      3.00    100.00     60.00      2.00    564.00       .00   1318.60   1317.60

*SECNO 19.691
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST
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PRESSURE

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1332.37	1331.05	.08	0.	5700.	564.	563.	1328.30	1334.80	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1333.00 ELREA= 1333.00

19.691	12.93	1331.53	.00	.00	1332.37	.84	1.55	.00	1318.60
5700.0	.0	5700.0	.0	.0	775.9	.0	465.8	56.1	1318.60
.35	.00	7.35	.00	.000	.015	.000	.000	1318.60	9965.00
.000181	330.	350.	430.	2	0	0	.00	60.00	10025.00

FLOW DISTRIBUTION FOR SECNO= 19.69 CWSEL= 1331.53

STA= 9965. 10025.
PER Q= 100.0
AREA= 775.9
VEL= 7.3
DEPTH= 12.9

*SECNO 19.742

19.742	12.89	1331.99	.00	.00	1332.51	.52	.05	.10	1331.60
5700.0	.8	5699.0	.2	3.4	985.5	.8	471.3	56.6	1331.00
.36	.23	5.78	.30	.035	.015	.035	.000	1319.10	9935.22
.000165	80.	269.	470.	2	0	0	.00	108.35	10043.57

FLOW DISTRIBUTION FOR SECNO= 19.74 CWSEL= 1331.99

STA= 9935. 9948. 10042. 10044.
PER Q= .0 100.0 .0
AREA= 3.4 985.5 .8
VEL= .2 5.8 .3
DEPTH= .3 10.5 .5

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 19.847

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .36

19.847	13.34	1332.14	.00	.00	1332.73	.59	.20	.02	1336.30
5700.0	.0	5700.0	.0	.0	925.1	.0	483.4	58.0	1335.80
.39	.00	6.16	.00	.000	.035	.000	.000	1318.80	9940.63
.001296	570.	554.	520.	2	0	0	.00	109.85	10050.49

FLOW DISTRIBUTION FOR SECNO= 19.85 CWSEL= 1332.14

STA= 9941. 10062.
PER Q= 100.0
AREA= 925.1
VEL= 6.2

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  DEPTH=       8.4

*SECNO 19.960

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .39

    19.960      7.77   1332.37   1332.22       .00   1334.93      2.55      1.61       .59   1330.00
    5700.0      38.9    5629.3      31.8       9.0     436.7       7.5     492.9      59.3   1330.00
       .40      4.31     12.89      4.25      .035      .035      .035      .000   1324.60   9950.40
   .008699      640.      597.      560.         4        11         0       .00     86.88  10037.28


FLOW DISTRIBUTION FOR SECNO=     19.96          CWSEL=   1332.37

STA=    9950.    9958.   10031..   10037.
  PER Q=       .7     98.8       .6
   AREA=      9.0    436.7      7.5
    VEL=      4.3     12.9      4.3
  DEPTH=      1.2      6.0      1.2

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


CCHV=     .300 CEHV=     .500
*SECNO 19.974

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.51


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1336.00 ELREA=      1336.00

    19.974      9.51   1333.31       .00       .00   1335.46      2.14       .41       .12   1323.80
    5700.0        .0    5700.0        .0        .0     485.1        .0     493.7      59.4   1323.80
       .40       .00     11.75       .00      .000      .035      .000      .000   1323.80   9969.00
   .003800      105.       74.       65.         3         0         0       .00     51.00  10020.00


FLOW DISTRIBUTION FOR SECNO=     19.97          CWSEL=   1333.31

STA=    9969.   10020.
  PER Q=    100.0
   AREA=    485.1
    VEL=     11.8
  DEPTH=      9.5


SPECIAL BRIDGE

SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.25       1.56       3.00        .00     51.00       3.00     480.00        .00   1324.10   1323.80

*SECNO 19.986

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW
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EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1336.73	1336.01	.92	0.	5700.	480.	480.	1334.10	1337.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1337.00 ELREA= 1337.00

19.986	11.45	1335.25	.00	.00	1336.73	1.48	1.27	.00	1323.80
5700.0	.0	5700.0	.0	.0	584.0	.0	494.4	59.5	1323.80
.40	.00	9.76	.00	.000	.035	.000	.000	1323.80	9969.00
.002047	61.	61.	61.	3	0	0	.00	51.00	10020.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 19.99 CWSEL= 1335.25

STA= 9969. 10020.
PER Q= 100.0
AREA= 584.0
VEL= 9.8
DEPTH= 11.5

*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1340.00 ELREA= 1339.40

20.049	11.25	1338.35	1338.35	.00	1341.90	3.54	1.32	1.03	1343.40
5700.0	.0	5700.0	.0	.0	377.3	.0	498.1	59.9	1339.40
.41	.00	15.11	.00	.000	.035	.000	.000	1327.10	9971.56
.010738	305.	333.	345.	20	8	0	.00	53.63	10025.19

FLOW DISTRIBUTION FOR SECNO= 20.05 CWSEL= 1338.35

STA= 9972. 10027.
PER Q= 100.0
AREA= 377.3
VEL= 15.1
DEPTH= 7.0

CCHV= .100 CEHV= .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.69

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1344.00 ELREA=      1340.80

    20.144     12.58   1343.48        .00        .00   1345.07       1.58       2.97        .20   1344.60
    5700.0        .0    5588.6      111.4         .0     548.7       32.7      503.6       60.7   1340.80
       .42       .00     10.19       3.41       .000      .035       .040       .000    1330.90   9960.58
   .003744      490.      502.       500.          2         0          0        .00      83.94  10044.51

FLOW DISTRIBUTION FOR SECNO=     20.14          CWSEL=   1343.48

STA=    9961.   10025.   10040.   10045.
  PER Q=     98.0      1.9       .1
   AREA=    548.7     29.8      2.9
    VEL=     10.2      3.6      1.6
  DEPTH=      8.5      2.0       .6

*SECNO 20.242

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1348.00 ELREA=      1342.80

    20.242     12.19   1345.49        .00        .00   1347.06       1.57       1.99        .00   1347.20
    5700.0        .0    5546.3      153.7         .0     545.0       40.2      510.6       61.7   1342.80
       .44       .00     10.18       3.83       .000      .035       .040       .000    1333.30   9961.30
   .003942      470.      517.       560.          3         0          0        .00      88.68  10049.98

FLOW DISTRIBUTION FOR SECNO=     20.24          CWSEL=   1345.49

STA=    9961.   10029.   10041.   10050.
  PER Q=     97.3      2.2       .5
   AREA=    545.0     29.9     10.3
    VEL=     10.2      4.3      2.5
  DEPTH=      8.1      2.5      1.1

*SECNO 20.335
    20.335     10.14   1347.44        .00        .00   1348.61       1.17       1.51        .04   1344.00
    5700.0      31.7    5639.2       29.1      12.8     646.3       11.8      517.7       62.7   1344.00
       .46      2.48      8.72       2.46       .040      .035       .040       .000    1337.30   9950.57
   .002469      510.      491.       470.          2         0          0        .00      88.31  10038.88
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=     20.33          CWSEL=   1347.44

STA=    9951.    9958.   10032.   10039.
  PER Q=       .6     98.9       .5
   AREA=      12.8    646.3     11.8
    VEL=       2.5      8.7      2.5
  DEPTH=       1.7      8.7      1.7
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CCHV=      .300 CEHV=      .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1351.50 ELREA=      1351.50

    20.347     10.04   1347.24       .00       .00   1349.16      1.92       .18       .38   1337.20
    5700.0        .0    5700.0        .0        .0     512.0        .0     518.5      62.8   1337.20
       .46       .00     11.13       .00      .000      .035      .000      .000   1337.20   9970.00
   .003174        1.       63.      150.         2         0         0       .00     51.00  10021.00


FLOW DISTRIBUTION FOR SECNO=     20.35          CWSEL=   1347.24

STA=    9970.   10021.
  PER Q=    100.0
   AREA=    512.0
    VEL=     11.1
  DEPTH=     10.0


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00    100.00     51.00      3.00    576.00       .00   1337.70   1337.20

*SECNO 20.366
CLASS A LOW FLOW

3420 BRIDGE W.S.=    1347.00 BRIDGE VELOCITY=      12.43     CALCULATED CHANNEL AREA=       446.
1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


 EGPRS      EGLWC      H3        QWEIR     QLOW      BAREA   TRAPEZOID      ELLC      ELTRD     WEIRLN
                                                              AREA
       .00   1349.64       .73        0.     5700.      576.      576.     1349.70   1354.50        0.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1352.50 ELREA=      1352.50

    20.366     10.77   1347.97       .00       .00   1349.64      1.67       .48       .00   1337.20
    5700.0        .0    5700.0        .0        .0     549.1        .0     519.7      63.0   1337.20
       .46       .00     10.38       .00      .000      .035      .000      .000   1337.20   9970.00
   .002515      100.      100.      100.         0         0         0       .00     51.00  10021.00


FLOW DISTRIBUTION FOR SECNO=     20.37          CWSEL=   1347.97

STA=    9970.   10021.
  PER Q=    100.0
   AREA=    549.1
    VEL=     10.4
  DEPTH=     10.8

*SECNO 20.423
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3301 HV CHANGED MORE THAN HVINS

20.423	11.57	1349.57	.00	.00	1350.51	.94	.65	.22	1345.00
5700.0	101.7	5266.2	332.1	37.2	655.8	86.9	524.3	63.5	1344.30
.47	2.73	8.03	3.82	.040	.035	.040	.000	1338.00	9958.69
.001888	415.	301.	205.	3	0	0	.00	112.82	10071.51

FLOW DISTRIBUTION FOR SECNO= 20.42 CWSEL= 1349.57

STA=	9959.	9975.	10045.	10055.	10072.
PER Q=	1.8	92.4	4.0	1.8	
AREA=	37.2	655.8	49.2	37.7	
VEL=	2.7	8.0	4.7	2.7	
DEPTH=	2.3	9.4	4.9	2.3	

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.430	9.83	1349.13	.00	.00	1351.13	2.01	.09	.53	1339.30
5700.0	.0	5700.0	.0	.0	501.4	.0	524.8	63.6	1339.30
.47	.00	11.37	.00	.000	.035	.000	.000	1339.30	9985.00
.003403	1.	37.	65.	2	0	0	.00	51.00	10036.00

FLOW DISTRIBUTION FOR SECNO= 20.43 CWSEL= 1349.13

STA=	9985.	10036.
PER Q=	100.0	
AREA=	501.4	
VEL=	11.4	
DEPTH=	9.8	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1339.30	1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1348.59 BRIDGE VELOCITY= 12.79 CALCULATED CHANNEL AREA= 446.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1351.50	1351.64	.80	0.	5700.	576.	576.	1351.30	1355.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1353.50 ELREA= 1353.50

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    20.444      10.62   1349.92       .00       .00   1351.64      1.72       51       .00   1339.30
    5700.0         .0    5700.0        .0        .0     541.8        .0    525.7      63.7   1339.30
       .47        .00     10.52       .00      .000      .035      .000     .000   1339.30   9985.00
   .002628        70.       70.       70.         0         0         0      .00     51.00  10036.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=     20.44          CWSEL=   1349.92

STA=    9985.   10036.
  PER Q=    100.0
   AREA=    541.8
    VEL=     10.5
  DEPTH=     10.6

*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS

    20.529       9.25   1352.25       .00       .00   1352.95       .70      1.00       .31   1350.20
    5700.0      165.5    5398.1     136.3      70.2     784.4      61.5     533.2      64.9   1350.40
       .49       2.36      6.88      2.22      .040      .035      .040      .000   1343.00   9905.35
   .001924       545.      449.      375.         3         0         0       .00    189.83  10095.18

FLOW DISTRIBUTION FOR SECNO=     20.53          CWSEL=   1352.25

STA=    9905.    9910.    9947.   10055.   10090.   10095.
  PER Q=       .1      2.8     94.7      2.3       .1
   AREA=      3.6     66.6    784.4     57.8      3.8
    VEL=      1.3      2.4      6.9      2.3      1.3
  DEPTH=       .8      1.8      7.3      1.7       .7

CCHV=     .100 CEHV=     .300
*SECNO 20.628
    20.628      10.01   1353.31       .00       .00   1353.74       .43       .76       .03   1357.10
    5700.0         .0    5700.0        .0        .0    1089.4        .0     545.3      67.0   1356.30
       .52        .00      5.23       .00      .000      .035      .000      .000   1343.30   9917.80
   .001125       530.      523.      520.         2         0         0       .00    150.61  10068.41

FLOW DISTRIBUTION FOR SECNO=     20.63          CWSEL=   1353.31

STA=    9918.   10076.
  PER Q=    100.0
   AREA=   1089.4
    VEL=      5.2
  DEPTH=      7.2
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST
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*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    20.725      8.84   1356.04   1356.04       .00   1359.09      3.06      1.32       .79   1360.40
    5700.0        .0    5700.0        .0        .0     406.2        .0     554.0      68.2   1361.00
       .53       .00     14.03       .00      .000      .035      .000      .000   1347.20   9959.29
   .010764      510.      512.      520.        20        11         0       .00     67.22  10026.51


FLOW DISTRIBUTION FOR SECNO=     20.73          CWSEL=   1356.04

STA=    9959.   10036.
  PER Q=    100.0
   AREA=    406.2
    VEL=     14.0
  DEPTH=      6.0

CCHV=     .300 CEHV=     .500
*SECNO 20.737

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1363.00 ELREA=      1363.00

    20.737      7.27   1358.17   1358.17       .00   1361.84      3.67       .80       .31   1350.90
    5700.0        .0    5700.0        .0        .0     370.6        .0     554.8      68.4   1350.90
       .53       .00     15.38       .00      .000      .035      .000      .000   1350.90   9968.00
   .009320       80.       80.       80.        20        15         0       .00     51.00  10019.00


FLOW DISTRIBUTION FOR SECNO=     20.74          CWSEL=   1358.17

STA=    9968.   10019.
  PER Q=    100.0
   AREA=    370.6
    VEL=     15.4
  DEPTH=      7.3
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1356.93 , NOT    1358.17 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00    100.00     51.00      3.00    576.00       .00   1351.00   1350.90

*SECNO 20.750
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3301 HV CH[illegible]D MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.59

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1358.54 BRIDGE VELOCITY= 15.64 CALCULATED CHANNEL AREA= 362.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1362.70	.00	0.	5700.	576.	576.	1363.00	1366.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1364.00 ELREA= 1364.00

20.750	9.60	1360.60	.00	.00	1362.70	2.11	.86	.00	1351.00
5700.0	.0	5700.0	.0	.0	489.5	.0	555.5	68.4	1351.00
.53	.00	11.64	.00	.000	.035	.000	.000	1351.00	9968.00
.003686	71.	71.	71.	0	0	0	.00	51.00	10019.00

FLOW DISTRIBUTION FOR SECNO= 20.75 CWSEL= 1360.60

STA= 9968. 10019.
PER Q= 100.0
AREA= 489.5
VEL= 11.6
DEPTH= 9.6

*SECNO 20.819

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1366.90 ELREA= 1366.90

20.819	5.87	1362.37	.00	.00	1364.78	2.41	1.92	.15	1356.50
5700.0	.0	5700.0	.0	.0	457.6	.0	559.4	69.0	1356.50
.54	.00	12.46	.00	.000	.035	.000	.000	1356.50	9965.00
.008133	375.	365.	345.	3	0	0	.00	78.00	10043.00

FLOW DISTRIBUTION FOR SECNO= 20.82 CWSEL= 1362.37

STA= 9965. 10043.
PER Q= 100.0
AREA= 457.6
VEL= 12.5
DEPTH= 5.9

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1361.20 , NOT 1362.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
1.05	1.56	3.00	100.00	77.30	3.30	655.00	.00	1357.40	1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1362.64 BRIDGE VELOCITY= 13.54 CALCULATED CHANNEL AREA= 388.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1364.20	1366.08	.00	0.	5700.	655.	592.	1365.40	1369.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1367.90 ELREA= 1367.90

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
20.841	6.98	1364.38	.00	.00	1366.08	1.70	1.31	.00	1357.40
5700.0	.0	5700.0	.0	.0	544.7	.0	560.7	69.2	1357.40
.54	.00	10.46	.00	.000	.035	.000	.000	1357.40	9965.00
.004551	115.	115.	115.	0	0	0	.00	78.00	10043.00

FLOW DISTRIBUTION FOR SECNO= 20.84 CWSEL= 1364.38

STA=	9965.	10043.
PER Q=	100.0	
AREA=	544.7	
VEL=	10.5	
DEPTH=	7.0	

*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1365.30 ELREA= 1367.60

20.860	9.68	1365.98	.00	.00	1366.67	.69	.28	.30	1365.30
5700.0	86.2	5613.8	.0	77.9	834.8	.0	562.4	69.6	1367.60
.55	1.11	6.72	.00	.040	.035	.000	.000	1356.30	9800.89
.001946	90.	100.	110.	2	0	0	.00	261.14	10062.04

FLOW DISTRIBUTION FOR SECNO= 20.86 CWSEL= 1365.98

STA=	9801.	9846.	9942.	10066.
PER Q=	.4	1.1	98.5	
AREA=	21.8	56.1	834.8	
VEL=	1.0	1.1	6.7	
DEPTH=	.5	.6	7.0	

CCHV= [illegible] CEHV= .300
*SECNO 20.942

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

20.942	7.69	1367.29	.00	.00	1367.72	.43	1.02	.03	1368.60
5700.0	.0	3724.4	1975.6	.0	673.2	417.4	572.7	72.7	1366.50
.57	.02	5.53	4.73	.040	.035	.035	.000	1359.60	9629.81
.002779	530.	433.	490.	2	0	0	.00	313.22	10168.29

FLOW DISTRIBUTION FOR SECNO= 20.94 CWSEL= 1367.29

STA=	9630.	10024.	10027.	10053.	10070.	10114.	10153.	10168.
PER Q=	65.3	.3	5.3	2.5	6.4	17.0	3.3	
AREA=	673.2	5.1	69.9	37.2	96.3	165.3	43.5	
VEL=	5.5	2.9	4.3	3.8	3.8	5.9	4.3	
DEPTH=	4.0	1.7	2.7	2.2	2.2	4.2	2.8	

*SECNO 21.036

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.036	8.45	1371.95	1371.95	.00	1373.07	1.12	1.76	.21	1370.70
5700.0	367.1	5202.8	130.1	186.3	586.7	55.7	583.6	77.4	1370.40
.59	1.97	8.87	2.34	.040	.035	.040	.000	1363.50	9568.93
.004734	490.	496.	490.	20	12	0	.00	520.10	10089.02

FLOW DISTRIBUTION FOR SECNO= 21.04 CWSEL= 1371.95

STA=	9569.	9665.	9728.	9758.	9867.	9912.	10020.	10041.	10075.	10089.
PER Q=	.7	.5	.1	2.7	2.5	91.3	1.2	.9	.2	
AREA=	31.1	21.8	5.9	75.9	51.6	586.7	24.1	25.4	6.3	
VEL=	1.2	1.3	.9	2.0	2.8	8.9	2.8	2.1	1.5	
DEPTH=	.3	.3	.2	.7	1.1	5.4	1.1	.7	.4	

*SECNO 21.127
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1374.00 ELREA= 1375.00

21.127	8.05	1374.75	1374.75	.00	1375.74	1.00	2.13	.01	1374.20

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    5700.0    1077.1    4622.9        .0     394.1     525.4        .0     592.7      82.0   1375.00
       .61      2.73      8.80       .00      .040      .035      .000      .000   1366.70   9631.62
   .004360      400.      480.      500.         2        10         0       .00    434.39  10066.01

FLOW DISTRIBUTION FOR SECNO=     21.13          CWSEL=   1374.75

STA=    9632.    9634.    9666.    9759.    9860.    9913.    9974.   10067.
  PER Q=      .0      1.7      5.8      6.7      2.9      1.8     81.1
   AREA=     1.4     36.7    115.9    130.9     60.7     48.6    525.4
    VEL=     1.6      2.7      2.8      2.9      2.7      2.1      8.8
  DEPTH=      .6      1.1      1.2      1.3      1.1       .8      5.7

*SECNO 21.230

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.230      8.36   1380.36   1380.36       .00   1381.67      1.30      2.99       .09   1379.30
    5700.0     508.8    4046.9    1144.3     153.5     391.9     191.5     603.1      86.7   1380.60
       .62      3.32     10.33      5.98      .040      .035      .040      .000   1372.00   9818.28
   .007215      560.      544.      500.        20         8         0       .00    304.81  10126.36

FLOW DISTRIBUTION FOR SECNO=     21.23          CWSEL=   1380.36

STA=    9818.    9879.    9930.    9967.   10048.   10083.   10102.   10117.   10126.
  PER Q=      3.2      3.0      2.7     71.0      6.7      6.3      4.7      2.5
   AREA=     57.4     52.7     43.4    391.9     69.9     55.4     42.2     24.0
    VEL=      3.2      3.3      3.5     10.3      5.4      6.4      6.3      5.9
  DEPTH=       .9      1.0      1.2      5.0      2.0      2.9      2.8      2.6

*SECNO 21.363
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

3265 DIVIDED FLOW

3280 CROSS SECTION     21.36 EXTENDED       .36 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.07

    21.363      9.27   1383.37       .00       .00   1383.90       .53      2.16       .08   1384.40
    5700.0      98.2    5566.2      35.7      50.6     939.1      46.3     617.4      92.2   1382.10
       .66      1.94      5.93       .77      .040      .035      .040      .000   1374.10   9556.04
   .001686      740.      702.      700.         2         0         0       .00    366.91  10337.00

FLOW DISTRIBUTION FOR SECNO=     21.36          CWSEL=   1383.37

STA=    9556.    9923.   10088.   10337.
  PER Q=      1.7     97.7       .6
   AREA=     50.6    939.1     46.3
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   VEL=        1.9       5.9       .8
 DEPTH=         .1       6.3       .2

*SECNO 21.484

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.484      8.03   1386.53   1386.53       .00   1387.44       .92      1.88       .11   1386.90
    5700.0    2045.4    3648.0       6.6     511.1     400.0       4.0     631.7      98.5   1386.50
       .68      4.00      9.12      1.63      .040      .035      .040      .000   1378.50   9497.84
   .006378      650.      639.      520.        20        12         0       .00    514.70  10076.82


FLOW DISTRIBUTION FOR SECNO=     21.48          CWSEL=  1386.53

STA=    9498.    9614.    9647.    9678.    9805.    9837.    9867.    9892.    9920.   10026.   10077.
  PER Q=      3.6      3.1      3.3      5.0      6.8      6.6      5.3      2.1     64.0       .1
   AREA=     82.4     47.2     47.4     95.5     74.5     71.4     58.2     34.5    400.0      4.0
    VEL=      2.5      3.8      3.9      3.0      5.2      5.3      5.2      3.5      9.1      1.6
  DEPTH=       .7      1.4      1.5       .8      2.3      2.4      2.3      1.2      4.5       .1

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 21.576

3265 DIVIDED FLOW

3280 CROSS SECTION     21.58 EXTENDED       .54 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.576      7.14   1389.24   1389.24       .00   1390.02       .78      2.51       .01   1390.00
    5700.0     720.9    4008.4     970.7     336.1     487.8     285.9     641.4     104.4   1388.30
       .70      2.15      8.22      3.39      .040      .035      .040      .000   1382.10   9388.00
   .005020      320.      486.      480.         2        12         0       .00    868.38  10340.54


FLOW DISTRIBUTION FOR SECNO=     21.58          CWSEL=  1389.24

STA=    9388.    9500.    9643.    9821.    9929.   10087.   10140.   10199.   10281.   10341.
  PER Q=      3.6      3.0      3.3      2.7     70.3      6.8      6.0      3.7       .5
   AREA=     89.6     81.4     95.4     69.6    487.8     97.3     94.6     78.7     15.4
    VEL=      2.3      2.1      2.0      2.2      8.2      4.0      3.6      2.7      1.9
  DEPTH=       .8       .6       .5       .6      4.6      1.8      1.6      1.0       .3

*SECNO 21.669

3265 DIVIDED FLOW

3280 CROSS SECTION     21.67 EXTENDED       .18 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.669      9.38   1393.38   1393.38       .00   1393.98       .60      2.28       .02   1393.80
    5500.0     905.3    2788.4    1806.3     390.6     338.0     558.6     654.3     114.0   1392.00
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      .72      2.32      8.25      3.23      .040      .035      .040      .000   1384.00   9392.00
  .004519      440.      491.      470.        20        16         0       .00    977.37  10414.00

FLOW DISTRIBUTION FOR SECNO=     21.67          CWSEL=   1393.38

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

STA=    9392.    9515.    9663.    9893.    9949.    9959.   10031.   10074.   10124.   10182.   10245.   10303.   10361.
  PER Q=      3.0      4.9      3.2      5.1       .2     50.7      5.1      4.6      5.6      5.2      4.2      4.5
   AREA=     80.3    122.7     95.6     85.0      6.8    338.0     76.4     76.3     91.4     89.8     76.9     79.8
    VEL=      2.1      2.2      1.8      3.3      1.9      8.3      3.7      3.3      3.4      3.2      3.0      3.1
  DEPTH=       .7       .8       .4      1.5       .7      5.3      1.8      1.5      1.6      1.4      1.3      1.4

STA=   10361.   10401.   10414.
  PER Q=      3.1       .6
   AREA=     54.9     13.1
    VEL=      3.1      2.5
  DEPTH=      1.4      1.0

*SECNO 21.742

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.742      8.78   1395.18   1395.18       .00   1396.38      1.19      1.92       .18   1394.70
    5500.0      29.1    5238.8     232.0      28.7     583.5     122.4     663.5     121.0   1394.20
       .74      1.02      8.98      1.90      .040      .035      .040      .000   1386.40   9744.71
   .005365      430.      385.      390.         2         8         0       .00    525.85  10353.48

FLOW DISTRIBUTION FOR SECNO=     21.74          CWSEL=   1395.18

STA=    9745.    9975.   10091.   10240.   10353.
  PER Q=       .5     95.3      3.1      1.1
   AREA=     28.7    583.5     80.6     41.8
    VEL=      1.0      9.0      2.1      1.5
  DEPTH=       .1      5.0       .5       .4

*SECNO 21.840
    21.840      6.94   1398.04       .00       .00   1398.83       .80      2.42       .04   1396.20
    5500.0     945.8    4157.0     397.3     210.1     524.6     174.1     672.7     126.0   1397.00
       .76      4.50      7.92      2.28      .040      .035      .040      .000   1391.10   9857.22
   .004314      430.      517.      430.         2         0         0       .00    437.88  10295.09

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST
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FLOW DISTRIBUTION FOR SECNO= 21.84 CWSEL= 1398.04

STA=	9857.	9860.	9882.	9913.	9931.	9946.	10054.	10097.	10145.	10186.	10227.	10273.	10295.
PER Q=	.0	2.2	7.6	4.7	2.6	75.6	2.9	2.7	.6	.4	.6	.1	
AREA=	1.0	36.1	86.5	52.1	34.4	524.6	55.6	54.8	20.2	16.1	22.6	4.9	
VEL=	1.2	3.4	4.8	5.0	4.2	7.9	2.9	2.7	1.5	1.3	1.5	.9	
DEPTH=	.4	1.6	2.8	2.9	2.3	4.9	1.3	1.1	.5	.4	.5	.2	

*SECNO 21.895
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.895	7.77	1399.67	1399.67	.00	1400.47	.80	1.34	.00	1398.00
5500.0	1555.3	2864.4	1080.2	327.5	311.9	397.8	679.0	129.1	1397.70
.77	4.75	9.18	2.72	.040	.035	.040	.000	1391.90	9834.78
.004943	330.	290.	220.	1	8	0	.00	596.22	10431.00

FLOW DISTRIBUTION FOR SECNO= 21.90 CWSEL= 1399.67

STA=	9835.	9885.	9919.	9939.	9975.	10031.	10113.	10187.	10251.	10292.	10364.	10431.
PER Q=	9.5	9.9	4.3	4.6	52.1	4.2	4.1	4.1	3.1	3.0	1.2	
AREA=	112.3	100.9	49.3	64.9	311.9	84.3	80.6	76.1	54.0	65.9	36.8	
VEL=	4.7	5.4	4.8	3.9	9.2	2.7	2.8	3.0	3.1	2.5	1.8	
DEPTH=	2.2	3.0	2.5	1.8	5.6	1.0	1.1	1.2	1.3	.9	.5	

*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.01

21.933	4.06	1400.86	.00	.00	1400.99	.13	.46	.07	1398.00
5500.0	1740.2	3230.1	529.7	808.7	951.6	269.8	686.4	132.8	1398.00
.79	2.15	3.39	1.96	.040	.035	.040	.000	1396.80	9314.75
.001221	210.	210.	210.	2	0	0	.00	970.39	10285.14

FLOW DISTRIBUTION FOR SECNO= 21.93 CWSEL= 1400.86

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9315.	9440.	9590.	9680.	9725.	9780.	9840.	9865.	10140.	10285.
PER Q=	.4	2.0	6.0	7.2	8.8	5.1	2.1	58.7	9.6	
AREA=	35.1	106.5	167.4	142.2	173.8	129.6	54.0	951.6	269.8	
VEL=	.6	1.0	2.0	2.8	2.8	2.2	2.2	3.4	2.0	
DEPTH=	.3	.7	1.9	3.2	3.2	2.2	2.2	3.5	1.9	

*SECNO 21.953

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

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    21.953      7.06   1401.06   1401.06       .00   1402.01       .94       .20       .24   1400.20
    5500.0    2374.6    2981.8     143.6     470.2     313.0      32.2     688.8     134.1   1398.30
       .79      5.05      9.53      4.45      .045      .045      .045      .000   1394.00   9424.44
   .009459       75.       74.       75.        20        14         0       .00    459.91  10052.98

FLOW DISTRIBUTION FOR SECNO=     21.95          CWSEL=   1401.06

STA=    9424.    9678.    9699.    9714.    9725.    9735.    9759.    9768.    9782.    9810.    9965.    9969.   10029.
  PER Q=      4.1      3.5      4.1      5.2      4.3      4.5      3.3      5.0      5.9      3.2       .3     54.2
   AREA=     94.3     39.1     37.7     38.5     33.6     48.3     27.1     41.5     60.5     45.2      4.4    313.0
    VEL=      2.4      4.9      5.9      7.4      7.1      5.1      6.6      6.6      5.4      3.8      3.4      9.5
  DEPTH=       .4      1.9      2.5      3.5      3.4      2.0      3.0      3.0      2.2       .3      1.1      5.2

STA=   10029.   10053.
  PER Q=      2.6
   AREA=     32.2
    VEL=      4.5
  DEPTH=      1.3

*SECNO 22.065

3265 DIVIDED FLOW

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.94

    22.065      8.28   1404.08       .00       .00   1404.25       .17      2.17       .08   1404.10
    5500.0    4154.8    1273.9      71.3    1389.6     294.2      31.6     702.6     140.5   1402.00
       .83      2.99      4.33      2.26      .045      .045      .045      .000   1395.80   9242.08
   .002509       430.      591.      630.         4         0         0       .00    777.84  10049.66

FLOW DISTRIBUTION FOR SECNO=     22.07          CWSEL=   1404.08

STA=    9242.    9500.    9594.    9645.    9657.    9680.    9700.    9731.    9785.    9816.    9869.    9890.    9961.
  PER Q=     24.1      5.7      7.6      3.2      5.9      5.3      3.8      4.5      6.5      4.9      3.7       .4
   AREA=    500.1    143.7    124.0     44.8     83.5     73.6     69.7     80.3     99.4     92.7     60.5     17.3
    VEL=      2.7      2.2      3.4      4.0      3.9      3.9      3.0      3.1      3.6      2.9      3.3      1.2
  DEPTH=      1.9      1.5      2.4      3.7      3.6      3.7      2.2      1.5      3.2      1.7      2.9       .2

STA=    9961.   10028.   10050.
  PER Q=     23.2      1.3
   AREA=    294.2     31.6
    VEL=      4.3      2.3
  DEPTH=      4.4      1.5

*SECNO 22.165

3265 DIVIDED FLOW

    22.165     10.25   1405.25       .00       .00   1405.46       .21      1.20       .01   1400.90
    5500.0    4034.5    1433.3      32.3    1386.7     266.1      24.2     723.2     150.3   1403.70
       .87      2.91      5.39      1.33      .045      .045      .045      .000   1395.00   9137.48
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   .00204[illegible]  530.    528.    530.      3       0       0    [illegible]00    828.27  10060.52

FLOW DISTRIBUTION FOR SECNO=     22.17          CWSEL=   1405.25
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

STA=    9137.    9204.    9213.    9222.    9232.    9256.    9308.    9425.    9595.    9637.    9645.    9657.    9669.
  PER Q=     6.3      3.5      4.4      3.9      4.4      3.3      3.9      3.3      4.7      3.6      4.9      3.2
   AREA=   119.1     44.6     51.3     50.0     75.7     85.9    131.5    109.1     86.3     43.2     61.2     47.4
    VEL=     2.9      4.3      4.8      4.3      3.2      2.1      1.6      1.6      3.0      4.6      4.4      3.7
  DEPTH=     1.8      5.0      5.7      5.0      3.2      1.7      1.1       .6      2.1      5.4      5.1      4.0

STA=    9669.    9701.    9834.    9862.    9946.    9983.   10018.   10061.
  PER Q=     3.2      4.7      5.0      4.2      6.9     26.1       .6
   AREA=    67.7    111.6     86.4     98.9    116.8    266.1     24.2
    VEL=     2.6      2.3      3.2      2.4      3.3      5.4      1.3
  DEPTH=     2.1       .8      3.1      1.2      3.2      7.6       .6

*SECNO 22.273

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .54

    22.273      7.26   1406.66       .00       .00   1407.38       .71      1.77       .15   1404.10
    5500.0    1973.6    3526.4        .0     437.6     454.3        .0     737.9     157.2   1406.90
       .90      4.51      7.76       .00      .045      .045      .000      .000   1399.40   9320.96
   .006928      470.      570.      580.         2         0         0       .00    419.21  10027.44

FLOW DISTRIBUTION FOR SECNO=     22.27          CWSEL=   1406.66

STA=    9321.    9344.    9359.    9574.    9598.    9754.    9774.    9915.    9933.   10028.
  PER Q=     4.7      5.4      3.4      4.9      3.1      6.8      3.1      4.5     64.1
   AREA=    48.7     48.9     64.5     55.6     64.2     62.5     46.1     47.1    454.3
    VEL=     5.3      6.0      2.9      4.8      2.7      6.0      3.7      5.2      7.8
  DEPTH=     2.1      3.3       .3      2.3       .4      3.1       .3      2.6      4.8

*SECNO 22.410

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3720 CRITICAL DEPTH ASSUMED
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3470 ENCROACHMENT STATIONS=     9787.0   10071.0  TYPE=      1  TARGET=    -9787.000
    22.410     10.22   1414.22   1414.22       .00   1415.98      1.76      5.65       .31   1410.70
    5500.0     768.3    4585.8     145.9     157.3     400.5      38.0     750.4     162.4   1411.30
       .92      4.89     11.45      3.83      .045      .045      .045      .000   1404.00   9854.46
   .008756      750.      723.      630.         3        11         0       .00    193.61  10066.88

FLOW DISTRIBUTION FOR SECNO=     22.41          CWSEL=   1414.22

STA=    9854.    9903.    9954.    9967.    9973.   10027.   10067.
  PER Q=      3.5      3.7      4.4      2.4     83.4      2.7
   AREA=     55.7     43.9     38.0     19.6    400.5     38.0
    VEL=      3.5      4.6      6.3      6.8     11.5      3.8
  DEPTH=      1.1       .9      2.9      3.3      7.4      1.0

*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  4.56

3470 ENCROACHMENT STATIONS=     9823.0   10208.0  TYPE=      1  TARGET=    -9823.000
    22.483     10.96   1416.46       .00       .00   1416.58       .12       .44       .16   1411.10
    5500.0     301.1    4551.8     647.1     194.8    1523.7     375.4     762.3     164.7   1411.20
       .95      1.55      2.99      1.72      .045      .045      .045      .000   1405.50   9874.91
   .000421      380.      385.      390.         3         0         0       .00    325.09  10199.99

FLOW DISTRIBUTION FOR SECNO=     22.48          CWSEL=   1416.46

STA=    9875.    9891.    9915.    9941.   10105.   10120.   10138.   10156.   10175.   10191.   10200.
  PER Q=       .2      1.6      3.7     82.8      2.4      2.2      2.1      2.6      2.1       .3
   AREA=     16.5     65.0    113.3   1523.7     70.6     72.1     69.4     79.9     66.5     16.9
    VEL=       .7      1.3      1.8      3.0      1.9      1.7      1.7      1.8      1.8      1.0
  DEPTH=      1.0      2.7      4.4      9.3      4.7      4.0      3.9      4.2      4.2      1.9
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 22.578

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .31

3470 ENCROACHMENT STATIONS=     9579.0   10090.0  TYPE=      1  TARGET=    -9579.000
    22.578      9.65   1416.34       .00       .00   1417.33       .99       .50       .26   1416.60
    5500.0        .0    5500.0        .0        .0     688.9        .0     778.3     167.1   1421.20
       .97       .00      7.98       .00      .000      .045      .000      .000   1406.70   9968.38
   .004498      540.      502.      490.         3         0         0       .00     95.82  10064.20

FLOW DISTRIBUTION FOR SECNO=     22.58          CWSEL=   1416.34

STA=    9968.   10072.
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  PER Q=        0.0
   AREA=      688.9
    VEL=        8.0
  DEPTH=        7.2

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.57

    22.675      8.31   1418.01       .00       .00   1418.14       .14       .72       .09   1419.80
    5500.0        .0    5500.0        .0        .0    1858.1        .0     793.3     169.4   1420.00
      1.02       .00      2.96       .00      .000      .045      .000      .000   1409.70   9740.49
   .000680      570.      512.      480.         2         0         0       .00    287.90  10028.39


FLOW DISTRIBUTION FOR SECNO=     22.67          CWSEL=   1418.01

STA=    9740.   10032.
  PER Q=     100.0
   AREA=    1858.1
    VEL=       3.0
  DEPTH=       6.5

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


*SECNO 22.794

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .51

    22.794      7.85   1418.55       .00       .00   1418.97       .42       .75       .09   1417.80
    5500.0       1.3    5395.1     103.6       1.5    1029.4      42.0     814.4     173.0   1416.10
      1.05       .87      5.24      2.47      .045      .045      .045      .000   1410.70   9978.95
   .002603      460.      628.      500.         2         0         0       .00    215.74  10194.69


FLOW DISTRIBUTION FOR SECNO=     22.79          CWSEL=   1418.55

STA=    9979.    9983.   10169.   10189.   10195.
  PER Q=        .0      98.1      1.8       .1
   AREA=        1.5   1029.4     38.1      3.9
    VEL=        .9      5.2      2.6      1.3
  DEPTH=        .4      5.5      1.9       .7

*SECNO 22.880
    22.880      7.05   1420.05       .00       .00   1420.62       .58      1.60       .05   1426.40
    5500.0        .0    5500.0        .0        .0     901.9        .0     824.7     175.2   1424.20
      1.07       .00      6.10       .00      .000      .045      .000      .000   1413.00   9952.13
   .005065      440.      454.      480.         2         0         0       .00    211.78  10163.91


FLOW DISTRIBUTION FOR SECNO=     22.88          CWSEL=   1420.05

STA=    9952.   10167.
  PER Q=     100.0
   AREA=     901.9
    VEL=       6.1
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 DEPTH=      4.3

*SECNO 22.990
    22.990      5.73   1423.63      .00       .00   1424.26       .62      3.62       .01   1425.40
    5500.0        .0    5500.0       .0        .0     869.8        .0     836.5     178.4   1427.90
      1.10       .00      6.32      .00      .000      .045      .000      .000   1417.90   9754.06
   .007840      480.      581.     530.         3         0         0       .00    272.08  10026.14
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

FLOW DISTRIBUTION FOR SECNO=     22.99          CWSEL=   1423.63

STA=    9754.   10034.
  PER Q=    100.0
   AREA=    869.8
    VEL=      6.3
  DEPTH=      3.2

*SECNO 23.097

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    23.097      4.79   1429.89   1429.89       .00   1431.46      1.57      6.49       .28   1432.30
    5500.0      38.9    5461.1        .0      13.4     541.7        .0     845.7     181.4   1430.80
      1.11      2.89     10.08       .00      .045      .045      .000      .000   1425.10   9899.14
   .018369      640.      565.      490.        10        11         0       .00    186.86  10117.43

FLOW DISTRIBUTION FOR SECNO=     23.10          CWSEL=   1429.89

STA=    9899.    9916.    9925.    9927.   10121.
  PER Q=       .4       .3       .0    99.3
   AREA=      8.3      4.8       .2   541.7
    VEL=      2.9      3.0      1.2    10.1
  DEPTH=       .5       .5       .1     3.4

*SECNO 23.168

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.09

    23.168      4.15   1433.05       .00       .00   1433.22       .17      1.62       .14   1429.50
    5500.0     763.8    4435.3     300.9     310.9    1269.5     143.5     855.3     184.7   1430.30
      1.15      2.46      3.49      2.10      .045      .045      .045      .000   1428.90   9604.29
   .001925      330.      375.      300.         5         0         0       .00    609.23  10213.52
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   SECNO      DEPTH     CWSEL     CRIWS     WSELK     EG        HV        VOL       OLOSS     L-BANK ELEV
   Q          QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME       VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE      XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

FLOW DISTRIBUTION FOR SECNO=     23.17          CWSEL=   1433.05

STA=    9604.    9657.    9718.    9777.   10116.   10176.   10214.
  PER Q=       .6      4.1      9.2     80.6      5.0       .5
   AREA=     33.0    106.8    171.1   1269.5    120.0     23.5
    VEL=      1.1      2.1      2.9      3.5      2.3      1.1
  DEPTH=       .6      1.8      2.9      3.7      2.0       .6

*SECNO 23.253

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    23.253      9.33   1434.53   1434.53       .00   1437.36      2.83      1.55       .80   1437.50
    3400.0        .0    3400.0       .0        .0     252.0        .0     865.7     188.1   1444.20
      1.16       .00     13.49       .00      .000      .040      .000      .000   1425.20   9978.44
   .014919      470.      459.      450.        20        17         0       .00     44.74  10023.18

FLOW DISTRIBUTION FOR SECNO=     23.25          CWSEL=   1434.53

STA=    9978.   10038.
  PER Q=    100.0
   AREA=    252.0
    VEL=     13.5
  DEPTH=      5.6

*SECNO 23.334

3301 HV CHANGED MORE THAN HVINS

    23.334      7.79   1440.39       .00       .00   1441.83      1.43      4.33       .14   1443.80
    3400.0        .0    3400.0        .0        .0     353.7        .0     868.6     188.7   1449.80
      1.17       .00      9.61       .00      .000      .040      .000      .000   1432.60   9969.06
   .007640      400.      417.      420.         2         0         0       .00     66.92  10035.98

FLOW DISTRIBUTION FOR SECNO=     23.33          CWSEL=   1440.39
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   SECNO      DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q          QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME       VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE      XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

STA=    9969.   10055.
  PER Q=    100.0
   AREA=    353.7
    VEL=      9.6
  DEPTH=      5.3

*SECNO 23.416
    23.416      7.32   1443.82       .00       .00   1445.60      1.77      3.67       .10   1447.80
    3400.0        .0    3400.0        .0        .0     318.3        .0     871.9     189.3   1450.20
      1.18       .00     10.68       .00      .000      .040      .000      .000   1436.50   9980.93
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   .009442      400.      433.      430.        3         0         0       .00     59.14  10040.07

FLOW DISTRIBUTION FOR SECNO=     23.42          CWSEL=   1443.82

STA=    9981.   10053.
  PER Q=    100.0
   AREA=    318.3
    VEL=     10.7
  DEPTH=      5.4

*SECNO 23.514
    23.514      8.51   1448.11       .00       .00   1449.46      1.35      3.82       .04   1451.40
    3400.0        .0    3400.0        .0        .0     364.8        .0     876.0     190.0   1451.10
      1.19       .00      9.32       .00      .000      .040      .000      .000   1439.60   9977.54
   .005937      560.      517.      470.         2         0         0       .00     57.47  10035.01

FLOW DISTRIBUTION FOR SECNO=     23.51          CWSEL=   1448.11

STA=    9978.   10039.
  PER Q=    100.0
   AREA=    364.8
    VEL=      9.3
  DEPTH=      6.3

*SECNO 23.544

3301 HV CHANGED MORE THAN HVINS

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

    23.544      7.51   1448.91       .00       .00   1450.79      1.88      1.17       .16   1453.20
    3400.0        .0    3400.0        .0        .0     309.4        .0     877.2     190.2   1452.90
      1.20       .00     10.99       .00      .000      .040      .000      .000   1441.40   9978.90
   .009552      190.      158.      150.         2         0         0       .00     54.80  10033.70

FLOW DISTRIBUTION FOR SECNO=     23.54          CWSEL=   1448.91

STA=    9979.   10039.
  PER Q=    100.0
   AREA=    309.4
    VEL=     11.0
  DEPTH=      5.6

SPECIAL BRIDGE

SB  XK        XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.25      2.48       3.20        .00       5.70       1.00      14.10       .00    1442.00    1441.40

*SECNO 23.555

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.95
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PRESSURE [illegible]WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3688.08	1453.59	2.80	3249.	152.	14.	14.	1445.00	1449.00	140.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.555	10.64	1452.64	.00	.00	1453.37	.74	2.58	.00	1453.80
3400.0	.0	3400.0	.0	.0	493.8	.0	877.8	190.3	1453.50
1.20	.00	6.89	.00	.000	.040	.000	.000	1442.00	9974.59
.002505	60.	60.	60.	2	0	8	.00	63.27	10037.86

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.56 CWSEL= 1452.64

STA= 9975. 10039.
PER Q= 100.0
AREA= 493.8
VEL= 6.9
DEPTH= 7.8

*SECNO 23.591
3280 CROSS SECTION 23.59 EXTENDED 1.15 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.591	8.95	1453.15	.00	.00	1453.93	.78	.54	.01	1452.90
3400.0	.0	3400.0	.0	.0	478.5	.0	879.9	190.6	1453.80
1.21	.00	7.11	.00	.000	.040	.000	.000	1444.20	9968.00
.003292	100.	190.	210.	3	0	0	.00	75.49	10043.49

FLOW DISTRIBUTION FOR SECNO= 23.59 CWSEL= 1453.15

STA= 9968. 10045.
PER Q= 100.0
AREA= 478.5
VEL= 7.1
DEPTH= 6.3

*SECNO 23.691

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.691	8.75	1455.15	.00	.00	1456.48	1.33	2.39	.16	1457.60
3400.0	.0	3400.0	.0	.0	367.9	.0	885.0	191.4	1455.30
1.22	.00	9.24	.00	.000	.040	.000	.000	1446.40	9970.39
.006585	510.	528.	540.	2	0	0	.00	65.33	10035.72

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.69 CWSEL= 1455.15

STA= 9970. 10036.
PER Q= 100.0
AREA= 367.9
VEL= 9.2
DEPTH= 5.6

*SECNO 23.815

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.815	9.31	1459.01	.00	.00	1460.09	1.08	3.59	.02	1458.90
4350.0	.0	4350.0	.0	.0	520.9	.0	891.7	192.5	1457.80
1.25	.00	8.35	.00	.000	.040	.000	.000	1449.70	9951.00
.004797	650.	655.	680.	3	0	0	.00	86.00	10037.00

FLOW DISTRIBUTION FOR SECNO= 23.82 CWSEL= 1459.01

STA= 9951. 10037.
PER Q= 100.0
AREA= 520.9
VEL= 8.4
DEPTH= 6.1

*SECNO 23.912
3280 CROSS SECTION 23.91 EXTENDED .14 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.912	13.14	1461.04	.00	.00	1462.18	1.14	2.07	.02	1461.30
5300.0	.0	5300.0	.0	.0	619.1	.0	898.4	193.5	1460.90
1.26	.00	8.56	.00	.000	.040	.000	.000	1447.90	9967.41
.003558	480.	512.	510.	3	0	0	.00	75.59	10043.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 23.91 CWSEL= 1461.04

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STA=    99[illegible]    10043.
  PER Q=     100.0
   AREA=     619.1
    VEL=       8.6
  DEPTH=       8.2

*SECNO 23.989

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.41

    23.989     12.91   1462.61       .00       .00   1463.23       .63      1.00       .05   1465.60
    5300.0        .0    5300.0        .0        .0     835.0        .0     905.2     194.3   1465.80
      1.28       .00      6.35       .00      .000      .040      .000      .000   1449.70   9944.77
   .001801      400.      407.      410.         2         0         0       .00     98.91  10043.68


FLOW DISTRIBUTION FOR SECNO=     23.99          CWSEL=   1462.61

STA=    9945.   10049.
  PER Q=     100.0
   AREA=     835.0
    VEL=       6.3
  DEPTH=       8.4

CCHV=     .300 CEHV=     .500
*SECNO 24.086

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1463.70 ELREA=      1463.70

    24.086      9.84   1463.44       .00       .00   1464.31       .87       .95       .12   1453.60
    5300.0        .0    5300.0        .0        .0     708.4        .0     914.3     195.3   1453.60
      1.30       .00      7.48       .00      .000      .040      .000      .000   1453.60   9972.00
   .001924      450.      512.      560.         4         0         0       .00     72.00  10044.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=     24.09          CWSEL=   1463.44

STA=    9972.   10044.
  PER Q=     100.0
   AREA=     708.4
    VEL=       7.5
  DEPTH=       9.8


SPECIAL BRIDGE

SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
      .90       1.56       3.00     100.00      71.60       3.00     590.00        .00   1453.60   1453.60

*SECNO 24.096
PRESSURE FLOW


 EGPRS      EGLWC      H3         QWEIR      QPR        BAREA      TRAPEZOID      ELLC       ELTRD      WEIRLN
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                                                                  AREA
   1465.39   1464.37       .08        0.      5300.      590.      590.     1462.20   1466.70        0.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1466.00 ELREA=      1466.00

    24.096     11.11   1464.71       .00       .00   1465.39       .68      1.09       .00   1453.60
    5300.0        .0    5300.0        .0        .0     800.4        .0     915.2     195.4   1453.60
      1.30       .00      6.62       .00      .000      .040      .000      .000   1453.60   9972.00
   .001280       56.       56.       56.         2         0         0       .00     72.00  10044.00

FLOW DISTRIBUTION FOR SECNO=     24.10          CWSEL=   1464.71

STA=    9972.   10044.
  PER Q=    100.0
   AREA=    800.4
    VEL=      6.6
  DEPTH=     11.1

*SECNO 24.106
    24.106     11.01   1465.21       .00       .00   1465.55       .34       .05       .10   1464.10
    5300.0       1.1    4877.6     421.3       1.3    1012.1     185.1     916.4     195.5   1458.50
      1.30       .80      4.82      2.28      .035      .040      .050      .000   1454.20   9952.58
   .000889       80.       53.       20.         2         0         0       .00    166.78  10119.36
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=     24.11          CWSEL=   1465.21

STA=    9953.    9955.   10064.   10091.   10108.   10119.
  PER Q=       .0     92.0      6.6      1.2       .1
   AREA=      1.3   1012.1    135.4     41.1      8.6
    VEL=       .8      4.8      2.6      1.6       .7
  DEPTH=       .6      9.3      5.0      2.4       .8

CCHV=     .100 CEHV=     .300
*SECNO 24.195

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.49

    24.195     12.09   1465.69       .00       .00   1465.84       .15       .27       .02   1470.40
    5300.0        .0    5300.0        .0        .0    1706.8        .0     932.0     197.5   1466.40
      1.35       .00      3.11       .00      .000      .040      .000      .000   1453.60   9941.09
   .000402      470.      470.      460.         2         0         0       .00    196.58  10137.67

FLOW DISTRIBUTION FOR SECNO=     24.19          CWSEL=   1465.69

STA=    9941.   10142.
  PER Q=    100.0
   AREA=   1706.8
    VEL=      3.1
  DEPTH=      8.7

*SECNO 24.322
```

3302 WARNI[illegible] CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = [illegible]

24.322	14.31	1465.91	.00	.00	1465.95	.04	.10	.01	1463.50
5300.0	6.2	4200.3	1093.4	14.5	2371.1	1071.5	971.3	201.7	1456.80
1.46	.43	1.77	1.02	.035	.040	.050	.000	1451.60	9858.94
.000081	640.	671.	630.	2	0	0	.00	366.31	10225.25

FLOW DISTRIBUTION FOR SECNO= 24.32 CWSEL= 1465.91

STA=	9859.	9871.	10064.	10134.	10177.	10220.	10225.
PER Q=	.1	79.3	12.9	5.9	1.8	.0	
AREA=	14.5	2371.1	606.3	312.3	151.0	1.9	
VEL=	.4	1.8	1.1	1.0	.6	.1	
DEPTH=	1.2	12.3	8.7	7.3	3.5	.4	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 24.444

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .33

24.444	8.65	1465.95	.00	.00	1466.10	.15	.12	.03	1465.00
5300.0	.4	4211.2	1088.5	.7	1324.9	405.4	1008.9	206.4	1461.70
1.52	.49	3.18	2.69	.045	.045	.045	.000	1457.30	9926.47
.000727	640.	644.	600.	2	0	0	.00	277.67	10204.13

FLOW DISTRIBUTION FOR SECNO= 24.44 CWSEL= 1465.95

STA=	9926.	9928.	10122.	10142.	10166.	10180.	10204.
PER Q=	.0	79.5	6.0	8.3	4.0	2.3	
AREA=	.7	1324.9	113.1	147.7	76.4	68.2	
VEL=	.5	3.2	2.8	3.0	2.8	1.7	
DEPTH=	.5	6.8	5.7	6.2	5.5	2.8	

*SECNO 24.542

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .28

24.542	6.53	1466.33	.00	.00	1467.25	.92	.91	.23	1464.00
5300.0	26.1	5273.9	.0	7.8	684.1	.0	1023.3	209.1	1467.80
1.54	3.33	7.71	.00	.045	.045	.000	.000	1459.80	9907.26
.008955	470.	517.	530.	2	0	0	.00	181.23	10181.31

FLOW DISTRIBUTION FOR SECNO= 24.54 CWSEL= 1466.33

STA=	9907.	9914.	10187.
PER Q=	.5	99.5	
AREA=	7.8	684.1	
VEL=	3.3	7.7	
DEPTH=	1.2	3.9	

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 24.635
    24.635      5.25    1472.05    1471.83        .00    1473.32       1.28       5.97        .11    1474.50
    5300.0        .0     5300.0        .0         .0     584.2         .0     1030.5      211.2    1472.40
      1.55       .00       9.07       .00       .000      .045       .000       .000    1466.80    9911.01
   .017410      650.       491.      220.         12        15          0        .00     194.18   10105.18

FLOW DISTRIBUTION FOR SECNO=     24.64          CWSEL=   1472.05

STA=    9911.   10111.
  PER Q=    100.0
   AREA=    584.2
    VEL=      9.1
  DEPTH=      3.0

*SECNO 24.738

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.23

    24.738      4.89    1476.89        .00        .00    1477.18        .29       3.76        .10    1481.20
    5200.0        .0     1399.4     3800.6         .0     323.2      872.8     1042.5      214.9    1480.90
      1.59       .00       4.33       4.35       .000      .045       .045       .000    1472.00    9936.06
   .003356      350.       544.       630.          4         0          0        .00     355.18   10340.68

FLOW DISTRIBUTION FOR SECNO=     24.74          CWSEL=   1476.89

STA=    9936.   10038.   10088.   10127.   10224.   10291.   10330.   10341.
  PER Q=     26.9       .6     10.4     33.5     19.3      8.4       .9
   AREA=    323.2     12.1    128.1    372.1    230.2    112.5     17.5
    VEL=      4.3      2.5      4.2      4.7      4.4      3.9      2.6
  DEPTH=      3.4       .2      3.3      3.8      3.4      2.9      1.6

*SECNO 24.838
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    24.838      5.63    1480.33    1480.33        .00    1480.92        .60       3.02        .09    1483.80
```

5200.	.0	1244.3	3955.7	.0	140.6	777.8	[illegible].9	220.2	1483.50
1.61	.00	8.85	5.09	.000	.045	.045	.000	1474.70	9968.35
.016849	470.	528.	450.	1	12	0	.00	650.49	10633.62

FLOW DISTRIBUTION FOR SECNO= 24.84 CWSEL= 1480.33

STA=	9968.	10019.	10066.	10111.	10162.	10185.	10219.	10270.	10365.	10450.	10630.	10634.
PER Q=	23.9	3.3	4.2	6.7	3.0	4.5	6.7	12.5	11.2	23.7	.1	
AREA=	140.6	39.1	48.4	67.6	30.5	45.1	67.6	125.9	112.7	238.6	2.4	
VEL=	8.8	4.4	4.5	5.2	5.2	5.2	5.2	5.2	5.2	5.2	3.1	
DEPTH=	3.1	.8	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3	.7	

*SECNO 24.943

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.83

24.943	5.74	1483.44	.00	.00	1483.57	.12	2.60	.05	1481.80
5200.0	851.4	498.4	3850.1	351.0	132.5	1408.1	1072.0	229.6	1484.80
1.67	2.43	3.76	2.73	.045	.045	.045	.000	1477.70	9801.22
.002110	530.	554.	570.	7	0	0	.00	799.36	10618.77

FLOW DISTRIBUTION FOR SECNO= 24.94 CWSEL= 1483.44

STA=	9801.	9813.	9926.	9945.	9983.	10017.	10044.	10080.	10540.	10610.	10619.
PER Q=	.3	12.7	1.6	1.8	9.6	.5	4.7	59.5	9.1	.3	
AREA=	10.3	253.6	36.0	51.1	132.5	13.8	88.0	1124.5	171.1	10.7	
VEL=	1.4	2.6	2.3	1.8	3.8	1.7	2.8	2.8	2.8	1.7	
DEPTH=	.9	2.2	1.9	1.3	4.2	.5	2.4	2.4	2.4	1.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 25.048

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

25.048	3.57	1487.27	1487.27	.00	1487.98	.71	2.60	.18	1486.60
5200.0	1444.5	645.1	3110.4	283.5	84.2	430.3	1088.6	238.1	1493.60
1.69	5.10	7.66	7.23	.045	.045	.045	.000	1483.70	9705.76
.020608	580.	554.	520.	20	14	0	.00	557.24	10481.24

FLOW DISTRIBUTION FOR SECNO= 25.05 CWSEL= 1487.27

STA=	9706.	9817.	9941.	9966.	10017.	10154.	10223.	10247.	10450.	10470.	10481.
PER Q=	8.8	16.9	2.2	12.4	18.7	10.0	12.0	3.8	13.1	2.3	
AREA=	101.7	157.6	24.3	84.2	157.2	91.1	66.4	31.9	65.4	18.4	
VEL=	4.5	5.6	4.6	7.7	6.2	5.7	9.4	6.1	10.4	6.4	
DEPTH=	.9	1.3	1.0	2.1	1.1	1.3	2.8	.2	3.3	1.6	

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*SECNO 25.163

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.21

    25.163      6.19   1492.19       .00       .00   1492.51       .31      4.49       .04   1491.60
    4900.0     205.3    1143.6    3551.1      73.5     218.9     823.3    1101.7     244.5   1493.10
      1.73      2.79      5.23      4.31      .045      .045      .045      .000   1486.00   9922.08
   .003749      640.      607.      580.         5         0         0       .00    369.01  10297.84


FLOW DISTRIBUTION FOR SECNO=     25.16          CWSEL=   1492.19

STA=    9922.    9947.    9965.    9972.   10025.   10044.   10088.   10147.   10220.   10291.   10298.
  PER Q=      1.0      2.6       .5     23.3      1.3     12.6     16.9     20.9     20.3       .6
   AREA=     24.8     38.6     10.1    218.9     23.6    140.5    188.4    233.1    226.7     10.9
    VEL=      2.0      3.4      2.5      5.2      2.7      4.4      4.4      4.4      4.4      2.6
  DEPTH=      1.0      2.1      1.4      4.3      1.2      3.2      3.2      3.2      3.2      1.6

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


*SECNO 25.262
3280 CROSS SECTION     25.26 EXTENDED       .01 FEET


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1491.60 ELREA=      1510.00

    25.262     10.01   1494.01       .00       .00   1494.20       .19      1.68       .01   1491.60
    4900.0    4119.0     781.0        .0    1187.1     220.4        .0    1116.5     249.7   1496.80
      1.77      3.47      3.54       .00      .045      .045      .000      .000   1484.00   9501.71
   .002847      470.      523.      570.         5         0         0       .00    521.78  10023.49


FLOW DISTRIBUTION FOR SECNO=     25.26          CWSEL=   1494.01

STA=    9502.    9513.    9547.    9618.    9646.    9689.    9707.    9823.    9948.   10030.
  PER Q=      1.4     12.9     14.3      3.6      4.5      1.1     18.7     27.4     15.9
   AREA=     24.9    139.8    199.6     60.5     82.2     24.5    285.5    370.1    220.4
    VEL=      2.8      4.5      3.5      2.9      2.7      2.2      3.2      3.6      3.5
  DEPTH=      2.2      4.1      2.8      2.2      1.9      1.4      2.5      3.0      2.9

*SECNO 25.374
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    25.374      6.07   1499.37   1499.37       .00   1499.62       .26      1.89       .02   1499.30
    4900.0    3795.5    1104.5        .0     981.1     238.1        .0    1136.5     256.5   1498.80
      1.81      3.87      4.64      2.06      .045      .045      .045      .000   1493.30   9655.94
   .002869      680.      591.      300.        20        20         0       .00    367.07  10023.00


FLOW DISTRIBUTION FOR SECNO=     25.37          CWSEL=   1499.37

STA=    9656.    9659.    9704.    9838.    9920.    9933.    9944.    9950.    9955.    9963.    9969.   10023.
  PER Q=       .0      6.3     39.3     22.9      3.4      1.8       .5       .9      2.0       .3     22.5
   AREA=      1.8    101.9    471.1    280.1     42.4     27.1      9.4     13.3     25.7      8.2    238.1
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   VEL=      1.2      3.0      4.1      4.0      3.9      3.2      2.4      .2      3.8      2.1      4.6
 DEPTH=       .6      2.3      3.5      3.4      3.3      2.5      1.6     2.7      3.2      1.4      4.4

*SECNO 25.434
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1504.90 ELREA=      1504.00

    25.434      8.17   1503.97   1503.97       .00   1506.92      2.95      1.79       .81   1504.90
    4900.0        .0    4900.0       .0        .0     355.5        .0    1143.2     258.3   1504.00
      1.82       .00     13.78       .00      .000      .035      .000      .000   1495.80   9970.53
   .011721      400.      317.      190.        20        14         0       .00     65.40  10035.93


FLOW DISTRIBUTION FOR SECNO=     25.43          CWSEL=   1503.97

STA=    9971.   10036.
  PER Q=    100.0
   AREA=    355.5
    VEL=     13.8
  DEPTH=      5.4

*SECNO 25.500

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  3.25

    25.500     10.04   1507.74       .00       .00   1508.08       .34       .91       .26   1511.50
    4900.0        .0    4900.0       .0        .0    1043.7        .0    1148.8     259.3   1509.00
      1.84       .00      4.69       .00      .000      .035      .000      .000   1497.70   9923.52
   .001109      250.      349.      420.         2         0         0       .00    170.83  10094.35


FLOW DISTRIBUTION FOR SECNO=     25.50          CWSEL=   1507.74

STA=    9924.   10105.
  PER Q=    100.0
   AREA=   1043.7
    VEL=      4.7
  DEPTH=      6.1

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   17APR06      15:20:18                                                                                PAGE   82

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST
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CCHV=      .300 CEHV=      .500
*SECNO 25.523

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.83

    25.523     11.99   1507.99       .00       .00   1508.19       .20       .07       .04   1498.00
    4900.0     472.4    3501.1     926.6     229.7     885.4     337.9    1152.3     259.7   1498.00
      1.85      2.06      3.95      2.74      .050      .035      .035      .000   1496.00   9930.02
   .000331      120.      121.      120.         2         0         0       .00    161.62  10091.63

FLOW DISTRIBUTION FOR SECNO=     25.52          CWSEL=   1507.99

STA=    9930.    9950.    9963.   10037.   10050.   10092.
  PER Q=      3.0      6.7     71.5      9.5      9.4
   AREA=     99.8    129.9    885.4    129.9    208.0
    VEL=      1.5      2.5      4.0      3.6      2.2
  DEPTH=      5.0     10.0     12.0     10.0      5.0

*SECNO 25.534

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    25.534      5.21   1510.75   1510.75       .00   1513.36      2.61       .04      1.20   1515.00
    4900.0        .0    4900.0        .0        .0     378.2        .0    1153.5     259.9   1515.00
      1.85       .00     12.96       .00      .000      .015      .000      .000   1505.54   9963.45
   .002246       58.       58.       58.        20        14         0       .00     73.10  10036.55

FLOW DISTRIBUTION FOR SECNO=     25.53          CWSEL=   1510.75

STA=    9963.   10037.
  PER Q=    100.0
   AREA=    378.2
    VEL=     13.0
  DEPTH=      5.2
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 25.551

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
    25.551      6.67   1512.21   1510.75       .00   1513.80      1.58       .13       .31   1515.00
    4900.0        .0    4900.0        .0        .0     485.2        .0    1154.4     260.1   1515.00
      1.85       .00     10.10       .00      .000      .015      .000      .000   1505.54   9963.29
   .001025       90.       90.       90.        25         5         0       .00     73.41  10036.71

FLOW DISTRIBUTION FOR SECNO=     25.55          CWSEL=   1512.21
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STA=     99[illegible]    10037.
  PER Q=     100.0
   AREA=     485.2
    VEL=      10.1
  DEPTH=       6.6

*SECNO 25.557
    25.557      6.54   1512.08       .00       .00   1514.01      1.93       .04       .18   1515.00
    4900.0        .0    4900.0        .0        .0     439.0        .0    1154.7     260.1   1515.00
      1.86       .00     11.16       .00      .000      .015      .000      .000   1505.54   9959.87
   .001385       32.       32.       32.         2         0         0       .00     80.27  10040.13

FLOW DISTRIBUTION FOR SECNO=     25.56          CWSEL=   1512.08

STA=    9960.   10046.
  PER Q=     100.0
   AREA=     439.0
    VEL=      11.2
  DEPTH=       5.5

*SECNO 25.561

3301 HV CHANGED MORE THAN HVINS
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

    25.561      8.76   1514.36       .00       .00   1514.55       .19       .02       .52   1514.90
    2900.0        .0    2900.0        .0        .0     825.4        .0    1155.0     260.2   1515.20
      1.86       .00      3.51       .00      .000      .035      .000      .000   1505.60   9949.33
   .000529       20.       21.       20.         3         0         0       .00    117.68  10067.02

FLOW DISTRIBUTION FOR SECNO=     25.56          CWSEL=   1514.36

STA=    9949.   10069.
  PER Q=     100.0
   AREA=     825.4
    VEL=       3.5
  DEPTH=       7.0

CCHV=      .100 CEHV=      .300
*SECNO 25.680

3265 DIVIDED FLOW

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.43

    25.680      8.24   1514.74       .00       .00   1514.78       .04       .21       .02   1514.40
    2700.0     297.0    1319.3    1083.6     333.0     759.6     733.6    1174.2     265.7   1511.20
      1.97       .89      1.74      1.48      .035      .035      .035      .000   1506.50   9471.45
   .000225       580.      628.      660.         2         0         0       .00    663.75  10305.23

FLOW DISTRIBUTION FOR SECNO=     25.68          CWSEL=   1514.74

STA=    9471.    9688.    9796.    9927.   10093.   10167.   10278.   10295.   10305.
  PER Q=      3.0      6.6      1.4     48.9     10.6     21.6      6.6      1.4
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   AREA=     82.4    169.5     81.1    759.6    217.7    393.2     91.7     30.9
    VEL=      1.0      1.0       .5      1.7      1.3      1.5      2.0      1.2
  DEPTH=       .4      1.6       .6      4.6      2.9      3.5      5.4      3.0

*SECNO 25.786

3265 DIVIDED FLOW

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1518.90 ELREA=      1515.80

    25.786      5.62   1516.32   1516.32       .00   1516.97       .64       .32       .18   1518.90
    2500.0        .0    1867.5     632.5        .0     258.0     212.4    1188.2     271.9   1515.80
      1.99       .00      7.24      2.98      .000      .035      .035      .000   1510.70   9982.01
   .005773      600.      560.      470.        20        18         0       .00    351.98  10442.86

FLOW DISTRIBUTION FOR SECNO=     25.79          CWSEL=   1516.32

STA=    9982.   10056.   10189.   10273.   10418.   10435.   10440.   10443.
  PER Q=     74.7     11.2      3.6      2.1      5.7      2.4       .4
   AREA=    258.0    102.9     43.0     22.1     30.2     11.1      3.0
    VEL=      7.2      2.7      2.1      2.3      4.7      5.5      2.9
  DEPTH=      3.5       .8       .5       .2      1.8      2.2      1.1

*SECNO 25.947
    25.947      6.67   1521.07       .00       .00   1521.63       .56      4.65       .01   1522.70
    2300.0        .0    1967.1     332.9        .0     315.1      80.7    1196.6     276.8   1520.60
      2.03       .00      6.24      4.13      .000      .035      .035      .000   1514.40   9958.72
   .005225      870.      850.      830.         2         0         0       .00    164.54  10123.26

FLOW DISTRIBUTION FOR SECNO=     25.95          CWSEL=   1521.07

STA=    9959.   10066.   10107.   10113.   10119.   10123.
  PER Q=     85.5      6.7      3.2      3.9       .7
   AREA=    315.1     46.3     14.0     15.5      4.9
    VEL=      6.2      3.3      5.3      5.8      3.1
  DEPTH=      2.9      1.1      2.3      2.6      1.1

*SECNO 26.058
    26.058      7.29   1523.49       .00       .00   1523.98       .49      2.35       .01   1522.00
    2200.0     620.8    1579.2        .0     178.1     251.8        .0    1202.0     279.1   1524.00
      2.06      3.49      6.27       .00      .035      .035      .000      .000   1516.20   9841.26
   .003212      540.      586.      570.         2         0         0       .00    182.03  10023.28

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=     26.06          CWSEL=   1523.49

STA=    9841.    9904.    9927.    9951.    9966.   10024.
  PER Q=      4.3      7.2     11.6      5.1     71.8
   AREA=     46.6     43.3     58.4     29.8    251.8
    VEL=      2.0      3.7      4.4      3.8      6.3
  DEPTH=       .7      1.9      2.4      2.0      4.4

*SECNO 26.152
    26.152      4.99   1524.99       .00       .00   1525.46       .46      1.47       .00   1525.40
    2000.0        .0    2000.0        .0        .0     366.7        .0    1206.0     280.4   1526.00
      2.09       .00      5.45       .00      .000      .035      .000      .000   1520.00   9958.10
   .003182      240.      496.      550.         2         0         0       .00    105.87  10063.97

FLOW DISTRIBUTION FOR SECNO=     26.15          CWSEL=   1524.99

STA=    9958.   10069.
  PER Q=    100.0
   AREA=    366.7
    VEL=      5.5
  DEPTH=      3.5

*SECNO 26.265

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    26.265      6.15   1528.15   1528.15       .00   1529.39      1.24      3.01       .23   1531.70
    1900.0        .0    1758.2     141.8        .0     190.6      38.9    1210.1     281.8   1526.50
      2.11       .00      9.23      3.64      .000      .035      .035      .000   1522.00   9972.98
   .009530      580.      597.      610.         5        11         0       .00    103.26  10076.25

FLOW DISTRIBUTION FOR SECNO=     26.26          CWSEL=   1528.15

STA=    9973.   10029.   10076.
  PER Q=     92.5      7.5
   AREA=    190.6     38.9
    VEL=      9.2      3.6
  DEPTH=      3.4       .8
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 26.372

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.96

    26.372      7.55   1531.35       .00       .00   1531.67       .32      2.19       .09   1531.60
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   1700.0        .0    1700.0        .0        .0     372.2        .0    1214.0     283.1   1533.80
     2.14       .00      4.57       .00      .000      .035      .000      .000   1523.80   9967.15
  .001979      600.      565.      510.         3         0         0       .00     97.17  10064.32

FLOW DISTRIBUTION FOR SECNO=     26.37          CWSEL=   1531.35

STA=    9967.   10080.
  PER Q=    100.0
   AREA=    372.2
    VEL=      4.6
  DEPTH=      3.8

*SECNO 26.492

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.99

    26.492      6.45   1532.15       .00       .00   1532.22       .08       .53       .02   1537.50
    1600.0        .0    1600.0        .0        .0     720.9        .0    1221.9     285.1   1536.00
      2.22       .00      2.22       .00      .000      .035      .000      .000   1525.70   9885.25
  .000442      640.      634.      610.         3         0         0       .00    183.14  10068.38

FLOW DISTRIBUTION FOR SECNO=     26.49          CWSEL=   1532.15

STA=    9885.   10084.
  PER Q=    100.0
   AREA=    720.9
    VEL=      2.2
  DEPTH=      3.9

*SECNO 26.582
1
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  6.37

    26.582      8.14   1532.24       .00       .00   1532.24       .00       .01       .01   1528.20
    1300.0     594.6     479.1     226.4    1979.9    1035.9     773.7    1246.2     290.0   1527.20
      2.59       .30       .46       .29      .040      .030      .040      .000   1524.10   9470.61
  .000007      460.      475.      480.         2         0         0       .00    718.47  10189.08

FLOW DISTRIBUTION FOR SECNO=     26.58          CWSEL=   1532.24

STA=    9471.    9539.    9568.    9602.    9655.    9691.    9725.    9752.    9786.    9845.    9869.   10028.   10086.
  PER Q=      6.7      5.0      4.9      6.6      4.4      4.0      3.2      3.7      5.3      2.0     36.9      7.5
   AREA=    281.5    186.8    198.6    282.5    188.7    174.8    140.2    168.0    258.0    100.6   1035.9    315.7
    VEL=       .3       .3       .3       .3       .3       .3       .3       .3       .3       .3       .5       .3
  DEPTH=      4.1      6.4      5.8      5.3      5.2      5.1      5.2      4.9      4.4      4.2      6.5      5.4

STA=   10086.   10123.   10157.   10189.
  PER Q=      4.7      3.8      1.4
   AREA=    199.5    170.6     87.9
    VEL=       .3       .3       .2
  DEPTH=      5.4      5.0      2.7

*SECNO 26.673
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3265 DIVI[illegible]LOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1535.00 ELREA= 1533.20

26.673	2.18	1533.98	1533.98	.00	1534.51	.53	.01	.16	1534.30
1300.0	.0	1094.7	205.3	.0	174.3	74.2	1269.0	295.3	1533.20
2.61	.00	6.28	2.77	.000	.030	.040	.000	1531.80	9957.84
.009696	510.	480.	460.	20	14	0	.00	239.18	10280.56

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 26.67 CWSEL= 1533.98

STA=	9958.	10077.	10105.	10120.	10205.	10237.	10265.	10281.
PER Q=	84.2	5.2	.9	.0	3.6	5.2	.9	
AREA=	174.3	21.8	5.8	.3	18.5	21.8	6.1	
VEL=	6.3	3.1	1.9	1.2	2.5	3.1	1.9	
DEPTH=	1.5	.8	.4	.0	.6	.8	.4	

*SECNO 26.784
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

26.784	3.48	1546.18	1546.18	.00	1547.20	1.02	5.95	.15	1551.20
1100.0	.0	1100.0	.0	.0	135.8	.0	1271.5	297.3	1551.50
2.63	.00	8.10	.00	.000	.030	.000	.000	1542.70	9980.90
.010938	590.	586.	530.	20	14	0	.00	68.01	10048.91

FLOW DISTRIBUTION FOR SECNO= 26.78 CWSEL= 1546.18

STA=	9981.	10080.
PER Q=	100.0	
AREA=	135.8	
VEL=	8.1	
DEPTH=	2.0	

*SECNO 26.883

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 42.71

26.883	7.21	1547.31	.00	.00	1547.31	.00	.01	.10	1544.70
1000.0	.9	936.4	62.7	9.9	2370.0	292.0	1288.3	300.3	1542.80
3.01	.10	.40	.21	.040	.030	.040	.000	1540.10	9765.39
.000005	530.	523.	500.	2	0	0	.00	434.21	10199.60

FLOW DISTRIBUTION FOR SECNO= 26.88 CWSEL= 1547.31

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9765.	9773.	10122.	10148.	10166.	10179.	10194.	10200.
PER Q=	.1	93.6	2.7	2.0	1.1	.4	.0	
AREA=	9.9	2370.0	119.8	85.6	52.1	31.6	2.8	
VEL=	.1	.4	.2	.2	.2	.1	.1	
DEPTH=	1.3	6.8	4.6	4.8	4.0	2.1	.5	

*SECNO 26.984

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .52

26.984	6.81	1547.31	.00	.00	1547.32	.00	.00	.00	1545.50
900.0	1.3	764.0	134.7	9.7	1283.2	393.8	1314.4	305.0	1546.50
3.27	.13	.60	.34	.040	.030	.040	.000	1540.50	9932.30
.000015	480.	533.	460.	2	0	0	.00	371.10	10336.41

FLOW DISTRIBUTION FOR SECNO= 26.98 CWSEL= 1547.31

STA=	9932.	9943.	10170.	10256.	10271.	10290.	10323.	10336.
PER Q=	.1	84.9	3.2	3.2	3.7	4.2	.7	
AREA=	9.7	1283.2	94.9	71.5	86.1	115.2	26.1	
VEL=	.1	.6	.3	.4	.4	.3	.2	
DEPTH=	.9	5.7	1.1	4.8	4.5	3.5	1.9	

*SECNO 27.060

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1565.00 ELREA= 1562.60

27.060	5.36	1559.46	1559.46	.00	1561.02	1.56	.02	.47	1560.80
900.0	.0	900.0	.0	.0	89.8	.0	1322.8	307.0	1562.60
3.28	.00	10.02	.00	.000	.030	.000	.000	1554.10	9983.67
.010153	270.	401.	470.	20	15	0	.00	29.47	10013.14

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 27.06 CWSEL= 1559.46

STA=	9984.	10019.

```
  PER Q=      0.0
   AREA=     89.8
    VEL=     10.0
  DEPTH=      3.0

*SECNO 27.166

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.65


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1565.00 ELREA=      1565.00

    27.166      6.98   1562.18       .00       .00   1562.35       .17      1.19       .14   1564.20
     600.0        .0     600.0        .0        .0     181.4        .0    1324.6     307.4   1563.90
      3.33       .00      3.31       .00      .000      .030      .000      .000   1555.20   9981.04
   .000644      560.      560.      560.         3         0         0       .00     38.99  10020.03


FLOW DISTRIBUTION FOR SECNO=     27.17          CWSEL=   1562.18

STA=    9981.   10023.
  PER Q=    100.0
   AREA=    181.4
    VEL=      3.3
  DEPTH=      4.7

*SECNO 27.294
    27.294      6.54   1562.54       .00       .00   1562.59       .05       .23       .01   1565.20
     400.0        .0     400.0        .0        .0     232.9        .0    1327.8     308.1   1564.60
      3.44       .00      1.72       .00      .000      .030      .000      .000   1556.00   9972.01
   .000167      710.      676.      630.         3         0         0       .00     50.20  10022.21


FLOW DISTRIBUTION FOR SECNO=     27.29          CWSEL=   1562.54

1
   17APR06      15:20:18                                                                                PAGE    92

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


STA=    9972.   10027.
  PER Q=    100.0
   AREA=    232.9
    VEL=      1.7
  DEPTH=      4.6

CCHV=      .100 CEHV=      .300
*SECNO -19.560
START TRIB COMP
   -19.560     19.560  1328.212
   -19.560      12.61   1328.21       .00       .00   1330.15      1.93       .00       .00   1329.70
   14600.0        .0   14600.0        .0        .0    1307.9        .0    1340.7     309.6   1330.60
      3.45       .00     11.16       .00      .000      .035      .000      .000   1315.60   9931.37
   .003382      730.      729.      720.         0         0         0       .00    129.62  10060.99


FLOW DISTRIBUTION FOR SECNO=    -19.56          CWSEL=   1328.21

STA=    9931.   10065.
```

```
  PER Q=     100.0
   AREA=    1307.9
    VEL=      11.2
  DEPTH=      10.1

*SECNO  .029

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      .029      9.75   1329.35   1329.35       .00   1332.60      3.24      1.11       .39   1329.50
    9500.0        .0    9478.3      21.7        .0     654.9      17.3    1350.5     310.9   1328.20
      3.46       .00     14.47      1.25      .000      .015      .035      .000   1319.60   9942.56
   .001821      380.      430.      450.        20        15         0       .00    130.50  10073.06


FLOW DISTRIBUTION FOR SECNO=       .03          CWSEL=   1329.35

STA=    9943.   10043.   10073.
  PER Q=     99.8       .2
   AREA=    654.9     17.3
    VEL=     14.5      1.3
  DEPTH=      6.5       .6
```



```
    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


*SECNO  .112

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

      .112     11.44   1332.94       .00       .00   1333.44       .50       .57       .27   1332.10
    9500.0     100.1    9399.9        .0      87.6    1654.0        .0    1363.8     313.4   1334.80
      3.49      1.14      5.68       .00      .035      .030      .000      .000   1321.50   9762.30
   .000828      430.      483.      450.         3         0         0       .00    330.25  10092.55


FLOW DISTRIBUTION FOR SECNO=       .11          CWSEL=   1332.94

STA=    9762.    9804.    9816.    9863.    9887.   10101.
  PER Q=       .0       .1       .6       .3     98.9
   AREA=      7.1      7.7     49.0     23.8   1654.0
    VEL=       .4       .9      1.3      1.2      5.7
  DEPTH=       .2       .6      1.0      1.0      8.0

*SECNO  .198
      .198      9.51   1333.31       .00       .00   1333.94       .63       .46       .04   1332.40
    9500.0      13.9    9486.1        .0      15.6    1493.4        .0    1380.7     316.4   1337.80
      3.51       .89      6.35       .00      .035      .030      .000      .000   1323.80   9860.87
   .001241      460.      454.      420.         2         0         0       .00    249.57  10110.44


FLOW DISTRIBUTION FOR SECNO=       .20          CWSEL=   1333.31

STA=    9861.    9897.   10133.
```

```
  PER Q=        .1      99.9
   AREA=      15.6    1493.4
    VEL=        .9       6.4
  DEPTH=        .4       7.0

*SECNO  .288

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
1
   17APR06      15:20:18                                                                                                PAGE   94

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

3720 CRITICAL DEPTH ASSUMED
      .288       7.61    1333.31    1333.31        .00    1335.83       2.52       1.21        .57    1336.00
    9500.0         .0     9500.0         .0         .0      745.7         .0     1393.0      318.6    1335.90
      3.52        .00      12.74        .00       .000       .030       .000       .000    1325.70    9903.19
   .007920       470.       475.       460.          3         15          0        .00     150.75   10053.94

FLOW DISTRIBUTION FOR SECNO=       .29          CWSEL=   1333.31

STA=    9903.   10069.
  PER Q=    100.0
   AREA=    745.7
    VEL=     12.7
  DEPTH=      4.9

*SECNO  .398

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.79

      .398       8.47    1337.27        .00        .00    1338.35       1.08       2.37        .14    1338.90
    9500.0         .0     9500.0         .0         .0     1138.7         .0     1405.6      320.8    1340.60
      3.54        .00       8.34        .00       .000       .030       .000       .000    1328.80    9912.48
   .002485       600.       581.       540.          2          0          0        .00     181.83   10094.30

FLOW DISTRIBUTION FOR SECNO=       .40          CWSEL=   1337.27

STA=    9912.   10119.
  PER Q=    100.0
   AREA=   1138.7
    VEL=      8.3
  DEPTH=      6.3

*SECNO  .482
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      .482      11.15    1342.35    1342.35        .00    1343.41       1.05       1.00        .00    1341.10
    9500.0       79.0     6887.4     2533.6       36.5      722.3      941.8     1418.2      324.7    1338.00
      3.55       2.17       9.54       2.69       .035       .030       .035       .000    1331.20    9903.83
   .002295       440.       444.       270.         20         12          0        .00     889.74   10793.57

1
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=       .48          CWSEL=   1342.35

STA=    9904.    9937.   10024.   10093.   10236.   10315.   10402.   10528.   10794.
  PER Q=       .8     72.5      9.0      4.9      3.6      3.1      3.4      2.6
   AREA=     36.4    722.3    203.8    189.3    124.7    117.7    145.3    161.1
    VEL=      2.2      9.5      4.2      2.5      2.8      2.5      2.2      1.6
  DEPTH=      1.1      8.3      3.0      1.3      1.6      1.4      1.2       .6

*SECNO  .575
      .575     12.32   1343.82       .00       .00   1344.53       .71      1.09       .03   1340.20
    9500.0     727.3    7778.2     994.5     211.3    1057.4     451.4    1437.5     333.9   1343.10
      3.57      3.44      7.36      2.20      .035      .030      .035      .000   1331.50   9777.80
   .002143      460.      491.      500.         3         0         0       .00    730.21  10508.02

FLOW DISTRIBUTION FOR SECNO=       .57          CWSEL=   1343.82

STA=    9778.    9869.   10049.   10105.   10113.   10186.   10239.   10274.   10411.   10508.
  PER Q=      7.7     81.9      1.2       .1       .7      2.1      2.1      4.0       .3
   AREA=    211.3   1057.4     57.1      6.6     45.3     77.9     67.2    167.2     30.1
    VEL=      3.4      7.4      2.0      1.7      1.4      2.5      3.0      2.2       .9
  DEPTH=      2.3      5.9      1.0       .8       .6      1.5      1.9      1.2       .3

*SECNO  .697
      .697     11.06   1345.06       .00       .00   1346.10      1.04      1.47       .10   1346.40
    9400.0        .0    9013.5     386.5        .0    1081.8     113.6    1459.0     341.1   1341.40
      3.59       .00      8.33      3.40      .000      .030      .035      .000   1334.00   9856.01
   .002432      640.      644.      640.         2         0         0       .00    237.20  10093.21

FLOW DISTRIBUTION FOR SECNO=       .70          CWSEL=   1345.06

STA=    9856.   10023.   10061.   10093.
  PER Q=     95.9      3.8       .3
   AREA=   1081.8     93.4     20.2
    VEL=      8.3      3.8      1.5
  DEPTH=      6.5      2.5       .6

*SECNO  .826
1
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```
    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
      .826      9.49   1348.29   1348.29       .00   1350.53      2.23      2.75       .36   1345.50
    9400.0     729.3    8670.7        .0     129.5     700.6        .0    1474.8     344.5   1349.50
      3.61      5.63     12.38       .00      .035      .035      .000      .000   1338.80   9845.35
```

.007973	680.	681.	660.	20	15	0	.00	199.85	10045.20

FLOW DISTRIBUTION FOR SECNO= .83 CWSEL= 1348.29

STA=	9845.	9893.	9929.	10050.
PER Q=	1.8	6.0	92.2	
AREA=	45.1	84.4	700.6	
VEL=	3.7	6.7	12.4	
DEPTH=	.9	2.3	6.0	

*SECNO .945

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.23

.945	11.72	1352.12	.00	.00	1352.63	.52	1.93	.17	1348.60
9400.0	1059.5	7814.3	526.3	363.8	1260.4	223.3	1494.4	350.1	1349.50
3.64	2.91	6.20	2.36	.035	.035	.035	.000	1340.40	9624.18
.001604	680.	628.	600.	3	0	0	.00	561.70	10185.88

FLOW DISTRIBUTION FOR SECNO= .94 CWSEL= 1352.12

STA=	9624.	9674.	9704.	9769.	9819.	9843.	9856.	10034.	10046.	10100.	10186.
PER Q=	.0	.1	2.9	4.8	2.0	1.5	83.1	.9	3.1	1.6	
AREA=	7.9	9.5	111.6	135.8	59.2	39.9	1260.4	27.8	108.9	86.6	
VEL=	.5	.8	2.4	3.3	3.1	3.6	6.2	3.0	2.7	1.7	
DEPTH=	.2	.3	1.7	2.7	2.5	3.1	7.1	2.3	2.0	1.0	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 1.035

1.035	11.03	1352.93	.00	.00	1353.65	.72	.96	.06	1350.80
9400.0	1059.6	7955.9	384.6	284.3	1102.8	116.6	1512.3	355.5	1348.80
3.66	3.73	7.21	3.30	.035	.035	.035	.000	1341.90	9686.18
.002658	440.	475.	460.	3	0	0	.00	460.77	10146.95

FLOW DISTRIBUTION FOR SECNO= 1.03 CWSEL= 1352.93

STA=	9686.	9723.	9776.	9795.	9823.	9832.	9841.	10022.	10046.	10059.	10100.	10147.
PER Q=	1.2	2.5	.3	3.3	2.5	1.5	84.6	3.3	.3	.3	.1	
AREA=	44.8	81.2	14.8	73.7	39.9	30.0	1102.8	70.4	14.1	19.7	12.5	
VEL=	2.5	2.9	1.9	4.2	5.9	4.8	7.2	4.5	2.3	1.3	.9	
DEPTH=	1.2	1.5	.8	2.6	4.4	3.3	6.1	2.9	1.1	.5	.3	

*SECNO 1.121

1.121	10.56	1354.16	.00	.00	1354.96	.80	1.29	.02	1355.00
9400.0	.0	9396.0	4.0	.0	1310.2	4.9	1527.1	359.1	1353.60
3.68	.00	7.17	.82	.000	.040	.040	.000	1343.60	9871.67
.003028	480.	454.	440.	2	0	0	.00	235.28	10106.95

FLOW DISTRIBUTION FOR SECNO= 1.12 CWSEL= 1354.16

STA=	9872.	10069.	10082.	10107.

```
  PER Q=    100.0       .0       .0
   AREA=   1310.2      4.1       .8
    VEL=      7.2       .9       .2
  DEPTH=      6.6       .3       .0

*SECNO 1.204

3265 DIVIDED FLOW

3280 CROSS SECTION      1.20 EXTENDED       .02 FEET


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1
   17APR06      15:20:18                                                                                    PAGE   98

    SECNO      DEPTH     CWSEL     CRIWS     WSELK      EG        HV        HL       OLOSS     L-BANK ELEV
    Q          QLOB      QCH       QROB      ALOB       ACH       AROB      VOL      TWA       R-BANK ELEV
    TIME       VLOB      VCH       VROB      XNL        XNCH      XNR       WTN      ELMIN     SSTA
    SLOPE      XLOBL     XLCH      XLOBR     ITRIAL     IDC       ICONT     CORAR    TOPWID    ENDST

     1.204     11.12   1355.42   1355.42       .00   1357.51      2.09      2.02       .39   1355.60
    9400.0        .0    8391.4    1008.6        .0     689.1     214.7    1538.3     361.4   1352.50
      3.69       .03     12.18      4.70      .040      .040      .040      .000   1344.30   9930.00
   .007829      430.      438.      450.         2         9         0       .00    226.07  10173.36


FLOW DISTRIBUTION FOR SECNO=      1.20          CWSEL=   1355.42

STA=    9930.   10043.   10057.   10072.   10098.   10165.   10173.
  PER Q=     89.3      1.9      1.2      2.5      5.0       .1
   AREA=    689.1     31.8     25.1     47.4    105.3      5.1
    VEL=     12.2      5.7      4.6      4.9      4.4      2.4
  DEPTH=      7.4      2.3      1.7      1.8      1.6       .6

*SECNO 1.315

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.29

     1.315     10.53   1359.33       .00       .00   1359.72       .39      2.04       .17   1359.70
    9100.0        .0    6944.0    2156.0        .0    1301.1     568.6    1561.3     366.0   1359.00
      3.73       .00      5.34      3.79      .000      .040      .040      .000   1348.80   9904.63
   .001396      720.      734.      700.         3         0         0       .00    332.04  10236.67


FLOW DISTRIBUTION FOR SECNO=      1.32          CWSEL=   1359.33

STA=    9905.   10074.   10085.   10091.   10130.   10150.   10170.   10230.   10237.
  PER Q=     76.3       .1       .2      1.0      3.4      8.4     10.5       .1
   AREA=   1301.1     10.3      8.6     52.0     86.7    146.7    260.0      4.4
    VEL=      5.3      1.3      1.8      1.7      3.6      5.2      3.7      1.0
  DEPTH=      7.7       .9      1.4      1.3      4.3      7.3      4.3       .7

*SECNO 1.420

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

3720 CRITICAL DEPTH ASSUMED
     1.420      5.09   1359.99   1359.99       .00   1362.07      2.08      1.02       .51   1360.00
    9100.0        .0    9100.0       .0        .0     786.8        .0    1573.8     368.5   1360.00
      3.74       .00     11.57       .00      .000      .025      .000      .000   1354.90   9895.02
   .005734      380.      407.      420.        20        11         0       .00    189.95  10084.98

FLOW DISTRIBUTION FOR SECNO=      1.42          CWSEL=   1359.99

STA=    9895.   10085.
  PER Q=    100.0
   AREA=    786.8
    VEL=     11.6
  DEPTH=      4.1
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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          FLOODWAY        J.MISCHLER

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

              3.                                                          1284.69

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    15.                 -1.
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*PROF 2
0

CCHV=     .100 CEHV=     .300
*SECNO 17.588
 2800 NAT Q1=    5622.52  WSELK=    1283.69  ENC Q1=    5622.52  WSEL=    1284.69  RATIO=    .0000
 NAT Q1=    6698.  RATIOS LOB, CH, ROB=    .2409    .7347    .0244  WSEL=    1284.69

3470 ENCROACHMENT STATIONS=     9855.2   10193.0  TYPE=      4  TARGET=         .161
    17.588     15.09   1284.69       .00   1283.69   1285.08       .39       .00       .00   1278.10
   15400.0    1964.8   13435.2        .0     646.6    2548.7        .0        .0        .0   1276.40
       .00      3.04      5.27       .00      .040      .040      .000      .000   1269.60   9855.24
   .000784      440.      496.      560.         0         0         0       .00    337.76  10193.00

*SECNO 17.662
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3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .54

3470 ENCROACHMENT STATIONS=     9900.0   10150.0  TYPE=      1  TARGET=      250.000
    17.662     13.21   1284.81       .00   1283.82   1285.77       .96       .51       .17   1276.40
   15400.0    2238.0   13039.2     122.7     318.6    1628.5      41.0      23.1       2.6   1281.60
       .01      7.02      8.01      2.99      .040      .040      .040      .000   1271.60   9900.00
   .002664      380.      391.      400.         2         0         0       .00    250.00  10150.00

*SECNO 17.783
 2800 NAT Q1=    1848.70  WSELK=    1285.58  ENC Q1=    2096.47  WSEL=    1286.58  RATIO=   -.1340
 NAT Q1=    2292.  RATIOS LOB, CH, ROB=    .0251    .9148    .0601  WSEL=    1286.58

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .64

3470 ENCROACHMENT STATIONS=     9921.0   10064.0  TYPE=      4  TARGET=          .085
    17.783     10.97   1286.37       .00   1285.58   1288.65      2.28      2.49       .40   1280.50
   15400.0        .0   15400.0        .0        .0    1271.4        .0      46.6       5.4   1281.10
       .03       .00     12.11       .00      .000      .040      .000      .000   1275.40   9921.00
   .006431      540.      639.      500.         2         0         0       .00    143.00  10064.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 17.932
 2800 NAT Q1=    1583.93  WSELK=    1290.98  ENC Q1=    1874.27  WSEL=    1291.98  RATIO=   -.1833
 NAT Q1=    1919.  RATIOS LOB, CH, ROB=    .0153    .9768    .0079  WSEL=    1291.98

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     9956.0   10066.0  TYPE=      4  TARGET=          .023
    17.932     13.51   1291.41       .00   1290.98   1294.76      3.36      5.79       .32   1289.70
   15400.0        .0   15400.0        .0        .0    1047.0        .0      67.6       7.7   1290.20
       .04       .00     14.71       .00      .000      .040      .000      .000   1277.90   9956.00
   .008488      790.      787.      780.         2         0         0       .00    110.00  10066.00

CCHV=     .300 CEHV=     .500
*SECNO 18.042
 2800 NAT Q1=    2422.94  WSELK=    1294.31  ENC Q1=    2802.31  WSEL=    1295.31  RATIO=   -.1566
 NAT Q1=    2802.  RATIOS LOB, CH, ROB=    .0000   1.0000    .0000  WSEL=    1295.31

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

3470 ENCROACHMENT STATIONS=     9951.0   10049.0  TYPE=      4  TARGET=          .000
    18.042     12.13   1294.43       .00   1294.31   1298.17      3.74      3.22       .19   1357.40
   15400.0        .0   15400.0        .0        .0     992.5        .0      81.2       9.1   1307.40
       .05       .00     15.52       .00      .000      .025      .000      .000   1282.30   9951.60
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   .003893      620.      581.      550.        2        0        0       00     96.78  10048.38


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.05      1.56      3.00       .00     75.00      4.00   1059.00      .81   1280.20   1279.90

*SECNO 18.061
BTCARD, BRIDGE STENCL=    9951.00   STENCR=   10049.00
 2800 NAT Q1=    2933.00  WSELK=    1296.44  ENC Q1=    3334.23  WSEL=    1297.44  RATIO=   -.1368
 NAT Q1=    3334.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1297.44

3301 HV CHANGED MORE THAN HVINS

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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


PRESSURE FLOW


 EGPRS     EGLWC      H3       QWEIR     QPR       BAREA   TRAPEZOID     ELLC      ELTRD     WEIRLN
                                                            AREA
   1299.55   1299.06     1.10       0.    15400.     1059.     1060.    1293.20   1301.60       0.


3470 ENCROACHMENT STATIONS=     9951.0   10049.0  TYPE=      4  TARGET=         .000
    18.061     13.59   1296.69       .00   1296.44   1299.55      2.86      1.38       .00   1358.20
   15400.0        .0   15400.0        .0        .0    1133.8        .0      83.6       9.3   1308.20
       .06       .00     13.58       .00      .000      .025      .000      .000   1283.10   9951.53
   .002582      101.      101.      101.         3         0         0       .00     96.91  10048.45

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.96


3470 ENCROACHMENT STATIONS=     9900.0   10085.0  TYPE=      1  TARGET=      185.000
    18.081     18.51   1299.61       .00   1299.54   1300.32       .71       .13       .65   1286.60
   15400.0    1220.6   12608.4    1571.0     308.4    1745.1     357.6      88.0       9.7   1284.90
       .06      3.96      7.22      4.39      .035      .035      .035      .000   1281.10   9900.00
   .000671       80.      106.      130.         3         0         0       .00    185.00  10085.00


CCHV=     .100 CEHV=     .300
*SECNO 18.174

3470 ENCROACHMENT STATIONS=     9857.0   10125.0  TYPE=      1  TARGET=      268.000
    18.174     18.48   1300.18       .00   1300.22   1300.63       .45       .28       .03   1288.70
   15400.0    1800.2   13116.1     483.8     472.7    2324.4     213.2     118.6      12.2   1294.60
       .09      3.81      5.64      2.27      .035      .035      .035      .000   1281.70   9857.02
   .000485      500.      491.      490.         2         0         0       .00    267.98  10125.00
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*SECNO 18.269

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9882.2 10110.0 TYPE= 1 TARGET= 227.800

18.269	16.50	1300.30	.00	1300.17	1301.04	.74	.32	.09	1288.40
15400.0	2281.3	12415.2	703.5	452.7	1691.6	205.0	149.4	15.1	1292.40
.11	5.04	7.34	3.43	.035	.035	.035	.000	1283.80	9882.20
.000870	500.	502.	500.	2	0	0	.00	227.80	10110.00

*SECNO 18.362

3470 ENCROACHMENT STATIONS= 9895.6 10107.8 TYPE= 1 TARGET= 212.200

18.362	15.34	1300.64	.00	1300.54	1301.60	.95	.50	.06	1290.00
15400.0	1169.8	13188.3	1041.9	244.9	1597.1	244.2	174.5	17.6	1290.60
.12	4.78	8.26	4.27	.035	.035	.035	.000	1285.30	9895.60
.001186	490.	491.	510.	1	0	0	.00	212.20	10107.80

*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9885.0 10110.0 TYPE= 1 TARGET= 225.000

18.445	17.61	1304.91	1304.91	1305.39	1307.77	2.86	1.00	.57	1290.00
15400.0	5150.6	4076.3	6173.1	519.2	211.4	537.3	191.9	19.8	1290.00
.13	9.92	19.29	11.49	.035	.035	.035	.000	1287.30	9888.33
.005594	470.	440.	460.	20	11	0	.00	221.67	10110.00

SPECIAL BRIDGE

SB XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
.90	2.34	3.00	.00	6.11	1.00	33.20	.00	1287.70	1287.40

*SECNO 18.456
BTCARD, BRIDGE STENCL= 9885.00 STENCR= 10110.00

3301 HV CHANGED MORE THAN HVINS

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.86

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
9122.90	1309.51	1.74	15031.	376.	33.	33.	1294.20	1299.50	225.

3470 ENCROACHMENT STATIONS= 9885.0 10110.0 TYPE= 1 TARGET= 225.000

18.456	20.82	1308.52	.00	1307.31	1309.57	1.05	1.80	.00	1290.40
15400.0	5931.9	2952.3	6515.8	862.2	253.1	874.7	194.1	20.2	1290.40
.14	6.88	11.66	7.45	.035	.035	.035	.000	1287.70	9885.00
.001609	60.	60.	60.	3	0	7	.00	225.00	10110.00

*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.19

3470 ENCROACHMENT STATIONS= 9881.4 10169.8 TYPE= 1 TARGET= 288.399

18.545	20.26	1309.56	.00	1308.28	1309.93	.37	.29	.07	1294.10
15400.0	1923.3	10840.1	2636.6	584.0	1994.2	825.5	222.8	22.9	1293.80
.16	3.29	5.44	3.19	.035	.035	.035	.000	1289.30	9881.40
.000334	440.	466.	480.	2	0	0	.00	288.40	10169.80

*SECNO 18.575

3470 ENCROACHMENT STATIONS= 9880.7 10170.8 TYPE= 1 TARGET= 290.100

18.575	20.37	1309.67	.00	1308.43	1309.99	.32	.05	.00	1291.50
15400.0	3707.2	3015.7	8677.1	946.3	545.8	1943.6	235.4	23.9	1289.70
.17	3.92	5.53	4.46	.035	.035	.035	.000	1289.30	9880.70
.000325	160.	160.	160.	2	0	0	.00	290.10	10170.80

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	10.40	1.00	56.50	.00	1289.40	1289.30

*SECNO 18.583
BTCARD, BRIDGE STENCL= 9876.10 STENCR= 10177.20
PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3109.30	1310.06	.06	15166.	309.	57.	56.	1295.40	1299.00	290.

```
3470 ENCROACHMENT STATIONS=     9876.1   10177.2  TYPE=      1  TARGET=      301.101
    18.583     20.69   1310.09       .00   1309.50   1310.39       .31       .40       .00   1291.60
   15400.0    3739.8    2983.7    8676.5     980.5     554.7    2005.0     238.6      24.2   1289.80
       .17      3.81      5.38      4.33      .035      .035      .035      .000   1289.40   9876.10
   .000301       40.       40.       40.         2         0         8       .00    301.10  10177.20


*SECNO 18.640

3470 ENCROACHMENT STATIONS=     9879.6   10134.7  TYPE=      1  TARGET=      255.101
    18.640     19.82   1310.02       .00   1309.43   1310.59       .57       .12       .08   1294.60
   15400.0    2433.4    9638.4    3328.3     557.4    1397.4     771.3     260.5      26.2   1293.40
       .19      4.37      6.90      4.32      .035      .035      .035      .000   1290.20   9879.60
   .000567      300.      301.      310.         2         0         0       .00    255.10  10134.70


*SECNO 18.734

3470 ENCROACHMENT STATIONS=     9883.2   10111.7  TYPE=      1  TARGET=      228.500
    18.734     17.84   1310.24       .00   1309.68   1310.99       .75       .34       .05   1298.60
   15400.0    1412.7   13301.7     685.5     334.5    1817.1     202.6     289.4      28.9   1300.80
       .21      4.22      7.32      3.38      .035      .035      .035      .000   1292.40   9883.20
   .000841      490.      496.      500.         0         0         0       .00    228.50  10111.70


*SECNO 18.832

3470 ENCROACHMENT STATIONS=     9891.8   10107.0  TYPE=      1  TARGET=      215.200
1
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


    18.832     17.46   1310.66       .00   1310.19   1311.44       .78       .44       .01   1302.80
   15400.0     497.2   12812.5    2090.3     155.5    1713.0     426.4     317.0      31.5   1297.10
       .23      3.20      7.48      4.90      .035      .035      .035      .000   1293.20   9891.80
   .000880      480.      517.      540.         2         0         0       .00    215.20  10107.00


*SECNO 18.925

3470 ENCROACHMENT STATIONS=     9887.7   10087.5  TYPE=      1  TARGET=      199.800
    18.925     16.45   1311.05       .00   1310.64   1311.94       .89       .46       .03   1297.60
   15400.0    1782.2   12651.3     966.5     370.2    1567.8     226.4     342.1      33.9   1300.00
       .25      4.81      8.07      4.27      .035      .035      .035      .000   1294.60   9887.70
   .001019      480.      491.      500.         2         0         0       .00    199.80  10087.50


*SECNO 19.018

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =    .63


3470 ENCROACHMENT STATIONS=     9866.3   10038.5  TYPE=      1  TARGET=      172.200
    19.018     13.66   1311.26       .00   1310.89   1312.92      1.66       .75       .23   1305.10
   15400.0     558.1   14803.5      38.4     120.2    1408.9      13.8     362.9      36.0   1308.40
       .26      4.64     10.51      2.79      .035      .035      .035      .000   1297.60   9866.30
   .002537      460.      491.      520.         2         0         0       .00    172.20  10038.50
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*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9942.1 10061.9 TYPE= 1 TARGET= 119.801

19.117	14.08	1312.68	1312.68	1312.49	1316.84	4.15	1.97	.75	1302.90
15400.0	1457.2	11826.8	2116.0	154.6	662.8	205.2	378.3	37.7	1301.50
.27	9.42	17.84	10.31	.035	.035	.035	.000	1298.60	9942.10
.006175	490.	523.	560.	20	8	0	.00	119.80	10061.90

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.54

3470 ENCROACHMENT STATIONS= 9923.1 10081.0 TYPE= 1 TARGET= 157.900

19.210	16.90	1317.10	.00	1317.19	1318.95	1.85	1.88	.23	1312.00
15400.0	219.5	14969.9	210.6	55.2	1353.6	53.1	392.3	39.3	1312.00
.28	3.97	11.06	3.97	.035	.035	.035	.000	1300.20	9923.33
.002610	500.	491.	490.	3	0	0	.00	157.49	10080.82

CCHV= .300 CEHV= .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1324.00 ELREA= 1324.00

19.283	8.22	1319.92	1319.92	1319.92	1324.04	4.13	1.67	1.14	1311.70
14600.0	.0	14600.0	.0	.0	895.7	.0	402.8	40.5	1311.70
.29	.00	16.30	.00	.000	.035	.000	.000	1311.70	9948.00
.008889	390.	386.	390.	20	11	0	.00	109.00	10057.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1318.71 , NOT 1319.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
.90	1.56	3.00	.00	109.00	4.50	1304.00	.00	1311.70	1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1320.16 BRIDGE VELOCITY= 16.51 CALCULATED CHANNEL AREA= 884.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1322.95	1324.65	.00	0.	14600.	1304.	1306.	1324.20	1326.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1325.00 ELREA= 1325.00

19.299	10.36	1322.06	.00	1322.06	1324.65	2.60	.61	.00	1311.70
14600.0	.0	14600.0	.0	.0	1128.7	.0	404.8	40.7	1311.70
.29	.00	12.94	.00	.000	.035	.000	.000	1311.70	9948.00
.004112	86.	86.	86.	0	0	0	.00	109.00	10057.00

*SECNO 19.313
2800 NAT Q1= 2287.58 WSELK= 1323.31 ENC Q1= 2700.20 WSEL= 1324.31 RATIO= -.1804
NAT Q1= 2700. RATIOS LOB, CH, ROB= .0000 1.0000 .0000 WSEL= 1324.31

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9932.0 10112.0 TYPE= 4 TARGET= .000

19.313	11.60	1323.30	.00	1323.31	1325.17	1.87	.30	.22	1327.90
14600.0	.0	14600.0	.0	.0	1330.4	.0	406.9	40.9	1325.50
.29	.00	10.97	.00	.000	.035	.000	.000	1311.70	9944.35
.004078	75.	74.	75.	4	0	0	.00	159.64	10103.99

CCHV= .100 CEHV= .300
*SECNO 19.418
2800 NAT Q1= 2296.67 WSELK= 1325.59 ENC Q1= 2729.66 WSEL= 1326.59 RATIO= -.1885
NAT Q1= 2731. RATIOS LOB, CH, ROB= .0000 .9994 .0006 WSEL= 1326.59

3470 ENCROACHMENT STATIONS= 9948.0 10120.0 TYPE= 4 TARGET= .001

19.418	12.59	1325.59	.00	1325.59	1327.43	1.83	2.25	.00	1328.00
14600.0	.0	14600.0	.0	.0	1343.4	.0	423.9	42.9	1326.10
.31	.00	10.87	.00	.000	.035	.000	.000	1313.00	9955.11
.004041	570.	554.	530.	3	0	0	.00	162.69	10117.80

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA

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    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 19.560
 2800 NAT Q1=    2508.10  WSELK=    1328.21  ENC Q1=    2890.11  WSEL=    1329.21  RATIO=   -.1523
 NAT Q1=    2890.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1329.21

3470 ENCROACHMENT STATIONS=     9929.0   10065.0  TYPE=      4  TARGET=         .000
    19.560     12.61   1328.21       .00   1328.21   1330.15      1.93      2.69       .03   1329.70
   14600.0        .0   14600.0        .0        .0    1308.0        .0     446.0      45.4   1330.60
       .33       .00     11.16       .00      .000      .035      .000      .000   1315.60   9931.37
   .003382      730.      729.      720.         2         0         0       .00    129.63  10060.99


CCHV=     .300 CEHV=     .500
*SECNO 19.625
 2800 NAT Q1=    3892.33  WSELK=    1329.89  ENC Q1=    4433.23  WSEL=    1330.89  RATIO=   -.1390
 NAT Q1=    4433.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1330.89

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9965.0   10025.0  TYPE=      4  TARGET=         .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1332.00 ELREA=      1332.00

    19.625     12.35   1329.95       .00   1329.89   1330.87       .92       .42       .30   1317.60
    5700.0        .0    5700.0        .0        .0     741.2        .0     454.6      46.2   1317.60
       .34       .00      7.69       .00      .000      .015      .000      .000   1317.60   9965.00
   .000271      580.      364.       70.         3         0         0       .00     60.00  10025.00


SPECIAL BRIDGE

SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.05       1.56       3.00     100.00      60.00       2.00     564.00       .00    1318.60    1317.60

*SECNO 19.691
 2800 NAT Q1=    4235.58  WSELK=    1331.53  ENC Q1=    4792.54  WSEL=    1332.53  RATIO=   -.1315
 NAT Q1=    4793.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1332.53
PRESSURE FLOW
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     SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
     Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
     TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
     SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


  EGPRS      EGLWC      H3         QWEIR      QPR        BAREA      TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                      AREA
   1332.43    1331.10       .08        0.      5700.       564.       563.      1328.30    1334.80        0.


3470 ENCROACHMENT STATIONS=     9965.0   10025.0  TYPE=      4  TARGET=         .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1333.00 ELREA=      1333.00

    19.691     13.00   1331.60       .00   1331.53   1332.43       .83      1.56       .00   1318.60
    5700.0        .0    5700.0        .0        .0     780.3        .0     460.7      46.7   1318.60
       .35       .00      7.30       .00      .000      .015      .000      .000   1318.60   9965.00
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   .000231      330.      350.      430.         2         0         0       .00     60.00  10025.00

*SECNO 19.742

3470 ENCROACHMENT STATIONS=     9953.0   10038.0  TYPE=      1  TARGET=       85.000
    19.742     12.93   1332.03       .00   1331.99   1332.57       .54       .05       .09 100000.00
    5700.0        .0    5700.0        .0        .0     969.0        .0     466.1      47.1 100000.00
       .36       .00      5.88       .00      .000      .015      .000      .000   1319.10   9953.00
   .000167       80.      269.      470.         2         0         0       .00     85.00  10038.00

CCHV=     .100 CEHV=     .300
*SECNO 19.847

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .36

3470 ENCROACHMENT STATIONS=     9957.0   10043.0  TYPE=      1  TARGET=       86.000
    19.847     13.34   1332.14       .00   1332.14   1332.81       .67       .20       .04 100000.00
    5700.0        .0    5700.0        .0        .0     868.5        .0     477.8      48.2 100000.00
       .39       .00      6.56       .00      .000      .035      .000      .000   1318.80   9957.00
   .001291      570.      554.      520.         0         0         0       .00     86.00  10043.00

*SECNO 19.960

3301 HV CHANGED MORE THAN HVINS

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .37

3470 ENCROACHMENT STATIONS=     9958.0   10031.0  TYPE=      1  TARGET=       73.000
    19.960      7.83   1332.43       .00   1332.37   1335.03      2.60      1.64       .58   1330.00
    5700.0        .0    5700.0        .0        .0     440.5        .0     486.8      49.3 100000.00
       .40       .00     12.94       .00      .000      .035      .000      .000   1324.60   9958.00
   .009425      640.      597.      560.         2         0         0       .00     73.00  10031.00

CCHV=     .300 CEHV=     .500
*SECNO 19.974

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.49

3470 ENCROACHMENT STATIONS=     9969.0   10020.0  TYPE=      1  TARGET=       51.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1336.00 ELREA=      1336.00

    19.974      9.87   1333.67       .00   1333.31   1335.66      1.99       .45       .18   1323.80
    5700.0        .0    5700.0        .0        .0     503.0        .0     487.6      49.4 100000.00
       .40       .00     11.33       .00      .000      .035      .000      .000   1323.80   9969.00
   .004262      105.       74.       65.         3         0         0       .00     51.00  10020.00
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SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	51.00	3.00	480.00	.00	1324.10	1323.80

*SECNO 19.986
BTCARD, BRIDGE STENCL= 9969.00 STENCR= 10020.00

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1337.08	1336.16	.79	0.	5700.	480.	480.	1334.10	1337.90	0.

3470 ENCROACHMENT STATIONS= 9969.0 10020.0 TYPE= 1 TARGET= 51.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1337.00 ELREA= 1337.00

19.986	11.92	1335.72	.00	1335.25	1337.08	1.37	1.42	.00	1323.80
5700.0	.0	5700.0	.0	.0	607.9	.0	488.4	49.5	100000.00
.40	.00	9.38	.00	.000	.035	.000	.000	1323.80	9969.00
.002370	61.	61.	61.	3	0	0	.00	51.00	10020.00

*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9975.0 10025.0 TYPE= 1 TARGET= 50.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1340.00 ELREA= 100000.00

20.049	11.10	1338.20	1338.20	1338.35	1341.96	3.76	1.48	1.20	100000.00
5700.0	.0	5700.0	.0	.0	366.4	.0	492.1	49.9	100000.00
.41	.00	15.56	.00	.000	.035	.000	.000	1327.10	9975.00
.011186	305.	333.	345.	20	11	0	.00	49.93	10024.93

CCHV= .100 CEHV= .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.73

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     9972.0   10029.0  TYPE=      1  TARGET=       57.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1344.00 ELREA=      1340.80

   20.144     12.48   1343.38       .00   1343.48   1345.17      1.79      3.01       .20 100000.00
   5700.0       .0    5671.1      28.9        .0     526.6       9.6     497.3      50.5   1340.80
      .42       .00     10.77      3.02      .000      .035      .040      .000   1330.90   9972.00
  .003733     490.      502.      500.         2         0         0       .00     57.00  10029.00


*SECNO 20.242

3470 ENCROACHMENT STATIONS=     9964.0   10035.0  TYPE=      1  TARGET=       71.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1348.00 ELREA=      1342.80

   20.242     12.21   1345.51       .00   1345.49   1347.16      1.65      1.98       .01 100000.00
   5700.0       .0    5645.3      54.7        .0     545.7      15.7     503.8      51.2   1342.80
      .44       .00     10.35      3.49      .000      .035      .040      .000   1333.30   9964.00
  .003905     470.      517.      560.         3         0         0       .00     71.00  10035.00


*SECNO 20.335

3470 ENCROACHMENT STATIONS=     9963.0   10036.0  TYPE=      1  TARGET=       73.000
   20.335     10.24   1347.54       .00   1347.44   1348.79      1.25      1.59       .04 100000.00
   5700.0       .0    5672.0      28.0        .0     630.1      10.2     510.6      52.0   1344.00
      .45       .00      9.00      2.76      .000      .035      .040      .000   1337.30   9963.00
  .002739     510.      491.      470.         2         0         0       .00     73.00  10036.00


CCHV=     .300 CEHV=     .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1351.50 ELREA=      1351.50

   20.347     10.22   1347.42       .00   1347.24   1349.28      1.86       .18       .30   1337.20
   5700.0       .0    5700.0        .0        .0     521.2        .0     511.4      52.1   1337.20
      .45       .00     10.94       .00      .000      .035      .000      .000   1337.20   9970.00
  .002991       1.       63.      150.         2         0         0       .00     51.00  10021.00
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST
```

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1337.70	1337.20

*SECNO 20.366
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1349.79	1349.73	.68	0.	5700.	576.	576.	1349.70	1354.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.366	10.98	1348.18	.00	1347.97	1349.79	1.61	.52	.00	1337.20
5700.0	.0	5700.0	.0	.0	560.2	.0	512.7	52.3	1337.20
.46	.00	10.17	.00	.000	.035	.000	.000	1337.20	9970.00
.002352	100.	100.	100.	3	0	0	.00	51.00	10021.00

*SECNO 20.423

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9958.0 10072.0 TYPE= 1 TARGET= 114.000

20.423	11.71	1349.71	.00	1349.57	1350.61	.91	.61	.21	1345.00
5700.0	107.1	5250.9	342.0	39.5	665.4	90.5	517.3	52.8	1344.30
.47	2.71	7.89	3.78	.040	.035	.040	.000	1338.00	9958.20
.001788	415.	301.	205.	3	0	0	.00	113.80	10072.00

*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.430	9.97	1349.27	.00	1349.13	1351.22	1.95	.09	.52	1339.30
5700.0	.0	5700.0	.0	.0	508.8	.0	517.9	52.9	1339.30
.47	.00	11.20	.00	.000	.035	.000	.000	1339.30	9985.00
.003242	1.	37.	65.	2	0	0	.00	51.00	10036.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1339.30	1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1348.77 BRIDGE VELOCITY= 12.54 CALCULATED CHANNEL AREA= 455.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1351.64	1351.71	.75	0.	5700.	576.	576.	1351.30	1355.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1353.50 ELREA= 1353.50

20.444	10.72	1350.02	.00	1349.92	1351.71	1.69	.49	.00	1339.30
5700.0	.0	5700.0	.0	.0	546.8	.0	518.7	53.0	1339.30
.47	.00	10.43	.00	.000	.035	.000	.000	1339.30	9985.00
.002550	70.	70.	70.	0	0	0	.00	51.00	10036.00

*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9930.0 10069.0 TYPE= 1 TARGET= 139.000

20.529	9.24	1352.24	.00	1352.25	1353.01	.77	1.02	.28	1350.20
5700.0	79.8	5564.0	56.2	32.8	783.6	24.7	525.9	54.0	1350.40
.49	2.44	7.10	2.28	.040	.035	.040	.000	1343.00	9930.00
.002052	545.	449.	375.	3	0	0	.00	139.00	10069.00

CCHV= .100 CEHV= .300
*SECNO 20.628

3470 ENCROACHMENT STATIONS= 9935.0 10065.0 TYPE= 1 TARGET= 130.000

20.628	10.04	1353.34	.00	1353.31	1353.79	.45	.75	.03	100000.00
5700.0	.0	5700.0	.0	.0	1059.1	.0	537.3	55.6	100000.00
.52	.00	5.38	.00	.000	.035	.000	.000	1343.30	9935.00
.001054	530.	523.	520.	2	0	0	.00	130.00	10065.00

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9962.0 10026.0 TYPE= 1 TARGET= 64.000

20.725	8.74	1355.94	1355.94	1356.04	1359.12	3.18	1.26	.82	100000.00
5700.0	.0	5700.0	.0	.0	398.2	.0	545.9	56.7	100000.00
.53	.00	14.31	.00	.000	.035	.000	.000	1347.20	9962.00
.011046	510.	512.	520.	20	15	0	.00	64.00	10026.00

CCHV= .300 CEHV= .500
*SECNO 20.737
3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBA[illegible] MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1363.00 ELREA= 1363.00

20.737	7.30	1358.20	1358.20	1358.17	1361.84	3.64	.80	.23	1350.90
5700.0	.0	5700.0	.0	.0	372.1	.0	546.6	56.8	1350.90
.53	.00	15.32	.00	.000	.035	.000	.000	1350.90	9968.00
.009201	80.	80.	80.	20	11	0	.00	51.00	10019.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1356.93 , NOT 1358.20 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1351.00	1350.90

*SECNO 20.750

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1358.54 BRIDGE VELOCITY= 15.64 CALCULATED CHANNEL AREA= 362.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1362.70	.00	0.	5700.	576.	576.	1363.00	1366.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1364.00 ELREA= 1364.00

20.750	9.60	1360.60	.00	1360.60	1362.70	2.11	.86	.00	1351.00
5700.0	.0	5700.0	.0	.0	489.5	.0	547.3	56.9	1351.00
.53	.00	11.64	.00	.000	.035	.000	.000	1351.00	9968.00
.003686	71.	71.	71.	0	0	0	.00	51.00	10019.00

*SECNO 20.819

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1366.90 ELREA= 1366.90

20.819	5.87	1362.37	.00	1362.37	1364.78	2.41	1.92	.15	1356.50
5700.0	.0	5700.0	.0	.0	457.7	.0	551.2	57.4	1356.50
.54	.00	12.45	.00	.000	.035	.000	.000	1356.50	9965.00
.008131	375.	365.	345.	3	0	0	.00	78.00	10043.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1361.20 , NOT 1362.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	77.30	3.30	655.00	.00	1357.40	1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1362.64 BRIDGE VELOCITY= 13.54 CALCULATED CHANNEL AREA= 388.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1364.20	1366.08	.00	0.	5700.	655.	592.	1365.40	1369.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1367.90 ELREA= 1367.90

20.841	6.98	1364.38	.00	1364.38	1366.08	1.70	1.31	.00	1357.40
5700.0	.0	5700.0	.0	.0	544.7	.0	552.6	57.6	1357.40
.54	.00	10.46	.00	.000	.035	.000	.000	1357.40	9965.00
.004551	115.	115.	115.	0	0	0	.00	78.00	10043.00

*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.51

3470 ENCROACHMENT STATIONS= 9904.0 10060.0 TYPE= 1 TARGET= 156.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1365.30 ELREA= 1367.60

20.860	9.64	1365.94	.00	1365.98	1366.67	.72	.29	.29	1365.30
5700.0	26.8	5673.2	.0	22.9	828.9	.0	554.2	57.9	100000.00
.54	1.17	6.84	.00	.040	.035	.000	.000	1356.30	9904.00
.002004	90.	100.	110.	3	0	0	.00	156.00	10060.00

CCHV= .100 CEHV= .300
*SECNO 20.942

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .65

3470 ENCROACHMENT STATIONS= 9860.0 10110.0 TYPE= 1 TARGET= 250.000

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    SECNO       DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q           QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME        VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE       XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

    20.942       7.63    1367.23        .00    1367.29    1367.96        .74       1.29        .00  100000.00
    5700.0        .0     4745.2      954.8         .0      657.8      192.3      562.8       60.0    1366.50
       .56       .00       7.21       4.97       .000       .035       .035       .000    1359.60    9860.00
   .004787      530.       433.       490.          2          0          0        .00     250.00   10110.00

*SECNO 21.036

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=      9810.0    10060.0  TYPE=       1  TARGET=       250.000
    21.036       7.98    1371.48    1371.48    1371.95    1373.10       1.62       2.89        .26    1370.70
    5700.0      112.5     5545.8       41.7       52.9      536.0       19.5      571.1       62.9    1370.40
       .58       2.13      10.35       2.14       .040       .035       .040       .000    1363.50    9810.00
   .007272      490.       496.       490.          4          8          0        .00     250.00   10060.00

*SECNO 21.127

3470 ENCROACHMENT STATIONS=      9900.0    10060.0  TYPE=       1  TARGET=       160.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1374.00 ELREA=    100000.00

    21.127       7.93    1374.63    1374.23    1374.75    1376.44       1.81       3.28        .06    1374.20
    5700.0      130.2     5569.8        .0       53.9      510.7         .0      577.4       65.0  100000.00
       .59       2.42      10.91        .00       .040       .035       .000       .000    1366.70    9900.00
   .006491      400.       480.       500.          4          8          0        .00     160.00   10060.00

*SECNO 21.230

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=      9900.0    10125.0  TYPE=       1  TARGET=       225.000
    21.230       8.37    1380.37    1380.37    1380.36    1381.88       1.52       3.89        .03    1379.30
    5700.0      251.2     4277.1     1171.6       71.9      392.1      188.7      585.0       67.3    1380.60
       .60       3.49      10.91       6.21       .040       .035       .040       .000    1372.00    9900.00
   .008046      560.       544.       500.          2          8          0        .00     221.77   10125.00

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    SECNO       DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q           QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME        VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE       XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 21.363
3280 CROSS SECTION      21.36 EXTENDED        .59 FEET
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3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.26

3470 ENCROACHMENT STATIONS= 9930.0 10130.0 TYPE= 1 TARGET= 200.000

21.363	9.48	1383.58	.00	1383.37	1384.11	.53	2.12	.10	100000.00
5700.0	.0	5684.3	15.7	.0	973.2	13.0	598.2	70.5	1382.10
.64	.00	5.84	1.21	.000	.035	.040	.000	1374.10	9939.05
.001572	740.	702.	700.	3	0	0	.00	166.44	10105.49

*SECNO 21.484

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9852.0 10077.0 TYPE= 1 TARGET= 225.000

21.484	8.59	1387.09	1387.09	1386.53	1388.54	1.45	1.90	.28	1386.90
5700.0	967.4	4674.8	57.9	169.6	452.1	25.2	610.1	73.2	1386.50
.66	5.70	10.34	2.30	.040	.035	.040	.000	1378.50	9852.00
.007569	650.	639.	520.	20	10	0	.00	215.51	10077.00

*SECNO 21.576

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9940.0 10165.0 TYPE= 1 TARGET= 225.000

21.576	8.08	1390.18	.00	1389.24	1391.06	.88	2.46	.06	1390.00
5700.0	16.5	4724.2	959.3	13.1	587.5	214.0	617.9	75.4	1388.30
.67	1.25	8.04	4.48	.040	.035	.040	.000	1382.10	9940.00
.003827	320.	486.	480.	2	0	0	.00	225.00	10165.00

*SECNO 21.669
3280 CROSS SECTION 21.67 EXTENDED .59 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9890.0 10115.0 TYPE= 1 TARGET= 225.000

21.669	9.89	1393.89	1393.89	1393.38	1395.24	1.35	2.45	.14	1393.80
5500.0	629.5	3935.4	935.1	132.0	372.7	181.3	626.2	77.9	1392.00

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      .63      4.77     10.56      5.16      .040      .035      .040      000   1384.00   9890.00
   .007088     440.      491.      470.        20         9         0      .00    225.00  10115.00

*SECNO 21.742

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.58

3470 ENCROACHMENT STATIONS=     9940.0   10140.0  TYPE=      1  TARGET=      200.000
    21.742      9.76   1396.16       .00   1395.18   1396.95       .79      1.66       .06   1394.70
    5500.0      87.3    5127.9     284.8      40.6     697.0      94.6     633.0      79.8   1394.20
       .70      2.15      7.36      3.01      .040      .035      .040      .000   1386.40   9940.00
   .002841      430.      385.      390.         2         0         0       .00    200.00  10140.00

*SECNO 21.840

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .69

3470 ENCROACHMENT STATIONS=     9900.0   10100.0  TYPE=      1  TARGET=      200.000
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   17APR06      15:20:18                                                                                    PAGE  123

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

    21.840      6.82   1397.92       .00   1398.04   1399.09      1.17      2.02       .11   1396.20
    5500.0     625.7    4701.1     173.2     119.2     511.9      54.7     641.7      82.0   1397.00
       .72      5.25      9.18      3.17      .040      .035      .040      .000   1391.10   9900.00
   .005989      430.      517.      430.         2         0         0       .00    200.00  10100.00

*SECNO 21.895

3470 ENCROACHMENT STATIONS=     9830.0   10080.0  TYPE=      1  TARGET=      250.000
    21.895      7.82   1399.72       .00   1399.67   1401.04      1.32      1.90       .05   1398.00
    5500.0    1891.4    3424.0     184.5     333.8     314.5      54.1     646.5      83.5   1397.70
       .73      5.67     10.89      3.41      .040      .035      .040      .000   1391.90   9834.63
   .006875      330.      290.      220.         3         0         0       .00    245.37  10080.00

*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.29

3470 ENCROACHMENT STATIONS=     9650.0   10070.0  TYPE=      1  TARGET=      420.000
    21.933      4.68   1401.48       .00   1400.86   1401.69       .20       .53       .11   1398.00
    5500.0    2120.4    3379.6        .0     708.6     857.3        .0     651.9      85.1 100000.00
       .75      2.99      3.94       .00      .040      .035      .000      .000   1396.80   9650.00
   .001314      210.      210.      210.         2         0         0       .00    420.00  10070.00

*SECNO 21.953
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3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .40

3470 ENCROACHMENT STATIONS= 9630.0 10051.0 TYPE= 1 TARGET= 421.000

21.953	7.20	1401.20	.00	1401.06	1402.09	.89	.20	.21	1400.20
5500.0	2410.7	2933.1	156.2	454.9	321.8	35.3	654.0	85.7	1398.30
.75	5.30	9.11	4.43	.045	.045	.045	.000	1394.00	9630.00
.008342	75.	74.	75.	3	0	0	.00	310.27	10051.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 22.065

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3470 ENCROACHMENT STATIONS= 9620.0 10030.0 TYPE= 1 TARGET= 410.000

22.065	8.68	1404.48	.00	1404.08	1404.84	.36	2.69	.05	1404.10
5500.0	3697.1	1792.4	10.5	839.8	320.8	4.9	665.0	89.5	1402.00
.78	4.40	5.59	2.16	.045	.045	.045	.000	1395.80	9620.00
.003732	430.	591.	630.	3	0	0	.00	396.88	10030.00

*SECNO 22.165

3265 DIVIDED FLOW

3280 CROSS SECTION 22.17 EXTENDED .36 FEET

3470 ENCROACHMENT STATIONS= 9620.0 10020.0 TYPE= 1 TARGET= 400.000

22.165	11.06	1406.06	.00	1405.25	1406.42	.36	1.58	.00	1400.90
5500.0	3632.3	1859.8	8.0	953.4	294.5	4.6	679.7	94.2	1403.70
.81	3.81	6.31	1.73	.045	.045	.045	.000	1395.00	9620.00
.002451	530.	528.	530.	3	0	0	.00	381.09	10020.00

*SECNO 22.273

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

3470 ENCROACHMENT STATIONS= 9650.0 10027.0 TYPE= 1 TARGET= 377.000

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   22.27      8.21   1407.61       .00   1406.66   1408.32       .72       .80       .11   1404.10
   5500.0    1439.3    4060.7        .0     336.1     542.6        .0     692.2      98.0 100000.00
     .83      4.28      7.48       .00      .045      .045      .000      .000   1399.40   9650.00
 .005127      470.      570.      580.         2         0         0       .00    292.44  10027.00
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 22.410

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9787.0   10071.0  TYPE=      1  TARGET=    -9787.000
   22.410     10.22   1414.22   1414.22   1414.22   1415.98      1.75      4.78       .31   1410.70
   5500.0     768.8    4585.1     146.1     157.4     400.5      38.1     704.5     102.1   1411.30
     .85      4.88     11.45      3.83      .045      .045      .045      .000   1404.00   9854.45
 .008748      750.      723.      630.         5        11         0       .00    193.67  10066.91

*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  4.56

3470 ENCROACHMENT STATIONS=     9823.0   10208.0  TYPE=      1  TARGET=    -9823.000
   22.483     10.96   1416.46       .00   1416.46   1416.58       .12       .44       .16   1411.10
   5500.0     301.1    4551.9     647.0     194.8    1523.6     375.4     716.4     104.4   1411.20
     .89      1.55      2.99      1.72      .045      .045      .045      .000   1405.50   9874.91
 .000421      380.      385.      390.         3         0         0       .00    325.09  10199.99

*SECNO 22.578

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .31

3470 ENCROACHMENT STATIONS=     9579.0   10090.0  TYPE=      1  TARGET=    -9579.000
   22.578      9.65   1416.34       .00   1416.34   1417.33       .99       .50       .26   1416.60
   5500.0        .0    5500.0        .0        .0     688.9        .0     732.5     106.8   1421.20
     .91       .00      7.98       .00      .000      .045      .000      .000   1406.70   9968.38
 .004499      540.      502.      490.         3         0         0       .00     95.82  10064.20
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.82

3470 ENCROACHMENT STATIONS=     9830.0   10028.0  TYPE=      1  TARGET=      198.000
    22.675      8.60   1418.30       .00   1418.01   1418.56       .27      1.16       .07 100000.00
    5500.0       .0    5500.0        .0        .0    1322.5        .0     744.3     108.6 100000.00
       .94      .00      4.16       .00      .000      .045      .000      .000   1409.70   9830.00
   .001355     570.      512.      480.         2         0         0       .00    198.00  10028.00

*SECNO 22.794

3470 ENCROACHMENT STATIONS=     9977.0   10160.0  TYPE=      1  TARGET=      183.000
    22.794      8.54   1419.24       .00   1418.55   1419.61       .37      1.01       .03   1417.80
    5500.0       6.7    5493.3        .0       5.2    1122.1        .0     761.9     111.3 100000.00
       .98      1.28      4.90       .00      .045      .045      .000      .000   1410.70   9977.00
   .001955     460.      628.      500.         2         0         0       .00    183.00  10160.00

*SECNO 22.880

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .54

3470 ENCROACHMENT STATIONS=     9951.0   10120.0  TYPE=      1  TARGET=      169.000
    22.880      7.43   1420.43       .00   1420.05   1421.24       .82      1.50       .13 100000.00
    5500.0       .0    5500.0        .0        .0     758.2        .0     771.8     113.1 100000.00
       .99      .00      7.25       .00      .000      .045      .000      .000   1413.00   9951.00
   .006778     440.      454.      480.         2         0         0       .00    169.00  10120.00

*SECNO 22.990

3470 ENCROACHMENT STATIONS=     9890.0   10026.0  TYPE=      1  TARGET=      136.000
    22.990      6.79   1424.69       .00   1423.63   1425.80      1.12      4.47       .09 100000.00
    5500.0       .0    5500.0        .0        .0     649.0        .0     781.1     115.2 100000.00
      1.01      .00      8.47       .00      .000      .045      .000      .000   1417.90   9890.00
   .008795     480.      581.      530.         3         0         0       .00    136.00  10026.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 23.097

3470 ENCROACHMENT STATIONS=     9958.0   10090.0  TYPE=      1  TARGET=      132.000
    23.097      5.47   1430.57       .00   1429.89   1432.09      1.51      6.17       .12 100000.00
    5500.0       .0    5500.0        .0        .0     557.0        .0     789.0     116.9 100000.00
      1.03      .00      9.88       .00      .000      .045      .000      .000   1425.10   9958.00
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   .013912      640.      565.      490.        3        0        0      .00    132.00  10090.00

*SECNO 23.168

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.44

3470 ENCROACHMENT STATIONS=     9830.0   10140.0  TYPE=      1  TARGET=      310.000
    23.168      4.80   1433.70      .00   1433.05   1433.97      .27      1.75      .12 100000.00
    5500.0        .0    5266.1    233.9        .0    1249.3     74.3     797.0    118.8   1430.30
      1.05       .00      4.22     3.15      .000      .045     .045      .000   1428.90   9830.00
   .002333      330.      375.      300.        3        0        0       .00    310.00  10140.00

*SECNO 23.253

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9978.5   10023.2  TYPE=      1  TARGET=       44.700
    23.253      9.28   1434.48   1434.48   1434.53   1437.36     2.88      1.82      .78 100000.00
    3400.0        .0    3400.0       .0        .0     249.8       .0     805.3    120.7 100000.00
      1.06       .00     13.61       .00      .000      .040     .000      .000  1425.20   9978.53
   .015282      470.      459.      450.        20        17        0       .00     44.57  10023.10

*SECNO 23.334

3301 HV CHANGED MORE THAN HVINS
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.42

3470 ENCROACHMENT STATIONS=     9969.0   10036.0  TYPE=      1  TARGET=       67.000
    23.334      7.82   1440.42      .00   1440.39   1441.84     1.42      4.34      .15 100000.00
    3400.0        .0    3400.0       .0        .0     355.5       .0     808.2    121.2 100000.00
      1.08       .00      9.56       .00      .000      .040     .000      .000  1432.60   9969.01
   .007527      400.      417.      420.         2         0        0       .00     66.99  10036.00

*SECNO 23.416
    23.416      7.32   1443.82      .00   1443.82   1445.59     1.78      3.65      .11   1447.80
    3400.0        .0    3400.0       .0        .0     317.8       .0     811.5    121.8   1450.20
      1.09       .00     10.70       .00      .000      .040     .000      .000  1436.50   9980.95
   .009483      400.      433.      430.         3         0        0       .00     59.11  10040.06

*SECNO 23.514
    23.514      8.51   1448.11      .00   1448.11   1449.46     1.35      3.82      .04   1451.40
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3400.0	.0	3400.0	.0	.0	365.0	.0	815.6	122.5	1451.10
1.10	.00	9.32	.00	.000	.040	.000	.000	1439.60	9977.53
.005928	560.	517.	470.	2	0	0	.00	57.48	10035.02

*SECNO 23.544

3301 HV CHANGED MORE THAN HVINS

23.544	7.52	1448.92	.00	1448.91	1450.79	1.87	1.17	.16	1453.20
3400.0	.0	3400.0	.0	.0	309.5	.0	816.8	122.7	1452.90
1.11	.00	10.98	.00	.000	.040	.000	.000	1441.40	9978.90
.009540	190.	158.	150.	2	0	0	.00	54.80	10033.70

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	2.48	3.20	.00	5.70	1.00	14.10	.00	1442.00	1441.40

*SECNO 23.555

3301 HV CHANGED MORE THAN HVINS

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.95

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3688.08	1453.58	2.79	3249.	152.	14.	14.	1445.00	1449.00	140.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.555	10.64	1452.64	.00	1452.64	1453.37	.74	2.58	.00	1453.80
3400.0	.0	3400.0	.0	.0	493.8	.0	817.3	122.8	1453.50
1.11	.00	6.89	.00	.000	.040	.000	.000	1442.00	9974.59
.002505	60.	60.	60.	2	0	8	.00	63.27	10037.86

*SECNO 23.591
3280 CROSS SECTION 23.59 EXTENDED 1.15 FEET

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.591	8.95	1453.15	.00	1453.15	1453.93	.78	.54	.01	1452.90
3400.0	.0	3400.0	.0	.0	478.5	.0	819.5	123.1	1453.80
1.12	.00	7.11	.00	.000	.040	.000	.000	1444.20	9968.00
.003293	100.	190.	210.	3	0	0	.00	75.49	10043.49

*SECNO 23

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.691	8.75	1455.15	.00	1455.15	1456.48	1.33	2.39	.16	1457.60
3400.0	.0	3400.0	.0	.0	367.9	.0	824.6	124.0	1455.30
1.13	.00	9.24	.00	.000	.040	.000	.000	1446.40	9970.39
.006584	510.	528.	540.	2	0	0	.00	65.33	10035.72

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 23.815

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.815	9.31	1459.01	.00	1459.01	1460.09	1.08	3.59	.02	1458.90
4350.0	.0	4350.0	.0	.0	520.9	.0	831.3	125.1	1457.80
1.15	.00	8.35	.00	.000	.040	.000	.000	1449.70	9951.00
.004797	650.	655.	680.	3	0	0	.00	86.00	10037.00

*SECNO 23.912
3280 CROSS SECTION 23.91 EXTENDED .14 FEET

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1480.00 ELREA= 1480.00

23.912	13.14	1461.04	.00	1461.04	1462.18	1.14	2.07	.02	1461.30
5300.0	.0	5300.0	.0	.0	619.1	.0	838.0	126.0	1460.90
1.17	.00	8.56	.00	.000	.040	.000	.000	1447.90	9967.41
.003558	480.	512.	510.	3	0	0	.00	75.59	10043.00

*SECNO 23.989

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

23.989	12.91	1462.61	.00	1462.61	1463.23	.63	1.00	.05	1465.60
5300.0	.0	5300.0	.0	.0	835.0	.0	844.8	126.9	1465.80
1.19	.00	6.35	.00	.000	.040	.000	.000	1449.70	9944.77
.001801	400.	407.	410.	2	0	0	.00	98.91	10043.68

CCHV= .300 CEHV= .500

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 24.086

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1463.70 ELREA= 1463.70

24.086	9.84	1463.44	.00	1463.44	1464.31	.87	.95	.12	1453.60
5300.0	.0	5300.0	.0	.0	708.4	.0	853.8	127.9	1453.60
1.21	.00	7.48	.00	.000	.040	.000	.000	1453.60	9972.00
.001924	450.	512.	560.	4	0	0	.00	72.00	10044.00

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	100.00	71.60	3.00	590.00	.00	1453.60	1453.60

*SECNO 24.096
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1465.39	1464.37	.08	0.	5300.	590.	590.	1462.20	1466.70	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1466.00 ELREA= 1466.00

24.096	11.11	1464.71	.00	1464.71	1465.39	.68	1.09	.00	1453.60
5300.0	.0	5300.0	.0	.0	800.4	.0	854.8	128.0	1453.60
1.21	.00	6.62	.00	.000	.040	.000	.000	1453.60	9972.00
.001280	56.	56.	56.	2	0	0	.00	72.00	10044.00

*SECNO 24.106

3470 ENCROACHMENT STATIONS= 9955.0 10055.0 TYPE= 1 TARGET= 100.000

24.106	10.80	1465.00	.00	1465.21	1465.52	.51	.07	.05	1464.10
5300.0	.0	5300.0	.0	.0	922.0	.0	855.9	128.1	100000.00
1.21	.00	5.75	.00	.000	.040	.000	.000	1454.20	9955.00
.001433	80.	53.	20.	2	0	0	.00	100.00	10055.00

CCHV= .100 CEHV= .300

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 24.195

3470 ENCROACHMENT STATIONS= 9950.0 10050.0 TYPE= 1 TARGET= 100.000

24.195	12.08	1465.68	.00	1465.69	1466.01	.34	.48	.02	100000.00
5300.0	.0	5300.0	.0	.0	1134.9	.0	867.0	129.1	100000.00

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     1.2[illegible]      .00      4.67       .00      .000      .040      .000      [illegible]000   1453.60   9950.00
   .000766      470.      470.      460.         2         0         0       .00    100.00  10050.00

*SECNO 24.322

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.71

3470 ENCROACHMENT STATIONS=     9940.0   10080.0  TYPE=      1  TARGET=      140.000
    24.322     14.57   1466.17       .00   1465.91   1466.31       .15       .28       .02 100000.00
    5300.0        .0    5067.6     232.4        .0    1628.2     148.2     889.3     131.0   1456.80
      1.30       .00      3.11      1.57      .000      .040      .050      .000   1451.60   9940.00
   .000262      640.      671.      630.         2         0         0       .00    140.00  10080.00

*SECNO 24.444

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .43

3470 ENCROACHMENT STATIONS=     9927.0   10080.0  TYPE=      1  TARGET=      153.000
    24.444      9.07   1466.37       .00   1465.95   1466.70       .33       .33       .06   1465.00
    5300.0        .9    5299.1        .0       1.1    1142.9        .0     910.8     133.1 100000.00
      1.34       .84      4.64       .00      .045      .045      .000      .000   1457.30   9927.00
   .001443      640.      644.      600.         2         0         0       .00    153.00  10080.00

*SECNO 24.542

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .44
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

3470 ENCROACHMENT STATIONS=     9950.0   10160.0  TYPE=      1  TARGET=      210.000
    24.542      7.51   1467.31       .00   1466.33   1468.35      1.04      1.44       .21 100000.00
    5300.0        .0    5300.0        .0        .0     647.3        .0     921.5     134.8 100000.00
      1.36       .00      8.19       .00      .000      .045      .000      .000   1459.80   9950.00
   .007420      470.      517.      530.         3         0         0       .00    121.98  10160.00

*SECNO 24.635

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .66

3470 ENCROACHMENT STATIONS=     9940.0   10060.0  TYPE=      1  TARGET=      120.000
    24.635      5.26   1472.06   1471.86   1472.05   1473.84      1.79      5.27       .22 100000.00
    5300.0        .0    5300.0        .0        .0     494.0        .0     927.9     136.1 100000.00
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     1.37       .00      10.73       .00       .000       .045       .000       .000   1466.80   9940.00
  .016891      650.       491.      220.          6         14          0        .00    120.00  10060.00

*SECNO 24.738

3265 DIVIDED FLOW

3280 CROSS SECTION     24.74 EXTENDED       .20 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.96

3470 ENCROACHMENT STATIONS=     9936.0   10200.0  TYPE=      1  TARGET=      264.000
    24.738      5.80   1477.80       .00   1476.89   1478.28       .48      4.30       .13 100000.00
    5200.0        .0    2288.8    2911.2        .0     409.9     524.7     937.3     138.4   1480.90
      1.40       .00      5.58      5.55      .000      .045      .045      .000   1472.00   9936.00
  .004242      350.       544.      630.         3         0         0       .00    225.20  10200.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 24.838

3265 DIVIDED FLOW

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .55

3470 ENCROACHMENT STATIONS=     9968.0   10350.0  TYPE=      1  TARGET=      382.000
    24.838      6.28   1480.98       .00   1480.33   1481.73       .75      3.37       .08 100000.00
    5200.0        .0    1515.0    3685.0        .0     170.8     616.1     946.7     141.6   1483.50
      1.42       .00      8.87      5.98      .000      .045      .045      .000   1474.70   9968.00
  .013920      470.       528.      450.         3         0         0       .00    370.28  10350.00

*SECNO 24.943

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.35

3470 ENCROACHMENT STATIONS=     9860.0   10300.0  TYPE=      1  TARGET=      440.000
    24.943      6.66   1484.36       .00   1483.44   1484.58       .22      2.79       .05   1481.80
    5200.0    1224.1     735.7    3240.2     361.1     162.1     887.6     960.9     146.8   1484.80
      1.46      3.39      4.54      3.65      .045      .045      .045      .000   1477.70   9860.00
  .002529      530.       554.      570.         1         0         0       .00    433.65  10300.00
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*SECNO 25[illegible]

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9850.0 10250.0 TYPE= 1 TARGET= 400.000

25.048	3.93	1487.63	1487.63	1487.27	1488.57	.94	3.07	.22	1486.60
5200.0	1208.5	870.3	3121.2	181.3	98.5	396.4	973.8	151.8	1493.60
1.48	6.67	8.84	7.87	.045	.045	.045	.000	1483.70	9850.00
.022755	580.	554.	520.	20	14	0	.00	369.90	10250.00

*SECNO 25.163

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.23

3470 ENCROACHMENT STATIONS= 9940.0 10175.0 TYPE= 1 TARGET= 235.000

25.163	7.08	1493.08	.00	1492.19	1493.53	.45	4.91	.05	1491.60
4900.0	360.3	1584.9	2954.8	89.1	264.8	573.5	984.8	156.0	1493.10
1.51	4.04	5.98	5.15	.045	.045	.045	.000	1486.00	9940.00
.004072	640.	607.	580.	6	0	0	.00	234.87	10175.00

*SECNO 25.262
3280 CROSS SECTION 25.26 EXTENDED 1.05 FEET

3470 ENCROACHMENT STATIONS= 9750.0 10023.0 TYPE= 1 TARGET= 273.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1491.60 ELREA= 1510.00

25.262	11.04	1495.04	.00	1494.01	1495.36	.32	1.82	.01	1491.60
4900.0	3562.1	1337.9	.0	783.5	298.1	.0	996.6	158.9	100000.00
1.54	4.55	4.49	.00	.045	.045	.000	.000	1484.00	9750.00
.003091	470.	523.	570.	4	0	0	.00	273.00	10023.00

*SECNO 25.374

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY

1

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9925.0   10023.0  TYPE=      1  TARGET=       98.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1499.30 ELREA=    100000.00

    25.374      6.87   1500.17   1500.17   1499.37   1502.33      2.16      3.90       .55   1499.30
    4900.0    1342.9    3557.1        .0     145.4     281.4        .0    1007.8     161.7 100000.00
      1.56      9.23     12.64       .00      .045      .045      .000      .000   1493.30   9925.00
   .017615      680.      591.      300.        20        23         0       .00     98.00  10023.00

*SECNO 25.434

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     9970.0   10036.0  TYPE=      1  TARGET=       66.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1504.90 ELREA=    100000.00

    25.434      8.37   1504.17   1504.09   1503.97   1506.91      2.75      4.41       .17 100000.00
    4900.0        .0    4900.0        .0        .0     368.4        .0    1010.8     162.3 100000.00
      1.56       .00     13.30       .00      .000      .035      .000      .000   1495.80   9970.00
   .010572      400.      317.      190.         6        11         0       .00     66.00  10036.00

*SECNO 25.500

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.36

3470 ENCROACHMENT STATIONS=     9970.0   10050.0  TYPE=      1  TARGET=       80.000
    25.500      9.95   1507.65       .00   1507.74   1508.42       .77      1.31       .20 100000.00
    4900.0        .0    4900.0        .0        .0     698.0        .0    1015.1     162.9 100000.00
      1.58       .00      7.02       .00      .000      .035      .000      .000   1497.70   9970.00
   .001894      250.      349.      420.         3         0         0       .00     80.00  10050.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

CCHV=      .300 CEHV=      .500
*SECNO 25.523

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.79

3470 ENCROACHMENT STATIONS=     9960.0   10040.0  TYPE=      1  TARGET=       80.000
    25.523     12.20   1508.20       .00   1507.99   1508.63       .43       .12       .10   1498.00
    4900.0      38.7    4806.1      55.2      30.6     900.8      30.6    1017.4     163.2   1498.00
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     1.5[illegible]      1.26       5.34       1.80       .050       .035       .035       [illegible]000   1496.00   9960.00
   .000589       120.       121.       120.          2          0          0        .00      80.00  10040.00

*SECNO 25.534

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    25.534      5.22   1510.76   1510.76   1510.75   1513.36      2.60       .06      1.08   1515.00
    4900.0        .0    4900.0        .0        .0     378.4        .0    1018.3     163.3   1515.00
      1.58       .00     12.95       .00      .000      .015      .000      .000   1505.54   9963.45
   .002242       58.       58.       58.        20        14         0       .00     73.10  10036.55

*SECNO 25.551

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
    25.551      6.67   1512.21   1510.75   1512.21   1513.80      1.58       .13       .31   1515.00
    4900.0        .0    4900.0        .0        .0     485.0        .0    1019.2     163.4   1515.00
      1.59       .00     10.10       .00      .000      .015      .000      .000   1505.54   9963.29
   .001026       90.       90.       90.        25         5         0       .00     73.41  10036.71

*SECNO 25.557
    25.557      6.53   1512.07       .00   1512.08   1514.01      1.94       .04       .18   1515.00
    4900.0        .0    4900.0        .0        .0     438.7        .0    1019.5     163.5   1515.00
      1.59       .00     11.17       .00      .000      .015      .000      .000   1505.54   9959.87
   .001387       32.       32.       32.         2         0         0       .00     80.25  10040.13
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 25.561

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     9949.0   10050.0  TYPE=      1  TARGET=      101.000
    25.561      8.72   1514.32       .00   1514.36   1514.54       .23       .02       .51 100000.00
    2900.0        .0    2900.0        .0        .0     759.6        .0    1019.8     163.5 100000.00
      1.59       .00      3.82       .00      .000      .035      .000      .000   1505.60   9949.44
   .000612       20.       21.       20.         3         0         0       .00    100.55  10050.00

CCHV=     .100 CEHV=     .300
*SECNO 25.680

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .49

3470 ENCROACHMENT STATIONS=     9950.0   10050.0  TYPE=      1  TARGET=      100.000
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   25.680      8.30   1514.80       .00   1514.74   1515.26       .45       .64       .07 100000.00
   2700.0       .0    2700.0        .0        .0     499.5        .0    1028.9     165.0 100000.00
     1.62      .00      5.41       .00      .000      .035      .000      .000   1506.50   9950.00
  .002179     580.      628.      660.         2         0         0       .00    100.00  10050.00

*SECNO 25.786

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .44

3470 ENCROACHMENT STATIONS=     9982.0   10082.0  TYPE=      1  TARGET=      100.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1518.90 ELREA=      1515.80

   25.786      5.65   1516.35   1516.23   1516.32   1517.71      1.36      2.18       .27 100000.00
   2500.0       .0    2454.1      45.9        .0     260.1      15.6    1033.9     166.2   1515.80
     1.64      .00      9.43      2.93      .000      .035      .035      .000   1510.70   9982.00
  .009706     600.      560.      470.         6        14         0       .00    100.00  10082.00
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 25.947

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.57

3470 ENCROACHMENT STATIONS=     9959.0   10059.0  TYPE=      1  TARGET=      100.000
   25.947      7.46   1521.86       .00   1521.07   1522.40       .54      4.61       .08 100000.00
   2300.0       .0    2300.0        .0        .0     388.3        .0    1040.4     168.2 100000.00
     1.68      .00      5.92       .00      .000      .035      .000      .000   1514.40   9959.00
  .003343     870.      850.      830.         3         0         0       .00    100.00  10059.00

*SECNO 26.058

3470 ENCROACHMENT STATIONS=     9950.0   10023.0  TYPE=      1  TARGET=       73.000
   26.058      7.63   1523.83       .00   1523.49   1524.65       .82      2.16       .08   1522.00
   2200.0     173.5    2026.5        .0      37.7     271.4        .0    1045.0     169.3 100000.00
     1.70      4.60      7.47       .00      .035      .035      .000      .000   1516.20   9950.00
  .004141     540.      586.      570.         3         0         0       .00     73.00  10023.00

*SECNO 26.152

3470 ENCROACHMENT STATIONS=     9970.0   10040.0  TYPE=      1  TARGET=       70.000
   26.152      5.70   1525.70       .00   1524.99   1526.20       .50      1.52       .03 100000.00
   2000.0       .0    2000.0        .0        .0     351.9        .0    1048.7     170.1 100000.00
     1.72      .00      5.68       .00      .000      .035      .000      .000   1520.00   9970.00
  .002376     240.      496.      550.         2         0         0       .00     70.00  10040.00
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*SECNO 26[illegible]

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9973.0 10060.0 TYPE= 1 TARGET= 87.000

26.265	6.08	1528.08	1528.08	1528.15	1529.38	1.30	2.54	.24	100000.00
1900.0	.0	1760.7	139.3	.0	186.6	32.1	1052.6	171.2	1526.50
1.74	.00	9.44	4.34	.000	.035	.035	.000	1522.00	9973.34
.010164	580.	597.	610.	0	8	0	.00	86.66	10060.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 26.372

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.05

3470 ENCROACHMENT STATIONS= 9967.0 10064.0 TYPE= 1 TARGET= 97.000

26.372	7.57	1531.37	.00	1531.35	1531.69	.32	2.21	.10	100000.00
1700.0	.0	1700.0	.0	.0	374.4	.0	1056.4	172.3	100000.00
1.78	.00	4.54	.00	.000	.035	.000	.000	1523.80	9967.05
.001937	600.	565.	510.	3	0	0	.00	96.95	10064.00

*SECNO 26.492

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.69

3470 ENCROACHMENT STATIONS= 9955.0 10045.0 TYPE= 1 TARGET= 90.000

26.492	6.49	1532.19	.00	1532.15	1532.34	.15	.64	.02	100000.00
1600.0	.0	1600.0	.0	.0	511.4	.0	1062.9	173.7	100000.00
1.83	.00	3.13	.00	.000	.035	.000	.000	1525.70	9955.00
.000602	640.	634.	610.	3	0	0	.00	90.00	10045.00

*SECNO 26.582

3470 ENCROACHMENT STATIONS= 9945.0 10025.0 TYPE= 1 TARGET= 80.000

26.582	8.33	1532.43	.00	1532.24	1532.52	.09	.17	.01	100000.00
1300.0	.0	1300.0	.0	.0	544.1	.0	1068.6	174.6	100000.00
1.89	.00	2.39	.00	.000	.030	.000	.000	1524.10	9945.00
.000221	460.	475.	480.	2	0	0	.00	80.00	10025.00

*SECNO 26.673

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     9970.0   10030.0  TYPE=      1  TARGET=       60.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1535.00 ELREA=    100000.00

   26.673      3.14   1534.94   1534.94   1533.98   1536.17      1.23       .32       .34 100000.00
   1300.0       .0    1300.0       .0        .0     146.0        .0    1072.4     175.4 100000.00
     1.90      .00      8.91       .00      .000      .030      .000      .000   1531.80   9970.00
  .010965     510.      480.      460.        20        18         0       .00     60.00  10030.00


*SECNO 26.784
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9981.0   10031.0  TYPE=      1  TARGET=       50.000
   26.784      3.55   1546.25   1546.25   1546.18   1547.49      1.24      6.31       .00 100000.00
   1100.0       .0    1100.0       .0        .0     123.1        .0    1074.2     176.1 100000.00
     1.92      .00      8.94       .00      .000      .030      .000      .000   1542.70   9981.00
  .010542     590.      586.      530.        13         8         0       .00     50.00  10031.00


*SECNO 26.883

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  5.95


3470 ENCROACHMENT STATIONS=     9975.0   10025.0  TYPE=      1  TARGET=       50.000
   26.883      7.82   1547.92       .00   1547.31   1548.02       .10       .42       .11 100000.00
   1000.0       .0    1000.0       .0        .0     391.3        .0    1077.3     176.7 100000.00
     1.98      .00      2.56       .00      .000      .030      .000      .000   1540.10   9975.00
  .000246     530.      523.      500.         3         0         0       .00     50.00  10025.00


*SECNO 26.984

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .56


3470 ENCROACHMENT STATIONS=     9975.0   10025.0  TYPE=      1  TARGET=       50.000
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


   26.984      7.57   1548.07       .00   1547.31   1548.24       .17       .20       .02 100000.00
    900.0       .0     900.0       .0        .0     273.3        .0    1081.4     177.3 100000.00
     2.02      .00      3.29       .00      .000      .030      .000      .000   1540.50   9975.00
  .000645     480.      533.      460.         2         0         0       .00     50.00  10025.00
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*SECNO 27.060

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9883.7   10013.1  TYPE=      1  TARGET=      129.399

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1565.00 ELREA=    100000.00

    27.060      5.35   1559.45   1559.45   1559.46   1561.02      1.57       .66       .42   1560.80
     900.0        .0     900.0        .0        .0      89.6        .0    1083.1     177.7 100000.00
      2.03       .00     10.05       .00      .000      .030      .000      .000   1554.10   9983.69
   .010211      270.      401.      470.        20        19         0       .00     29.41  10013.10


*SECNO 27.166

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.66


3470 ENCROACHMENT STATIONS=     9881.1   10020.0  TYPE=      1  TARGET=      138.900

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1565.00 ELREA=      1565.00

    27.166      6.98   1562.18       .00   1562.18   1562.35       .17      1.19       .14   1564.20
     600.0        .0     600.0        .0        .0     181.6        .0    1084.8     178.1 100000.00
      2.08       .00      3.30       .00      .000      .030      .000      .000   1555.20   9981.03
   .000642      560.      560.      560.         3         0         0       .00     38.97  10020.00


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   17APR06      15:20:18                                                                          PAGE  143

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 27.294

3470 ENCROACHMENT STATIONS=     9972.0   10022.2  TYPE=      1  TARGET=       50.200
    27.294      6.54   1562.54       .00   1562.54   1562.59       .05       .23       .01 100000.00
     400.0        .0     400.0        .0        .0     232.9        .0    1088.0     178.8 100000.00
      2.19       .00      1.72       .00      .000      .030      .000      .000   1556.00   9972.01
   .000167      710.      676.      630.         3         0         0       .00     50.19  10022.20


CCHV=      .100 CEHV=      .300
*SECNO -19.560
START TRIB COMP
    -19.560     19.560  1328.212

3470 ENCROACHMENT STATIONS=     9921.4   10061.0  TYPE=      1  TARGET=      139.630
   -19.560     12.61   1328.21       .00   1328.21   1330.15      1.93       .00       .00   1329.70
   14600.0        .0   14600.0        .0        .0    1307.9        .0    1100.9     180.3 100000.00
      2.21       .00     11.16       .00      .000      .035      .000      .000   1315.60   9931.37
   .003382      730.      729.      720.         0         0         0       .00    129.62  10060.99
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*SECNO  .029

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9942.6   10073.1  TYPE=      1  TARGET=      130.540
      .029      9.83   1329.43   1329.43   1329.35   1332.59      3.16      1.09       .37 100000.00
    9500.0        .0    9473.7      26.3        .0     662.9      19.7    1110.7     181.6   1328.20
      2.22       .00     14.29      1.34      .000      .015      .035      .000   1319.60   9942.56
   .001749      380.      430.      450.        20        15         0       .00    130.54  10073.10


*SECNO  .112

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.44
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3470 ENCROACHMENT STATIONS=     9905.0   10092.0  TYPE=      1  TARGET=      187.000
      .112     11.38   1332.88       .00   1332.94   1333.42       .55       .57       .26 100000.00
    9500.0        .0    9500.0        .0        .0    1603.5        .0    1123.4     183.4 100000.00
      2.24       .00      5.92       .00      .000      .030      .000      .000   1321.50   9905.00
   .000847      430.      483.      450.         3         0         0       .00    187.00  10092.00


*SECNO  .198

3470 ENCROACHMENT STATIONS=     9910.0   10110.0  TYPE=      1  TARGET=      200.000
      .198      9.46   1333.26       .00   1333.31   1333.92       .66       .46       .03 100000.00
    9500.0        .0    9500.0        .0        .0    1458.9        .0    1139.4     185.4 100000.00
      2.26       .00      6.51       .00      .000      .030      .000      .000   1323.80   9910.00
   .001257      460.      454.      420.         2         0         0       .00    200.00  10110.00


*SECNO  .288

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9903.0   10054.0  TYPE=      1  TARGET=      151.000
      .288      7.60   1333.30   1333.30   1333.31   1335.83      2.53      1.22       .56 100000.00
    9500.0        .0    9500.0        .0        .0     744.7        .0    1151.4     187.3 100000.00
      2.27       .00     12.76       .00      .000      .030      .000      .000   1325.70   9903.24
   .007949      470.      475.      460.         4        15         0       .00    150.67  10053.90


*SECNO  .398
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3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.79

3470 ENCROACHMENT STATIONS= 9912.0 10094.0 TYPE= 1 TARGET= 182.000

.398	8.47	1337.27	.00	1337.27	1338.35	1.08	2.37	.14	100000.00
9500.0	.0	9500.0	.0	.0	1139.0	.0	1163.9	189.5	100000.00
2.29	.00	8.34	.00	.000	.030	.000	.000	1328.80	9912.47
.002478	600.	581.	540.	2	0	0	.00	181.53	10094.00

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .482

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9904.0 10175.0 TYPE= 1 TARGET= 271.000

.482	10.73	1341.93	1341.93	1342.35	1344.04	2.11	1.36	.31	1341.10
9500.0	46.3	8417.4	1036.3	22.4	685.2	239.4	1174.1	191.5	1338.00
2.30	2.07	12.28	4.33	.035	.030	.035	.000	1331.20	9904.00
.004085	440.	444.	270.	20	11	0	.00	271.00	10175.00

*SECNO .575

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9870.0 10080.0 TYPE= 1 TARGET= 210.000

.575	13.12	1344.62	.00	1343.82	1345.55	.94	1.40	.12	100000.00
9500.0	.0	9360.9	139.1	.0	1197.3	52.4	1186.5	194.2	1343.10
2.32	.00	7.82	2.66	.000	.030	.035	.000	1331.50	9870.00
.002104	460.	491.	500.	2	0	0	.00	210.00	10080.00

*SECNO .697

3470 ENCROACHMENT STATIONS= 9875.0 10035.0 TYPE= 1 TARGET= 160.000

.697	11.85	1345.85	.00	1345.06	1346.82	.97	1.26	.01	100000.00
9400.0	.0	9211.7	188.3	.0	1156.1	48.9	1204.6	197.0	1341.40
2.34	.00	7.97	3.85	.000	.030	.035	.000	1334.00	9875.00
.001815	640.	644.	640.	3	0	0	.00	160.00	10035.00

*SECNO .826

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


3470 ENCROACHMENT STATIONS=     9880.0   10040.0  TYPE=      1  TARGET=      160.000
      .826      9.39   1348.19   1348.19   1348.29   1350.60      2.41      2.30       .43   1345.50
    9400.0     632.7    8767.3        .0     100.6     685.8        .0    1220.2     199.5 100000.00
      2.36      6.29     12.78       .00      .035      .035      .000      .000   1338.80   9880.00
   .008343      680.      681.      660.        20        16         0       .00    160.00  10040.00

*SECNO  .945

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.85

3470 ENCROACHMENT STATIONS=     9870.0   10030.0  TYPE=      1  TARGET=      160.000
      .945     12.02   1352.42       .00   1352.12   1353.34       .92      2.60       .15 100000.00
    9400.0        .0    9400.0        .0        .0    1219.2        .0    1234.7     201.8 100000.00
      2.38       .00      7.71       .00      .000      .035      .000      .000   1340.40   9870.00
   .002450      680.      628.      600.         3         0         0       .00    160.00  10030.00

*SECNO 1.035
3280 CROSS SECTION      1.03 EXTENDED       .59 FEET

3470 ENCROACHMENT STATIONS=     9870.0   10030.0  TYPE=      1  TARGET=      160.000
     1.035     11.70   1353.60       .00   1352.93   1354.71      1.12      1.31       .06 100000.00
    9400.0        .0    9229.4     170.6        .0    1081.4      35.2    1247.4     203.6   1348.80
      2.39       .00      8.54      4.85      .000      .035      .035      .000   1341.90   9870.00
   .003128      440.      475.      460.         3         0         0       .00    160.00  10030.00

*SECNO 1.121
3280 CROSS SECTION      1.12 EXTENDED       .17 FEET

3470 ENCROACHMENT STATIONS=     9890.0   10050.0  TYPE=      1  TARGET=      160.000
     1.121     11.57   1355.17       .00   1354.16   1355.89       .71      1.14       .04 100000.00
    9400.0        .0    9400.0        .0        .0    1386.1        .0    1260.5     205.2 100000.00
      2.41       .00      6.78       .00      .000      .040      .000      .000   1343.60   9890.00
   .002046      480.      454.      440.         2         0         0       .00    160.00  10050.00
```

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 1.204

3301 HV CHANGED MORE THAN HVINS
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3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .53

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3470 ENCROACHMENT STATIONS=     9950.0   10110.0  TYPE=      1  TARGET=      160.000
     1.204     11.44   1355.74      .00   1355.42   1357.82      2.09      1.53       .41 100000.00
    9400.0        .0    8621.8    778.2        .0     718.6     147.9    1271.8     206.8   1352.50
      2.42       .00     12.00     5.26      .000      .040      .040      .000   1344.30   9950.00
   .007180      430.      438.     450.         3         0         0       .00    160.00  10110.00
```

*SECNO 1.315

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.83

```
3470 ENCROACHMENT STATIONS=     9905.0   10060.0  TYPE=      1  TARGET=      155.000
     1.315     10.99   1359.79      .00   1359.33   1360.51       .72      2.55       .14 100000.00
    9100.0        .0    9100.0       .0        .0    1340.6        .0    1290.4     209.5 100000.00
      2.45       .00      6.79      .00      .000      .040      .000      .000   1348.80   9905.00
   .002012      720.      734.     700.         2         0         0       .00    155.00  10060.00
```

*SECNO 1.420

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

```
3470 ENCROACHMENT STATIONS=     9895.0   10085.0  TYPE=      1  TARGET=      190.000
     1.420      5.29   1360.19      .00   1359.99   1362.08      1.89      1.22       .35   1360.00
    9100.0        .0    9100.0       .0        .0     825.1        .0    1300.5     211.1 100000.00
      2.46       .00     11.03      .00      .000      .025      .000      .000   1354.90   9895.00
   .004908      380.      407.     420.         3         0         0       .00    190.00  10085.00
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THIS RUN EXECUTED 17APR06 15:20:19

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************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAVE CREEK WASH

SUMMARY PRINTOUT

SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
17.588	1269.60	1283.69	9777.93	10229.71	451.78	14.09	15400.00	.33	.00	.00	.00	.00

	17.588	1269.60	1284.69	9855.24	10193.00	337.76	15.09	15400.00	.39	.00	.00	.00	.00
*	17.662	1271.60	1283.82	9829.44	10149.15	319.71	12.22	15400.00	.89	.13	.00	.00	.00
*	17.662	1271.60	1284.81	9900.00	10150.00	250.00	13.21	15400.00	.96	.12	.00	.00	.00
*	17.783	1275.40	1285.58	9900.35	10101.72	201.37	10.18	15400.00	2.28	1.76	.00	.00	.00
*	17.783	1275.40	1286.37	9921.00	10064.00	143.00	10.97	15400.00	2.28	1.56	.00	.00	.00
	17.932	1277.90	1290.98	9921.07	10085.31	164.24	13.08	15400.00	3.62	5.40	.00	.00	.00
	17.932	1277.90	1291.41	9956.00	10066.00	110.00	13.51	15400.00	3.36	5.03	.00	.00	.00
*	18.042	1282.30	1294.31	9951.61	10048.37	96.76	12.01	15400.00	3.83	3.33	.00	.00	.00
*	18.042	1282.30	1294.43	9951.60	10048.38	96.78	12.13	15400.00	3.74	3.03	.00	.00	.00
	18.061	1283.10	1296.44	9951.54	10048.43	96.89	13.34	15400.00	2.99	2.13	.00	1301.60	1293.20
	18.061	1283.10	1296.69	9951.53	10048.45	96.91	13.59	15400.00	2.86	2.26	.00	1301.60	1293.20
*	18.081	1281.10	1299.54	9876.94	10106.51	229.58	18.44	15400.00	.71	3.10	.00	.00	.00
*	18.081	1281.10	1299.61	9900.00	10085.00	185.00	18.51	15400.00	.71	2.92	.00	.00	.00
	18.174	1281.70	1300.22	9856.87	10454.71	597.84	18.52	15400.00	.30	.68	.00	.00	.00
	18.174	1281.70	1300.18	9857.02	10125.00	267.98	18.48	15400.00	.45	.57	.00	.00	.00
*	18.269	1283.80	1300.17	9881.86	10110.59	228.73	16.37	15400.00	.76	-.05	.00	.00	.00
	18.269	1283.80	1300.30	9882.20	10110.00	227.80	16.50	15400.00	.74	.12	.00	.00	.00
	18.362	1285.30	1300.54	9895.20	10108.18	212.97	15.24	15400.00	.97	.36	.00	.00	.00
	18.362	1285.30	1300.64	9895.60	10107.80	212.20	15.34	15400.00	.95	.35	.00	.00	.00
*	18.445	1287.30	1305.39	9885.22	10271.68	386.47	18.09	15400.00	2.09	4.85	.00	.00	.00
*	18.445	1287.30	1304.91	9888.33	10110.00	221.67	17.61	15400.00	2.86	4.27	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	18.456	1287.70	1307.31	9873.21	10316.94	443.73	19.61	15400.00	1.00	1.92	15108.43	1299.50	1294.20
*	18.456	1287.70	1308.52	9885.00	10110.00	225.00	20.82	15400.00	1.05	3.61	15030.78	1299.50	1294.20
*	18.545	1289.30	1308.28	9881.31	10169.98	288.68	18.98	15400.00	.47	.97	.00	.00	.00
*	18.545	1289.30	1309.56	9881.40	10169.80	288.40	20.26	15400.00	.37	1.04	.00	.00	.00
	18.575	1289.30	1308.43	9880.61	10170.93	290.32	19.13	15400.00	.41	.14	.00	.00	.00
	18.575	1289.30	1309.67	9880.70	10170.80	290.10	20.37	15400.00	.32	.10	.00	.00	.00
	18.583	1289.40	1309.50	9875.91	10177.35	301.44	20.10	15400.00	.34	1.07	14974.04	1299.00	1295.40
	18.583	1289.40	1310.09	9876.10	10177.20	301.10	20.69	15400.00	.31	.42	15165.87	1299.00	1295.40
	18.640	1290.20	1309.43	9879.37	10134.89	255.52	19.23	15400.00	.64	-.07	.00	.00	.00
	18.640	1290.20	1310.02	9879.60	10134.70	255.10	19.82	15400.00	.57	-.06	.00	.00	.00
	18.734	1292.40	1309.68	9883.01	10111.84	228.83	17.28	15400.00	.84	.26	.00	.00	.00
	18.734	1292.40	1310.24	9883.20	10111.70	228.50	17.84	15400.00	.75	.21	.00	.00	.00
	18.832	1293.20	1310.19	9891.67	10107.84	216.17	16.99	15400.00	.85	.51	.00	.00	.00
	18.832	1293.20	1310.66	9891.80	10107.00	215.20	17.46	15400.00	.78	.43	.00	.00	.00
	18.925	1294.60	1310.64	9887.57	10087.64	200.07	16.04	15400.00	.97	.45	.00	.00	.00
	18.925	1294.60	1311.05	9887.70	10087.50	199.80	16.45	15400.00	.89	.39	.00	.00	.00
*	19.018	1297.60	1310.89	9866.12	10038.56	172.44	13.29	15400.00	1.80	.26	.00	.00	.00
*	19.018	1297.60	1311.26	9866.30	10038.50	172.20	13.66	15400.00	1.66	.21	.00	.00	.00
*	19.117	1298.60	1312.49	9942.00	10062.09	120.09	13.89	15400.00	4.37	1.59	.00	.00	.00
*	19.117	1298.60	1312.68	9942.10	10061.90	119.80	14.08	15400.00	4.15	1.43	.00	.00	.00

*	19.210	1300.20	1317.19	9922.94	10081.20	158.26	16.99	15400.00	1.82	4.70	.00	.00	.00
*	19.210	1300.20	1317.10	9923.33	10080.82	157.49	16.90	15400.00	1.85	4.42	.00	.00	.00
*	19.283	1311.70	1319.92	9948.00	10057.00	109.00	8.22	14600.00	4.12	2.73	.00	.00	.00
*	19.283	1311.70	1319.92	9948.00	10057.00	109.00	8.22	14600.00	4.13	2.82	.00	.00	.00
*	19.299	1311.70	1322.06	9948.00	10057.00	109.00	10.36	14600.00	2.60	2.13	.00	1326.50	1324.20
*	19.299	1311.70	1322.06	9948.00	10057.00	109.00	10.36	14600.00	2.60	2.14	.00	1326.50	1324.20
	19.313	1311.70	1323.31	9944.34	10104.00	159.66	11.61	14600.00	1.87	1.25	.00	.00	.00
	19.313	1311.70	1323.30	9944.35	10103.99	159.64	11.60	14600.00	1.87	1.25	.00	.00	.00
	19.418	1313.00	1325.59	9955.11	10117.80	162.69	12.59	14600.00	1.83	2.29	.00	.00	.00
	19.418	1313.00	1325.59	9955.11	10117.80	162.69	12.59	14600.00	1.83	2.29	.00	.00	.00
	19.560	1315.60	1328.21	9931.38	10060.98	129.60	12.61	14600.00	1.94	2.62	.00	.00	.00
	19.560	1315.60	1328.21	9931.37	10060.99	129.63	12.61	14600.00	1.93	2.62	.00	.00	.00
*	19.625	1317.60	1329.89	9965.00	10025.00	60.00	12.29	5700.00	.93	1.68	.00	.00	.00
	19.625	1317.60	1329.95	9965.00	10025.00	60.00	12.35	5700.00	.92	1.74	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	19.691	1318.60	1331.53	9965.00	10025.00	60.00	12.93	5700.00	.84	1.64	.00	1334.80	1328.30
	19.691	1318.60	1331.60	9965.00	10025.00	60.00	13.00	5700.00	.83	1.65	.00	1334.80	1328.30
	19.742	1319.10	1331.99	9935.22	10043.57	108.35	12.89	5700.00	.52	.46	.00	.00	.00
	19.742	1319.10	1332.03	9953.00	10038.00	85.00	12.93	5700.00	.54	.43	.00	.00	.00
*	19.847	1318.80	1332.14	9940.63	10050.49	109.85	13.34	5700.00	.59	.15	.00	.00	.00
*	19.847	1318.80	1332.14	9957.00	10043.00	86.00	13.34	5700.00	.67	.11	.00	.00	.00
*	19.960	1324.60	1332.37	9950.40	10037.28	86.88	7.77	5700.00	2.55	.24	.00	.00	.00
*	19.960	1324.60	1332.43	9958.00	10031.00	73.00	7.83	5700.00	2.60	.29	.00	.00	.00
*	19.974	1323.80	1333.31	9969.00	10020.00	51.00	9.51	5700.00	2.14	.94	.00	.00	.00
*	19.974	1323.80	1333.67	9969.00	10020.00	51.00	9.87	5700.00	1.99	1.24	.00	.00	.00
	19.986	1323.80	1335.25	9969.00	10020.00	51.00	11.45	5700.00	1.48	1.94	.00	1337.90	1334.10
	19.986	1323.80	1335.72	9969.00	10020.00	51.00	11.92	5700.00	1.37	2.05	.00	1337.90	1334.10
*	20.049	1327.10	1338.35	9971.56	10025.19	53.63	11.25	5700.00	3.54	3.10	.00	.00	.00
*	20.049	1327.10	1338.20	9975.00	10024.93	49.93	11.10	5700.00	3.76	2.49	.00	.00	.00
*	20.144	1330.90	1343.48	9960.58	10044.51	83.94	12.58	5700.00	1.58	5.13	.00	.00	.00
*	20.144	1330.90	1343.38	9972.00	10029.00	57.00	12.48	5700.00	1.79	5.17	.00	.00	.00
	20.242	1333.30	1345.49	9961.30	10049.98	88.68	12.19	5700.00	1.57	2.00	.00	.00	.00
	20.242	1333.30	1345.51	9964.00	10035.00	71.00	12.21	5700.00	1.65	2.13	.00	.00	.00
	20.335	1337.30	1347.44	9950.57	10038.88	88.31	10.14	5700.00	1.17	1.95	.00	.00	.00
	20.335	1337.30	1347.54	9963.00	10036.00	73.00	10.24	5700.00	1.25	2.03	.00	.00	.00
	20.347	1337.20	1347.24	9970.00	10021.00	51.00	10.04	5700.00	1.92	-.20	.00	.00	.00
	20.347	1337.20	1347.42	9970.00	10021.00	51.00	10.22	5700.00	1.86	-.12	.00	.00	.00
	20.366	1337.20	1347.97	9970.00	10021.00	51.00	10.77	5700.00	1.67	.73	.00	1354.50	1349.70
	20.366	1337.20	1348.18	9970.00	10021.00	51.00	10.98	5700.00	1.61	.76	.00	1354.50	1349.70
	20.423	1338.00	1349.57	9958.69	10071.51	112.82	11.57	5700.00	.94	1.60	.00	.00	.00
	20.423	1338.00	1349.71	9958.20	10072.00	113.80	11.71	5700.00	.91	1.52	.00	.00	.00

20.430	1339.30	1349.13	9985.00	10036.00	51.00	9.83	5700.00	2.01	-.44	.00	.00	.00
20.430	1339.30	1349.27	9985.00	10036.00	51.00	9.97	5700.00	1.95	-.43	.00	.00	.00
20.444	1339.30	1349.92	9985.00	10036.00	51.00	10.62	5700.00	1.72	.80	.00	1355.50	1351.30
20.444	1339.30	1350.02	9985.00	10036.00	51.00	10.72	5700.00	1.69	.75	.00	1355.50	1351.30
20.529	1343.00	1352.25	9905.35	10095.18	189.83	9.25	5700.00	.70	2.33	.00	.00	.00
20.529	1343.00	1352.24	9930.00	10069.00	139.00	9.24	5700.00	.77	2.22	.00	.00	.00
20.628	1343.30	1353.31	9917.80	10068.41	150.61	10.01	5700.00	.43	1.06	.00	.00	.00
20.628	1343.30	1353.34	9935.00	10065.00	130.00	10.04	5700.00	.45	1.10	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	20.725	1347.20	1356.04	9959.29	10026.51	67.22	8.84	5700.00	3.06	2.72	.00	.00	.00
*	20.725	1347.20	1355.94	9962.00	10026.00	64.00	8.74	5700.00	3.18	2.60	.00	.00	.00
*	20.737	1350.90	1358.17	9968.00	10019.00	51.00	7.27	5700.00	3.67	2.13	.00	.00	.00
*	20.737	1350.90	1358.20	9968.00	10019.00	51.00	7.30	5700.00	3.64	2.25	.00	.00	.00
*	20.750	1351.00	1360.60	9968.00	10019.00	51.00	9.60	5700.00	2.11	2.43	.00	1366.00	1363.00
*	20.750	1351.00	1360.60	9968.00	10019.00	51.00	9.60	5700.00	2.11	2.40	.00	1366.00	1363.00
*	20.819	1356.50	1362.37	9965.00	10043.00	78.00	5.87	5700.00	2.41	1.77	.00	.00	.00
*	20.819	1356.50	1362.37	9965.00	10043.00	78.00	5.87	5700.00	2.41	1.77	.00	.00	.00
*	20.841	1357.40	1364.38	9965.00	10043.00	78.00	6.98	5700.00	1.70	2.01	.00	1369.90	1365.40
*	20.841	1357.40	1364.38	9965.00	10043.00	78.00	6.98	5700.00	1.70	2.01	.00	1369.90	1365.40
*	20.860	1356.30	1365.98	9800.89	10062.04	261.14	9.68	5700.00	.69	1.60	.00	.00	.00
*	20.860	1356.30	1365.94	9904.00	10060.00	156.00	9.64	5700.00	.72	1.56	.00	.00	.00
	20.942	1359.60	1367.29	9629.81	10168.29	313.22	7.69	5700.00	.43	1.31	.00	.00	.00
*	20.942	1359.60	1367.23	9860.00	10110.00	250.00	7.63	5700.00	.74	1.29	.00	.00	.00
*	21.036	1363.50	1371.95	9568.93	10089.02	520.10	8.45	5700.00	1.12	4.66	.00	.00	.00
*	21.036	1363.50	1371.48	9810.00	10060.00	250.00	7.98	5700.00	1.62	4.25	.00	.00	.00
*	21.127	1366.70	1374.75	9631.62	10066.01	434.39	8.05	5700.00	1.00	2.80	.00	.00	.00
	21.127	1366.70	1374.63	9900.00	10060.00	160.00	7.93	5700.00	1.81	3.15	.00	.00	.00
*	21.230	1372.00	1380.36	9818.28	10126.36	304.81	8.36	5700.00	1.30	5.62	.00	.00	.00
*	21.230	1372.00	1380.37	9900.00	10125.00	221.77	8.37	5700.00	1.52	5.74	.00	.00	.00
*	21.363	1374.10	1383.37	9556.04	10337.00	366.91	9.27	5700.00	.53	3.00	.00	.00	.00
*	21.363	1374.10	1383.58	9939.05	10105.49	166.44	9.48	5700.00	.53	3.21	.00	.00	.00
*	21.484	1378.50	1386.53	9497.84	10076.82	514.70	8.03	5700.00	.92	3.16	.00	.00	.00
*	21.484	1378.50	1387.09	9852.00	10077.00	215.51	8.59	5700.00	1.45	3.51	.00	.00	.00
*	21.576	1382.10	1389.24	9388.00	10340.54	868.38	7.14	5700.00	.78	2.71	.00	.00	.00
*	21.576	1382.10	1390.18	9940.00	10165.00	225.00	8.08	5700.00	.88	3.08	.00	.00	.00
*	21.669	1384.00	1393.38	9392.00	10414.00	977.37	9.38	5500.00	.60	4.13	.00	.00	.00
*	21.669	1384.00	1393.89	9890.00	10115.00	225.00	9.89	5500.00	1.35	3.72	.00	.00	.00
*	21.742	1386.40	1395.18	9744.71	10353.48	525.85	8.78	5500.00	1.19	1.80	.00	.00	.00
*	21.742	1386.40	1396.16	9940.00	10140.00	200.00	9.76	5500.00	.79	2.27	.00	.00	.00
	21.840	1391.10	1398.04	9857.22	10295.09	437.88	6.94	5500.00	.80	2.86	.00	.00	.00
*	21.840	1391.10	1397.92	9900.00	10100.00	200.00	6.82	5500.00	1.17	1.76	.00	.00	.00
*	21.895	1391.90	1399.67	9834.78	10431.00	596.22	7.77	5500.00	.80	1.63	.00	.00	.00

21.[illegible]	1391.90	1399.72	9834.63	10080.00	245.37	7.82	[illegible]0.00	1.32	1.80	.00	.00	.00

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	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	21.933	1396.80	1400.86	9314.75	10285.14	970.39	4.06	5500.00	.13	1.19	.00	.00	.00
*	21.933	1396.80	1401.48	9650.00	10070.00	420.00	4.68	5500.00	.20	1.77	.00	.00	.00
*	21.953	1394.00	1401.06	9424.44	10052.98	459.91	7.06	5500.00	.94	.20	.00	.00	.00
*	21.953	1394.00	1401.20	9630.00	10051.00	310.27	7.20	5500.00	.89	-.28	.00	.00	.00
*	22.065	1395.80	1404.08	9242.08	10049.66	777.84	8.28	5500.00	.17	3.02	.00	.00	.00
*	22.065	1395.80	1404.48	9620.00	10030.00	396.88	8.68	5500.00	.36	3.27	.00	.00	.00
	22.165	1395.00	1405.25	9137.48	10060.52	828.27	10.25	5500.00	.21	1.17	.00	.00	.00
	22.165	1395.00	1406.06	9620.00	10020.00	381.09	11.06	5500.00	.36	1.59	.00	.00	.00
*	22.273	1399.40	1406.66	9320.96	10027.44	419.21	7.26	5500.00	.71	1.42	.00	.00	.00
*	22.273	1399.40	1407.61	9650.00	10027.00	292.44	8.21	5500.00	.72	1.54	.00	.00	.00
*	22.410	1404.00	1414.22	9854.46	10066.88	193.61	10.22	5500.00	1.76	7.56	.00	.00	.00
*	22.410	1404.00	1414.22	9854.45	10066.91	193.67	10.22	5500.00	1.75	6.62	.00	.00	.00
*	22.483	1405.50	1416.46	9874.91	10199.99	325.09	10.96	5500.00	.12	2.23	.00	.00	.00
*	22.483	1405.50	1416.46	9874.91	10199.99	325.09	10.96	5500.00	.12	2.23	.00	.00	.00
*	22.578	1406.70	1416.34	9968.38	10064.20	95.82	9.65	5500.00	.99	-.11	.00	.00	.00
*	22.578	1406.70	1416.34	9968.38	10064.20	95.82	9.65	5500.00	.99	-.11	.00	.00	.00
*	22.675	1409.70	1418.01	9740.49	10028.39	287.90	8.31	5500.00	.14	1.66	.00	.00	.00
*	22.675	1409.70	1418.30	9830.00	10028.00	198.00	8.60	5500.00	.27	1.95	.00	.00	.00
*	22.794	1410.70	1418.55	9978.95	10194.69	215.74	7.85	5500.00	.42	.55	.00	.00	.00
	22.794	1410.70	1419.24	9977.00	10160.00	183.00	8.54	5500.00	.37	.94	.00	.00	.00
	22.880	1413.00	1420.05	9952.13	10163.91	211.78	7.05	5500.00	.58	1.49	.00	.00	.00
*	22.880	1413.00	1420.43	9951.00	10120.00	169.00	7.43	5500.00	.82	1.19	.00	.00	.00
	22.990	1417.90	1423.63	9754.06	10026.14	272.08	5.73	5500.00	.62	3.59	.00	.00	.00
	22.990	1417.90	1424.69	9890.00	10026.00	136.00	6.79	5500.00	1.12	4.26	.00	.00	.00
*	23.097	1425.10	1429.89	9899.14	10117.43	186.86	4.79	5500.00	1.57	6.25	.00	.00	.00
	23.097	1425.10	1430.57	9958.00	10090.00	132.00	5.47	5500.00	1.51	5.89	.00	.00	.00
*	23.168	1428.90	1433.05	9604.29	10213.52	609.23	4.15	5500.00	.17	3.16	.00	.00	.00
*	23.168	1428.90	1433.70	9830.00	10140.00	310.00	4.80	5500.00	.27	3.12	.00	.00	.00
*	23.253	1425.20	1434.53	9978.44	10023.18	44.74	9.33	3400.00	2.83	1.48	.00	.00	.00
*	23.253	1425.20	1434.48	9978.53	10023.10	44.57	9.28	3400.00	2.88	.79	.00	.00	.00
	23.334	1432.60	1440.39	9969.06	10035.98	66.92	7.79	3400.00	1.43	5.86	.00	.00	.00
*	23.334	1432.60	1440.42	9969.01	10036.00	66.99	7.82	3400.00	1.42	5.94	.00	.00	.00
	23.416	1436.50	1443.82	9980.93	10040.07	59.14	7.32	3400.00	1.77	3.43	.00	.00	.00
	23.416	1436.50	1443.82	9980.95	10040.06	59.11	7.32	3400.00	1.78	3.40	.00	.00	.00

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SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
23.514	1439.60	1448.11	9977.54	10035.01	57.47	8.51	3400.00	1.35	4.28	.00	.00	.00
23.514	1439.60	1448.11	9977.53	10035.02	57.48	8.51	3400.00	1.35	4.30	.00	.00	.00

	23.544	1441.40	1448.91	9978.90	10033.70	54.80	7.51	3400.00	1.88	.80	.00	.00	.00
	23.544	1441.40	1448.92	9978.90	10033.70	54.80	7.52	3400.00	1.87	.80	.00	.00	.00
*	23.555	1442.00	1452.64	9974.59	10037.86	63.27	10.64	3400.00	.74	3.72	3249.50	1449.00	1445.00
*	23.555	1442.00	1452.64	9974.59	10037.86	63.27	10.64	3400.00	.74	3.72	3249.50	1449.00	1445.00
	23.591	1444.20	1453.15	9968.00	10043.49	75.49	8.95	3400.00	.78	.51	.00	.00	.00
	23.591	1444.20	1453.15	9968.00	10043.49	75.49	8.95	3400.00	.78	.51	.00	.00	.00
	23.691	1446.40	1455.15	9970.39	10035.72	65.33	8.75	3400.00	1.33	2.01	.00	.00	.00
	23.691	1446.40	1455.15	9970.39	10035.72	65.33	8.75	3400.00	1.33	2.01	.00	.00	.00
*	23.815	1449.70	1459.01	9951.00	10037.00	86.00	9.31	4350.00	1.08	3.86	.00	.00	.00
*	23.815	1449.70	1459.01	9951.00	10037.00	86.00	9.31	4350.00	1.08	3.86	.00	.00	.00
*	23.912	1447.90	1461.04	9967.41	10043.00	75.59	13.14	5300.00	1.14	2.03	.00	.00	.00
*	23.912	1447.90	1461.04	9967.41	10043.00	75.59	13.14	5300.00	1.14	2.03	.00	.00	.00
*	23.989	1449.70	1462.61	9944.77	10043.68	98.91	12.91	5300.00	.63	1.56	.00	.00	.00
*	23.989	1449.70	1462.61	9944.77	10043.68	98.91	12.91	5300.00	.63	1.56	.00	.00	.00
	24.086	1453.60	1463.44	9972.00	10044.00	72.00	9.84	5300.00	.87	.83	.00	.00	.00
	24.086	1453.60	1463.44	9972.00	10044.00	72.00	9.84	5300.00	.87	.83	.00	.00	.00
	24.096	1453.60	1464.71	9972.00	10044.00	72.00	11.11	5300.00	.68	1.27	.00	1466.70	1462.20
	24.096	1453.60	1464.71	9972.00	10044.00	72.00	11.11	5300.00	.68	1.27	.00	1466.70	1462.20
	24.106	1454.20	1465.21	9952.58	10119.36	166.78	11.01	5300.00	.34	.50	.00	.00	.00
	24.106	1454.20	1465.00	9955.00	10055.00	100.00	10.80	5300.00	.51	.29	.00	.00	.00
*	24.195	1453.60	1465.69	9941.09	10137.67	196.58	12.09	5300.00	.15	.48	.00	.00	.00
	24.195	1453.60	1465.68	9950.00	10050.00	100.00	12.08	5300.00	.34	.67	.00	.00	.00
*	24.322	1451.60	1465.91	9858.94	10225.25	366.31	14.31	5300.00	.04	.22	.00	.00	.00
*	24.322	1451.60	1466.17	9940.00	10080.00	140.00	14.57	5300.00	.15	.49	.00	.00	.00
*	24.444	1457.30	1465.95	9926.47	10204.13	277.67	8.65	5300.00	.15	.04	.00	.00	.00
*	24.444	1457.30	1466.37	9927.00	10080.00	153.00	9.07	5300.00	.33	.20	.00	.00	.00
*	24.542	1459.80	1466.33	9907.26	10181.31	181.23	6.53	5300.00	.92	.37	.00	.00	.00
*	24.542	1459.80	1467.31	9950.00	10160.00	121.98	7.51	5300.00	1.04	.94	.00	.00	.00
	24.635	1466.80	1472.05	9911.01	10105.18	194.18	5.25	5300.00	1.28	5.72	.00	.00	.00
*	24.635	1466.80	1472.06	9940.00	10060.00	120.00	5.26	5300.00	1.79	4.75	.00	.00	.00
*	24.738	1472.00	1476.89	9936.06	10340.68	355.18	4.89	5200.00	.29	4.84	.00	.00	.00
*	24.738	1472.00	1477.80	9936.00	10200.00	225.20	5.80	5200.00	.48	5.74	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	24.838	1474.70	1480.33	9968.35	10633.62	650.49	5.63	5200.00	.60	3.44	.00	.00	.00
*	24.838	1474.70	1480.98	9968.00	10350.00	370.28	6.28	5200.00	.75	3.18	.00	.00	.00
*	24.943	1477.70	1483.44	9801.22	10618.77	799.36	5.74	5200.00	.12	3.12	.00	.00	.00
*	24.943	1477.70	1484.36	9860.00	10300.00	433.65	6.66	5200.00	.22	3.38	.00	.00	.00
*	25.048	1483.70	1487.27	9705.76	10481.24	557.24	3.57	5200.00	.71	3.83	.00	.00	.00
*	25.048	1483.70	1487.63	9850.00	10250.00	369.90	3.93	5200.00	.94	3.27	.00	.00	.00
*	25.163	1486.00	1492.19	9922.08	10297.84	369.01	6.19	4900.00	.31	4.92	.00	.00	.00
*	25.163	1486.00	1493.08	9940.00	10175.00	234.87	7.08	4900.00	.45	5.45	.00	.00	.00

	25.2[illegible]	1484.00	1494.01	9501.71	10023.49	521.78	10.01	[illegible]0.00	.19	1.82	.00	.00	.00
	25.262	1484.00	1495.04	9750.00	10023.00	273.00	11.04	4900.00	.32	1.96	.00	.00	.00
*	25.374	1493.30	1499.37	9655.94	10023.00	367.07	6.07	4900.00	.26	5.35	.00	.00	.00
*	25.374	1493.30	1500.17	9925.00	10023.00	98.00	6.87	4900.00	2.16	5.12	.00	.00	.00
*	25.434	1495.80	1503.97	9970.53	10035.93	65.40	8.17	4900.00	2.95	4.60	.00	.00	.00
	25.434	1495.80	1504.17	9970.00	10036.00	66.00	8.37	4900.00	2.75	4.00	.00	.00	.00
*	25.500	1497.70	1507.74	9923.52	10094.35	170.83	10.04	4900.00	.34	3.77	.00	.00	.00
*	25.500	1497.70	1507.65	9970.00	10050.00	80.00	9.95	4900.00	.77	3.49	.00	.00	.00
*	25.523	1496.00	1507.99	9930.02	10091.63	161.62	11.99	4900.00	.20	.25	.00	.00	.00
*	25.523	1496.00	1508.20	9960.00	10040.00	80.00	12.20	4900.00	.43	.55	.00	.00	.00
*	25.534	1505.54	1510.75	9963.45	10036.55	73.10	5.21	4900.00	2.61	2.76	.00	.00	.00
*	25.534	1505.54	1510.76	9963.45	10036.55	73.10	5.22	4900.00	2.60	2.56	.00	.00	.00
*	25.551	1505.54	1512.21	9963.29	10036.71	73.41	6.67	4900.00	1.58	1.46	.00	.00	.00
*	25.551	1505.54	1512.21	9963.29	10036.71	73.41	6.67	4900.00	1.58	1.46	.00	.00	.00
	25.557	1505.54	1512.08	9959.87	10040.13	80.27	6.54	4900.00	1.93	-.14	.00	.00	.00
	25.557	1505.54	1512.07	9959.87	10040.13	80.25	6.53	4900.00	1.94	-.14	.00	.00	.00
	25.561	1505.60	1514.36	9949.33	10067.02	117.68	8.76	2900.00	.19	2.29	.00	.00	.00
	25.561	1505.60	1514.32	9949.44	10050.00	100.55	8.72	2900.00	.23	2.24	.00	.00	.00
*	25.680	1506.50	1514.74	9471.45	10305.23	663.75	8.24	2700.00	.04	.38	.00	.00	.00
*	25.680	1506.50	1514.80	9950.00	10050.00	100.00	8.30	2700.00	.45	.48	.00	.00	.00
*	25.786	1510.70	1516.32	9982.01	10442.86	351.98	5.62	2500.00	.64	1.58	.00	.00	.00
*	25.786	1510.70	1516.35	9982.00	10082.00	100.00	5.65	2500.00	1.36	1.55	.00	.00	.00
	25.947	1514.40	1521.07	9958.72	10123.26	164.54	6.67	2300.00	.56	4.75	.00	.00	.00
*	25.947	1514.40	1521.86	9959.00	10059.00	100.00	7.46	2300.00	.54	5.51	.00	.00	.00
	26.058	1516.20	1523.49	9841.26	10023.28	182.03	7.29	2200.00	.49	2.42	.00	.00	.00
	26.058	1516.20	1523.83	9950.00	10023.00	73.00	7.63	2200.00	.82	1.97	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	26.152	1520.00	1524.99	9958.10	10063.97	105.87	4.99	2000.00	.46	1.50	.00	.00	.00
	26.152	1520.00	1525.70	9970.00	10040.00	70.00	5.70	2000.00	.50	1.87	.00	.00	.00
*	26.265	1522.00	1528.15	9972.98	10076.25	103.26	6.15	1900.00	1.24	3.15	.00	.00	.00
*	26.265	1522.00	1528.08	9973.34	10060.00	86.66	6.08	1900.00	1.30	2.38	.00	.00	.00
*	26.372	1523.80	1531.35	9967.15	10064.32	97.17	7.55	1700.00	.32	3.20	.00	.00	.00
*	26.372	1523.80	1531.37	9967.05	10064.00	96.95	7.57	1700.00	.32	3.29	.00	.00	.00
*	26.492	1525.70	1532.15	9885.25	10068.38	183.14	6.45	1600.00	.08	.80	.00	.00	.00
*	26.492	1525.70	1532.19	9955.00	10045.00	90.00	6.49	1600.00	.15	.83	.00	.00	.00
*	26.582	1524.10	1532.24	9470.61	10189.08	718.47	8.14	1300.00	.00	.09	.00	.00	.00
	26.582	1524.10	1532.43	9945.00	10025.00	80.00	8.33	1300.00	.09	.24	.00	.00	.00
*	26.673	1531.80	1533.98	9957.84	10280.56	239.18	2.18	1300.00	.53	1.74	.00	.00	.00
*	26.673	1531.80	1534.94	9970.00	10030.00	60.00	3.14	1300.00	1.23	2.51	.00	.00	.00
*	26.784	1542.70	1546.18	9980.90	10048.91	68.01	3.48	1100.00	1.02	12.20	.00	.00	.00
*	26.784	1542.70	1546.25	9981.00	10031.00	50.00	3.55	1100.00	1.24	11.32	.00	.00	.00
*	26.883	1540.10	1547.31	9765.39	10199.60	434.21	7.21	1000.00	.00	1.13	.00	.00	.00

*	26.883	1540.10	1547.92	9975.00	10025.00	50.00	7.82	1000.00	.10	1.67	.00	.00	.00
*	26.984	1540.50	1547.31	9932.30	10336.41	371.10	6.81	900.00	.00	.00	.00	.00	.00
*	26.984	1540.50	1548.07	9975.00	10025.00	50.00	7.57	900.00	.17	.15	.00	.00	.00
*	27.060	1554.10	1559.46	9983.67	10013.14	29.47	5.36	900.00	1.56	12.15	.00	.00	.00
*	27.060	1554.10	1559.45	9983.69	10013.10	29.41	5.35	900.00	1.57	11.38	.00	.00	.00
*	27.166	1555.20	1562.18	9981.04	10020.03	38.99	6.98	600.00	.17	2.72	.00	.00	.00
*	27.166	1555.20	1562.18	9981.03	10020.00	38.97	6.98	600.00	.17	2.72	.00	.00	.00
	27.294	1556.00	1562.54	9972.01	10022.21	50.20	6.54	400.00	.05	.36	.00	.00	.00
	27.294	1556.00	1562.54	9972.01	10022.20	50.19	6.54	400.00	.05	.36	.00	.00	.00
	-19.560	1315.60	1328.21	9931.37	10060.99	129.62	12.61	14600.00	1.93	-234.33	.00	.00	.00
	-19.560	1315.60	1328.21	9931.37	10060.99	129.62	12.61	14600.00	1.93	-234.33	.00	.00	.00
*	.029	1319.60	1329.35	9942.56	10073.06	130.50	9.75	9500.00	3.24	1.14	.00	.00	.00
*	.029	1319.60	1329.43	9942.56	10073.10	130.54	9.83	9500.00	3.16	1.22	.00	.00	.00
*	.112	1321.50	1332.94	9762.30	10092.55	330.25	11.44	9500.00	.50	3.59	.00	.00	.00
*	.112	1321.50	1332.88	9905.00	10092.00	187.00	11.38	9500.00	.55	3.45	.00	.00	.00
	.198	1323.80	1333.31	9860.87	10110.44	249.57	9.51	9500.00	.63	.37	.00	.00	.00
	.198	1323.80	1333.26	9910.00	10110.00	200.00	9.46	9500.00	.66	.38	.00	.00	.00
*	.288	1325.70	1333.31	9903.19	10053.94	150.75	7.61	9500.00	2.52	.00	.00	.00	.00
*	.288	1325.70	1333.30	9903.24	10053.90	150.67	7.60	9500.00	2.53	.04	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	.398	1328.80	1337.27	9912.48	10094.30	181.83	8.47	9500.00	1.08	3.96	.00	.00	.00
*	.398	1328.80	1337.27	9912.47	10094.00	181.53	8.47	9500.00	1.08	3.96	.00	.00	.00
*	.482	1331.20	1342.35	9903.83	10793.57	889.74	11.15	9500.00	1.05	5.09	.00	.00	.00
*	.482	1331.20	1341.93	9904.00	10175.00	271.00	10.73	9500.00	2.11	4.66	.00	.00	.00
	.575	1331.50	1343.82	9777.80	10508.02	730.21	12.32	9500.00	.71	1.47	.00	.00	.00
	.575	1331.50	1344.62	9870.00	10080.00	210.00	13.12	9500.00	.94	2.69	.00	.00	.00
	.697	1334.00	1345.06	9856.01	10093.21	237.20	11.06	9400.00	1.04	1.24	.00	.00	.00
	.697	1334.00	1345.85	9875.00	10035.00	160.00	11.85	9400.00	.97	1.23	.00	.00	.00
*	.826	1338.80	1348.29	9845.35	10045.20	199.85	9.49	9400.00	2.23	3.24	.00	.00	.00
*	.826	1338.80	1348.19	9880.00	10040.00	160.00	9.39	9400.00	2.41	2.34	.00	.00	.00
*	.945	1340.40	1352.12	9624.18	10185.88	561.70	11.72	9400.00	.52	3.82	.00	.00	.00
*	.945	1340.40	1352.42	9870.00	10030.00	160.00	12.02	9400.00	.92	4.23	.00	.00	.00
	1.035	1341.90	1352.93	9686.18	10146.95	460.77	11.03	9400.00	.72	.82	.00	.00	.00
	1.035	1341.90	1353.60	9870.00	10030.00	160.00	11.70	9400.00	1.12	1.17	.00	.00	.00
	1.121	1343.60	1354.16	9871.67	10106.95	235.28	10.56	9400.00	.80	1.23	.00	.00	.00
	1.121	1343.60	1355.17	9890.00	10050.00	160.00	11.57	9400.00	.71	1.58	.00	.00	.00
*	1.204	1344.30	1355.42	9930.00	10173.36	226.07	11.12	9400.00	2.09	1.26	.00	.00	.00
*	1.204	1344.30	1355.74	9950.00	10110.00	160.00	11.44	9400.00	2.09	.57	.00	.00	.00
*	1.315	1348.80	1359.33	9904.63	10236.67	332.04	10.53	9100.00	.39	3.91	.00	.00	.00
*	1.315	1348.80	1359.79	9905.00	10060.00	155.00	10.99	9100.00	.72	4.05	.00	.00	.00
*	1.420	1354.90	1359.99	9895.02	10084.98	189.95	5.09	9100.00	2.08	.66	.00	.00	.00
*	1.420	1354.90	1360.19	9895.00	10085.00	190.00	5.29	9100.00	1.89	.40	.00	.00	.00

CAVE CREEK WASH

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	17.588	1283.69	.00	1284.02	451.78	3410.65	11671.02	318.33	.00	.00	9982.00	10193.00	.00
	17.588	1284.69	1.00	1285.08	337.76	1964.85	13435.15	.00	.16	9855.24	9982.00	10193.00	10193.00
*	17.662	1283.82	.00	1284.71	319.71	3988.73	11364.70	46.58	.00	.00	9941.00	10130.00	.00
*	17.662	1284.81	.99	1285.77	250.00	2238.05	13039.23	122.73	250.00	9900.00	9941.00	10130.00	10150.00
*	17.783	1285.58	.00	1287.86	201.37	296.49	14381.19	722.32	.00	.00	9921.00	10064.00	.00
*	17.783	1286.37	.79	1288.65	143.00	.00	15400.00	.00	.09	9921.00	9921.00	10064.00	10064.00
	17.932	1290.98	.00	1294.60	164.24	59.98	15314.69	25.33	.00	.00	9956.00	10066.00	.00
	17.932	1291.41	.42	1294.76	110.00	.00	15400.00	.00	.02	9956.00	9956.00	10066.00	10066.00
*	18.042	1294.31	.00	1298.14	96.76	.00	15400.00	.00	.00	.00	9951.00	10049.00	.00
*	18.042	1294.43	.12	1298.17	96.78	.00	15400.00	.00	.00	9951.00	9951.00	10049.00	10049.00
	18.061	1296.44	.00	1299.43	96.89	.00	15400.00	.00	.00	.00	9951.00	10049.00	.00
	18.061	1296.69	.25	1299.55	96.91	.00	15400.00	.00	.00	9951.00	9951.00	10049.00	10049.00
*	18.081	1299.54	.00	1300.24	229.58	1235.51	12528.72	1635.78	.00	.00	9942.00	10045.00	.00
*	18.081	1299.61	.07	1300.32	185.00	1220.63	12608.39	1570.98	185.00	9900.00	9942.00	10045.00	10085.00
	18.174	1300.22	.00	1300.52	597.84	1569.89	11409.13	2420.99	.00	.00	9919.00	10073.00	.00
	18.174	1300.18	-.04	1300.63	267.98	1800.18	13116.05	483.77	268.00	9857.00	9919.00	10073.00	10125.00
*	18.269	1300.17	.00	1300.93	228.73	2261.70	12456.32	681.98	.00	.00	9942.00	10060.00	.00
	18.269	1300.30	.12	1301.04	227.80	2281.27	12415.20	703.53	227.80	9882.20	9942.00	10060.00	10110.00
	18.362	1300.54	.00	1301.51	212.97	1154.29	13225.19	1020.51	.00	.00	9942.00	10060.00	.00
	18.362	1300.64	.11	1301.60	212.20	1169.84	13188.25	1041.91	212.20	9895.60	9942.00	10060.00	10107.80
*	18.445	1305.39	.00	1307.48	386.47	5165.58	3758.29	6476.14	.00	.00	9992.00	10005.00	.00
*	18.445	1304.91	-.48	1307.77	221.67	5150.63	4076.29	6173.07	225.00	9885.00	9992.00	10005.00	10110.00
*	18.456	1307.31	.00	1308.31	443.73	5168.41	2970.57	7261.02	.00	.00	9992.00	10005.00	.00
*	18.456	1308.52	1.21	1309.57	225.00	5931.90	2952.32	6515.78	225.00	9885.00	9992.00	10005.00	10110.00
*	18.545	1308.28	.00	1308.76	288.68	1745.21	11300.05	2354.74	.00	.00	9951.00	10058.00	.00
*	18.545	1309.56	1.28	1309.93	288.40	1923.29	10840.09	2636.61	288.40	9881.40	9951.00	10058.00	10169.80
	18.575	1308.43	.00	1308.83	290.32	3584.18	3152.32	8663.50	.00	.00	9972.00	10000.00	.00
	18.575	1309.67	1.24	1309.99	290.10	3707.22	3015.70	8677.08	290.10	9880.70	9972.00	10000.00	10170.80
	18.583	1309.50	.00	1309.84	301.44	3685.39	3046.31	8668.30	.00	.00	9972.00	10000.00	.00
	18.583	1310.09	.59	1310.39	301.10	3739.77	2983.72	8676.51	301.10	9876.10	9972.00	10000.00	10177.20
	18.640	1309.43	.00	1310.07	255.52	2345.59	9850.54	3203.87	.00	.00	9955.00	10033.00	.00
	18.640	1310.02	.60	1310.59	255.10	2433.35	9638.38	3328.26	255.10	9879.60	9955.00	10033.00	10134.70

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
18.734	1309.68	.00	1310.53	228.83	1314.28	13486.67	599.05	.00	.00	9938.00	10062.00	.00

	18.734	1310.24	.55	1310.99	228.50	1412.75	13301.70	685.55	228.50	9883.20	9938.00	10062.00	10111.70
	18.832	1310.19	.00	1311.04	216.17	437.54	12951.81	2010.65	.00	.00	9929.00	10046.00	.00
	18.832	1310.66	.47	1311.44	215.20	497.22	12812.49	2090.29	215.20	9891.80	9929.00	10046.00	10107.00
	18.925	1310.64	.00	1311.60	200.07	1711.89	12782.42	905.69	.00	.00	9941.00	10048.00	.00
	18.925	1311.05	.41	1311.94	199.80	1782.17	12651.31	966.52	199.80	9887.70	9941.00	10048.00	10087.50
*	19.018	1310.89	.00	1312.69	172.44	489.51	14883.12	27.37	.00	.00	9903.00	10030.00	.00
*	19.018	1311.26	.36	1312.92	172.20	558.06	14803.54	38.40	172.20	9866.30	9903.00	10030.00	10038.50
*	19.117	1312.49	.00	1316.85	120.09	1414.18	11917.85	2067.97	.00	.00	9973.00	10026.00	.00
*	19.117	1312.68	.20	1316.84	119.80	1457.21	11826.79	2116.00	119.80	9942.10	9973.00	10026.00	10061.90
*	19.210	1317.19	.00	1319.01	158.26	227.00	14955.16	217.84	.00	.00	9945.00	10060.00	.00
*	19.210	1317.10	-.09	1318.95	157.49	219.47	14969.92	210.62	157.90	9923.10	9945.00	10060.00	10081.00
*	19.283	1319.92	.00	1324.04	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.283	1319.92	.00	1324.04	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.299	1322.06	.00	1324.65	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.299	1322.06	.00	1324.65	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
	19.313	1323.31	.00	1325.17	159.66	.00	14600.00	.00	.00	.00	9932.00	10112.00	.00
	19.313	1323.30	.00	1325.17	159.64	.00	14600.00	.00	.00	9932.00	9932.00	10112.00	10112.00
	19.418	1325.59	.00	1327.43	162.69	.00	14600.00	.00	.00	.00	9948.00	10120.00	.00
	19.418	1325.59	.00	1327.43	162.69	.00	14600.00	.00	.00	9948.00	9948.00	10120.00	10120.00
	19.560	1328.21	.00	1330.15	129.60	.00	14600.00	.00	.00	.00	9929.00	10065.00	.00
	19.560	1328.21	.00	1330.15	129.63	.00	14600.00	.00	.00	9929.00	9929.00	10065.00	10065.00
*	19.625	1329.89	.00	1330.82	60.00	.00	5700.00	.00	.00	.00	9965.00	10025.00	.00
	19.625	1329.95	.06	1330.87	60.00	.00	5700.00	.00	.00	9965.00	9965.00	10025.00	10025.00
	19.691	1331.53	.00	1332.37	60.00	.00	5700.00	.00	.00	.00	9965.00	10025.00	.00
	19.691	1331.60	.07	1332.43	60.00	.00	5700.00	.00	.00	9965.00	9965.00	10025.00	10025.00
	19.742	1331.99	.00	1332.51	108.35	.78	5698.99	.24	.00	.00	9948.00	10042.00	.00
	19.742	1332.03	.04	1332.57	85.00	.00	5700.00	.00	85.00	9953.00	9948.00	10042.00	10038.00
*	19.847	1332.14	.00	1332.73	109.85	.00	5700.00	.00	.00	.00	9929.00	10062.00	.00
*	19.847	1332.14	.00	1332.81	86.00	.00	5700.00	.00	86.00	9957.00	9929.00	10062.00	10043.00
*	19.960	1332.37	.00	1334.93	86.88	38.92	5629.33	31.75	.00	.00	9958.00	10031.00	.00
*	19.960	1332.43	.05	1335.03	73.00	.00	5700.00	.00	73.00	9958.00	9958.00	10031.00	10031.00
*	19.974	1333.31	.00	1335.46	51.00	.00	5700.00	.00	.00	.00	9969.00	10020.00	.00
*	19.974	1333.67	.35	1335.66	51.00	.00	5700.00	.00	51.00	9969.00	9969.00	10020.00	10020.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	19.986	1335.25	.00	1336.73	51.00	.00	5700.00	.00	.00	.00	9969.00	10020.00	.00
	19.986	1335.72	.47	1337.08	51.00	.00	5700.00	.00	51.00	9969.00	9969.00	10020.00	10020.00
*	20.049	1338.35	.00	1341.90	53.63	.00	5700.00	.00	.00	.00	9954.00	10027.00	.00
*	20.049	1338.20	-.15	1341.96	49.93	.00	5700.00	.00	50.00	9975.00	9954.00	10027.00	10025.00
*	20.144	1343.48	.00	1345.07	83.94	.00	5588.64	111.36	.00	.00	9955.00	10025.00	.00
*	20.144	1343.38	-.11	1345.17	57.00	.00	5671.10	28.89	57.00	9972.00	9955.00	10025.00	10029.00
	20.242	1345.49	.00	1347.06	88.68	.00	5546.27	153.73	.00	.00	9953.00	10029.00	.00
	20.242	1345.51	.02	1347.16	71.00	.00	5645.34	54.66	71.00	9964.00	9953.00	10029.00	10035.00

	20.335	1347.44	.00	1348.61	88.31	31.74	5639.18	29.07	.00	.00	9958.00	10032.00	.00
	20.335	1347.54	.10	1348.79	73.00	.00	5671.99	28.01	73.00	9963.00	9958.00	10032.00	10036.00
	20.347	1347.24	.00	1349.16	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.347	1347.42	.18	1349.28	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.366	1347.97	.00	1349.64	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.366	1348.18	.22	1349.79	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.423	1349.57	.00	1350.51	112.82	101.68	5266.19	332.13	.00	.00	9975.00	10045.00	.00
	20.423	1349.71	.14	1350.61	113.80	107.11	5250.90	341.99	114.00	9958.00	9975.00	10045.00	10072.00
	20.430	1349.13	.00	1351.13	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.430	1349.27	.14	1351.22	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.444	1349.92	.00	1351.64	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.444	1350.02	.10	1351.71	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.529	1352.25	.00	1352.95	189.83	165.51	5398.15	136.33	.00	.00	9947.00	10055.00	.00
	20.529	1352.24	-.01	1353.01	139.00	79.85	5563.98	56.17	139.00	9930.00	9947.00	10055.00	10069.00
	20.628	1353.31	.00	1353.74	150.61	.00	5700.00	.00	.00	.00	9909.00	10076.00	.00
	20.628	1353.34	.03	1353.79	130.00	.00	5700.00	.00	130.00	9935.00	9909.00	10076.00	10065.00
*	20.725	1356.04	.00	1359.09	67.22	.00	5700.00	.00	.00	.00	9951.00	10036.00	.00
*	20.725	1355.94	-.09	1359.12	64.00	.00	5700.00	.00	64.00	9962.00	9951.00	10036.00	10026.00
*	20.737	1358.17	.00	1361.84	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.737	1358.20	.03	1361.84	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.750	1360.60	.00	1362.70	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.750	1360.60	.00	1362.70	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.819	1362.37	.00	1364.78	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.819	1362.37	.00	1364.78	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.841	1364.38	.00	1366.08	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.841	1364.38	.00	1366.08	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	20.860	1365.98	.00	1366.67	261.14	86.17	5613.83	.00	.00	.00	9942.00	10066.00	.00
*	20.860	1365.94	-.04	1366.67	156.00	26.83	5673.17	.00	156.00	9904.00	9942.00	10066.00	10060.00
	20.942	1367.29	.00	1367.72	313.22	.00	3724.38	1975.62	.00	.00	9854.00	10024.00	.00
*	20.942	1367.23	-.06	1367.96	250.00	.00	4745.17	954.83	250.00	9860.00	9854.00	10024.00	10110.00
*	21.036	1371.95	.00	1373.07	520.10	367.07	5202.79	130.15	.00	.00	9912.00	10020.00	.00
*	21.036	1371.48	-.47	1373.10	250.00	112.48	5545.82	41.70	250.00	9810.00	9912.00	10020.00	10060.00
*	21.127	1374.75	.00	1375.74	434.39	1077.09	4622.90	.00	.00	.00	9974.00	10067.00	.00
	21.127	1374.63	-.12	1376.44	160.00	130.17	5569.82	.00	160.00	9900.00	9974.00	10067.00	10060.00
*	21.230	1380.36	.00	1381.67	304.81	508.80	4046.90	1144.30	.00	.00	9967.00	10048.00	.00
*	21.230	1380.37	.00	1381.88	221.77	251.25	4277.13	1171.62	225.00	9900.00	9967.00	10048.00	10125.00
*	21.363	1383.37	.00	1383.90	366.91	98.15	5566.19	35.65	.00	.00	9928.00	10088.00	.00
*	21.363	1383.58	.21	1384.11	166.44	.00	5684.33	15.67	200.00	9930.00	9928.00	10088.00	10130.00
*	21.484	1386.53	.00	1387.44	514.70	2045.40	3648.02	6.58	.00	.00	9932.00	10026.00	.00
*	21.484	1387.09	.57	1388.54	215.51	967.36	4674.76	57.88	225.00	9852.00	9932.00	10026.00	10077.00

*	21.576	1389.24	.00	1390.02	868.38	720.87	4008.42	970.70	.00	.00	9980.00	10087.00	.00
*	21.576	1390.18	.94	1391.06	225.00	16.47	4724.25	959.29	225.00	9940.00	9980.00	10087.00	10165.00
*	21.669	1393.38	.00	1393.98	977.37	905.25	2788.42	1806.33	.00	.00	9962.00	10031.00	.00
*	21.669	1393.89	.52	1395.24	225.00	629.54	3935.40	935.05	225.00	9890.00	9962.00	10031.00	10115.00
*	21.742	1395.18	.00	1396.38	525.85	29.14	5238.84	232.02	.00	.00	9975.00	10091.00	.00
*	21.742	1396.16	.98	1396.95	200.00	87.25	5127.94	284.80	200.00	9940.00	9975.00	10091.00	10140.00
	21.840	1398.04	.00	1398.83	437.88	945.78	4156.96	397.26	.00	.00	9946.00	10054.00	.00
*	21.840	1397.92	-.12	1399.09	200.00	625.73	4701.10	173.18	200.00	9900.00	9946.00	10054.00	10100.00
*	21.895	1399.67	.00	1400.47	596.22	1555.35	2864.44	1080.21	.00	.00	9975.00	10031.00	.00
	21.895	1399.72	.05	1401.04	245.37	1891.44	3424.05	184.51	250.00	9830.00	9975.00	10031.00	10080.00
*	21.933	1400.86	.00	1400.99	970.39	1740.18	3230.12	529.70	.00	.00	9865.00	10140.00	.00
*	21.933	1401.48	.62	1401.69	420.00	2120.38	3379.62	.00	420.00	9650.00	9865.00	10140.00	10070.00
*	21.953	1401.06	.00	1402.01	459.91	2374.60	2981.81	143.59	.00	.00	9969.00	10029.00	.00
*	21.953	1401.20	.14	1402.09	310.27	2410.71	2933.11	156.19	421.00	9630.00	9969.00	10029.00	10051.00
*	22.065	1404.08	.00	1404.25	777.84	4154.77	1273.89	71.34	.00	.00	9961.00	10028.00	.00
*	22.065	1404.48	.40	1404.84	396.88	3697.13	1792.35	10.51	410.00	9620.00	9961.00	10028.00	10030.00
	22.165	1405.25	.00	1405.46	828.27	4034.46	1433.28	32.26	.00	.00	9983.00	10018.00	.00
	22.165	1406.06	.82	1406.42	381.09	3632.26	1859.77	7.97	400.00	9620.00	9983.00	10018.00	10020.00
*	22.273	1406.66	.00	1407.38	419.21	1973.64	3526.36	.00	.00	.00	9933.00	10028.00	.00
*	22.273	1407.61	.94	1408.32	292.44	1439.28	4060.72	.00	377.00	9650.00	9933.00	10028.00	10027.00

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	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	22.410	1414.22	.00	1415.98	193.61	768.28	4585.83	145.88	-9787.00	9787.00	9973.00	10027.00	10071.00
*	22.410	1414.22	.00	1415.98	193.67	768.81	4585.13	146.06	-9787.00	9787.00	9973.00	10027.00	10071.00
*	22.483	1416.46	.00	1416.58	325.09	301.10	4551.84	647.06	-9823.00	9823.00	9941.00	10105.00	10208.00
*	22.483	1416.46	.00	1416.58	325.09	301.09	4551.86	647.04	-9823.00	9823.00	9941.00	10105.00	10208.00
*	22.578	1416.34	.00	1417.33	95.82	.00	5500.00	.00	-9579.00	9579.00	9968.00	10072.00	10090.00
*	22.578	1416.34	.00	1417.33	95.82	.00	5500.00	.00	-9579.00	9579.00	9968.00	10072.00	10090.00
*	22.675	1418.01	.00	1418.14	287.90	.00	5500.00	.00	.00	.00	9736.00	10032.00	.00
*	22.675	1418.30	.29	1418.56	198.00	.00	5500.00	.00	198.00	9830.00	9736.00	10032.00	10028.00
*	22.794	1418.55	.00	1418.97	215.74	1.34	5395.07	103.60	.00	.00	9983.00	10169.00	.00
	22.794	1419.24	.68	1419.61	183.00	6.70	5493.30	.00	183.00	9977.00	9983.00	10169.00	10160.00
	22.880	1420.05	.00	1420.62	211.78	.00	5500.00	.00	.00	.00	9927.00	10167.00	.00
*	22.880	1420.43	.38	1421.24	169.00	.00	5500.00	.00	169.00	9951.00	9927.00	10167.00	10120.00
	22.990	1423.63	.00	1424.26	272.08	.00	5500.00	.00	.00	.00	9739.00	10034.00	.00
	22.990	1424.69	1.05	1425.80	136.00	.00	5500.00	.00	136.00	9890.00	9739.00	10034.00	10026.00
*	23.097	1429.89	.00	1431.46	186.86	38.91	5461.09	.00	.00	.00	9951.00	10121.00	.00
	23.097	1430.57	.69	1432.09	132.00	.00	5500.00	.00	132.00	9958.00	9951.00	10121.00	10090.00
*	23.168	1433.05	.00	1433.22	609.23	763.81	4435.30	300.90	.00	.00	9777.00	10116.00	.00
*	23.168	1433.70	.65	1433.97	310.00	.00	5266.05	233.95	310.00	9830.00	9777.00	10116.00	10140.00
*	23.253	1434.53	.00	1437.36	44.74	.00	3400.00	.00	.00	.00	9973.00	10038.00	.00
*	23.253	1434.48	-.05	1437.36	44.57	.00	3400.00	.00	44.70	9978.50	9973.00	10038.00	10023.20
	23.334	1440.39	.00	1441.83	66.92	.00	3400.00	.00	.00	.00	9962.00	10055.00	.00

*	23	1440.42	.03	1441.84	66.99	.00	3400.00	.00	67.00	9969.00	9962.00	10055.00	10036.00
	23.416	1443.82	.00	1445.60	59.14	.00	3400.00	.00	.00	.00	9974.00	10053.00	.00
	23.416	1443.82	-.01	1445.59	59.11	.00	3400.00	.00	.00	.00	9974.00	10053.00	.00
	23.514	1448.11	.00	1449.46	57.47	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
	23.514	1448.11	.00	1449.46	57.48	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
	23.544	1448.91	.00	1450.79	54.80	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
	23.544	1448.92	.00	1450.79	54.80	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
*	23.555	1452.64	.00	1453.37	63.27	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
*	23.555	1452.64	.00	1453.37	63.27	.00	3400.00	.00	.00	.00	9973.00	10039.00	.00
	23.591	1453.15	.00	1453.93	75.49	.00	3400.00	.00	.00	.00	9968.00	10045.00	.00
	23.591	1453.15	.00	1453.93	75.49	.00	3400.00	.00	.00	.00	9968.00	10045.00	.00
	23.691	1455.15	.00	1456.48	65.33	.00	3400.00	.00	.00	.00	9965.00	10036.00	.00
	23.691	1455.15	.00	1456.48	65.33	.00	3400.00	.00	.00	.00	9965.00	10036.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	23.815	1459.01	.00	1460.09	86.00	.00	4350.00	.00	.00	.00	9951.00	10037.00	.00
*	23.815	1459.01	.00	1460.09	86.00	.00	4350.00	.00	.00	.00	9951.00	10037.00	.00
*	23.912	1461.04	.00	1462.18	75.59	.00	5300.00	.00	.00	.00	9967.00	10043.00	.00
*	23.912	1461.04	.00	1462.18	75.59	.00	5300.00	.00	.00	.00	9967.00	10043.00	.00
*	23.989	1462.61	.00	1463.23	98.91	.00	5300.00	.00	.00	.00	9937.00	10049.00	.00
*	23.989	1462.61	.00	1463.23	98.91	.00	5300.00	.00	.00	.00	9937.00	10049.00	.00
	24.086	1463.44	.00	1464.31	72.00	.00	5300.00	.00	.00	.00	9972.00	10044.00	.00
	24.086	1463.44	.00	1464.31	72.00	.00	5300.00	.00	.00	.00	9972.00	10044.00	.00
	24.096	1464.71	.00	1465.39	72.00	.00	5300.00	.00	.00	.00	9972.00	10044.00	.00
	24.096	1464.71	.00	1465.39	72.00	.00	5300.00	.00	.00	.00	9972.00	10044.00	.00
	24.106	1465.21	.00	1465.55	166.78	1.08	4877.63	421.28	.00	.00	9955.00	10064.00	.00
	24.106	1465.00	-.21	1465.52	100.00	.00	5300.00	.00	100.00	9955.00	9955.00	10064.00	10055.00
*	24.195	1465.69	.00	1465.84	196.58	.00	5300.00	.00	.00	.00	9933.00	10142.00	.00
	24.195	1465.68	-.01	1466.01	100.00	.00	5300.00	.00	100.00	9950.00	9933.00	10142.00	10050.00
*	24.322	1465.91	.00	1465.95	366.31	6.23	4200.34	1093.43	.00	.00	9871.00	10064.00	.00
*	24.322	1466.17	.26	1466.31	140.00	.00	5067.63	232.37	140.00	9940.00	9871.00	10064.00	10080.00
*	24.444	1465.95	.00	1466.10	277.67	.36	4211.19	1088.46	.00	.00	9928.00	10122.00	.00
*	24.444	1466.37	.41	1466.70	153.00	.89	5299.11	.00	153.00	9927.00	9928.00	10122.00	10080.00
*	24.542	1466.33	.00	1467.25	181.23	26.14	5273.86	.00	.00	.00	9914.00	10187.00	.00
*	24.542	1467.31	.98	1468.35	121.98	.00	5300.00	.00	210.00	9950.00	9914.00	10187.00	10160.00
	24.635	1472.05	.00	1473.32	194.18	.00	5300.00	.00	.00	.00	9876.00	10111.00	.00
*	24.635	1472.06	.01	1473.84	120.00	.00	5300.00	.00	120.00	9940.00	9876.00	10111.00	10060.00
*	24.738	1476.89	.00	1477.18	355.18	.00	1399.36	3800.64	.00	.00	9897.00	10038.00	.00
*	24.738	1477.80	.91	1478.28	225.20	.00	2288.79	2911.21	264.00	9936.00	9897.00	10038.00	10200.00
*	24.838	1480.33	.00	1480.92	650.49	.00	1244.32	3955.67	.00	.00	9945.00	10019.00	.00
*	24.838	1480.98	.66	1481.73	370.28	.00	1515.04	3684.96	382.00	9968.00	9945.00	10019.00	10350.00
*	24.943	1483.44	.00	1483.57	799.36	851.43	498.44	3850.13	.00	.00	9983.00	10017.00	.00
*	24.943	1484.36	.92	1484.58	433.65	1224.11	735.71	3240.17	440.00	9860.00	9983.00	10017.00	10300.00

*	25.048	1487.27	.00	1487.98	557.24	1444.52	645.12	3110.36	.00	.00	9966.00	10017.00	.00
*	25.048	1487.63	.36	1488.57	369.90	1208.50	870.32	3121.17	400.00	9850.00	9966.00	10017.00	10250.00
*	25.163	1492.19	.00	1492.51	369.01	205.28	1143.60	3551.12	.00	.00	9972.00	10025.00	.00
*	25.163	1493.08	.89	1493.53	234.87	360.32	1584.93	2954.76	235.00	9940.00	9972.00	10025.00	10175.00
	25.262	1494.01	.00	1494.20	521.78	4118.96	781.04	.00	.00	.00	9948.00	10030.00	.00
	25.262	1495.04	1.03	1495.36	273.00	3562.09	1337.91	.00	273.00	9750.00	9948.00	10030.00	10023.00

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	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	25.374	1499.37	.00	1499.62	367.07	3795.47	1104.53	.00	.00	.00	9969.00	10023.00	.00
*	25.374	1500.17	.80	1502.33	98.00	1342.90	3557.10	.00	98.00	9925.00	9969.00	10023.00	10023.00
*	25.434	1503.97	.00	1506.92	65.40	.00	4900.00	.00	.00	.00	9968.00	10036.00	.00
	25.434	1504.17	.20	1506.91	66.00	.00	4900.00	.00	66.00	9970.00	9968.00	10036.00	10036.00
*	25.500	1507.74	.00	1508.08	170.83	.00	4900.00	.00	.00	.00	9908.00	10105.00	.00
*	25.500	1507.65	-.09	1508.42	80.00	.00	4900.00	.00	80.00	9970.00	9908.00	10105.00	10050.00
*	25.523	1507.99	.00	1508.19	161.62	472.40	3501.05	926.55	.00	.00	9963.00	10037.00	.00
*	25.523	1508.20	.21	1508.63	80.00	38.66	4806.13	55.21	80.00	9960.00	9963.00	10037.00	10040.00
*	25.534	1510.75	.00	1513.36	73.10	.00	4900.00	.00	.00	.00	9963.00	10037.00	.00
*	25.534	1510.76	.00	1513.36	73.10	.00	4900.00	.00	.00	.00	9963.00	10037.00	.00
*	25.551	1512.21	.00	1513.80	73.41	.00	4900.00	.00	.00	.00	9963.00	10037.00	.00
*	25.551	1512.21	.00	1513.80	73.41	.00	4900.00	.00	.00	.00	9963.00	10037.00	.00
	25.557	1512.08	.00	1514.01	80.27	.00	4900.00	.00	.00	.00	9954.00	10046.00	.00
	25.557	1512.07	.00	1514.01	80.25	.00	4900.00	.00	.00	.00	9954.00	10046.00	.00
	25.561	1514.36	.00	1514.55	117.68	.00	2900.00	.00	.00	.00	9948.00	10069.00	.00
	25.561	1514.32	-.04	1514.54	100.55	.00	2900.00	.00	101.00	9949.00	9948.00	10069.00	10050.00
*	25.680	1514.74	.00	1514.78	663.75	297.03	1319.35	1083.62	.00	.00	9927.00	10093.00	.00
*	25.680	1514.80	.06	1515.26	100.00	.00	2700.00	.00	100.00	9950.00	9927.00	10093.00	10050.00
*	25.786	1516.32	.00	1516.97	351.98	.00	1867.53	632.47	.00	.00	9978.00	10056.00	.00
*	25.786	1516.35	.03	1517.71	100.00	.00	2454.12	45.88	100.00	9982.00	9978.00	10056.00	10082.00
	25.947	1521.07	.00	1521.63	164.54	.00	1967.12	332.87	.00	.00	9950.00	10066.00	.00
*	25.947	1521.86	.79	1522.40	100.00	.00	2300.00	.00	100.00	9959.00	9950.00	10066.00	10059.00
	26.058	1523.49	.00	1523.98	182.03	620.82	1579.18	.00	.00	.00	9966.00	10024.00	.00
	26.058	1523.83	.34	1524.65	73.00	173.53	2026.47	.00	73.00	9950.00	9966.00	10024.00	10023.00
	26.152	1524.99	.00	1525.46	105.87	.00	2000.00	.00	.00	.00	9956.00	10069.00	.00
	26.152	1525.70	.70	1526.20	70.00	.00	2000.00	.00	70.00	9970.00	9956.00	10069.00	10040.00
*	26.265	1528.15	.00	1529.39	103.26	.00	1758.20	141.80	.00	.00	9955.00	10029.00	.00
*	26.265	1528.08	-.07	1529.38	86.66	.00	1760.69	139.31	87.00	9973.00	9955.00	10029.00	10060.00
*	26.372	1531.35	.00	1531.67	97.17	.00	1700.00	.00	.00	.00	9966.00	10080.00	.00
*	26.372	1531.37	.02	1531.69	96.95	.00	1700.00	.00	97.00	9967.00	9966.00	10080.00	10064.00
*	26.492	1532.15	.00	1532.22	183.14	.00	1600.00	.00	.00	.00	9866.00	10084.00	.00
*	26.492	1532.19	.04	1532.34	90.00	.00	1600.00	.00	90.00	9955.00	9866.00	10084.00	10045.00
*	26.582	1532.24	.00	1532.24	718.47	594.58	479.07	226.35	.00	.00	9869.00	10028.00	.00
	26.582	1532.43	.19	1532.52	80.00	.00	1300.00	.00	80.00	9945.00	9869.00	10028.00	10025.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	26.673	1533.98	.00	1534.51	239.18	.00	1094.68	205.32	.00	.00	9955.00	10077.00	.00
*	26.673	1534.94	.96	1536.17	60.00	.00	1300.00	.00	60.00	9970.00	9955.00	10077.00	10030.00
*	26.784	1546.18	.00	1547.20	68.01	.00	1100.00	.00	.00	.00	9975.00	10080.00	.00
*	26.784	1546.25	.07	1547.49	50.00	.00	1100.00	.00	50.00	9981.00	9975.00	10080.00	10031.00
*	26.883	1547.31	.00	1547.31	434.21	.94	936.36	62.70	.00	.00	9773.00	10122.00	.00
*	26.883	1547.92	.61	1548.02	50.00	.00	1000.00	.00	50.00	9975.00	9773.00	10122.00	10025.00
*	26.984	1547.31	.00	1547.32	371.10	1.28	764.04	134.68	.00	.00	9943.00	10170.00	.00
*	26.984	1548.07	.76	1548.24	50.00	.00	900.00	.00	50.00	9975.00	9943.00	10170.00	10025.00
*	27.060	1559.46	.00	1561.02	29.47	.00	900.00	.00	.00	.00	9980.00	10019.00	.00
*	27.060	1559.45	-.01	1561.02	29.41	.00	900.00	.00	129.40	9883.70	9980.00	10019.00	10013.10
*	27.166	1562.18	.00	1562.35	38.99	.00	600.00	.00	.00	.00	9977.00	10023.00	.00
*	27.166	1562.18	.00	1562.35	38.97	.00	600.00	.00	138.90	9881.10	9977.00	10023.00	10020.00
	27.294	1562.54	.00	1562.59	50.20	.00	400.00	.00	.00	.00	9967.00	10027.00	.00
	27.294	1562.54	.00	1562.59	50.19	.00	400.00	.00	50.20	9972.00	9967.00	10027.00	10022.20
	-19.560	1328.21	.00	1330.15	129.62	.00	14600.00	.00	.00	.00	9929.00	10065.00	.00
	-19.560	1328.21	.00	1330.15	129.62	.00	14600.00	.00	139.63	9921.37	9929.00	10065.00	10061.00
*	.029	1329.35	.00	1332.60	130.50	.00	9478.32	21.68	.00	.00	9942.00	10043.00	.00
*	.029	1329.43	.08	1332.59	130.54	.00	9473.71	26.29	130.54	9942.56	9942.00	10043.00	10073.10
*	.112	1332.94	.00	1333.44	330.25	100.06	9399.94	.00	.00	.00	9887.00	10101.00	.00
*	.112	1332.88	-.07	1333.42	187.00	.00	9500.00	.00	187.00	9905.00	9887.00	10101.00	10092.00
	.198	1333.31	.00	1333.94	249.57	13.92	9486.08	.00	.00	.00	9897.00	10133.00	.00
	.198	1333.26	-.05	1333.92	200.00	.00	9500.00	.00	200.00	9910.00	9897.00	10133.00	10110.00
*	.288	1333.31	.00	1335.83	150.75	.00	9500.00	.00	.00	.00	9885.00	10069.00	.00
*	.288	1333.30	-.01	1335.83	150.67	.00	9500.00	.00	151.00	9903.00	9885.00	10069.00	10054.00
*	.398	1337.27	.00	1338.35	181.83	.00	9500.00	.00	.00	.00	9904.00	10119.00	.00
*	.398	1337.27	.00	1338.35	181.53	.00	9500.00	.00	182.00	9912.00	9904.00	10119.00	10094.00
*	.482	1342.35	.00	1343.41	889.74	79.05	6887.36	2533.59	.00	.00	9937.00	10024.00	.00
*	.482	1341.93	-.43	1344.04	271.00	46.29	8417.40	1036.31	271.00	9904.00	9937.00	10024.00	10175.00
	.575	1343.82	.00	1344.53	730.21	727.34	7778.19	994.47	.00	.00	9869.00	10049.00	.00
	.575	1344.62	.80	1345.55	210.00	.00	9360.91	139.09	210.00	9870.00	9869.00	10049.00	10080.00
	.697	1345.06	.00	1346.10	237.20	.00	9013.49	386.51	.00	.00	9847.00	10023.00	.00
	.697	1345.85	.79	1346.82	160.00	.00	9211.68	188.32	160.00	9875.00	9847.00	10023.00	10035.00
*	.826	1348.29	.00	1350.53	199.85	729.25	8670.75	.00	.00	.00	9929.00	10050.00	.00
*	.826	1348.19	-.10	1350.60	160.00	632.65	8767.35	.00	160.00	9880.00	9929.00	10050.00	10040.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	.945	1352.12	.00	1352.63	561.70	1059.47	7814.26	526.27	.00	.00	9856.00	10034.00	.00
*	.945	1352.42	.31	1353.34	160.00	.00	9400.00	.00	160.00	9870.00	9856.00	10034.00	10030.00
	1.035	1352.93	.00	1353.65	460.77	1059.57	7955.86	384.58	.00	.00	9841.00	10022.00	.00

	1.035	1353.60	.66	1354.71	160.00	.00	9229.39	170.61	160.00	9870.00	9841.00	10022.00	10030.00
	1.121	1354.16	.00	1354.96	235.28	.00	9395.98	4.02	.00	.00	9868.00	10069.00	.00
	1.121	1355.17	1.01	1355.89	160.00	.00	9400.00	.00	160.00	9890.00	9868.00	10069.00	10050.00
*	1.204	1355.42	.00	1357.51	226.07	.00	8391.40	1008.60	.00	.00	9949.00	10043.00	.00
*	1.204	1355.74	.32	1357.82	160.00	.00	8621.78	778.22	160.00	9950.00	9949.00	10043.00	10110.00
*	1.315	1359.33	.00	1359.72	332.04	.00	6944.01	2155.99	.00	.00	9904.00	10074.00	.00
*	1.315	1359.79	.46	1360.51	155.00	.00	9100.00	.00	155.00	9905.00	9904.00	10074.00	10060.00
*	1.420	1359.99	.00	1362.07	189.95	.00	9100.00	.00	.00	.00	9895.00	10085.00	.00
*	1.420	1360.19	.19	1362.08	190.00	.00	9100.00	.00	190.00	9895.00	9895.00	10085.00	10085.00

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SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=     17.662  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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WARNING SECNO=     18.081  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.269  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

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CAUTION SECNO=     18.445  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     18.445  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=     18.445  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=     19.117  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.117  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=     19.117  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=     19.283  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=      19.299  PROFILE=  1  HYDRAULIC JUMP D.S.
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WARNING SECNO=      19.299  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=      20.049  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=      20.841  PROFILE=  2  HYDRAULIC JUMP D.S.

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WARNING SECNO=      20.942  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=     25.048  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

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CAUTION SECNO=     25.534  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.534  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     25.534  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.534  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.534  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     25.551  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     25.551  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     25.551  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     25.551  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     25.680  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     25.680  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     25.786  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     25.786  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     25.786  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=     25.786  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     25.947  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     26.265  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.265  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     26.265  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     26.265  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     26.372  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.372  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     26.492  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     26.492  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     26.582  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=      26.673  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      26.673  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      26.673  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      26.673  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      26.673  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      26.673  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      26.784  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      26.784  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      26.784  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      26.784  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      26.784  PROFILE=  2  MINIMUM SPECIFIC ENERGY
1
   17APR06      15:20:18                                                                    PAGE  172


WARNING SECNO=      26.883  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      26.883  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      26.984  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      26.984  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      27.060  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      27.060  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      27.060  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      27.060  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      27.060  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      27.060  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=      27.166  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      27.166  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=        .029  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=        .029  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=        .029  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=        .029  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=        .029  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=        .029  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=        .112  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=        .112  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=        .288  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=        .288  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=        .288  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=        .288  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=        .398  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=        .398  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=        .482  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=        .482  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=        .482  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=        .482  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=        .482  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=        .482  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=        .826  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=        .826  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=        .826  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=        .826  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=        .826  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=        .826  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=        .945  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=        .945  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=      1.204  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.204  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=      1.204  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      1.315  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      1.315  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      1.420  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      1.420  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      1.420  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=      1.420  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
17.588	338.	3195.	4.8	1284.7	1283.7	1.0
17.662	250.	1988.	7.7	1284.8	1283.8	1.0
17.783	143.	1271.	12.1	1286.4	1285.6	.8
17.932	110.	1047.	14.7	1291.4	1291.0	.4
18.042	97.	992.	15.5	1294.4	1294.3	.1
18.061	97.	1134.	13.6	1296.6	1296.4	.2
18.081	185.	2411.	6.4	1299.6	1299.5	.1
18.174	268.	3010.	5.1	1300.2	1300.2	.0
18.269	228.	2349.	6.6	1300.3	1300.2	.1
18.362	212.	2086.	7.4	1300.6	1300.5	.1
18.445	222.	1268.	12.1	1304.9	1305.4	-.5
18.456	225.	1990.	7.7	1308.5	1307.3	1.2
18.545	288.	3404.	4.5	1309.6	1308.3	1.3
18.575	290.	3436.	4.5	1309.6	1308.4	1.2
18.583	301.	3540.	4.3	1310.1	1309.5	.6
18.640	255.	2726.	5.6	1310.0	1309.4	.6
18.734	228.	2354.	6.5	1310.3	1309.7	.6
18.832	215.	2295.	6.7	1310.7	1310.2	.5
18.925	200.	2164.	7.1	1311.0	1310.6	.4
19.018	172.	1543.	10.0	1311.3	1310.9	.4
19.117	120.	1023.	15.1	1312.7	1312.5	.2
19.210	157.	1462.	10.5	1317.1	1317.2	-.1
19.283	109.	896.	16.3	1319.9	1319.9	.0
19.299	109.	1129.	12.9	1322.1	1322.1	.0
19.313	160.	1330.	11.0	1323.3	1323.3	.0
19.418	163.	1343.	10.9	1325.6	1325.6	.0
19.560	130.	1308.	11.2	1328.2	1328.2	.0
19.625	60.	741.	7.7	1330.0	1329.9	.1
19.691	60.	780.	7.3	1331.6	1331.5	.1
19.742	85.	969.	5.9	1332.0	1332.0	.0
19.847	86.	868.	6.6	1332.1	1332.1	.0
19.960	73.	441.	12.9	1332.5	1332.4	.1
19.974	51.	503.	11.3	1333.7	1333.3	.4
19.986	51.	608.	9.4	1335.8	1335.3	.5
20.049	50.	366.	15.6	1338.2	1338.4	-.2
20.144	57.	536.	10.6	1343.4	1343.5	-.1

20.2[illegible]	71.	561.	10.2	1345.5	1345.5	.0
20.335	73.	640.	8.9	1347.5	1347.4	.1
20.347	51.	521.	10.9	1347.4	1347.2	.2
20.366	51.	560.	10.2	1348.2	1348.0	.2
20.423	114.	796.	7.2	1349.7	1349.6	.1
20.430	51.	509.	11.2	1349.2	1349.1	.1

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FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
20.444	51.	547.	10.4	1350.0	1349.9	.1
20.529	139.	841.	6.8	1352.3	1352.3	.0
20.628	130.	1059.	5.4	1353.3	1353.3	.0
20.725	64.	398.	14.3	1355.9	1356.0	-.1
20.737	51.	372.	15.3	1358.2	1358.2	.0
20.750	51.	490.	11.6	1360.6	1360.6	.0
20.819	78.	458.	12.5	1362.4	1362.4	.0
20.841	78.	545.	10.5	1364.4	1364.4	.0
20.860	156.	852.	6.7	1366.0	1366.0	.0
20.942	250.	850.	6.7	1367.2	1367.3	-.1
21.036	250.	608.	9.4	1371.4	1371.9	-.5
21.127	160.	565.	10.1	1374.6	1374.7	-.1
21.230	225.	653.	8.7	1380.4	1380.4	.0
21.363	166.	986.	5.8	1383.6	1383.4	.2
21.484	225.	647.	8.8	1387.1	1386.5	.6
21.576	225.	815.	7.0	1390.1	1389.2	.9
21.669	225.	686.	8.0	1393.9	1393.4	.5
21.742	200.	832.	6.6	1396.2	1395.2	1.0
21.840	200.	686.	8.0	1397.9	1398.0	-.1
21.895	245.	702.	7.8	1399.7	1399.7	.0
21.933	420.	1566.	3.5	1401.5	1400.9	.6
21.953	421.	812.	6.8	1401.2	1401.1	.1
22.065	410.	1165.	4.7	1404.5	1404.1	.4
22.165	400.	1253.	4.4	1406.0	1405.2	.8
22.273	377.	879.	6.3	1407.6	1406.7	.9
22.410	212.	596.	9.2	1414.2	1414.2	.0
22.483	325.	2094.	2.6	1416.5	1416.5	.0
22.578	96.	689.	8.0	1416.3	1416.3	.0
22.675	198.	1322.	4.2	1418.3	1418.0	.3
22.794	183.	1127.	4.9	1419.3	1418.6	.7
22.880	169.	758.	7.3	1420.4	1420.0	.4
22.990	136.	649.	8.5	1424.7	1423.6	1.1
23.097	132.	557.	9.9	1430.6	1429.9	.7
23.168	310.	1324.	4.2	1433.7	1433.1	.6
23.253	45.	250.	13.6	1434.5	1434.5	.0
23.334	67.	355.	9.6	1440.4	1440.4	.0
23.416	59.	318.	10.7	1443.8	1443.8	.0
23.514	57.	365.	9.3	1448.1	1448.1	.0
23.544	55.	310.	11.0	1448.9	1448.9	.0
23.555	63.	494.	6.9	1452.6	1452.6	.0
23.591	75.	478.	7.1	1453.1	1453.1	.0
23.691	65.	368.	9.2	1455.2	1455.2	.0

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FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
23.815	86.	521.	8.4	1459.0	1459.0	.0
23.912	76.	619.	8.6	1461.0	1461.0	.0
23.989	99.	835.	6.3	1462.6	1462.6	.0
24.086	72.	708.	7.5	1463.4	1463.4	.0
24.096	72.	800.	6.6	1464.7	1464.7	.0
24.106	100.	922.	5.7	1465.0	1465.2	-.2
24.195	100.	1135.	4.7	1465.7	1465.7	.0
24.322	140.	1776.	3.0	1466.2	1465.9	.3
24.444	153.	1144.	4.6	1466.4	1466.0	.4
24.542	210.	647.	8.2	1467.3	1466.3	1.0
24.635	120.	494.	10.7	1472.0	1472.0	.0
24.738	264.	935.	5.6	1477.8	1476.9	.9
24.838	382.	787.	6.6	1481.0	1480.3	.7
24.943	440.	1411.	3.7	1484.3	1483.4	.9
25.048	400.	676.	7.7	1487.7	1487.3	.4
25.163	235.	927.	5.3	1493.1	1492.2	.9
25.262	273.	1082.	4.5	1495.0	1494.0	1.0
25.374	98.	427.	11.5	1500.2	1499.4	.8
25.434	66.	368.	13.3	1504.2	1504.0	.2
25.500	80.	698.	7.0	1507.6	1507.7	-.1
25.523	80.	962.	5.1	1508.2	1508.0	.2
25.534	73.	378.	12.9	1510.8	1510.8	.0
25.551	73.	485.	10.1	1512.2	1512.2	.0
25.557	80.	439.	11.2	1512.1	1512.1	.0
25.561	101.	760.	3.8	1514.4	1514.4	.0
25.680	100.	500.	5.4	1514.8	1514.7	.1
25.786	100.	276.	9.1	1516.3	1516.3	.0
25.947	100.	388.	5.9	1521.9	1521.1	.8
26.058	73.	309.	7.1	1523.8	1523.5	.3
26.152	70.	352.	5.7	1525.7	1525.0	.7
26.265	87.	219.	8.7	1528.0	1528.1	-.1
26.372	97.	374.	4.5	1531.3	1531.3	.0
26.492	90.	511.	3.1	1532.1	1532.1	.0
26.582	80.	544.	2.4	1532.4	1532.2	.2
26.673	60.	146.	8.9	1535.0	1534.0	1.0
26.784	50.	123.	8.9	1546.3	1546.2	.1
26.883	50.	391.	2.6	1547.9	1547.3	.6
26.984	50.	273.	3.3	1548.1	1547.3	.8
27.060	29.	90.	10.0	1559.5	1559.5	.0
27.166	39.	182.	3.3	1562.2	1562.2	.0
27.294	50.	233.	1.7	1562.5	1562.5	.0
-19.560	130.	1308.	11.2	1328.2	1328.2	.0

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FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
.029	131.	683.	13.9	1329.5	1329.4	.1
.112	187.	1603.	5.9	1332.8	1332.9	-.1

.1[illegible]	200.	1459.	6.5	1333.3	1333.3	.0
.288	151.	745.	12.8	1333.3	1333.3	.0
.398	182.	1139.	8.3	1337.3	1337.3	.0
.482	271.	947.	10.0	1342.0	1342.4	-.4
.575	210.	1250.	7.6	1344.6	1343.8	.8
.697	160.	1205.	7.8	1345.9	1345.1	.8
.826	160.	786.	12.0	1348.2	1348.3	-.1
.945	160.	1219.	7.7	1352.4	1352.1	.3
1.035	160.	1117.	8.4	1353.6	1352.9	.7
1.121	160.	1386.	6.8	1355.2	1354.2	1.0
1.204	160.	867.	10.8	1355.7	1355.4	.3
1.315	155.	1341.	6.8	1359.8	1359.3	.5
1.420	190.	825.	11.0	1360.2	1360.0	.2

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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA CO. 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          NATURAL 100-YR  J. MISCHLER
*
*       CAVE BUTTE DAM CONTROLS DISCHARGES UP TO THE 100 YEAR FLOOD.
*       ABOVE THE 100 YEAR FLOOD, THE EMERGENCY SPILLWAY WILL PASS FLOWS.
*       AS THE EFFORT TO COMPUTE 500 YEAR HYDROLOGY (WHICH WOULD REQUIRE
*       ANALYSIS OF THE ENTIRE WATERSHED ABOVE THE DAM) IS NOT JUSTIFIED
*       BY THE VALUE OF 500 YEAR FLOODPLAIN INFORMATION, THE FLOOD CONTROL
*       DISTRICT HAS BEEN GRANTED PERMISSION BY FEMA TO DELETE THE 500 YEAR
*       FLOOD FROM THE RESTUDY OF CAVE CREEK WASH.  ONLY THE WATERSHED BELOW
*       THE DAM HAS BEEN CONSIDERED FOR HYDROLOGIC COMPUTATIONS OF THE 10, 50,
*       AND 100 YEAR FLOODS.
*
*
*
*       FLOODWAY RUN FROM SEDIMENT BASIN TO CAVE BUTTE DAM.
*
*       FOR SECTIONS 15.310 TO 16.971, REFER TO A SEPARATE SUPERCRITICAL
*       RUN FOR THE CORPS OF ENGINEERS' CONCRETE LINED CHANNEL. (NATURAL PROF)
*
*       FLOW IS WITHIN THE CORPS OF ENGINEER'S CHANNEL, SEDIMENT BASIN, OR
*       BROAD CRESTED WEIR INLET FROM RM15.015 TO 17.492, THEREFORE NO FLOODWAY
*       IS RUN FOR THIS REACH.
*
*
*
*       FILE LAST MODIFIED 1/26/90
*
*     FILE MODIFIED ON 04/14/06 BY ASPEN CONSULTING ENGINEERS.  INSERTED CROSS
*     SECTION 22.500 NORTH OF CENTRAL AVE. AND UNION HILLS RD. BETWEEN CROSS
*     SECTIONS 22.483 AND 22.578.  NO CROSS SECTIONS WERE MODIFIED.  ONE CROSS
*     SECTION WAS INSERTED.
*
J1          2.                                                  1283.69
J2    1.            -1.                                                      15.
J3   38.     42.      1.     53.     54.      4.      8.     43.     10.     51.
J3   46.     40.     41.            110.            200.
QT    2.  15400.  15400.
NC  0.04    0.04    0.04     0.1     0.3
*
*       BEGIN ENCROACHMENTS UPSTREAM OF THE SEDIMENT BASIN
*
ET                 10.41
X117.588     25.   9982.  10193.    440.    560.    496.
GR1291.4   9666.  1290.3   9746.  1275.6   9817.  1275.2   9835.  1273.5   9854.
GR1277.8   9873.  1279.7   9889.  1277.3   9896.  1278.2   9909.  1281.6   9922.
GR1281.9   9939.  1282.2   9964.  1278.1   9982.  1269.6   9992.  1270.6  10000.
GR1270.9  10009.  1272.6  10014.  1273.6  10039.  1273.6  10079.  1271.2  10144.
GR1271.2  10170.  1276.4  10193.  1290.5  10264.  1291.3  10328.   1291.  10495.
ET                   4.1   9900.  10150.
X117.662     23.   9941.  10130.    380.    400.    391.
GR1293.1   9731.  1293.1   9781.  1291.6   9791.  1282.7   9835.  1278.1   9844.
GR1279.2   9871.  1277.3   9911.  1276.4   9941.  1272.5   9986.  1271.6  10000.
GR1274.6  10016.  1277.5  10033.  1278.8  10063.  1278.9  10086.  1276.8  10099.
GR1275.7  10111.  1281.6  10130.  1285.2  10161.  1293.1  10208.   1294.  10221.
GR1293.7  10281.   1294.  10400.  1294.5  10432.
ET                 10.41
X117.783     18.   9921.  10064.    540.    500.    639.
GR1295.2   9812.   1294.   9837.  1291.3   9861.  1286.9   9895.  1280.5   9921.
GR1276.8   9938.  1278.3   9954.  1277.6   9973.  1275.4  10000.  1276.3  10019.
GR1277.4  10033.  1277.7  10045.  1281.1  10064.  1281.3  10074.  1284.6  10097.
GR1289.8  10122.  1291.5  10143.  1291.9  10153.
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X117.932      23.   9956.  10066.    790.    780.    787.
GR1294.8    9675.  1294.7   9732.  1295.5   9750.  1293.6   9766.  1297.5   9792.
GR1297.5    9837.  1298.3   9869.  1291.9   9896.  1289.7   9956.  1283.6   9966.
GR1283.5    9971.  1277.9   9986.  1278.2  10000.  1278.2  10006.  1279.5  10008.
GR1279.9   10022.  1280.2  10032.  1285.5  10054.  1290.2  10066.  1290.6  10083.
GR1298.5   10131.  1299.7  10159.  1299.7  10193.
*
*       THUNDERBIRD ROAD BRIDGE - ALTHOUGH THE ROAD IS LOWEST IN THE RIGHT
*       OVERBANK, HIGH BANKS UPSTREAM PREVENT THIS AREA FROM BECOMING EFFECTIVE,
*       THEREFORE, ONLY THE BRIDGE OPENING IS CONSIDERED ON THE GR CARDS AND
*       ONLY THE BRIDGE LENGTH IS CONSIDERED FOR THE BT CARDS.  ENDS OF THE
*       SECTIONS ARE ARTIFICIALLY EXTENDED.  BT'S ARE RAISED 0.5' FROM CENTER-
*       LINE OF ROAD ELEVATIONS AT THE BRIDGE. TO ACCOUNT FOR THE RAILING.
*
*                     4.1   9951.  10049.
NC 0.035    0.035   0.025     0.3     0.5
X118.042       8.   9951.  10049.    620.    550.    581.              2.4
GR 1305.    9951.  1283.4   9952.  1282.9   9979.  1279.9   9980.  1279.9  10020.
GR1281.9   10021.  1284.2  10048.   1305.  10049.
SB  1.05     1.56      3.              75.      4.   1059.    0.81  1280.2  1279.9
NC  0.03     0.03   0.025
*                    4.11   9951.  10049.
X118.061                             101.    101.    101.              0.8
*
*       ELTRD IS 1298.4+3.2HV =  1301.6
*
X2                     1.  1293.2  1301.6
BT    4.    9951.   1305.      0.   9952.  1298.4      0.  10048.  1298.4      0.
BT10049.    1305.      0.
NC 0.035    0.035   0.035
ET                   4.1   9900.  10085.
X118.081      11.   9942.  10045.     80.    130.    106.
GR1300.5    9819.  1300.2   9866.  1298.2   9899.  1286.6   9942.  1282.7   9960.
GR1281.4   10000.  1281.1  10008.  1282.7  10030.  1284.9  10045.  1297.3  10088.
GR1300.2   10112.
NC                       0.1     0.3
ET                   4.1   9857.  10125.
X118.174      29.   9919.  10073.    500.    490.    491.
GR1303.6    9673.  1304.6   9713.  1307.3   9757.  1302.5   9801.   1302.   9850.
GR 1288.    9904.  1287.3   9915.  1288.7   9919.   1284.   9927.  1283.5   9956.
GR1282.6    9975.  1283.5   9985.  1281.8   9992.  1281.7  10000.   1282.  10006.
GR1282.3   10011.  1282.7  10020.  1294.6  10073.   1297.  10093.  1296.2  10113.
GR1293.7   10142.  1293.7  10182.  1296.8  10236.  1299.3  10270.  1298.9  10295.
GR 1298.   10340.  1299.8  10364.   1298.  10396.  1301.1  10478.
ET                   4.1  9882.2  10110.
X118.269      12.   9942.  10060.    500.    500.    502.
GR1303.8    9868.  1288.1   9928.  1288.4   9942.  1285.3   9952.  1283.8   9979.
GR1283.8   10000.  1283.8  10010.  1285.6  10023.  1292.4  10060.   1294.  10071.
GR1303.2   10130.  1303.7  10144.
ET                   4.1  9895.6 10107.8
X118.362      20.   9942.  10060.    490.    510.    491.
GR1315.5    9728.  1315.4   9758.  1315.8   9780.  1310.6   9807.  1307.1   9862.
GR1298.6    9905.   1290.   9942.  1287.8   9952.   1288.   9967.  1286.1   9971.
GR1285.3   10000.  1286.8  10022.  1286.8  10036.  1290.6  10060.  1303.8  10124.
GR1307.7   10151.  1307.5  10169.  1306.8  10183.  1308.1  10240.  1308.8  10283.
*
*       DOWNSTREAM GOLF CART CROSSING ON A SINGLE 78" CMP WITH PROTRUDING
*       ENDS AND EMBANKMENT SLOPES  (NO WINGWALLS).
*
ET                   4.1   9885.  10110.
X118.445      13.   9992.  10005.    470.    460.    440.
X3   10.                                                1297.   1297.
GR1315.1    9796.  1306.2   9880.   1300.   9920.  1299.5   9978.   1290.   9992.
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GR1287.3  10000.   1290.  10005.   1300.  10040.   1302.  10060.   1303.  10097.
GR 1305.  10200.  1305.6  10310.  1309.4  10330.
SB   0.9    2.34     3.0      0.    6.11     1.0    33.2      0.  1287.7  1287.4
ET                  4.11   9885.  10110.
X118.456                              60.     60.     60.             0.4
*
*       ELTRD IS 1198.8+0.7HV = 1199.5
*
X2                     1.  1294.2  1299.5
X3   10.                                                     1298.8  1298.8
BT   10.   9796.  1315.5      0.   9880.  1306.6      0.   9928.  1301.9      0.
BT 9991.  1299.1      0.  10000.  1298.8      0.  10046.  1301.9      0.  10097.
BT1303.4      0.  10200.  1305.4      0.  10310.   1306.      0.  10330.  1309.8
BT    0.
ET                   4.1  9881.4 10169.8
X118.545     21.   9951.  10058.    440.    480.    466.
GR1324.2   9716.  1323.1   9748.  1324.4   9765.  1321.9   9790.  1318.3   9810.
GR 1317.   9839.  1306.7   9889.  1294.1   9951.  1291.5   9972.  1289.3   9993.
GR1289.7  10000.  1289.7  10018.  1290.5  10040.  1293.8  10058.  1298.8  10073.
GR1299.8  10094.  1303.4  10108.  1303.9  10121.   1303.  10135.  1310.1  10182.
GR1310.2  10194.
*
*       UPSTREAM GOLF CART CROSSING ON 2 - 72" RCP WITH FLUSH INLETS AND
*       45 DEGREE WINGWALLS.
*
ET                   4.1  9880.7 10170.8
X118.575     21.   9972.  10000.    160.    160.    160.
X3   10.                                                     1297.   1297.
GR1324.2   9716.  1323.1   9748.  1324.4   9765.  1321.9   9790.  1318.3   9810.
GR 1317.   9839.  1306.7   9889.  1294.1   9951.  1291.5   9972.  1289.3   9993.
GR1289.7  10000.  1289.7  10018.  1290.5  10040.  1293.8  10058.  1298.8  10073.
GR1299.8  10094.  1303.4  10108.  1303.9  10121.   1303.  10135.  1310.1  10182.
GR1310.2  10194.
SB  1.25    1.56     3.0      0.    10.4     1.0    56.5      0.  1289.4  1289.3
ET                  4.11  9876.1 10177.2
X118.583                              40.     40.     40.             0.1
*
*       ELTRD IS 1298.4+0.6HV = 1299.0
*
X2                     1.  1295.4   1299.
X3   10.                                                     1298.4  1298.4
BT    9.   9880.   1310.      0.   9965.   1300.      0.  10000.  1298.4      0.
BT10037.   1300.      0.  10065.   1302.      0.  10085.   1304.      0.  10122.
BT 1306.      0.  10160.   1308.      0.  10170.   1310.      0.
ET                   4.1  9879.6 10134.7
X118.640     17.   9955.  10033.    300.    310.    301.
GR1322.5   9707.  1323.7   9729.  1320.1   9768.  1313.8   9827.  1312.3   9858.
GR1308.4   9887.  1302.6   9920.  1294.6   9955.  1292.8   9966.  1290.2   9993.
GR1291.5  10000.  1291.8  10009.  1293.4  10033.  1307.8  10111.   1309.  10132.
GR1312.1  10153.  1313.2  10167.
ET                   4.1  9883.2 10111.7
X118.734     19.   9938.  10062.    490.    500.    496.
GR1320.7   9713.  1316.3   9762.  1316.6   9809.  1319.2   9819.  1317.9   9841.
GR1308.7   9888.  1298.6   9938.  1293.4   9971.  1294.2   9981.  1292.4   9992.
GR1294.5  10000.  1294.4  10025.  1300.8  10062.   1309.  10094.  1307.6  10104.
GR1312.9  10124.   1314.  10143.  1317.1  10178.  1319.9  10201.
ET                   4.1  9891.8  10107.
X118.832     21.   9929.  10046.    480.    540.    517.
GR1326.2   9779.   1328.   9788.  1320.6   9826.   1316.   9853.  1312.5   9880.
GR1302.8   9929.  1296.1   9960.  1293.5   9982.  1293.2  10000.  1293.2  10005.
GR1294.8  10008.  1295.5  10027.  1297.1  10046.  1307.7  10095.  1314.1  10128.
GR1314.1  10141.  1317.1  10187.  1320.3  10221.  1319.9  10247.  1318.6  10271.
GR1319.2  10278.
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ET                    4.1  9887.7 10087.5
X118.925     14.   9941.  10048.    480.    500.    491.
GR1329.1   9741.  1315.9   9866.  1297.6   9941.  1297.3   9960.  1295.3   9989.
GR 1295.  10000.  1296.1  10006.  1295.4  10022.  1294.6  10025.  1296.3  10034.
GR 1300.  10048.  1310.5  10087.  1320.1  10132.  1321.3  10161.
ET                    4.1  9866.3 10038.5
X119.018     20.   9903.  10030.    460.    520.    491.
GR 1331.   9681.  1321.2   9775.  1313.9   9847.  1305.1   9903.  1298.1   9930.
GR 1298.   9948.  1298.1   9957.  1297.6   9974.   1299.  10000.  1308.4  10030.
GR1325.3  10088.   1327.  10101.  1325.5  10109.  1330.2  10118.  1330.9  10124.
GR 1327.  10145.  1326.8  10211.  1328.8  10218.  1332.6  10260.  1331.8  10268.
ET                    4.1  9942.1 10061.9
X119.117     10.   9973.  10026.    490.    560.    523.
GR1333.9   9803.  1331.8   9872.   1323.   9908.  1302.9   9973.  1299.2   9997.
GR1298.7  10000.  1298.6  10010.  1301.5  10026.  1328.9  10116.   1333.  10144.
ET                    4.1  9923.1  10081.
X119.210     16.   9945.  10060.    500.    490.    491.
GR1333.2   9669.  1330.6   9853.  1328.7   9874.   1312.   9945.   1310.   9954.
GR1303.8   9978.  1301.4   9991.  1300.2  10000.  1301.3  10010.  1303.4  10026.
GR 1312.  10060.  1321.3  10098.   1327.  10127.  1332.5  10166.  1335.3  10191.
GR1335.6  10192.
*
*       19TH AVENUE  (SPECIAL BRIDGE)
*
NC                            0.3     0.5
QT    2.  14600.  14600.
X119.283     12.   9948.  10057.    390.    390.    386.            11.2
X3   10.                                                   1324.   1324.
GR1333.2   9669.  1330.6   9853.  1328.7   9874.   1312.   9945.  1300.5   9948.
GR1300.5  10057.   1312.  10060.  1321.3  10098.   1327.  10127.  1332.5  10166.
GR1335.3  10191.  1335.6  10192.
SB   0.9   1.56      3.            109.     4.5   1304.      0.  1311.7  1311.7
X119.299                             86.     86.     86.
*
*       ELTRD IS 1324.5+2HV = 1326.5
*
X2                    1.  1324.2  1326.5
X3   10.                                                   1325.   1325.
BT    6.   9500.   1326.      0.   9650.  1324.5      0.   9855.  1325.3      0.
BT10000.  1325.7      0.  10275.  1324.9      0.  10460.   1326.      0.
ET                10.41
X119.313     20.   9932.  10112.     75.     75.     74.
GR 1329.   9853.  1326.7   9859.  1327.6   9866.  1327.9   9932.  1314.5   9968.
GR1312.2   9980.  1311.7   9988.  1313.1   9996.  1313.1  10000.  1313.4  10017.
GR 1312.  10029.  1313.7  10044.  1311.7  10054.  1313.7  10069.  1325.5  10112.
GR1325.4  10137.  1324.3  10180.  1324.9  10219.  1325.2  10325.  1326.6  10464.
NC                      0.1     0.3
X119.418     19.   9948.  10120.    570.    530.    554.
GR1330.8   9898.  1328.8   9902.  1330.6   9910.  1330.2   9938.   1328.   9948.
GR1313.1   9992.  1313.1  10000.   1313.  10004.  1316.1  10022.  1314.6  10058.
GR1315.5  10076.  1320.1  10094.  1326.1  10120.  1327.6  10138.  1327.5  10186.
GR1326.2  10276.   1327.  10322.  1328.3  10376.  1328.6  10401.
*
*       SECTION 19.56  IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST
*       FORK.  THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE
*       EAST FORK OF CAVE CREEK.  THE CONFLUENCE OCCURS AT RM 19.608
*
X1 19.56     17.   9929.  10065.    730.    720.    729.
GR1346.1   9801.  1329.7   9902.  1329.7   9929.  1316.5   9950.  1316.8   9978.
GR1315.6  10000.  1315.6  10008.  1316.6  10026.  1316.4  10035.  1317.5  10043.
GR1330.6  10065.  1330.8  10099.  1330.5  10146.  1330.2  10195.  1330.9  10208.
GR1331.2  10223.  1332.1  10301.
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*       GREENWAY BRIDGE  (SPECIAL BRIDGE).  LARGE SKEW ACCOUNTED FOR PRIOR
*       TO DATA INPUT BY ADJUSTING BWC ETC.  DUE TO COMPLEX CHANNEL GEOMETRY
*       DOWNSTREAM AT THE CONFLUENCE WITH THE EAST FORK, IT WAS MOST APPROPRIATE
*       TO USE THE UPSTREAM SECTION, REPEATED AT THE DOWNSTREAM FACE.  GR CARDS
*       FROM SECTION 19.742 ARE REPEATED FOR 19.625 WITH PSXECE = -1.7
*
QT    2.   5700.   5700.
NC 0.035   0.035   0.015     0.3     0.5
X119.625     11.   9965.  10025.    580.     70.    364.            -1.7
X3   10.                                                   1332.   1332.
GR1335.7   9834.  1335.1   9893.  1333.4   9922.  1331.8   9937.  1331.6   9948.
GR1319.3   9965.  1319.3  10025.   1331.  10042.  1339.2  10055.  1337.7  10060.
GR1338.8  10100.
SB  1.05    1.56      3.    100.     60.      2.    564.      0.  1318.6  1317.6
X119.691                            330.    430.    350.             1.0
*
*       ELTRD IS 1332.8+2HV = 1334.8
*
X2                    1.  1328.3  1334.8
X3   10.                                                   1333.   1333.
ET                   4.1   9953.  10038.
X119.742     13.   9948.  10042.     80.    470.    269.
GR1335.7   9834.  1335.1   9893.  1333.4   9922.  1331.8   9937.  1331.6   9948.
GR1319.1   9967.  1319.2  10000.  1319.7  10017.  1319.7  10027.   1331.  10042.
GR1339.2  10055.  1337.7  10060.  1338.8  10100.
NC 0.035   0.035   0.035     0.1     0.3
ET                   4.1   9957.  10043.
X119.847     22.   9929.  10062.    570.    520.    554.
GR1339.8   9621.  1338.7   9726.  1341.6   9738.  1338.8   9759.   1339.   9806.
GR1337.7   9915.  1336.1   9921.  1336.3   9929.  1320.2   9974.  1318.8   9989.
GR1320.8  10000.  1320.5  10017.  1321.3  10023.  1328.8  10040.  1335.8  10062.
GR1336.1  10070.  1336.6  10084.  1335.8  10150.   1336.  10160.  1338.3  10175.
GR1339.2  10195.  1339.2  10198.
ET                   4.1   9958.  10031.
X119.960     24.   9958.  10031.    640.    560.    597.
GR1340.4   9544.  1339.1   9638.  1336.7   9736.  1337.2   9768.  1338.2   9807.
GR1338.9   9836.  1338.4   9908.  1340.1   9911.  1337.7   9917.  1339.1   9924.
GR1337.2   9935.   1330.   9958.  1327.8   9964.  1326.1   9977.  1324.6   9990.
GR1324.7  10000.  1326.1  10008.  1326.8  10023.   1330.  10031.  1340.6  10059.
GR1340.8  10072.  1340.7  10099.  1340.1  10194.  1339.9  10251.
*
*       TIERRA BUENA  (SPECIAL BRIDGE)
*
*
*       DUE TO HIGHER DEPTHS THAN ANTICIPATED, XNCH HAS BEEN REDUCED
*       FROM 0.04 (PER MANNINGS n VALUE REPORT) TO 0.035 BETWEEN GREENWAY ROAD
*       AND UNION HILLS DRIVE
*
NC  0.04    0.04   0.035     0.3     0.5
ET                   4.1   9969.  10020.
X119.974     10.   9969.  10020.    105.     65.     74.
X3   10.                                                   1336.   1336.
GR1340.1   9911.  1337.7   9917.  1339.1   9924.  1337.2   9935.   1330.   9958.
GR1323.8   9969.  1323.8  10020.   1330.  10031.  1340.6  10059.  1340.8  10072.
SB  1.25    1.56      3.            51.      3.    480.      0.  1324.1  1323.8
ET                  4.11   9969.  10020.
X119.986                             61.     61.     61.
*
*       ELTRD IS 1336.9+1HV = 1337.9
*
X2                    1.  1334.1  1337.9
X3   10.                                                   1337.   1337.
BT    3.   9560.   1340.      0.  10000.  1336.9      0.  10230.   1340.      0.
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ET                    4.1   9975.  10025.
X120.049     37.   9954.  10027.    305.    345.    333.
X3   10.                                                1340.
GR1344.7   9266.  1345.2   9300.  1342.4   9304.  1340.8   9328.  1332.6   9344.
GR1333.1   9400.  1333.3   9490.   1334.   9563.  1334.8   9606.  1333.2   9728.
GR 1335.   9767.  1331.4   9805.   1331.   9820.  1331.5   9854.  1331.5   9901.
GR1332.1   9920.  1341.1   9938.  1340.5   9950.  1343.4   9954.  1339.8   9969.
GR1327.4   9991.  1327.1   9997.  1327.1  10000.  1328.4  10008.  1339.4  10027.
GR 1340.  10047.  1342.3  10075.  1342.4  10097.  1340.2  10114.  1342.3  10131.
GR 1343.  10142.  1341.5  10162.  1342.7  10175.  1342.9  10210.  1343.3  10307.
GR1342.5  10378.   1343.  10477.
NC                          0.1     0.3
ET                    4.1   9972.  10029.
X120.144     38.   9955.  10025.    490.    500.    502.
X3   10.                                                1344.
GR1346.6   9136.  1347.4   9206.  1348.2   9208.  1348.4   9215.  1347.1   9235.
GR1342.5   9239.  1341.7   9258.  1334.6   9278.   1332.   9297.  1332.6   9357.
GR1333.7   9417.  1333.1   9457.  1334.1   9479.  1334.9   9499.  1335.3   9554.
GR1334.4   9582.  1335.7   9631.  1335.6   9698.  1336.1   9745.  1334.6   9779.
GR1329.6   9788.  1330.5   9820.  1329.4   9847.  1328.5   9881.  1328.5   9912.
GR1341.6   9931.  1343.1   9951.  1344.6   9955.   1342.   9968.  1330.9   9986.
GR1330.9  10000.  1330.9  10010.  1340.8  10025.  1342.2  10040.  1345.9  10053.
GR1346.5  10073.   1347.  10128.   1347.  10198.
ET                    4.1   9964.  10035.
X120.242     32.   9953.  10029.    470.    560.    517.
X3   10.                                                1348.
GR1346.6   9200.  1347.9   9269.  1348.7   9271.  1348.7   9277.  1346.6   9330.
GR1347.7   9377.  1342.3   9383.  1342.7   9400.  1332.4   9422.  1333.6   9470.
GR1333.7   9529.  1334.9   9573.  1334.2   9626.  1334.9   9648.  1335.1   9651.
GR 1336.   9785.   1336.   9842.  1338.6   9846.  1339.3   9895.  1339.2   9935.
GR1347.2   9953.  1343.7   9970.  1333.3   9988.  1333.7  10000.  1333.5  10012.
GR1342.8  10029.  1343.2  10041.  1348.3  10061.  1349.2  10076.  1349.9  10107.
GR1350.1  10201.  1350.3  10202.
ET                    4.1   9963.  10036.
X120.335     27.   9958.  10032.    510.    470.    491.
GR1349.5   9230.  1351.4   9312.  1349.1   9322.  1350.7   9340.   1351.   9476.
GR1351.2   9592.  1350.4   9726.  1350.1   9808.  1351.1   9820.  1351.4   9850.
GR1351.8   9928.  1347.7   9950.   1344.   9958.  1337.7   9971.  1337.3   9987.
GR1337.4  10000.  1338.3  10021.   1344.  10032.   1349.  10042.  1351.8  10056.
GR1351.1  10100.  1351.6  10141.   1350.  10144.   1350.  10166.   1350.  10240.
GR1350.8  10328.  1351.4  10406.
*
*       11TH AVENUE  (SPECIAL BRIDGE)
*
NC                          0.3     0.5
X120.347     25.   9970.  10021.      1.    150.     63.
X3   10.                                                1351.5  1351.5
GR1349.5   9230.  1351.4   9312.  1349.1   9322.  1350.7   9340.   1351.   9476.
GR1351.2   9592.  1350.4   9726.  1350.1   9808.  1351.1   9820.  1351.4   9850.
GR1351.8   9928.  1347.7   9950.   1344.   9958.  1337.2   9970.  1337.2  10021.
GR 1344.  10032.   1349.  10042.  1351.8  10056.  1351.1  10100.  1351.6  10141.
GR 1350.  10144.   1350.  10166.   1350.  10240.  1350.8  10328.  1351.4  10406.
SB  1.25    1.56     3.0    100.     51.      3.    576.      0.  1337.7  1337.2
X120.366                           100.    100.    100.
*
*       ELTRD IS 1352.5+2HV = 1354.5
*
X2                    1.  1349.7  1354.5
X3   10.                                                1352.5  1352.5
ET                    4.1   9958.  10072.
X120.423     21.   9975.  10045.    415.    205.    301.
GR1354.3   9418.  1353.8   9613.  1355.3   9653.  1354.6   9696.  1353.3   9711.
GR1353.6   9724.  1353.5   9931.   1352.   9950.   1345.   9975.   1338.  10000.
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GR1339.4  10027.  1339.7  10037.  1344.3  10045.   1345.  10055.  1353.3  10085.
GR1353.5  10100.  1354.7  10127.  1354.4  10214.  1354.3  10273.  1353.3  10300.
GR1353.5  10333.
*
*       10TH AVENUE  (SPECIAL BRIDGE)
*
X120.430     20.   9985.  10036.      1.     65.     37.
X3   10.                                                  1352.5  1352.5
GR1354.3   9418.  1353.8   9613.  1355.3   9653.  1354.6   9696.  1353.3   9711.
GR1353.6   9724.  1353.5   9931.   1352.   9950.   1345.   9975.  1339.3   9985.
GR1339.3  10036.  1344.3  10045.   1345.  10055.  1353.3  10085.  1353.5  10100.
GR1354.7  10127.  1354.4  10214.  1354.3  10273.  1353.3  10300.  1353.5  10333.
SB  1.25    1.56     3.0    100.     51.      3.    576.      0.  1339.3  1339.3
X120.444                            70.     70.     70.
*
*       ELTRD IS 1353.5+2HV = 1355.5
*
X2                    1.  1351.3  1355.5
X3   10.                                                  1353.5  1353.5
ET                   4.1   9930.  10069.
X120.529     19.   9947.  10055.    545.    375.    449.
GR 1354.   9570.  1353.7   9764.  1354.8   9836.   1355.   9885.  1354.7   9898.
GR1350.7   9910.  1350.2   9947.  1343.4   9963.  1343.4   9990.  1343.3  10000.
GR 1343.  10025.  1348.6  10041.  1350.4  10055.  1350.8  10090.   1355.  10105.
GR1354.4  10159.   1355.  10192.   1355.  10302.  1355.2  10313.
NC                            0.1     0.3
ET                   4.1   9935.  10065.
X120.628     16.   9909.  10076.    530.    520.    523.
GR1357.3   9532.  1357.3   9624.  1356.8   9754.  1357.2   9808.  1357.1   9909.
GR1351.5   9922.  1350.2   9947.  1343.3   9959.  1343.6   9991.  1343.6  10000.
GR1343.7  10044.  1356.3  10076.   1357.  10082.  1357.1  10137.  1357.2  10282.
GR 1358.  10337.
ET                   4.1   9962.  10026.
X120.725     20.   9951.  10036.    510.    520.    512.
GR1360.3   9544.  1361.1   9631.  1361.3   9734.   1361.   9783.   1362.   9858.
GR1360.8   9940.  1360.4   9951.  1350.4   9970.  1350.4   9981.  1348.3   9984.
GR1347.4   9992.  1347.2  10000.  1347.4  10010.   1361.  10036.  1363.4  10046.
GR1363.8  10101.  1364.1  10156.  1364.7  10184.  1365.1  10212.  1364.7  10291.
*
*       PHELPS ROAD  (SPECIAL BRIDGE)
*
NC                            0.3     0.5
X120.737     16.   9968.  10019.     80.     80.     80.             3.4
X3   10.                                                   1363.   1363.
GR1360.3   9544.  1361.1   9631.  1361.3   9734.   1361.   9783.   1362.   9858.
GR1360.8   9940.  1360.4   9951.  1347.5   9968.  1347.5  10019.   1361.  10036.
GR1363.4  10046.  1363.8  10101.  1364.1  10156.  1364.7  10184.  1365.1  10212.
GR1364.7  10291.
SB  1.25    1.56     3.0    100.     51.      3.    576.      0.  1351.0  1350.9
X120.750                            71.     71.     71.             0.1
*
*       ELTRD IS 1364+2HV = 1366.0
*
X2                    1.   1363.   1366.
X3   10.                                                   1364.   1364.
*
*       BELL ROAD  (SPECIAL BRIDGE)  A SECTION TAKEN UPSTREAM OF BELL ROAD AT
*       RM 20.845 IS USED TO MODEL THE BELL ROAD BRIDGE.  GR CARDS ARE REPEATED
*       AT THE DOWNSTREAM FACE WITH PSXECE = -0.9.  TO MORE APPROPRIATELY MODEL
*       CONTRACTION LOSSES, THE UPSTREAM SECTION IS PRESENTED AT RM 20.860
*       INSTEAD OF RM 20.845 WHERE THE AERIAL SECTION WAS TAKEN.
*
X120.819     12.   9965.  10043.    375.    345.    365.            -0.9
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X3   10.                                                  1366.9  1366.9
GR1366.5   9554.  1365.4   9663.  1365.5   9777.  1365.5   9846.  1365.3   9942.
GR1357.4   9965.  1357.4  10043.  1367.6  10066.  1366.2  10107.  1366.2  10146.
GR 1367.  10166.  1367.2  10169.
SB  1.05    1.56     3.0    100.    77.3     3.3    655.      0.  1357.4  1356.5
X120.841                           115.    115.    115.             0.9
*
*       ELTRD IS 1367.9+2HV = 1369.9
*
X2                    1.  1365.4  1369.9
X3   10.                                                  1367.9  1367.9
ET                   4.1   9904.  10060.
X120.860     14.   9942.  10066.     90.    110.    100.
X3   10.                                                  1365.3  1367.6
GR 1370.   9800.  1365.5   9801.  1365.5   9846.  1365.3   9942.  1357.8   9975.
GR1356.3   9991.  1356.4  10000.  1357.2  10015.   1357.  10040.  1367.6  10066.
GR1366.2  10107.  1366.2  10146.   1367.  10166.  1367.2  10169.
NC  0.04   0.035   0.035     0.1     0.3
ET                   4.1   9860.  10110.
X120.942     26.   9854.  10024.    530.    490.    433.
GR1372.5   9619.  1367.2   9630.  1368.7   9643.  1369.8   9663.  1369.4   9719.
GR1367.6   9792.  1367.6   9836.  1368.6   9854.  1360.2   9867.  1359.8   9879.
GR1359.8   9891.  1364.6   9904.  1365.2   9942.  1363.7   9970.   1366.   9977.
GR1360.3   9998.  1359.6  10000.  1366.5  10024.  1364.7  10027.  1364.5  10053.
GR1365.7  10070.  1364.5  10114.  1361.6  10153.  1368.3  10171.  1368.3  10194.
GR1368.3  10204.
NC  0.04    0.04   0.035
ET                   4.1   9810.  10060.
X121.036     19.   9912.  10020.    490.    490.    496.
GR1376.1   9530.   1372.   9541.   1372.   9561.  1371.3   9665.  1371.9   9728.
GR1371.6   9758.  1370.9   9867.  1370.7   9912.  1367.3   9917.  1367.5   9952.
GR1366.3   9980.  1363.5   9994.  1363.6  10000.  1364.3  10009.  1370.4  10020.
GR1371.2  10041.  1371.2  10075.  1371.8  10089.   1378.  10090.
ET                   4.1   9900.  10060.
X121.127     13.   9974.  10067.    400.    500.    480.
X3   10.                                                   1374.
GR1378.9   9623.  1373.6   9634.  1373.6   9666.  1373.4   9759.  1373.5   9860.
GR1373.7   9913.  1374.2   9974.  1366.9   9990.  1366.7  10000.  1367.5  10015.
GR1367.8  10039.   1375.  10067.   1375.  10077.
ET                   4.1   9900.  10125.
X121.230     28.   9967.  10048.    560.    500.    544.
GR1381.5   9741.  1381.5   9764.  1381.5   9786.  1380.7   9813.  1379.3   9835.
GR1379.3   9852.  1379.9   9862.  1378.2   9870.  1379.8   9879.  1378.9   9891.
GR1379.5   9916.  1379.6   9930.  1378.9   9944.  1379.2   9955.  1379.3   9967.
GR1374.7   9982.  1372.4   9992.   1372.  10000.  1373.2  10014.  1375.6  10023.
GR1379.3  10037.  1380.6  10048.   1378.  10062.  1377.5  10083.  1377.4  10102.
GR1377.7  10117.  1377.8  10126.   1385.  10127.
ET                   4.1   9930.  10130.
X121.363     55.   9928.  10088.    740.    700.    702.
GR1384.8   9135.  1384.7   9160.  1383.9   9189.  1384.6   9215.  1383.9   9245.
GR1384.4   9279.  1383.8   9313.   1384.   9345.  1384.1   9374.  1383.8   9405.
GR1383.5   9428.  1384.5   9459.   1385.   9498.  1384.7   9527.   1385.   9549.
GR1382.2   9561.   1381.   9570.  1382.1   9583.  1383.9   9596.  1384.3   9628.
GR1384.3   9657.   1384.   9697.  1383.6   9739.  1384.1   9779.  1383.9   9811.
GR1383.1   9822.  1383.6   9848.  1383.3   9886.  1383.5   9907.  1384.1   9916.
GR1383.2   9922.  1384.4   9928.  1383.6   9939.  1379.2   9954.  1377.7   9977.
GR 1375.   9996.  1374.8  10000.   1375.  10016.  1374.2  10037.  1374.1  10045.
GR1377.5  10066.  1382.1  10088.  1383.8  10108.   1384.  10125.  1384.5  10147.
GR1382.7  10174.  1383.2  10202.  1383.1  10224.  1383.1  10245.  1383.3  10265.
GR1384.3  10285.  1383.4  10301.   1383.  10319.   1383.  10334.   1383.  10337.
ET                   4.1   9852.  10077.
X121.484     33.   9932.  10026.    650.    520.    639.
GR1386.8   9487.  1385.8   9527.  1385.8   9572.  1385.4   9614.  1384.8   9647.
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GR1385.2   9678.  1385.6   9709.  1386.7   9746.  1385.9   9776.  1384.5   9805.
GR1383.9   9837.  1384.4   9867.   1384.   9892.  1386.5   9919.  1386.9   9932.
GR1386.2   9943.  1383.5   9964.  1380.2   9970.  1379.7   9988.  1378.5   9994.
GR1378.6  10000.  1381.2  10014.  1386.5  10026.  1386.6  10053.  1387.8  10056.
GR1385.5  10060.  1388.2  10068.  1385.8  10075.  1387.4  10079.  1387.4  10101.
GR1387.6  10116.  1387.5  10131.  1387.4  10134.
ET                   4.1   9940.  10165.
X121.576     43.   9980.  10087.    320.    480.    486.
GR1388.7   9388.  1388.6   9414.  1388.2   9461.  1388.5   9500.  1389.3   9532.
GR1388.7   9570.  1388.5   9607.  1387.9   9643.  1388.6   9664.  1388.8   9705.
GR1389.1   9743.  1388.9   9780.   1388.   9821.  1388.4   9852.  1388.7   9889.
GR1389.1   9922.  1389.7   9952.  1390.1   9968.   1390.   9980.  1382.5   9994.
GR1382.1  10000.  1382.2  10008.  1383.8  10015.  1385.1  10038.  1385.2  10056.
GR1384.1  10065.  1384.6  10073.  1388.3  10087.  1387.1  10114.  1387.1  10140.
GR1387.8  10162.  1387.7  10199.  1388.4  10243.  1388.7  10281.  1389.3  10300.
GR1390.3  10307.  1389.2  10313.  1390.7  10320.  1387.6  10329.  1388.9  10335.
GR1389.7  10348.  1390.2  10360.  1390.3  10386.
QT    2.   5500.   5500.
ET                   4.1   9890.  10115.
X121.669     35.   9962.  10031.    440.    470.    491.
GR1393.2   9392.   1393.   9426.  1392.7   9446.  1392.3   9515.  1392.9   9562.
GR1392.2   9606.  1392.8   9663.  1392.7   9710.  1393.1   9742.  1393.5   9777.
GR1393.3   9819.  1392.7   9858.  1392.2   9893.  1391.6   9925.   1392.   9949.
GR1393.8   9962.  1392.7   9974.  1392.2   9982.   1385.   9989.   1384.   9997.
GR1384.5  10000.  1385.1  10011.  1388.7  10023.   1392.  10031.  1391.2  10045.
GR 1392.  10074.  1391.7  10124.  1391.9  10182.   1392.  10245.  1392.1  10303.
GR1391.9  10361.   1392.  10395.  1392.6  10401.  1391.6  10404.  1393.3  10414.
ET                   4.1   9940.  10140.
X121.742     25.   9975.  10091.    430.    390.    385.
GR 1396.   9733.  1394.6   9753.  1395.1   9777.   1395.   9802.   1395.   9839.
GR1395.6   9885.  1395.1   9930.  1395.3   9940.  1394.7   9975.  1387.4   9991.
GR1386.4  10000.  1386.9  10015.  1392.2  10035.  1391.9  10052.  1389.9  10062.
GR1391.5  10080.  1394.2  10091.  1394.2  10126.  1394.9  10176.   1395.  10240.
GR1394.6  10281.  1394.8  10324.  1395.2  10355.  1395.3  10367.  1397.3  10376.
ET                   4.1   9900.  10100.
X121.840     22.   9946.  10054.    430.    430.    517.
GR1401.5   9827.  1402.1   9842.  1397.3   9860.  1395.5   9882.   1395.   9913.
GR1395.3   9931.  1396.2   9946.  1395.7   9953.  1392.1   9967.  1392.6   9984.
GR1393.7   9997.  1393.3  10000.  1392.5  10020.  1391.1  10033.  1393.5  10045.
GR 1397.  10054.  1396.5  10097.  1397.3  10145.  1397.8  10186.  1397.5  10227.
GR1397.6  10273.  1398.3  10308.
ET                   4.1   9830.  10080.
X121.895     31.   9975.  10031.    330.    220.    290.
GR1402.6   9807.  1402.6   9825.  1398.4   9839.  1397.2   9857.  1396.7   9885.
GR1396.7   9919.  1397.7   9939.  1397.9   9960.   1398.   9975.  1397.1   9981.
GR 1393.   9990.  1391.9  10000.  1392.3  10010.   1394.  10021.  1397.7  10031.
GR1398.6  10046.   1399.  10078.  1398.4  10113.  1398.6  10149.  1398.7  10187.
GR1398.5  10225.  1398.1  10251.  1398.6  10292.  1398.6  10333.  1399.3  10364.
GR1398.8  10399.  1399.5  10428.  1400.5  10446.  1400.5  10458.  1399.7  10463.
GR1400.9  10470.
*
*       UNION HILLS RD:   PIPES BENEATH LOW CROSSING WERE MODELLED AS AN AREA
*       (BAREA) WITH AN ORIFICE COEFFICIENT.  THE 100 YEAR FLOW THROUGH THE
*       PIPES WAS NEGLIGIBLE (18 CFS).  UNION HILLS IS THEREFORE MORE
*       APPROPRIATELY MODELLED AS A NORMAL SECTION USING GR CARDS.
*
ET                   4.1   9650.  10070.
X121.933     12.   9865.  10140.    210.    210.    210.
GR 1402.   9060.  1400.3   9440.   1400.   9590.   1398.   9680.  1397.4   9725.
GR 1398.   9780.  1399.4   9840.   1398.   9865.  1396.8  10000.   1398.  10140.
GR 1400.  10285.   1406.  10286.
NC 0.045   0.045   0.045
ET                   4.1   9630.  10051.
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X121.953	39.	9969.	10029.	75.	75.	74.			
GR 1402.	9320.	1400.5	9487.	1400.8	9527.	1401.4	9557.	1400.2	9580.
GR1401.7	9599.	1401.1	9621.	1400.2	9647.	1399.6	9678.	1398.8	9699.
GR1398.3	9714.	1397.6	9720.	1396.6	9725.	1398.8	9735.	1399.3	9745.
GR1398.8	9759.	1397.3	9768.	1398.9	9782.	1398.9	9810.	1400.1	9832.
GR1402.1	9851.	1401.7	9870.	1403.3	9884.	1403.7	9893.	1403.4	9912.
GR1402.3	9939.	1401.	9956.	1399.7	9965.	1400.2	9969.	1395.6	9986.
GR1394.4	9997.	1394.1	10000.	1394.	10010.	1394.9	10018.	1398.3	10029.
GR1400.1	10044.	1401.6	10058.	1401.4	10064.	1407.	10065.		
ET		4.1	9620.	10030.					
X122.065	39.	9961.	10028.	430.	630.	591.			
GR1404.2	9230.	1404.	9250.	1402.	9270.	1402.	9500.	1403.1	9594.
GR1403.6	9604.	1400.4	9627.	1400.1	9645.	1400.6	9657.	1400.3	9680.
GR1400.5	9700.	1401.9	9717.	1403.3	9731.	1403.7	9746.	1403.9	9761.
GR1400.1	9776.	1400.	9785.	1401.1	9796.	1401.	9816.	1403.7	9829.
GR1403.7	9843.	1400.7	9861.	1399.7	9869.	1402.7	9890.	1403.5	9899.
GR1404.1	9915.	1404.8	9934.	1403.6	9950.	1404.1	9961.	1401.4	9977.
GR 1398.	9989.	1395.8	9995.	1395.8	10000.	1395.9	10006.	1399.4	10010.
GR 1402.	10028.	1402.6	10043.	1406.6	10061.	1407.1	10085.		
ET		4.1	9620.	10020.					
X122.165	63.	9983.	10018.	530.	530.	528.			
GR 1406.	9130.	1405.2	9138.	1405.	9151.	1404.4	9164.	1402.8	9176.
GR1402.7	9184.	1400.8	9204.	1399.8	9213.	1399.3	9222.	1401.2	9232.
GR 1403.	9256.	1403.8	9282.	1403.8	9308.	1404.3	9334.	1404.2	9364.
GR1404.1	9396.	1404.	9425.	1404.9	9463.	1405.2	9499.	1405.3	9526.
GR1404.9	9548.	1403.8	9565.	1402.8	9579.	1404.6	9595.	1404.8	9608.
GR1402.4	9624.	1400.	9637.	1399.7	9645.	1400.6	9657.	1402.	9669.
GR1403.1	9686.	1404.5	9701.	1405.8	9714.	1406.2	9728.	1406.1	9741.
GR 1404.	9753.	1403.8	9760.	1405.2	9772.	1405.6	9784.	1405.3	9793.
GR1402.9	9806.	1402.7	9820.	1402.6	9834.	1402.6	9843.	1401.8	9849.
GR1401.9	9862.	1402.8	9872.	1403.8	9876.	1405.	9894.	1406.1	9909.
GR1405.4	9919.	1403.1	9930.	1403.	9946.	1402.1	9967.	1400.9	9983.
GR1395.3	9994.	1395.	10000.	1396.1	10007.	1403.7	10018.	1404.8	10038.
GR1405.2	10053.	1405.2	10060.	1405.7	10065.				
ET		4.1	9650.	10027.					
X122.273	57.	9933.	10028.	470.	580.	570.			
GR1418.7	9227.	1418.7	9238.	1412.4	9262.	1411.6	9274.	1410.9	9284.
GR 1409.	9292.	1407.6	9300.	1407.3	9314.	1406.3	9325.	1403.5	9335.
GR1403.1	9344.	1403.	9350.	1404.3	9359.	1405.4	9369.	1405.8	9386.
GR1406.7	9408.	1407.1	9427.	1407.4	9444.	1407.2	9460.	1406.4	9473.
GR1406.5	9485.	1406.9	9502.	1407.7	9520.	1408.2	9532.	1407.1	9558.
GR1404.4	9574.	1404.3	9598.	1406.	9622.	1407.	9657.	1407.3	9686.
GR1406.2	9708.	1406.4	9727.	1406.4	9745.	1405.6	9754.	1402.6	9766.
GR1402.8	9774.	1406.7	9789.	1409.4	9801.	1408.5	9827.	1407.9	9851.
GR1408.8	9869.	1406.3	9887.	1407.	9902.	1404.	9915.	1404.1	9933.
GR1403.2	9948.	1401.8	9961.	1400.6	9977.	1400.1	9992.	1399.4	9999.
GR1399.8	10000.	1401.2	10011.	1404.	10021.	1406.9	10028.	1408.	10050.
GR1408.3	10080.	1408.7	10109.						
ET		4.1	9860.	10040.					
X122.410	25.	9973.	10027.	750.	630.	723.			
GR 1420.	9802.	1419.1	9817.	1418.8	9825.	1415.8	9838.	1414.8	9850.
GR1412.6	9867.	1413.9	9879.	1412.	9890.	1413.4	9903.	1414.5	9914.
GR1416.1	9922.	1414.	9931.	1412.4	9941.	1411.4	9954.	1411.2	9967.
GR1410.7	9973.	1405.7	9987.	1404.9	9997.	1404.	10000.	1404.7	10007.
GR1407.6	10017.	1411.3	10027.	1413.5	10042.	1413.8	10057.	1414.4	10071.
ET		4.1	9890.	10050.					
X122.483	19.	9941.	10105.	380.	390.	385.			
GR 1421.	9823.	1420.2	9843.	1416.7	9873.	1414.4	9891.	1413.1	9915.
GR1411.1	9941.	1407.8	9961.	1406.2	9984.	1405.5	10000.	1405.5	10027.
GR1406.4	10056.	1408.3	10084.	1411.2	10105.	1412.3	10120.	1412.6	10138.
GR1412.6	10156.	1411.9	10175.	1412.7	10191.	1419.8	10208.		
ET		4.1	9925.	10055.					
X122.500	24.	9650.	10090.	110.	95.	103.			

```
X3     10
GR1423.5  9020.0  1416.0  9050.0  1414.0   9350.  1412.0   9390.  1410.0  9400.0
GR1412.0   9410.  1414.0   9465.  1414.0   9570.   1416.   9610.   1418.   9650.
GR1416.0   9710.  1414.0   9775.  1414.0   9900.   1416.   9905.   1416.   9930.
GR1414.0   9950.   1406.   9975.  1405.8  10000.   1406.  10030.   1408.  10080.
GR1412.0  10090.  1414.  10235.  1416.0  10255.   1420.  10270.
ET                  4.1   9968.  10064.
X122.578     13.   9968.  10072.    415.    395.    400.
GR1417.2   9914.  1417.6   9942.  1416.4   9958.  1416.6   9968.  1406.7   9983.
GR1406.7   9993.  1407.5  10000.  1408.5  10024.  1408.5  10040.  1408.8  10050.
GR1415.6  10063.  1421.2  10072.  1421.4  10090.
ET                  4.1   9830.  10028.
X122.675     19.   9736.  10032.    570.    480.    512.
GR1419.9   9671.  1419.9   9710.  1419.8   9736.  1410.6   9759.  1411.1   9783.
GR1410.6   9809.  1409.7   9828.  1410.8   9850.  1411.5   9873.  1413.4   9892.
GR1412.2   9922.   1411.   9950.   1411.   9976.  1410.7  10000.  1410.6  10015.
GR 1420.  10032.  1428.3  10047.  1426.6  10055.   1426.  10060.
ET                  4.1   9977.  10160.
X122.794     20.   9983.  10169.    460.    500.    628.
GR1420.6   9968.  1417.8   9983.  1413.6   9998.  1412.4  10000.  1412.3  10013.
GR1410.7  10041.  1411.6  10065.  1413.7  10080.  1413.8  10103.  1414.2  10119.
GR1411.7  10136.  1413.8  10151.  1416.1  10169.  1417.2  10189.  1420.3  10202.
GR1423.1  10219.   1427.  10244.  1429.9  10261.  1429.8  10278.  1429.8  10282.
ET                  4.1   9951.  10120.
X122.880     34.   9927.  10167.    440.    480.    454.
GR1427.3   9791.   1427.   9807.  1426.5   9815.  1424.8   9827.  1424.6   9838.
GR1424.8   9863.  1424.8   9883.  1424.5   9903.  1424.7   9917.  1426.4   9927.
GR1423.9   9934.  1421.4   9947.  1418.5   9958.  1416.1   9968.   1415.   9984.
GR 1414.   9999.  1414.3  10000.  1414.5  10012.  1415.2  10024.  1416.1  10048.
GR1416.5  10067.  1416.4  10101.  1416.2  10125.  1415.5  10143.  1413.2  10152.
GR 1413.  10156.  1414.8  10160.  1424.2  10167.  1426.6  10188.  1428.4  10200.
GR1430.9  10214.  1433.5  10230.  1433.8  10241.  1433.5  10248.
ET                  4.1   9890.  10026.
X122.990     35.   9739.  10034.    480.    530.    581.
GR1427.7   9668.  1427.6   9697.  1425.6   9719.  1425.3   9730.  1425.4   9739.
GR1423.9   9751.  1422.5   9767.  1422.4   9785.  1421.5   9804.  1421.3   9817.
GR1421.3   9829.  1420.8   9843.  1419.5   9855.  1418.9   9864.  1417.9   9873.
GR1419.4   9886.   1420.   9903.  1420.6   9921.  1420.8   9935.  1420.3   9949.
GR 1420.   9963.  1419.1   9977.  1419.1   9995.  1419.1  10000.  1418.7  10014.
GR1420.3  10020.  1427.9  10034.  1427.3  10044.  1428.3  10060.  1430.5  10076.
GR1435.7  10094.  1437.4  10108.  1438.7  10119.  1436.3  10126.  1435.1  10133.
ET                  4.1   9958.  10090.
X123.097     48.   9951.  10121.    640.    490.    565.
GR1433.9   9713.  1433.9   9740.  1433.8   9758.  1432.3   9772.  1432.1   9778.
GR1433.5   9794.  1433.5   9811.  1433.5   9835.  1433.4   9849.  1431.1   9864.
GR 1430.   9878.  1430.1   9885.   1431.   9892.  1429.6   9901.  1429.1   9916.
GR1429.6   9925.  1431.3   9935.  1432.2   9945.  1432.3   9951.  1427.9   9964.
GR1426.4   9977.  1425.6   9988.  1425.1   9999.  1425.1  10000.   1426.  10012.
GR1426.1  10021.  1426.5  10044.  1426.5  10063.  1426.5  10073.  1426.5  10082.
GR1425.5  10093.  1426.4  10101.  1428.5  10112.  1430.8  10121.  1430.1  10135.
GR 1430.  10150.  1431.6  10163.  1432.8  10176.   1433.  10198.  1432.7  10221.
GR1431.6  10247.  1430.9  10267.  1430.6  10286.  1431.5  10296.  1433.4  10310.
GR1438.3  10337.  1439.7  10353.  1440.5  10363.
*
EJ
T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          FLOODWAY        J.MISCHLER
            3.                                                   1284.69
J2   15.            -1.
ER
```

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1*****************************************
 *  HEC-2 WATER SURFACE PROFILES          *
 *                                        *
 *  Version   4.6.2;  May 1991            *
 *                                        *
 *  RUN DATE    18APR06    TIME   16:01:36 *
 *****************************************
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*************************************
*  U.S. ARMY CORPS OF ENGINEERS     *
*  HYDROLOGIC ENGINEERING CENTER    *
*  609 SECOND STREET, SUITE D       *
*  DAVIS, CALIFORNIA 95616-4687     *
*          (916) 756-1104           *
*************************************
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X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX             XXXXXXX
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1

THIS RUN EXECUTED 18APR06 16:01:36

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*************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
*************************************
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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA CO. 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          NATURAL 100-YR  J. MISCHLER

        CAVE BUTTE DAM CONTROLS DISCHARGES UP TO THE 100 YEAR FLOOD.
        ABOVE THE 100 YEAR FLOOD, THE EMERGENCY SPILLWAY WILL PASS FLOWS.
        AS THE EFFORT TO COMPUTE 500 YEAR HYDROLOGY (WHICH WOULD REQUIRE
        ANALYSIS OF THE ENTIRE WATERSHED ABOVE THE DAM) IS NOT JUSTIFIED
        BY THE VALUE OF 500 YEAR FLOODPLAIN INFORMATION, THE FLOOD CONTROL
        DISTRICT HAS BEEN GRANTED PERMISSION BY FEMA TO DELETE THE 500 YEAR
        FLOOD FROM THE RESTUDY OF CAVE CREEK WASH.  ONLY THE WATERSHED BELOW
        THE DAM HAS BEEN CONSIDERED FOR HYDROLOGIC COMPUTATIONS OF THE 10, 50,
        AND 100 YEAR FLOODS.


        FLOODWAY RUN FROM SEDIMENT BASIN TO CAVE BUTTE DAM.

        FOR SECTIONS 15.310 TO 16.971, REFER TO A SEPARATE SUPERCRITICAL
        RUN FOR THE CORPS OF ENGINEERS' CONCRETE LINED CHANNEL. (NATURAL PROF)

        FLOW IS WITHIN THE CORPS OF ENGINEER'S CHANNEL, SEDIMENT BASIN, OR
        BROAD CRESTED WEIR INLET FROM RM15.015 TO 17.492, THEREFORE NO FLOODWAY
        IS RUN FOR THIS REACH.


        FILE LAST MODIFIED 1/26/90

      FILE MODIFIED ON 04/14/06 BY ASPEN CONSULTING ENGINEERS.  INSERTED CROSS
      SECTION 22.500 NORTH OF CENTRAL AVE. AND UNION HILLS RD. BETWEEN CROSS
      SECTIONS 22.483 AND 22.578.  NO CROSS SECTIONS WERE MODIFIED.  ONE CROSS
```

SECTION WAS INSERTED.

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		2.							1283.69	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.		-1.							15.

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38. 42. 1. 53. 54. 4. 8. 43. 10. 51.

1

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46. 40. 41. 110. 200.

QT	2.	15400.	15400.		
NC	0.04	0.04	0.04	0.1	0.3

BEGIN ENCROACHMENTS UPSTREAM OF THE SEDIMENT BASIN

ET			10.41							
X1	17.588	25.	9982.	10193.	440.	560.	496.			
GR	1291.4	9666.	1290.3	9746.	1275.6	9817.	1275.2	9835.	1273.5	9854.
GR	1277.8	9873.	1279.7	9889.	1277.3	9896.	1278.2	9909.	1281.6	9922.
GR	1281.9	9939.	1282.2	9964.	1278.1	9982.	1269.6	9992.	1270.6	10000.
GR	1270.9	10009.	1272.6	10014.	1273.6	10039.	1273.6	10079.	1271.2	10144.
GR	1271.2	10170.	1276.4	10193.	1290.5	10264.	1291.3	10328.	1291.	10495.
ET			4.1	9900.	10150.					
X1	17.662	23.	9941.	10130.	380.	400.	391.			
GR	1293.1	9731.	1293.1	9781.	1291.6	9791.	1282.7	9835.	1278.1	9844.
GR	1279.2	9871.	1277.3	9911.	1276.4	9941.	1272.5	9986.	1271.6	10000.
GR	1274.6	10016.	1277.5	10033.	1278.8	10063.	1278.9	10086.	1276.8	10099.
GR	1275.7	10111.	1281.6	10130.	1285.2	10161.	1293.1	10208.	1294.	10221.
GR	1293.7	10281.	1294.	10400.	1294.5	10432.				
ET			10.41							
X1	17.783	18.	9921.	10064.	540.	500.	639.			
GR	1295.2	9812.	1294.	9837.	1291.3	9861.	1286.9	9895.	1280.5	9921.
GR	1276.8	9938.	1278.3	9954.	1277.6	9973.	1275.4	10000.	1276.3	10019.
GR	1277.4	10033.	1277.7	10045.	1281.1	10064.	1281.3	10074.	1284.6	10097.
GR	1289.8	10122.	1291.5	10143.	1291.9	10153.				
X1	17.932	23.	9956.	10066.	790.	780.	787.			
GR	1294.8	9675.	1294.7	9732.	1295.5	9750.	1293.6	9766.	1297.5	9792.
GR	1297.5	9837.	1298.3	9869.	1291.9	9896.	1289.7	9956.	1283.6	9966.
GR	1283.5	9971.	1277.9	9986.	1278.2	10000.	1278.2	10006.	1279.5	10008.
GR	1279.9	10022.	1280.2	10032.	1285.5	10054.	1290.2	10066.	1290.6	10083.
GR	1298.5	10131.	1299.7	10159.	1299.7	10193.				

THUNDERBIRD ROAD BRIDGE - ALTHOUGH THE ROAD IS LOWEST IN THE RIGHT OVERBANK, HIGH BANKS UPSTREAM PREVENT THIS AREA FROM BECOMING EFFECTIVE, THEREFORE, ONLY THE BRIDGE OPENING IS CONSIDERED ON THE GR CARDS AND ONLY THE BRIDGE LENGTH IS CONSIDERED FOR THE BT CARDS. ENDS OF THE SECTIONS ARE ARTIFICIALLY EXTENDED. BT'S ARE RAISED 0.5' FROM CENTER-LINE OF ROAD ELEVATIONS AT THE BRIDGE. TO ACCOUNT FOR THE RAILING.

4.1 9951. 10049.

NC	0.035	0.035	0.025	0.3	0.5			
X1	18.042	8.	9951.	10049.	620.	550.	581.	2.4

```
GR      1[illegible]      9951.     1283.4      9952.      1282.9      9979.      [illegible]279.9      9980.      1279.9      10020.
GR   1281.9      10021.     1284.2     10048.      1305.      10049.
1
   18APR06      16:01:36                                                                                                    PAGE    3


SB     1.05       1.56        3.                    75.         4.      1059.       0.81      1280.2      1279.9
NC     0.03       0.03      0.025
                    4.11    9951.  10049.
X1   18.061                                        101.       101.       101.                   0.8

        ELTRD IS 1298.4+3.2HV =  1301.6

X2                              1.     1293.2      1301.6
BT       4.      9951.      1305.        0.       9952.      1298.4         0.     10048.      1298.4          0.
BT   10049.      1305.         0.

NC    0.035      0.035      0.035
ET                              4.1      9900.      10085.
X1   18.081        11.      9942.     10045.         80.       130.       106.
GR   1300.5      9819.     1300.2      9866.      1298.2      9899.      1286.6      9942.      1282.7      9960.
GR   1281.4     10000.     1281.1     10008.      1282.7     10030.      1284.9     10045.      1297.3     10088.
GR   1300.2     10112.

NC                                 0.1         0.3
ET                              4.1      9857.      10125.
X1   18.174        29.      9919.     10073.        500.       490.       491.
GR   1303.6      9673.     1304.6      9713.      1307.3      9757.      1302.5      9801.       1302.      9850.
GR    1288.      9904.     1287.3      9915.      1288.7      9919.       1284.      9927.      1283.5      9956.
GR   1282.6      9975.     1283.5      9985.      1281.8      9992.      1281.7     10000.       1282.     10006.
GR   1282.3     10011.     1282.7     10020.      1294.6     10073.       1297.     10093.      1296.2     10113.
GR   1293.7     10142.     1293.7     10182.      1296.8     10236.      1299.3     10270.      1298.9     10295.
GR    1298.     10340.     1299.8     10364.       1298.     10396.      1301.1     10478.

ET                              4.1     9882.2      10110.
X1   18.269        12.      9942.     10060.        500.       500.       502.
GR   1303.8      9868.     1288.1      9928.      1288.4      9942.      1285.3      9952.      1283.8      9979.
GR   1283.8     10000.     1283.8     10010.      1285.6     10023.      1292.4     10060.       1294.     10071.
GR   1303.2     10130.     1303.7     10144.

ET                              4.1     9895.6     10107.8
X1   18.362        20.      9942.     10060.        490.       510.       491.
GR   1315.5      9728.     1315.4      9758.      1315.8      9780.      1310.6      9807.      1307.1      9862.
GR   1298.6      9905.      1290.      9942.      1287.8      9952.       1288.      9967.      1286.1      9971.
GR   1285.3     10000.     1286.8     10022.      1286.8     10036.      1290.6     10060.      1303.8     10124.
GR   1307.7     10151.     1307.5     10169.      1306.8     10183.      1308.1     10240.      1308.8     10283.

        DOWNSTREAM GOLF CART CROSSING ON A SINGLE 78" CMP WITH PROTRUDING
        ENDS AND EMBANKMENT SLOPES  (NO WINGWALLS).

ET                              4.1      9885.      10110.
X1   18.445        13.      9992.     10005.        470.       460.       440.
X3      10.                                                                          1297.      1297.
GR   1315.1      9796.     1306.2      9880.       1300.      9920.      1299.5      9978.      1290.      9992.
GR   1287.3     10000.      1290.     10005.       1300.     10040.       1302.     10060.      1303.     10097.
GR    1305.     10200.     1305.6     10310.      1309.4     10330.
1
   18APR06      16:01:36                                                                                                    PAGE    4


SB      0.9       2.34        3.0         0.        6.11        1.0       33.2         0.      1287.7      1287.4
ET                             4.11      9885.      10110.
X1   18.456                                         60.        60.        60.                   0.4
```

ELTRD IS 1198.8+0.7HV = 1199.5

```
X2                          1.     1294.2     1299.5
X3      10.                                                   1298.8     1298.8
BT      10.      9796.    1315.5        0.      9880.    1306.6        0.     9928.     1301.9        0.
BT    9991.      1299.1       0.    10000.     1298.8       0.    10046.    1301.9        0.    10097.
BT   1303.4         0.   10200.     1305.4        0.    10310.     1306.       0.     10330.    1309.8
BT      0.

ET                          4.1     9881.4    10169.8
X1   18.545        21.     9951.    10058.      440.     480.      466.
GR   1324.2      9716.    1323.1     9748.     1324.4    9765.    1321.9    9790.     1318.3     9810.
GR    1317.      9839.    1306.7     9889.     1294.1    9951.    1291.5    9972.     1289.3     9993.
GR   1289.7     10000.    1289.7    10018.     1290.5   10040.    1293.8   10058.     1298.8    10073.
GR   1299.8     10094.    1303.4    10108.     1303.9   10121.     1303.   10135.     1310.1    10182.
GR   1310.2     10194.
```

UPSTREAM GOLF CART CROSSING ON 2 - 72" RCP WITH FLUSH INLETS AND
45 DEGREE WINGWALLS.

```
ET                          4.1     9880.7    10170.8
X1   18.575        21.     9972.    10000.      160.     160.      160.
X3      10.                                                   1297.      1297.
GR   1324.2      9716.    1323.1     9748.     1324.4    9765.    1321.9    9790.     1318.3     9810.
GR    1317.      9839.    1306.7     9889.     1294.1    9951.    1291.5    9972.     1289.3     9993.
GR   1289.7     10000.    1289.7    10018.     1290.5   10040.    1293.8   10058.     1298.8    10073.
GR   1299.8     10094.    1303.4    10108.     1303.9   10121.     1303.   10135.     1310.1    10182.
GR   1310.2     10194.

SB     1.25       1.56       3.0        0.       10.4       1.0      56.5       0.     1289.4     1289.3
ET                         4.11     9876.1    10177.2
X1   18.583                                       40.       40.       40.                  0.1
```

ELTRD IS 1298.4+0.6HV = 1299.0

```
X2                          1.     1295.4      1299.
X3      10.                                                   1298.4     1298.4
BT       9.      9880.     1310.        0.      9965.    1300.        0.    10000.     1298.4        0.
BT   10037.      1300.       0.    10065.      1302.       0.    10085.     1304.        0.    10122.
BT    1306.         0.   10160.     1308.        0.    10170.     1310.       0.
ET                          4.1     9879.6    10134.7
X1   18.640        17.     9955.    10033.      300.     310.      301.
GR   1322.5      9707.    1323.7     9729.     1320.1    9768.    1313.8    9827.     1312.3     9858.
GR   1308.4      9887.    1302.6     9920.     1294.6    9955.    1292.8    9966.     1290.2     9993.
GR   1291.5     10000.    1291.8    10009.     1293.4   10033.    1307.8   10111.      1309.    10132.
GR   1312.1     10153.    1313.2    10167.
```



```
ET                          4.1     9883.2    10111.7
X1   18.734        19.     9938.    10062.      490.     500.      496.
GR   1320.7      9713.    1316.3     9762.     1316.6    9809.    1319.2    9819.     1317.9     9841.
GR   1308.7      9888.    1298.6     9938.     1293.4    9971.    1294.2    9981.     1292.4     9992.
GR   1294.5     10000.    1294.4    10025.     1300.8   10062.     1309.   10094.     1307.6    10104.
GR   1312.9     10124.     1314.    10143.     1317.1   10178.    1319.9   10201.

ET                          4.1     9891.8    10107.
X1   18.832        21.     9929.    10046.      480.     540.      517.
GR   1326.2      9779.     1328.     9788.     1320.6    9826.     1316.    9853.     1312.5     9880.
GR   1302.8      9929.    1296.1     9960.     1293.5    9982.    1293.2   10000.     1293.2    10005.
GR   1294.8     10008.    1295.5    10027.     1297.1   10046.    1307.7   10095.     1314.1    10128.
GR   1314.1     10141.    1317.1    10187.     1320.3   10221.    1319.9   10247.     1318.6    10271.
GR   1319.2     10278.
```

```
ET                          4.1     9887.7    10087.5
X1   18.925       14.     9941.    10048.       480.       500.       491.
GR   1329.1     9741.    1315.9     9866.     1297.6     9941.     1297.3     9960.     1295.3     9989.
GR    1295.    10000.    1296.1    10006.     1295.4    10022.     1294.6    10025.     1296.3    10034.
GR    1300.    10048.    1310.5    10087.     1320.1    10132.     1321.3    10161.

ET                          4.1     9866.3    10038.5
X1   19.018       20.     9903.    10030.       460.       520.       491.
GR    1331.     9681.    1321.2     9775.     1313.9     9847.     1305.1     9903.     1298.1     9930.
GR    1298.     9948.    1298.1     9957.     1297.6     9974.      1299.    10000.     1308.4    10030.
GR   1325.3    10088.     1327.    10101.     1325.5    10109.     1330.2    10118.     1330.9    10124.
GR    1327.    10145.    1326.8    10211.     1328.8    10218.     1332.6    10260.     1331.8    10268.

ET                          4.1     9942.1    10061.9
X1   19.117       10.     9973.    10026.       490.       560.       523.
GR   1333.9     9803.    1331.8     9872.      1323.     9908.     1302.9     9973.     1299.2     9997.
GR   1298.7    10000.    1298.6    10010.     1301.5    10026.     1328.9    10116.      1333.    10144.

ET                          4.1     9923.1    10081.
X1   19.210       16.     9945.    10060.       500.       490.       491.
GR   1333.2     9669.    1330.6     9853.     1328.7     9874.      1312.     9945.      1310.     9954.
GR   1303.8     9978.    1301.4     9991.     1300.2    10000.     1301.3    10010.     1303.4    10026.
GR    1312.    10060.    1321.3    10098.      1327.    10127.     1332.5    10166.     1335.3    10191.
GR   1335.6    10192.

        19TH AVENUE  (SPECIAL BRIDGE)

NC                                   0.3        0.5
QT       2.    14600.    14600.
X1   19.283       12.     9948.    10057.       390.       390.       386.                  11.2
X3      10.                                                                     1324.     1324.
GR   1333.2     9669.    1330.6     9853.     1328.7     9874.      1312.     9945.     1300.5     9948.
GR   1300.5    10057.     1312.    10060.     1321.3    10098.      1327.    10127.     1332.5    10166.
GR   1335.3    10191.    1335.6    10192.
1
   18APR06     16:01:36                                                                                PAGE    6

SB       0.9     1.56        3.                 109.       4.5      1304.        0.     1311.7    1311.7
X1   19.299                                      86.        86.        86.

        ELTRD IS 1324.5+2HV = 1326.5

X2                          1.     1324.2     1326.5
X3      10.                                                                     1325.     1325.
BT       6.     9500.     1326.        0.      9650.     1324.5         0.     9855.     1325.3        0.
BT   10000.    1325.7        0.    10275.     1324.9         0.    10460.     1326.         0.

ET                        10.41
X1   19.313       20.     9932.    10112.        75.        75.        74.
GR    1329.     9853.    1326.7     9859.     1327.6     9866.     1327.9     9932.     1314.5     9968.
GR   1312.2     9980.    1311.7     9988.     1313.1     9996.     1313.1    10000.     1313.4    10017.
GR    1312.    10029.    1313.7    10044.     1311.7    10054.     1313.7    10069.     1325.5    10112.
GR   1325.4    10137.    1324.3    10180.     1324.9    10219.     1325.2    10325.     1326.6    10464.

NC                              0.1        0.3
X1   19.418       19.     9948.    10120.       570.       530.       554.
GR   1330.8     9898.    1328.8     9902.     1330.6     9910.     1330.2     9938.      1328.     9948.
GR   1313.1     9992.    1313.1    10000.      1313.    10004.     1316.1    10022.     1314.6    10058.
GR   1315.5    10076.    1320.1    10094.     1326.1    10120.     1327.6    10138.     1327.5    10186.
GR   1326.2    10276.     1327.    10322.     1328.3    10376.     1328.6    10401.

        SECTION 19.56  IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST
        FORK.  THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE
```

EAST FORK OF CAVE CREEK. THE CONFLUENCE OCCURS AT RM 19.608

```
X1    19.56       17.      9929.     10065.       730.       720.       729.
GR   1346.1     9801.    1329.7      9902.     1329.7      9929.     1316.5      9950.     1316.8      9978.
GR   1315.6    10000.    1315.6     10008.     1316.6     10026.     1316.4     10035.     1317.5     10043.
GR   1330.6    10065.    1330.8     10099.     1330.5     10146.     1330.2     10195.     1330.9     10208.
GR   1331.2    10223.    1332.1     10301.
```

GREENWAY BRIDGE (SPECIAL BRIDGE). LARGE SKEW ACCOUNTED FOR PRIOR TO DATA INPUT BY ADJUSTING BWC ETC. DUE TO COMPLEX CHANNEL GEOMETRY DOWNSTREAM AT THE CONFLUENCE WITH THE EAST FORK, IT WAS MOST APPROPRIATE TO USE THE UPSTREAM SECTION, REPEATED AT THE DOWNSTREAM FACE. GR CARDS FROM SECTION 19.742 ARE REPEATED FOR 19.625 WITH PSXECE = -1.7

```
QT       2.     5700.     5700.
NC   0.035     0.035     0.015       0.3       0.5
X1  19.625       11.      9965.    10025.       580.        70.       364.                  -1.7
X3      10.                                                                   1332.      1332.
GR  1335.7      9834.    1335.1      9893.    1333.4      9922.    1331.8     9937.     1331.6      9948.
GR  1319.3      9965.    1319.3     10025.     1331.     10042.    1339.2    10055.     1337.7     10060.
GR  1338.8     10100.
```

1


```
SB   1.05      1.56        3.       100.        60.        2.       564.        0.     1318.6     1317.6
X1  19.691                                     330.       430.       350.                  1.0
```

ELTRD IS 1332.8+2HV = 1334.8

```
X2                          1.     1328.3     1334.8
X3      10.                                                                   1333.      1333.
ET                        4.1      9953.     10038.
X1  19.742       13.      9948.    10042.        80.       470.       269.
GR  1335.7     9834.    1335.1      9893.    1333.4      9922.    1331.8     9937.     1331.6      9948.
GR  1319.1     9967.    1319.2     10000.    1319.7     10017.    1319.7    10027.      1331.     10042.
GR  1339.2    10055.    1337.7     10060.    1338.8     10100.
NC   0.035     0.035     0.035       0.1       0.3
ET                        4.1      9957.     10043.
X1  19.847       22.      9929.    10062.       570.       520.       554.
GR  1339.8     9621.    1338.7      9726.    1341.6      9738.    1338.8     9759.      1339.      9806.
GR  1337.7     9915.    1336.1      9921.    1336.3      9929.    1320.2     9974.     1318.8      9989.
GR  1320.8    10000.    1320.5     10017.    1321.3     10023.    1328.8    10040.     1335.8     10062.
GR  1336.1    10070.    1336.6     10084.    1335.8     10150.     1336.    10160.     1338.3     10175.
GR  1339.2    10195.    1339.2     10198.
ET                        4.1      9958.     10031.
X1  19.960       24.      9958.    10031.       640.       560.       597.
GR  1340.4     9544.    1339.1      9638.    1336.7      9736.    1337.2     9768.     1338.2      9807.
GR  1338.9     9836.    1338.4      9908.    1340.1      9911.    1337.7     9917.     1339.1      9924.
GR  1337.2     9935.     1330.      9958.    1327.8      9964.    1326.1     9977.     1324.6      9990.
GR  1324.7    10000.    1326.1     10008.    1326.8     10023.     1330.    10031.     1340.6     10059.
GR  1340.8    10072.    1340.7     10099.    1340.1     10194.    1339.9    10251.
```

TIERRA BUENA (SPECIAL BRIDGE)

DUE TO HIGHER DEPTHS THAN ANTICIPATED, XNCH HAS BEEN REDUCED FROM 0.04 (PER MANNINGS n VALUE REPORT) TO 0.035 BETWEEN GREENWAY ROAD AND UNION HILLS DRIVE

```
NC                0.04      0.035       0.3       0.5
ET                           4.1      9969.    10020.
X1   19.974        10.      9969.     10020.      105.       65.       74.
X3      10.                                                          1336.     1336.
GR   1340.1      9911.    1337.7      9917.    1339.1     9924.    1337.2     9935.     1330.     9958.
GR   1323.8      9969.    1323.8     10020.     1330.    10031.    1340.6    10059.    1340.8    10072.

SB     1.25      1.56        3.                   51.        3.       480.        0.    1324.1    1323.8
ET                          4.11      9969.    10020.
X1   19.986                                      61.        61.        61.

        ELTRD IS 1336.9+1HV = 1337.9

X2                           1.     1334.1    1337.9
1
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X3      10.                                                          1337.     1337.
BT       3.      9560.    1340.        0.    10000.    1336.9        0.    10230.     1340.        0.

ET                           4.1      9975.    10025.
X1   20.049        37.      9954.     10027.      305.      345.      333.
X3      10.                                                          1340.
GR   1344.7      9266.    1345.2      9300.    1342.4     9304.    1340.8     9328.    1332.6     9344.
GR   1333.1      9400.    1333.3      9490.     1334.     9563.    1334.8     9606.    1333.2     9728.
GR    1335.      9767.    1331.4      9805.     1331.     9820.    1331.5     9854.    1331.5     9901.
GR   1332.1      9920.    1341.1      9938.    1340.5     9950.    1343.4     9954.    1339.8     9969.
GR   1327.4      9991.    1327.1      9997.    1327.1    10000.    1328.4    10008.    1339.4    10027.
GR    1340.     10047.    1342.3     10075.    1342.4    10097.    1340.2    10114.    1342.3    10131.
GR    1343.     10142.    1341.5     10162.    1342.7    10175.    1342.9    10210.    1343.3    10307.
GR   1342.5     10378.     1343.     10477.

NC                                       0.1       0.3
ET                           4.1      9972.    10029.
X1   20.144        38.      9955.     10025.      490.      500.      502.
X3      10.                                                          1344.
GR   1346.6      9136.    1347.4      9206.    1348.2     9208.    1348.4     9215.    1347.1     9235.
GR   1342.5      9239.    1341.7      9258.    1334.6     9278.     1332.     9297.    1332.6     9357.
GR   1333.7      9417.    1333.1      9457.    1334.1     9479.    1334.9     9499.    1335.3     9554.
GR   1334.4      9582.    1335.7      9631.    1335.6     9698.    1336.1     9745.    1334.6     9779.
GR   1329.6      9788.    1330.5      9820.    1329.4     9847.    1328.5     9881.    1328.5     9912.
GR   1341.6      9931.    1343.1      9951.    1344.6     9955.     1342.     9968.    1330.9     9986.
GR   1330.9     10000.    1330.9     10010.    1340.8    10025.    1342.2    10040.    1345.9    10053.
GR   1346.5     10073.     1347.     10128.     1347.    10198.

ET                           4.1      9964.    10035.
X1   20.242        32.      9953.     10029.      470.      560.      517.
X3      10.                                                          1348.
GR   1346.6      9200.    1347.9      9269.    1348.7     9271.    1348.7     9277.    1346.6     9330.
GR   1347.7      9377.    1342.3      9383.    1342.7     9400.    1332.4     9422.    1333.6     9470.
GR   1333.7      9529.    1334.9      9573.    1334.2     9626.    1334.9     9648.    1335.1     9651.
GR    1336.      9785.     1336.      9842.    1338.6     9846.    1339.3     9895.    1339.2     9935.
GR   1347.2      9953.    1343.7      9970.    1333.3     9988.    1333.7    10000.    1333.5    10012.
GR   1342.8     10029.    1343.2     10041.    1348.3    10061.    1349.2    10076.    1349.9    10107.
GR   1350.1     10201.    1350.3     10202.

ET                           4.1      9963.    10036.
X1   20.335        27.      9958.     10032.      510.      470.       491.
GR   1349.5      9230.    1351.4      9312.    1349.1     9322.    1350.7     9340.     1351.     9476.
GR   1351.2      9592.    1350.4      9726.    1350.1     9808.    1351.1     9820.    1351.4     9850.
GR   1351.8      9928.    1347.7      9950.     1344.     9958.    1337.7     9971.    1337.3     9987.
GR   1337.4     10000.    1338.3     10021.     1344.    10032.     1349.    10042.    1351.8    10056.
GR   1351.1     10100.    1351.6     10141.     1350.    10144.     1350.    10166.     1350.    10240.
GR   1350.8     10328.    1351.4     10406.

        11TH AVENUE  (SPECIAL BRIDGE)
```

```
NC                                    0.3       0.5
X1   20.347      25.     9970.    10021.        1.      150.       63.
X3      10.                                                     1351.5    1351.5
GR   1349.5    9230.    1351.4     9312.   1349.1     9322.   1350.7     9340.     1351.     9476.
GR   1351.2    9592.    1350.4     9726.   1350.1     9808.   1351.1     9820.    1351.4     9850.
GR   1351.8    9928.    1347.7     9950.    1344.     9958.   1337.2     9970.    1337.2    10021.
GR    1344.   10032.     1349.    10042.   1351.8    10056.   1351.1    10100.    1351.6    10141.
GR    1350.   10144.     1350.    10166.    1350.    10240.   1350.8    10328.    1351.4    10406.

SB     1.25     1.56       3.0      100.      51.       3.      576.        0.     1337.7    1337.2
X1   20.366                                 100.      100.      100.

        ELTRD IS 1352.5+2HV = 1354.5

X2                          1.    1349.7   1354.5
X3      10.                                                     1352.5    1352.5

ET                          4.1    9958.   10072.
X1   20.423      21.     9975.    10045.     415.     205.      301.
GR   1354.3    9418.    1353.8     9613.   1355.3     9653.   1354.6     9696.    1353.3     9711.
GR   1353.6    9724.    1353.5     9931.    1352.     9950.    1345.     9975.     1338.    10000.
GR   1339.4   10027.    1339.7    10037.   1344.3    10045.    1345.    10055.    1353.3    10085.
GR   1353.5   10100.    1354.7    10127.   1354.4    10214.   1354.3    10273.    1353.3    10300.
GR   1353.5   10333.

        10TH AVENUE  (SPECIAL BRIDGE)

X1   20.430      20.     9985.    10036.        1.       65.       37.
X3      10.                                                     1352.5    1352.5
GR   1354.3    9418.    1353.8     9613.   1355.3     9653.   1354.6     9696.    1353.3     9711.
GR   1353.6    9724.    1353.5     9931.    1352.     9950.    1345.     9975.    1339.3     9985.
GR   1339.3   10036.    1344.3    10045.    1345.    10055.   1353.3    10085.    1353.5    10100.
GR   1354.7   10127.    1354.4    10214.   1354.3    10273.   1353.3    10300.    1353.5    10333.

SB     1.25     1.56       3.0      100.      51.       3.      576.        0.     1339.3    1339.3
X1   20.444                                  70.       70.       70.

        ELTRD IS 1353.5+2HV = 1355.5

X2                          1.    1351.3   1355.5
X3      10.                                                     1353.5    1353.5

ET                          4.1    9930.   10069.
X1   20.529      19.     9947.    10055.     545.     375.      449.
GR    1354.    9570.    1353.7     9764.   1354.8     9836.    1355.     9885.    1354.7     9898.
GR   1350.7    9910.    1350.2     9947.   1343.4     9963.   1343.4     9990.    1343.3    10000.
GR    1343.   10025.    1348.6    10041.   1350.4    10055.   1350.8    10090.     1355.    10105.
GR   1354.4   10159.     1355.    10192.    1355.    10302.   1355.2    10313.
```



```
NC                                    0.1       0.3
ET                          4.1    9935.   10065.
X1   20.628      16.     9909.    10076.     530.     520.      523.
GR   1357.3    9532.    1357.3     9624.   1356.8     9754.   1357.2     9808.    1357.1     9909.
GR   1351.5    9922.    1350.2     9947.   1343.3     9959.   1343.6     9991.    1343.6    10000.
GR   1343.7   10044.    1356.3    10076.    1357.    10082.   1357.1    10137.    1357.2    10282.
GR    1358.   10337.
```

```
ET                                4.1      9962.     10026.
X1   20.725        20.       9951.     10036.       510.       520.       512.
GR   1360.3      9544.     1361.1      9631.     1361.3      9734.      1361.      9783.      1362.      9858.
GR   1360.8      9940.     1360.4      9951.     1350.4      9970.     1350.4      9981.     1348.3      9984.
GR   1347.4      9992.     1347.2     10000.     1347.4     10010.      1361.     10036.     1363.4     10046.
GR   1363.8     10101.     1364.1     10156.     1364.7     10184.     1365.1     10212.     1364.7     10291.

        PHELPS ROAD  (SPECIAL BRIDGE)

NC                                       0.3        0.5
X1   20.737        16.       9968.     10019.        80.        80.        80.                   3.4
X3      10.                                                                          1363.      1363.
GR   1360.3      9544.     1361.1      9631.     1361.3      9734.      1361.      9783.      1362.      9858.
GR   1360.8      9940.     1360.4      9951.     1347.5      9968.     1347.5     10019.      1361.     10036.
GR   1363.4     10046.     1363.8     10101.     1364.1     10156.     1364.7     10184.     1365.1     10212.
GR   1364.7     10291.

SB    1.25       1.56        3.0       100.        51.         3.       576.         0.     1351.0     1350.9
X1   20.750                                        71.        71.        71.                     0.1

        ELTRD IS 1364+2HV = 1366.0

X2                                1.      1363.      1366.
X3      10.                                                                          1364.      1364.

        BELL ROAD  (SPECIAL BRIDGE)  A SECTION TAKEN UPSTREAM OF BELL ROAD AT
        RM 20.845 IS USED TO MODEL THE BELL ROAD BRIDGE.  GR CARDS ARE REPEATED
        AT THE DOWNSTREAM FACE WITH PSXECE = -0.9.  TO MORE APPROPRIATELY MODEL
        CONTRACTION LOSSES, THE UPSTREAM SECTION IS PRESENTED AT RM 20.860
        INSTEAD OF RM 20.845 WHERE THE AERIAL SECTION WAS TAKEN.

X1   20.819        12.       9965.     10043.       375.       345.       365.                    -0.9
X3      10.                                                                          1366.9     1366.9
GR   1366.5      9554.     1365.4      9663.     1365.5      9777.     1365.5      9846.     1365.3      9942.
GR   1357.4      9965.     1357.4     10043.     1367.6     10066.     1366.2     10107.     1366.2     10146.
GR    1367.     10166.     1367.2     10169.

SB    1.05       1.56        3.0       100.        77.3        3.3       655.         0.     1357.4     1356.5
X1   20.841                                       115.       115.       115.                     0.9

        ELTRD IS 1367.9+2HV = 1369.9

X2                                1.      1365.4      1369.9
```

1


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X3      10.                                                                          1367.9     1367.9

ET                                4.1      9904.     10060.
X1   20.860        14.       9942.     10066.        90.       110.       100.
X3      10.                                                                          1365.3     1367.6
GR    1370.      9800.     1365.5      9801.     1365.5      9846.     1365.3      9942.     1357.8      9975.
GR   1356.3      9991.     1356.4     10000.     1357.2     10015.      1357.     10040.     1367.6     10066.
GR   1366.2     10107.     1366.2     10146.      1367.     10166.     1367.2     10169.

NC    0.04      0.035      0.035        0.1        0.3
ET                                4.1      9860.     10110.
X1   20.942        26.       9854.     10024.       530.       490.       433.
GR   1372.5      9619.     1367.2      9630.     1368.7      9643.     1369.8      9663.     1369.4      9719.
GR   1367.6      9792.     1367.6      9836.     1368.6      9854.     1360.2      9867.     1359.8      9879.
GR   1359.8      9891.     1364.6      9904.     1365.2      9942.     1363.7      9970.      1366.      9977.
GR   1360.3      9998.     1359.6     10000.     1366.5     10024.     1364.7     10027.     1364.5     10053.
GR   1365.7     10070.     1364.5     10114.     1361.6     10153.     1368.3     10171.     1368.3     10194.
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GR   1368.3     10204.

NC     0.04       0.04     0.035
ET                           4.1      9810.     10060.
X1   21.036        19.     9912.     10020.       490.       490.       496.
GR   1376.1      9530.     1372.      9541.      1372.      9561.    1371.3      9665.    1371.9      9728.
GR   1371.6      9758.   1370.9      9867.    1370.7       9912.    1367.3      9917.    1367.5      9952.
GR   1366.3      9980.   1363.5      9994.    1363.6      10000.    1364.3     10009.    1370.4     10020.
GR   1371.2     10041.   1371.2     10075.    1371.8      10089.     1378.     10090.

ET                           4.1      9900.     10060.
X1   21.127        13.     9974.     10067.       400.       500.       480.
X3      10.                                                                    1374.
GR   1378.9      9623.   1373.6      9634.    1373.6       9666.    1373.4      9759.    1373.5      9860.
GR   1373.7      9913.   1374.2      9974.    1366.9       9990.    1366.7     10000.    1367.5     10015.
GR   1367.8     10039.    1375.     10067.     1375.      10077.

ET                           4.1      9900.     10125.
X1   21.230        28.     9967.     10048.       560.       500.       544.
GR   1381.5      9741.   1381.5      9764.    1381.5       9786.    1380.7      9813.    1379.3      9835.
GR   1379.3      9852.   1379.9      9862.    1378.2       9870.    1379.8      9879.    1378.9      9891.
GR   1379.5      9916.   1379.6      9930.    1378.9       9944.    1379.2      9955.    1379.3      9967.
GR   1374.7      9982.   1372.4      9992.     1372.      10000.    1373.2     10014.    1375.6     10023.
GR   1379.3     10037.   1380.6     10048.     1378.      10062.    1377.5     10083.    1377.4     10102.
GR   1377.7     10117.   1377.8     10126.     1385.      10127.

ET                           4.1      9930.     10130.
X1   21.363        55.     9928.     10088.       740.       700.       702.
GR   1384.8      9135.   1384.7      9160.    1383.9       9189.    1384.6      9215.    1383.9      9245.
GR   1384.4      9279.   1383.8      9313.     1384.       9345.    1384.1      9374.    1383.8      9405.
GR   1383.5      9428.   1384.5      9459.     1385.       9498.    1384.7      9527.     1385.      9549.
GR   1382.2      9561.    1381.      9570.    1382.1       9583.    1383.9      9596.    1384.3      9628.
GR   1384.3      9657.    1384.      9697.    1383.6       9739.    1384.1      9779.    1383.9      9811.
GR   1383.1      9822.   1383.6      9848.    1383.3       9886.    1383.5      9907.    1384.1      9916.
GR   1383.2      9922.   1384.4      9928.    1383.6       9939.    1379.2      9954.    1377.7      9977.
GR    1375.      9996.   1374.8     10000.     1375.      10016.    1374.2     10037.    1374.1     10045.
GR   1377.5     10066.   1382.1     10088.    1383.8      10108.     1384.     10125.    1384.5     10147.
1
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GR   1382.7     10174.   1383.2     10202.    1383.1      10224.    1383.1     10245.    1383.3     10265.
GR   1384.3     10285.   1383.4     10301.     1383.      10319.     1383.     10334.     1383.     10337.

ET                           4.1      9852.     10077.
X1   21.484        33.     9932.     10026.       650.       520.       639.
GR   1386.8      9487.   1385.8      9527.    1385.8       9572.    1385.4      9614.    1384.8      9647.
GR   1385.2      9678.   1385.6      9709.    1386.7       9746.    1385.9      9776.    1384.5      9805.
GR   1383.9      9837.   1384.4      9867.     1384.       9892.    1386.5      9919.    1386.9      9932.
GR   1386.2      9943.   1383.5      9964.    1380.2       9970.    1379.7      9988.    1378.5      9994.
GR   1378.6     10000.   1381.2     10014.    1386.5      10026.    1386.6     10053.    1387.8     10056.
GR   1385.5     10060.   1388.2     10068.    1385.8      10075.    1387.4     10079.    1387.4     10101.
GR   1387.6     10116.   1387.5     10131.    1387.4      10134.

ET                           4.1      9940.     10165.
X1   21.576        43.     9980.     10087.       320.       480.       486.
GR   1388.7      9388.   1388.6      9414.    1388.2       9461.    1388.5      9500.    1389.3      9532.
GR   1388.7      9570.   1388.5      9607.    1387.9       9643.    1388.6      9664.    1388.8      9705.
GR   1389.1      9743.   1388.9      9780.     1388.       9821.    1388.4      9852.    1388.7      9889.
GR   1389.1      9922.   1389.7      9952.    1390.1       9968.     1390.      9980.    1382.5      9994.
GR   1382.1     10000.   1382.2     10008.    1383.8      10015.    1385.1     10038.    1385.2     10056.
GR   1384.1     10065.   1384.6     10073.    1388.3      10087.    1387.1     10114.    1387.1     10140.
GR   1387.8     10162.   1387.7     10199.    1388.4      10243.    1388.7     10281.    1389.3     10300.
GR   1390.3     10307.   1389.2     10313.    1390.7      10320.    1387.6     10329.    1388.9     10335.
GR   1389.7     10348.   1390.2     10360.    1390.3      10386.

QT      2.      5500.     5500.
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ET                          4.1      9890.     10115.
X1   21.669        35.     9962.     10031.       440.       470.       491.
GR   1393.2      9392.     1393.      9426.    1392.7      9446.    1392.3      9515.    1392.9      9562.
GR   1392.2      9606.    1392.8      9663.    1392.7      9710.    1393.1      9742.    1393.5      9777.
GR   1393.3      9819.    1392.7      9858.    1392.2      9893.    1391.6      9925.     1392.      9949.
GR   1393.8      9962.    1392.7      9974.    1392.2      9982.     1385.      9989.     1384.      9997.
GR   1384.5     10000.    1385.1     10011.    1388.7     10023.     1392.     10031.    1391.2     10045.
GR    1392.     10074.    1391.7     10124.    1391.9     10182.     1392.     10245.    1392.1     10303.
GR   1391.9     10361.     1392.     10395.    1392.6     10401.    1391.6     10404.    1393.3     10414.

ET                          4.1      9940.     10140.
X1   21.742        25.     9975.     10091.       430.       390.       385.
GR    1396.      9733.    1394.6      9753.    1395.1      9777.     1395.      9802.     1395.      9839.
GR   1395.6      9885.    1395.1      9930.    1395.3      9940.    1394.7      9975.    1387.4      9991.
GR   1386.4     10000.    1386.9     10015.    1392.2     10035.    1391.9     10052.    1389.9     10062.
GR   1391.5     10080.    1394.2     10091.    1394.2     10126.    1394.9     10176.     1395.     10240.
GR   1394.6     10281.    1394.8     10324.    1395.2     10355.    1395.3     10367.    1397.3     10376.

ET                          4.1      9900.     10100.
X1   21.840        22.     9946.     10054.       430.       430.       517.
GR   1401.5      9827.    1402.1      9842.    1397.3      9860.    1395.5      9882.     1395.      9913.
GR   1395.3      9931.    1396.2      9946.    1395.7      9953.    1392.1      9967.    1392.6      9984.
GR   1393.7      9997.    1393.3     10000.    1392.5     10020.    1391.1     10033.    1393.5     10045.
GR    1397.     10054.    1396.5     10097.    1397.3     10145.    1397.8     10186.    1397.5     10227.
GR   1397.6     10273.    1398.3     10308.
1
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ET                          4.1      9830.     10080.
X1   21.895        31.     9975.     10031.       330.       220.       290.
GR   1402.6      9807.    1402.6      9825.    1398.4      9839.    1397.2      9857.    1396.7      9885.
GR   1396.7      9919.    1397.7      9939.    1397.9      9960.     1398.      9975.    1397.1      9981.
GR    1393.      9990.    1391.9     10000.    1392.3     10010.     1394.     10021.    1397.7     10031.
GR   1398.6     10046.     1399.     10078.    1398.4     10113.    1398.6     10149.    1398.7     10187.
GR   1398.5     10225.    1398.1     10251.    1398.6     10292.    1398.6     10333.    1399.3     10364.
GR   1398.8     10399.    1399.5     10428.    1400.5     10446.    1400.5     10458.    1399.7     10463.
GR   1400.9     10470.
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UNION HILLS RD: PIPES BENEATH LOW CROSSING WERE MODELLED AS AN AREA (BAREA) WITH AN ORIFICE COEFFICIENT. THE 100 YEAR FLOW THROUGH THE PIPES WAS NEGLIGIBLE (18 CFS). UNION HILLS IS THEREFORE MORE APPROPRIATELY MODELLED AS A NORMAL SECTION USING GR CARDS.

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ET                          4.1      9650.     10070.
X1   21.933        12.     9865.     10140.       210.       210.       210.
GR    1402.      9060.    1400.3      9440.     1400.      9590.     1398.      9680.    1397.4      9725.
GR    1398.      9780.    1399.4      9840.     1398.      9865.    1396.8     10000.     1398.     10140.
GR    1400.     10285.     1406.     10286.

NC    0.045      0.045     0.045
ET                          4.1      9630.     10051.
X1   21.953        39.     9969.     10029.        75.        75.        74.
GR    1402.      9320.    1400.5      9487.    1400.8      9527.    1401.4      9557.    1400.2      9580.
GR   1401.7      9599.    1401.1      9621.    1400.2      9647.    1399.6      9678.    1398.8      9699.
GR   1398.3      9714.    1397.6      9720.    1396.6      9725.    1398.8      9735.    1399.3      9745.
GR   1398.8      9759.    1397.3      9768.    1398.9      9782.    1398.9      9810.    1400.1      9832.
GR   1402.1      9851.    1401.7      9870.    1403.3      9884.    1403.7      9893.    1403.4      9912.
GR   1402.3      9939.     1401.      9956.    1399.7      9965.    1400.2      9969.    1395.6      9986.
GR   1394.4      9997.    1394.1     10000.     1394.     10010.    1394.9     10018.    1398.3     10029.
GR   1400.1     10044.    1401.6     10058.    1401.4     10064.     1407.     10065.

ET                          4.1      9620.     10030.
X1   22.065        39.     9961.     10028.       430.       630.       591.
GR   1404.2      9230.     1404.      9250.     1402.      9270.     1402.      9500.    1403.1      9594.
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GR   1403.6      9604.    1400.4      9627.    1400.1      9645.    1400.6      9657.    1400.3      9680.
GR   1400.5      9700.    1401.9      9717.    1403.3      9731.    1403.7      9746.    1403.9      9761.
GR   1400.1      9776.     1400.      9785.    1401.1      9796.     1401.      9816.    1403.7      9829.
GR   1403.7      9843.    1400.7      9861.    1399.7      9869.    1402.7      9890.    1403.5      9899.
GR   1404.1      9915.    1404.8      9934.    1403.6      9950.    1404.1      9961.    1401.4      9977.
GR    1398.      9989.    1395.8      9995.    1395.8     10000.    1395.9     10006.    1399.4     10010.
GR    1402.     10028.    1402.6     10043.    1406.6     10061.    1407.1     10085.

ET                          4.1      9620.    10020.
X1   22.165        63.    9983.     10018.      530.       530.      528.
GR    1406.      9130.    1405.2      9138.     1405.      9151.    1404.4      9164.    1402.8      9176.
GR   1402.7      9184.    1400.8      9204.    1399.8      9213.    1399.3      9222.    1401.2      9232.
GR    1403.      9256.    1403.8      9282.    1403.8      9308.    1404.3      9334.    1404.2      9364.
GR   1404.1      9396.     1404.      9425.    1404.9      9463.    1405.2      9499.    1405.3      9526.
GR   1404.9      9548.    1403.8      9565.    1402.8      9579.    1404.6      9595.    1404.8      9608.
GR   1402.4      9624.     1400.      9637.    1399.7      9645.    1400.6      9657.     1402.      9669.
1
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GR   1403.1      9686.    1404.5      9701.    1405.8      9714.    1406.2      9728.    1406.1      9741.
GR    1404.      9753.    1403.8      9760.    1405.2      9772.    1405.6      9784.    1405.3      9793.
GR   1402.9      9806.    1402.7      9820.    1402.6      9834.    1402.6      9843.    1401.8      9849.
GR   1401.9      9862.    1402.8      9872.    1403.8      9876.     1405.      9894.    1406.1      9909.
GR   1405.4      9919.    1403.1      9930.     1403.      9946.    1402.1      9967.    1400.9      9983.
GR   1395.3      9994.     1395.     10000.    1396.1     10007.    1403.7     10018.    1404.8     10038.
GR   1405.2     10053.    1405.2     10060.    1405.7     10065.

ET                          4.1      9650.    10027.
X1   22.273        57.    9933.     10028.      470.       580.      570.
GR   1418.7      9227.    1418.7      9238.    1412.4      9262.    1411.6      9274.    1410.9      9284.
GR    1409.      9292.    1407.6      9300.    1407.3      9314.    1406.3      9325.    1403.5      9335.
GR   1403.1      9344.     1403.      9350.    1404.3      9359.    1405.4      9369.    1405.8      9386.
GR   1406.7      9408.    1407.1      9427.    1407.4      9444.    1407.2      9460.    1406.4      9473.
GR   1406.5      9485.    1406.9      9502.    1407.7      9520.    1408.2      9532.    1407.1      9558.
GR   1404.4      9574.    1404.3      9598.     1406.      9622.     1407.      9657.    1407.3      9686.
GR   1406.2      9708.    1406.4      9727.    1406.4      9745.    1405.6      9754.    1402.6      9766.
GR   1402.8      9774.    1406.7      9789.    1409.4      9801.    1408.5      9827.    1407.9      9851.
GR   1408.8      9869.    1406.3      9887.     1407.      9902.     1404.      9915.    1404.1      9933.
GR   1403.2      9948.    1401.8      9961.    1400.6      9977.    1400.1      9992.    1399.4      9999.
GR   1399.8     10000.    1401.2     10011.     1404.     10021.    1406.9     10028.     1408.     10050.
GR   1408.3     10080.    1408.7     10109.

ET                          4.1      9860.    10040.
X1   22.410        25.    9973.     10027.      750.       630.      723.
GR    1420.      9802.    1419.1      9817.    1418.8      9825.    1415.8      9838.    1414.8      9850.
GR   1412.6      9867.    1413.9      9879.     1412.      9890.    1413.4      9903.    1414.5      9914.
GR   1416.1      9922.     1414.      9931.    1412.4      9941.    1411.4      9954.    1411.2      9967.
GR   1410.7      9973.    1405.7      9987.    1404.9      9997.     1404.     10000.    1404.7     10007.
GR   1407.6     10017.    1411.3     10027.    1413.5     10042.    1413.8     10057.    1414.4     10071.

ET                          4.1      9890.    10050.
X1   22.483        19.    9941.     10105.      380.       390.      385.
GR    1421.      9823.    1420.2      9843.    1416.7      9873.    1414.4      9891.    1413.1      9915.
GR   1411.1      9941.    1407.8      9961.    1406.2      9984.    1405.5     10000.    1405.5     10027.
GR   1406.4     10056.    1408.3     10084.    1411.2     10105.    1412.3     10120.    1412.6     10138.
GR   1412.6     10156.    1411.9     10175.    1412.7     10191.    1419.8     10208.

ET                          4.1      9925.    10055.
X1   22.500        24.    9650.     10090.      110.        95.      103.
X3       10
GR   1423.5    9020.0    1416.0    9050.0    1414.0      9350.    1412.0      9390.    1410.0    9400.0
GR   1412.0      9410.    1414.0      9465.    1414.0      9570.     1416.      9610.     1418.      9650.
GR   1416.0      9710.    1414.0      9775.    1414.0      9900.     1416.      9905.     1416.      9930.
GR   1414.0      9950.     1406.      9975.    1405.8     10000.     1406.     10030.     1408.     10080.
GR   1412.0     10090.     1414.     10235.    1416.0     10255.     1420.     10270.
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ET                          4.1      9968.     10064.
X1   22.578       13.      9968.     10072.       415.       395.       400.
GR   1417.2     9914.     1417.6      9942.     1416.4      9958.     1416.6      9968.     1406.7      9983.
GR   1406.7     9993.     1407.5     10000.     1408.5     10024.     1408.5     10040.     1408.8     10050.
GR   1415.6    10063.     1421.2     10072.     1421.4     10090.
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ET                          4.1      9830.     10028.
X1   22.675       19.      9736.     10032.       570.       480.       512.
GR   1419.9     9671.     1419.9      9710.     1419.8      9736.     1410.6      9759.     1411.1      9783.
GR   1410.6     9809.     1409.7      9828.     1410.8      9850.     1411.5      9873.     1413.4      9892.
GR   1412.2     9922.      1411.      9950.      1411.      9976.     1410.7     10000.     1410.6     10015.
GR    1420.    10032.     1428.3     10047.     1426.6     10055.      1426.     10060.

ET                          4.1      9977.     10160.
X1   22.794       20.      9983.     10169.       460.       500.       628.
GR   1420.6     9968.     1417.8      9983.     1413.6      9998.     1412.4     10000.     1412.3     10013.
GR   1410.7    10041.     1411.6     10065.     1413.7     10080.     1413.8     10103.     1414.2     10119.
GR   1411.7    10136.     1413.8     10151.     1416.1     10169.     1417.2     10189.     1420.3     10202.
GR   1423.1    10219.      1427.     10244.     1429.9     10261.     1429.8     10278.     1429.8     10282.

ET                          4.1      9951.     10120.
X1   22.880       34.      9927.     10167.       440.       480.       454.
GR   1427.3     9791.      1427.      9807.     1426.5      9815.     1424.8      9827.     1424.6      9838.
GR   1424.8     9863.     1424.8      9883.     1424.5      9903.     1424.7      9917.     1426.4      9927.
GR   1423.9     9934.     1421.4      9947.     1418.5      9958.     1416.1      9968.      1415.      9984.
GR    1414.     9999.     1414.3     10000.     1414.5     10012.     1415.2     10024.     1416.1     10048.
GR   1416.5    10067.     1416.4     10101.     1416.2     10125.     1415.5     10143.     1413.2     10152.
GR    1413.    10156.     1414.8     10160.     1424.2     10167.     1426.6     10188.     1428.4     10200.
GR   1430.9    10214.     1433.5     10230.     1433.8     10241.     1433.5     10248.

ET                          4.1      9890.     10026.
X1   22.990       35.      9739.     10034.       480.       530.       581.
GR   1427.7     9668.     1427.6      9697.     1425.6      9719.     1425.3      9730.     1425.4      9739.
GR   1423.9     9751.     1422.5      9767.     1422.4      9785.     1421.5      9804.     1421.3      9817.
GR   1421.3     9829.     1420.8      9843.     1419.5      9855.     1418.9      9864.     1417.9      9873.
GR   1419.4     9886.      1420.      9903.     1420.6      9921.     1420.8      9935.     1420.3      9949.
GR    1420.     9963.     1419.1      9977.     1419.1      9995.     1419.1     10000.     1418.7     10014.
GR   1420.3    10020.     1427.9     10034.     1427.3     10044.     1428.3     10060.     1430.5     10076.
GR   1435.7    10094.     1437.4     10108.     1438.7     10119.     1436.3     10126.     1435.1     10133.

ET                          4.1      9958.     10090.
X1   23.097       48.      9951.     10121.       640.       490.       565.
GR   1433.9     9713.     1433.9      9740.     1433.8      9758.     1432.3      9772.     1432.1      9778.
GR   1433.5     9794.     1433.5      9811.     1433.5      9835.     1433.4      9849.     1431.1      9864.
GR    1430.     9878.     1430.1      9885.      1431.      9892.     1429.6      9901.     1429.1      9916.
GR   1429.6     9925.     1431.3      9935.     1432.2      9945.     1432.3      9951.     1427.9      9964.
GR   1426.4     9977.     1425.6      9988.     1425.1      9999.     1425.1     10000.      1426.     10012.
GR   1426.1    10021.     1426.5     10044.     1426.5     10063.     1426.5     10073.     1426.5     10082.
GR   1425.5    10093.     1426.4     10101.     1428.5     10112.     1430.8     10121.     1430.1     10135.
GR    1430.    10150.     1431.6     10163.     1432.8     10176.      1433.     10198.     1432.7     10221.
GR   1431.6    10247.     1430.9     10267.     1430.6     10286.     1431.5     10296.     1433.4     10310.
GR   1438.3    10337.     1439.7     10353.     1440.5     10363.
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

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 *PROF 1
0

 CCHV=     .100 CEHV=     .300
 *SECNO 17.588
    17.588     14.09   1283.69       .00   1283.69   1284.02       .33       .00       .00   1278.10
   15400.0    3410.6   11671.0     318.3    1017.0    2337.7     133.8        .0        .0   1276.40
       .00      3.35      4.99      2.38      .040      .040      .040      .000   1269.60   9777.93
   .000750      440.      496.      560.         0         0         0       .00    451.78  10229.71

 FLOW DISTRIBUTION FOR SECNO=     17.59          CWSEL=   1283.69

 STA=    9778.    9835.    9854.    9873.    9909.    9982.   10193.   10230.
   PER Q=      6.7      5.2      4.0      3.9      2.5     75.8      2.1
    AREA=    307.3    177.5    152.8    192.6    187.0   2337.7    133.8
     VEL=      3.3      4.5      4.0      3.1      2.0      5.0      2.4
   DEPTH=      5.4      9.3      8.0      5.3      2.6     11.1      3.6

 *SECNO 17.662

 3301 HV CHANGED MORE THAN HVINS


 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =    .50

    17.662     12.22   1283.82       .00       .00   1284.71       .89       .52       .17   1276.40
   15400.0    3988.7   11364.7      46.6     605.8    1441.9      21.3      24.8       3.4   1281.60
       .01      6.58      7.88      2.19      .040      .040      .040      .000   1271.60   9829.44
   .003036      380.      391.      400.         2         0         0       .00    319.71  10149.15

 FLOW DISTRIBUTION FOR SECNO=     17.66          CWSEL=   1283.82

 STA=    9829.    9835.    9844.    9871.    9911.    9941.   10130.   10149.
   PER Q=       .0       .9      5.6      9.3     10.1     73.8       .3
    AREA=      3.1     30.8    139.7    223.0    209.2   1441.9     21.3
     VEL=      1.4      4.3      6.1      6.4      7.5      7.9      2.2
   DEPTH=       .6      3.4      5.2      5.6      7.0      7.6      1.1

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

 *SECNO 17.783

 3301 HV CHANGED MORE THAN HVINS


 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =    .66

    17.783     10.18   1285.58       .00       .00   1287.86      2.28      2.74       .42   1280.50
   15400.0     296.5   14381.2     722.3      52.5    1157.6     106.7      48.6       7.0   1281.10
       .03      5.65     12.42      6.77      .040      .040      .040      .000   1275.40   9900.35
   .006939      540.      639.      500.         3         0         0       .00    201.37  10101.72

 FLOW DISTRIBUTION FOR SECNO=     17.78          CWSEL=   1285.58

 STA=    9900.    9921.   10064.   10074.   10097.   10102.
   PER Q=      1.9     93.4      2.4      2.3       .0
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   AREA=      52.5    1157.6      43.8      60.5       2.3
    VEL=       5.7      12.4       8.3       5.9       1.9
  DEPTH=       2.5       8.1       4.4       2.6        .5

*SECNO 17.932

3301 HV CHANGED MORE THAN HVINS

    17.932     13.08   1290.98   1290.58       .00   1294.60      3.62      6.34       .40   1289.70
   15400.0      60.0   15314.7      25.3      22.4    1000.3      10.3      69.9      10.3   1290.20
       .04      2.68     15.31      2.46      .040      .040      .040      .000   1277.90   9921.07
   .009453      790.      787.      780.         5        11         0       .00    164.24  10085.31


FLOW DISTRIBUTION FOR SECNO=     17.93          CWSEL=   1290.98

STA=    9921.    9956.   10066.   10083.   10085.
  PER Q=       .4     99.4       .2       .0
   AREA=     22.4   1000.3      9.9       .4
    VEL=      2.7     15.3      2.5      1.2
  DEPTH=       .6      9.1       .6       .2

CCHV=     .300 CEHV=     .500
1
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


*SECNO 18.042

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.53

    18.042     12.01   1294.31       .00       .00   1298.14      3.83      3.43       .10   1307.40
   15400.0        .0   15400.0        .0        .0     980.7        .0      83.3      12.1   1307.40
       .05       .00     15.70       .00      .000      .025      .000      .000   1282.30   9951.61
   .004040      620.      581.      550.         4         0         0       .00     96.76  10048.37


FLOW DISTRIBUTION FOR SECNO=     18.04          CWSEL=   1294.31

STA=    9952.   10049.
  PER Q=    100.0
   AREA=    980.7
    VEL=     15.7
  DEPTH=     10.1


SPECIAL BRIDGE

SB  XK        XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.05      1.56       3.00        .00     75.00       4.00    1059.00       .81    1280.20    1279.90

*SECNO 18.061

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW


 EGPRS      EGLWC      H3         QWEIR      QPR        BAREA      TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                      AREA
   1299.43   1299.04     1.15        0.    15400.     1059.      1060.      1293.20    1301.60        0.
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   18.061     13.34   1296.44       .00       .00   1299.43      2.99      1.29       .00   1308.20
  15400.0        .0   15400.0        .0        .0    1109.9        .0      85.7      12.3   1308.20
      .06       .00     13.88       .00      .000      .025      .000      .000   1283.10   9951.54
  .002757      101.      101.      101.         4         0         0       .00     96.89  10048.43

FLOW DISTRIBUTION FOR SECNO=     18.06          CWSEL=   1296.44
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

STA=    9952.   10049.
  PER Q=    100.0
   AREA=   1109.9
    VEL=     13.9
  DEPTH=     11.5

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.03

   18.081     18.44   1299.54       .00       .00   1300.24       .71       .13       .69   1286.60
  15400.0    1235.5   12528.7    1635.8     321.6    1737.8     383.5      90.0      12.7   1284.90
      .06      3.84      7.21      4.27      .035      .035      .035      .000   1281.10   9876.94
  .000672       80.      106.      130.         3         0         0       .00    229.58  10106.51

FLOW DISTRIBUTION FOR SECNO=     18.08          CWSEL=   1299.54

STA=    9877.    9899.    9942.   10045.   10088.   10107.
  PER Q=       .1      7.9     81.4     10.5       .2
   AREA=     14.7    306.9   1737.8    362.8     20.7
    VEL=       .8      4.0      7.2      4.4      1.2
  DEPTH=       .7      7.1     16.9      8.4      1.1

CCHV=     .100 CEHV=     .300
*SECNO 18.174
   18.174     18.52   1300.22       .00       .00   1300.52       .30       .24       .04   1288.70
  15400.0    1569.9   11409.1    2421.0     475.1    2330.4    1163.1     126.2      17.3   1294.60
      .09      3.30      4.90      2.08      .035      .035      .035      .000   1281.70   9856.87
  .000364      500.      491.      490.         2         0         0       .00    597.84  10454.71

FLOW DISTRIBUTION FOR SECNO=     18.17          CWSEL=   1300.22

STA=    9857.    9904.    9915.    9919.   10073.   10142.   10182.   10236.   10455.
  PER Q=      5.0      3.9      1.3     74.1      4.6      4.8      4.1      2.3
   AREA=    288.0    138.3     48.9   2330.4    313.6    260.8    268.3    320.4
    VEL=      2.6      4.4      4.1      4.9      2.2      2.8      2.4      1.1
  DEPTH=      6.1     12.6     12.2     15.1      4.5      6.5      5.0      1.5
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 18.269

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

18.269	16.37	1300.17	.00	.00	1300.93	.76	.27	.14	1288.40
15400.0	2261.7	12456.3	682.0	445.5	1677.2	198.9	162.4	22.1	1292.40
.11	5.08	7.43	3.43	.035	.035	.035	.000	1283.80	9881.86
.000901	500.	502.	500.	2	0	0	.00	228.73	10110.59

FLOW DISTRIBUTION FOR SECNO= 18.27 CWSEL= 1300.17

STA=	9882.	9928.	9942.	10060.	10071.	10111.
PER Q=	7.5	7.2	80.9	2.3	2.1	
AREA=	278.5	166.9	1677.2	76.7	122.2	
VEL=	4.1	6.7	7.4	4.6	2.7	
DEPTH=	6.0	11.9	14.2	7.0	3.1	

*SECNO 18.362

18.362	15.24	1300.54	.00	.00	1301.51	.97	.51	.06	1290.00
15400.0	1154.3	13225.2	1020.5	240.2	1585.2	239.3	187.2	24.6	1290.60
.13	4.80	8.34	4.26	.035	.035	.035	.000	1285.30	9895.20
.001223	490.	491.	510.	2	0	0	.00	212.97	10108.18

FLOW DISTRIBUTION FOR SECNO= 18.36 CWSEL= 1300.54

STA=	9895.	9905.	9942.	10060.	10108.
PER Q=	.1	7.4	85.9	6.6	
AREA=	9.5	230.7	1585.2	239.3	
VEL=	1.4	4.9	8.3	4.3	
DEPTH=	1.0	6.2	13.4	5.0	

*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

18.445	18.09	1305.39	1305.39	.00	1307.48	2.09	.94	.34	1290.00
15400.0	5165.6	3758.3	6476.1	569.9	217.6	715.8	205.8	27.8	1290.00
.14	9.06	17.27	9.05	.035	.035	.035	.000	1287.30	9885.22
.004315	470.	440.	460.	20	11	0	.00	386.47	10271.68

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 18.44 CWSEL= 1305.39

STA=	9885.	9920.	9978.	9992.	10005.	10040.	10060.	10097.	10200.	10272.
PER Q=	3.3	18.8	11.5	24.4	30.6	4.3	3.9	3.2	.1	
AREA=	93.8	327.2	149.0	217.6	363.7	87.8	107.0	143.3	14.0	

VEL=	5.4	8.8	11.9	17.3	12.9	7.5	5.7	3.5	.9
DEPTH=	2.7	5.6	10.6	16.7	10.4	4.4	2.9	1.4	.2

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	2.34	3.00	.00	6.11	1.00	33.20	.00	1287.70	1287.40

*SECNO 18.456

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.46

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
9123.38	1308.44	.96	15108.	298.	33.	33.	1294.20	1299.50	458.

18.456	19.61	1307.31	.00	.00	1308.31	1.00	.83	.00	1290.40
15400.0	5168.4	2970.6	7261.0	741.4	237.5	1182.5	208.3	28.3	1290.40
.14	6.97	12.51	6.14	.035	.035	.035	.000	1287.70	9873.21
.002014	60.	60.	60.	3	0	8	.00	443.73	10316.94

FLOW DISTRIBUTION FOR SECNO= 18.46 CWSEL= 1307.31

STA=	9873.	9880.	9920.	9978.	9992.	10005.	10040.	10060.	10097.	10200.	10310.	10317.
PER Q=	.0	4.6	19.1	9.8	19.3	26.2	4.8	5.4	7.6	3.0	.0	
AREA=	2.4	152.8	415.8	170.4	237.5	417.2	118.4	163.5	300.7	178.1	4.6	
VEL=	1.0	4.6	7.1	8.9	12.5	9.7	6.2	5.1	3.9	2.6	1.4	
DEPTH=	.4	3.8	7.2	12.2	18.3	11.9	5.9	4.4	2.9	1.6	.7	

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.09

18.545	18.98	1308.28	.00	.00	1308.76	.47	.39	.05	1294.10
15400.0	1745.2	11300.0	2354.7	495.0	1857.3	682.4	236.0	32.3	1293.80
.17	3.53	6.08	3.45	.035	.035	.035	.000	1289.30	9881.31
.000460	440.	466.	480.	2	0	0	.00	288.68	10169.98

FLOW DISTRIBUTION FOR SECNO= 18.55 CWSEL= 1308.28

STA=	9881.	9889.	9951.	10058.	10073.	10094.	10108.	10121.	10135.	10170.
PER Q=	.0	11.3	73.4	5.4	4.8	1.9	1.0	1.1	1.0	
AREA=	6.1	488.9	1857.3	179.8	188.7	93.6	60.3	67.7	92.4	
VEL=	.8	3.6	6.1	4.6	3.9	3.2	2.5	2.6	1.7	

DEPT	.8	7.9	17.4	12.0	9.0	6.7	4.	4.8	2.6

*SECNO 18.575

18.575	19.13	1308.43	.00	.00	1308.83	.41	.07	.01	1291.50
15400.0	3584.2	3152.3	8663.5	833.2	511.1	1731.9	247.2	33.3	1289.70
.18	4.30	6.17	5.00	.035	.035	.035	.000	1289.30	9880.61
.000442	160.	160.	160.	2	0	0	.00	290.32	10170.93

FLOW DISTRIBUTION FOR SECNO= 18.58 CWSEL= 1308.43

STA=	9881.	9951.	9972.	10000.	10018.	10040.	10058.	10073.	10094.	10135.	10171.
PER Q=	11.4	11.8	20.5	13.8	16.2	10.8	5.4	4.8	4.1	1.1	
AREA=	505.0	328.2	511.1	337.1	403.2	293.0	181.9	191.7	227.4	97.5	
VEL=	3.5	5.5	6.2	6.3	6.2	5.7	4.5	3.9	2.8	1.7	
DEPTH=	7.2	15.6	18.3	18.7	18.3	16.3	12.1	9.1	5.5	2.7	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	10.40	1.00	56.50	.00	1289.40	1289.30

*SECNO 18.583
PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
3108.06	1308.92	.09	14974.	431.	57.	56.	1295.40	1299.00	288.

18.583	20.10	1309.50	.00	.00	1309.84	.34	1.00	.00	1291.60
15400.0	3685.4	3046.3	8668.3	924.1	538.2	1900.7	250.2	33.6	1289.80
.18	3.99	5.66	4.56	.035	.035	.035	.000	1289.40	9875.91
.000347	40.	40.	40.	2	0	7	.00	301.44	10177.35

FLOW DISTRIBUTION FOR SECNO= 18.58 CWSEL= 1309.50

STA=	9876.	9951.	9972.	10000.	10018.	10040.	10058.	10073.	10094.	10121.	10177.
PER Q=	12.3	11.6	19.8	13.3	15.7	10.5	5.4	5.1	3.4	2.9	
AREA=	575.5	348.5	538.2	354.6	424.5	310.5	196.5	212.0	183.9	218.7	
VEL=	3.3	5.1	5.7	5.8	5.7	5.2	4.2	3.7	2.8	2.0	
DEPTH=	7.7	16.6	19.2	19.7	19.3	17.2	13.1	10.1	6.8	3.9	

*SECNO 18.640

18.640	19.23	1309.43	.00	.00	1310.07	.64	.14	.09	1294.60
15400.0	2345.6	9850.5	3203.9	512.4	1350.9	710.6	271.0	35.5	1293.40
.19	4.58	7.29	4.51	.035	.035	.035	.000	1290.20	9879.37
.000663	300.	301.	310.	2	0	0	.00	255.52	10134.89

FLOW DISTRIBUTION FOR SECNO= 18.64 CWSEL= 1309.43

STA=	9879.	9887.	9920.	9955.	10033.	10111.	10132.	10135.
PER Q=	.0	2.3	12.9	64.0	20.6	.2	.0	

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   AREA=       3.9     129.6     378.9    1350.9     688.5      21.6        .6
    VEL=        .7       2.7       5.3       7.3       4.6       1.1        .4
  DEPTH=        .5       3.9      10.8      17.3       8.8       1.0        .2
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 18.734
   18.734     17.28   1309.68       .00       .00   1310.53       .84       .40       .06   1298.60
  15400.0    1314.3   13486.7     599.0     303.8    1747.6     174.8     298.3      38.3   1300.80
      .21      4.33      7.72      3.43      .035      .035      .035      .000   1292.40   9883.01
 .000985      490.      496.      500.         0         0         0       .00    228.83  10111.84

FLOW DISTRIBUTION FOR SECNO=     18.73          CWSEL=   1309.68

STA=    9883.    9888.    9938.   10062.   10094.   10104.   10112.
  PER Q=       .0       8.5      87.6       3.7        .1        .1
   AREA=      2.4     301.3    1747.6     152.9      13.8       8.1
    VEL=       .8       4.4       7.7       3.7       1.6       1.3
  DEPTH=       .5       6.0      14.1       4.8       1.4       1.0

*SECNO 18.832
   18.832     16.99   1310.19       .00       .00   1311.04       .85       .51       .00   1302.80
  15400.0    437.5   12951.8    2010.7     137.9    1657.8     397.7     324.5      40.9   1297.10
      .23      3.17      7.81      5.06      .035      .035      .035      .000   1293.20   9891.67
 .001003      480.      517.      540.         2         0         0       .00    216.17  10107.84

FLOW DISTRIBUTION FOR SECNO=     18.83          CWSEL=   1310.19

STA=    9892.    9929.   10046.   10095.   10108.
  PER Q=      2.8      84.1      12.9        .2
   AREA=    137.9    1657.8     381.7      16.0
    VEL=      3.2       7.8       5.2       1.5
  DEPTH=      3.7      14.2       7.8       1.2

*SECNO 18.925
   18.925     16.04   1310.64       .00       .00   1311.60       .97       .53       .03   1297.60
  15400.0    1711.9   12782.4     905.7     348.3    1523.8     210.1     348.6      43.3   1300.00
      .25      4.92      8.39      4.31      .035      .035      .035      .000   1294.60   9887.57
 .001144      480.      491.      500.         2         0         0       .00    200.07  10087.64

FLOW DISTRIBUTION FOR SECNO=     18.92          CWSEL=   1310.64

STA=    9888.    9941.   10048.   10087.
  PER Q=     11.1      83.0       5.9
   AREA=    348.3    1523.8     210.1
    VEL=      4.9       8.4       4.3
  DEPTH=      6.5      14.2       5.4
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST
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*SECNO 19.018

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

19.018	13.29	1310.89	.00	.00	1312.69	1.80	.84	.25	1305.10
15400.0	489.5	14883.1	27.4	106.9	1362.9	10.7	368.5	45.4	1308.40
.26	4.58	10.92	2.56	.035	.035	.035	.000	1297.60	9866.12
.002864	460.	491.	520.	2	0	0	.00	172.44	10038.56

FLOW DISTRIBUTION FOR SECNO= 19.02 CWSEL= 1310.89

STA=	9866.	9903.	10030.	10039.
PER Q=	3.2	96.6	.2	
AREA=	106.9	1362.9	10.7	
VEL=	4.6	10.9	2.6	
DEPTH=	2.9	10.7	1.2	

*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

19.117	13.89	1312.49	1312.49	.00	1316.85	4.37	2.18	.77	1302.90
15400.0	1414.2	11917.8	2068.0	148.6	652.4	198.2	383.4	47.1	1301.50
.27	9.52	18.27	10.43	.035	.035	.035	.000	1298.60	9942.00
.006608	490.	523.	560.	20	8	0	.00	120.09	10062.09

FLOW DISTRIBUTION FOR SECNO= 19.12 CWSEL= 1312.49

STA=	9942.	9973.	10026.	10062.
PER Q=	9.2	77.4	13.4	
AREA=	148.6	652.4	198.2	
VEL=	9.5	18.3	10.4	
DEPTH=	4.8	12.3	5.5	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.61

19.210	16.99	1317.19	.00	.00	1319.01	1.82	1.90	.25	1312.00
15400.0	227.0	14955.2	217.8	57.2	1364.2	55.0	397.4	48.7	1312.00
.28	3.97	10.96	3.96	.035	.035	.035	.000	1300.20	9922.94
.002538	500.	491.	490.	3	0	0	.00	158.26	10081.20

FLOW DISTRIBUTION FOR SECNO= 19.21 CWSEL= 1317.19

STA=	9923.	9945.	10060.	10081.
PER Q=	1.5	97.1	1.4	
AREA=	57.2	1364.2	55.0	
VEL=	4.0	11.0	4.0	
DEPTH=	2.6	11.9	2.6	

CCHV= .300 CEHV= .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1324.00 ELREA= 1324.00

19.283	8.22	1319.92	1319.92	.00	1324.04	4.12	1.64	1.15	1311.70
14600.0	.0	14600.0	.0	.0	896.1	.0	407.9	49.9	1311.70
.29	.00	16.29	.00	.000	.035	.000	.000	1311.70	9948.00
.008876	390.	386.	390.	20	11	0	.00	109.00	10057.00

FLOW DISTRIBUTION FOR SECNO= 19.28 CWSEL= 1319.92

STA=	9948.	10057.
PER Q=	100.0	
AREA=	896.1	
VEL=	16.3	
DEPTH=	8.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1318.71 , NOT 1319.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	.00	109.00	4.50	1304.00	.00	1311.70	1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1320.16 BRIDGE VELOCITY= 16.51 CALCULATED CHANNEL AREA= 884.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1322.96	1324.65	.00	0.	14600.	1304.	1306.	1324.20	1326.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1325.00 ELREA= 1325.00

19.299	10.36	1322.06	.00	.00	1324.65	2.60	.61	.00	1311.70
14600.0	.0	14600.0	.0	.0	1128.7	.0	409.9	50.1	1311.70
.29	.00	12.94	.00	.000	.035	.000	.000	1311.70	9948.00
.004112	86.	86.	86.	0	0	0	.00	109.00	10057.00

FLOW DISTRIBUTION FOR SECNO= 19.30 CWSEL= 1322.06

STA= 9948. 10057.
PER Q= 100.0
AREA= 1128.7
VEL= 12.9
DEPTH= 10.4

*SECNO 19.313

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

19.313	11.61	1323.31	.00	.00	1325.17	1.87	.30	.22	1327.90
14600.0	.0	14600.0	.0	.0	1330.9	.0	412.0	50.3	1325.50
.29	.00	10.97	.00	.000	.035	.000	.000	1311.70	9944.34
.004073	75.	74.	75.	4	0	0	.00	159.66	10104.00

FLOW DISTRIBUTION FOR SECNO= 19.31 CWSEL= 1323.31

STA= 9944. 10112.
PER Q= 100.0
AREA= 1330.9
VEL= 11.0
DEPTH= 8.3

CCHV= .100 CEHV= .300
*SECNO 19.418

19.418	12.59	1325.59	.00	.00	1327.43	1.83	2.25	.00	1328.00
14600.0	.0	14600.0	.0	.0	1343.4	.0	429.0	52.4	1326.10
.31	.00	10.87	.00	.000	.035	.000	.000	1313.00	9955.11
.004041	570.	554.	530.	2	0	0	.00	162.69	10117.80

FLOW DISTRIBUTION FOR SECNO= 19.42 CWSEL= 1325.59

STA= 9955. 10120.
PER Q= 100.0
AREA= 1343.4
VEL= 10.9
DEPTH= 8.3

*SECNO 19.560

19.560	12.61	1328.21	.00	.00	1330.15	1.94	2.69	.03	1329.70
14600.0	.0	14600.0	.0	.0	1307.1	.0	451.2	54.8	1330.60
.32	.00	11.17	.00	.000	.035	.000	.000	1315.60	9931.38
.003389	730.	729.	720.	2	0	0	.00	129.60	10060.98

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 19.56 CWSEL= 1328.21

STA= 9931. 10065.
PER Q= 100.0
AREA= 1307.1
VEL= 11.2
DEPTH= 10.1

CCHV= .300 CEHV= .500
*SECNO 19.625

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.55

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1332.00 ELREA= 1332.00

19.625	12.29	1329.89	.00	.00	1330.82	.93	.37	.30	1317.60
5700.0	.0	5700.0	.0	.0	737.6	.0	459.7	55.6	1317.60
.34	.00	7.73	.00	.000	.015	.000	.000	1317.60	9965.00
.000214	580.	364.	70.	2	0	0	.00	60.00	10025.00

FLOW DISTRIBUTION FOR SECNO= 19.63 CWSEL= 1329.89

STA= 9965. 10025.
PER Q= 100.0
AREA= 737.6
VEL= 7.7
DEPTH= 12.3

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	60.00	2.00	564.00	.00	1318.60	1317.60

*SECNO 19.691

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1332.37	1331.05	.08	0.	5700.	564.	563.	1328.30	1334.80	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1333.00 ELREA= 1333.00

19.691	12.93	1331.53	.00	.00	1332.37	.84	1.55	.00	1318.60
5700.0	.0	5700.0	.0	.0	775.9	.0	465.8	56.1	1318.60
.35	.00	7.35	.00	.000	.015	.000	.000	1318.60	9965.00
.000181	330.	350.	430.	2	0	0	.00	60.00	10025.00

FLOW DISTRIBUTION FOR SECNO= 19.69 CWSEL= 1331.53

STA= 9965. 10025.
PER Q= 100.0
AREA= 775.9
VEL= 7.3
DEPTH= 12.9

*SECNO 19.742

19.742	12.89	1331.99	.00	.00	1332.51	.52	.05	.10	1331.60
5700.0	.8	5699.0	.2	3.4	985.5	.8	471.3	56.6	1331.00
.36	.23	5.78	.30	.035	.015	.035	.000	1319.10	9935.22
.000165	80.	269.	470.	2	0	0	.00	108.35	10043.57

FLOW DISTRIBUTION FOR SECNO= 19.74 CWSEL= 1331.99

STA= 9935. 9948. 10042. 10044.
PER Q= .0 100.0 .0
AREA= 3.4 985.5 .8
VEL= .2 5.8 .3
DEPTH= .3 10.5 .5

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 19.847

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .36

19.847	13.34	1332.14	.00	.00	1332.73	.59	.20	.02	1336.30
5700.0	.0	5700.0	.0	.0	925.1	.0	483.4	58.0	1335.80
.39	.00	6.16	.00	.000	.035	.000	.000	1318.80	9940.63
.001296	570.	554.	520.	2	0	0	.00	109.85	10050.49

FLOW DISTRIBUTION FOR SECNO= 19.85 CWSEL= 1332.14

STA= 9941. 10062.
PER Q= 100.0
AREA= 925.1
VEL= 6.2
DEPTH= 8.4

*SECNO 19.960

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .39

19.960	7.77	1332.37	1332.22	.00	1334.93	2.55	1.61	.59	1330.00
5700.0	38.9	5629.3	31.8	9.0	436.7	7.5	492.9	59.3	1330.00
.40	4.31	12.89	4.25	.035	.035	.035	.000	1324.60	9950.40
.008699	640.	597.	560.	4	11	0	.00	86.88	10037.28

FLOW DISTRIBUTION FOR SECNO= 19.96 CWSEL= 1332.37

STA=	9950.	9958.	10031.	10037.
PER Q=	.7	98.8	.6	
AREA=	9.0	436.7	7.5	
VEL=	4.3	12.9	4.3	
DEPTH=	1.2	6.0	1.2	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500
*SECNO 19.974

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.51

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1336.00 ELREA= 1336.00

19.974	9.51	1333.31	.00	.00	1335.46	2.14	.41	.12	1323.80
5700.0	.0	5700.0	.0	.0	485.1	.0	493.7	59.4	1323.80
.40	.00	11.75	.00	.000	.035	.000	.000	1323.80	9969.00
.003800	105.	74.	65.	3	0	0	.00	51.00	10020.00

FLOW DISTRIBUTION FOR SECNO= 19.97 CWSEL= 1333.31

STA=	9969.	10020.
PER Q=	100.0	
AREA=	485.1	
VEL=	11.8	
DEPTH=	9.5	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	51.00	3.00	480.00	.00	1324.10	1323.80

*SECNO 19.986

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1336.73	1336.01	.92	0.	5700.	480.	480.	1334.10	1337.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1337.00 ELREA= 1337.00

19.986	11.45	1335.25	.00	.00	1336.73	1.48	1.27	.00	1323.80
5700.0	.0	5700.0	.0	.0	584.0	.0	494.4	59.5	1323.80
.40	.00	9.76	.00	.000	.035	.000	.000	1323.80	9969.00
.002047	61.	61.	61.	3	0	0	.00	51.00	10020.00

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 19.99 CWSEL= 1335.25

STA= 9969. 10020.
PER Q= 100.0
AREA= 584.0
VEL= 9.8
DEPTH= 11.5

*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1340.00 ELREA= 1339.40

20.049	11.25	1338.35	1338.35	.00	1341.90	3.54	1.32	1.03	1343.40
5700.0	.0	5700.0	.0	.0	377.3	.0	498.1	59.9	1339.40
.41	.00	15.11	.00	.000	.035	.000	.000	1327.10	9971.56
.010738	305.	333.	345.	20	8	0	.00	53.63	10025.19

FLOW DISTRIBUTION FOR SECNO= 20.05 CWSEL= 1338.35

STA= 9972. 10027.
PER Q= 100.0
AREA= 377.3
VEL= 15.1
DEPTH= 7.0

CCHV= .100 CEHV= .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.69

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1344.00 ELREA= 1340.80

20.144	12.58	1343.48	.00	.00	1345.07	1.58	2.97	.20	1344.60
5700.0	.0	5588.6	111.4	.0	548.7	32.7	503.6	60.7	1340.80
.42	.00	10.19	3.41	.000	.035	.040	.000	1330.90	9960.58
.003744	490.	502.	500.	2	0	0	.00	83.94	10044.51

FLOW DISTRIBUTION FOR SECNO= 20.14 CWSEL= 1343.48

STA=	9961.	10025.	10040.	10045.
PER Q=	98.0	1.9	.1	
AREA=	548.7	29.8	2.9	
VEL=	10.2	3.6	1.6	
DEPTH=	8.5	2.0	.6	

*SECNO 20.242

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1348.00 ELREA= 1342.80

20.242	12.19	1345.49	.00	.00	1347.06	1.57	1.99	.00	1347.20
5700.0	.0	5546.3	153.7	.0	545.0	40.2	510.6	61.7	1342.80
.44	.00	10.18	3.83	.000	.035	.040	.000	1333.30	9961.30
.003942	470.	517.	560.	3	0	0	.00	88.68	10049.98

FLOW DISTRIBUTION FOR SECNO= 20.24 CWSEL= 1345.49

STA=	9961.	10029.	10041.	10050.
PER Q=	97.3	2.2	.5	
AREA=	545.0	29.9	10.3	
VEL=	10.2	4.3	2.5	
DEPTH=	8.1	2.5	1.1	

*SECNO 20.335

20.335	10.14	1347.44	.00	.00	1348.61	1.17	1.51	.04	1344.00
5700.0	31.7	5639.2	29.1	12.8	646.3	11.8	517.7	62.7	1344.00
.46	2.48	8.72	2.46	.040	.035	.040	.000	1337.30	9950.57
.002469	510.	491.	470.	2	0	0	.00	88.31	10038.88

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 20.33 CWSEL= 1347.44

STA=	9951.	9958.	10032.	10039.
PER Q=	.6	98.9	.5	
AREA=	12.8	646.3	11.8	
VEL=	2.5	8.7	2.5	
DEPTH=	1.7	8.7	1.7	

CCHV= .300 CEHV= .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1351.50 ELREA= 1351.50

20.347	10.04	1347.24	.00	.00	1349.16	1.92	.18	.38	1337.20
5700.0	.0	5700.0	.0	.0	512.0	.0	518.5	62.8	1337.20
.46	.00	11.13	.00	.000	.035	.000	.000	1337.20	9970.00
.003174	1.	63.	150.	2	0	0	.00	51.00	10021.00

FLOW DISTRIBUTION FOR SECNO= 20.35 CWSEL= 1347.24

STA= 9970. 10021.
PER Q= 100.0
AREA= 512.0
VEL= 11.1
DEPTH= 10.0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1337.70	1337.20

*SECNO 20.366
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1347.00 BRIDGE VELOCITY= 12.43 CALCULATED CHANNEL AREA= 446.

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1349.64	.73	0.	5700.	576.	576.	1349.70	1354.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.366	10.77	1347.97	.00	.00	1349.64	1.67	.48	.00	1337.20
5700.0	.0	5700.0	.0	.0	549.1	.0	519.7	63.0	1337.20
.46	.00	10.38	.00	.000	.035	.000	.000	1337.20	9970.00
.002515	100.	100.	100.	0	0	0	.00	51.00	10021.00

FLOW DISTRIBUTION FOR SECNO= 20.37 CWSEL= 1347.97

STA= 9970. 10021.
PER Q= 100.0
AREA= 549.1
VEL= 10.4
DEPTH= 10.8

*SECNO 20.423

3301 HV CHANGED MORE THAN HVINS

20.423	11.57	1349.57	.00	.00	1350.51	.94	.65	.22	1345.00
5700.0	101.7	5266.2	332.1	37.2	655.8	86.9	524.3	63.5	1344.30
.47	2.73	8.03	3.82	.040	.035	.040	.000	1338.00	9958.69

.001888	415.	301.	205.	3	0	0	.00	112.82	10071.51

FLOW DISTRIBUTION FOR SECNO= 20.42 CWSEL= 1349.57

STA=	9959.	9975.	10045.	10055.	10072.
PER Q=	1.8	92.4	4.0	1.8	
AREA=	37.2	655.8	49.2	37.7	
VEL=	2.7	8.0	4.7	2.7	
DEPTH=	2.3	9.4	4.9	2.3	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.430	9.83	1349.13	.00	.00	1351.13	2.01	.09	.53	1339.30
5700.0	.0	5700.0	.0	.0	501.4	.0	524.8	63.6	1339.30
.47	.00	11.37	.00	.000	.035	.000	.000	1339.30	9985.00
.003403	1.	37.	65.	2	0	0	.00	51.00	10036.00

FLOW DISTRIBUTION FOR SECNO= 20.43 CWSEL= 1349.13

STA=	9985.	10036.
PER Q=	100.0	
AREA=	501.4	
VEL=	11.4	
DEPTH=	9.8	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1339.30	1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1348.59 BRIDGE VELOCITY= 12.79 CALCULATED CHANNEL AREA= 446.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1351.50	1351.64	.80	0.	5700.	576.	576.	1351.30	1355.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1353.50 ELREA= 1353.50

20.444	10.62	1349.92	.00	.00	1351.64	1.72	.51	.00	1339.30
5700.0	.0	5700.0	.0	.0	541.8	.0	525.7	63.7	1339.30
.47	.00	10.52	.00	.000	.035	.000	.000	1339.30	9985.00
.002628	70.	70.	70.	0	0	0	.00	51.00	10036.00

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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

FLOW DISTRIBUTION FOR SECNO=     20.44          CWSEL=   1349.92

STA=    9985.   10036.
  PER Q=    100.0
   AREA=    541.8
    VEL=     10.5
  DEPTH=     10.6

*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS

    20.529      9.25   1352.25       .00       .00   1352.95       .70      1.00       .31   1350.20
    5700.0     165.5    5398.1     136.3      70.2     784.4      61.5     533.2      64.9   1350.40
       .49      2.36      6.88      2.22      .040      .035      .040      .000   1343.00   9905.35
   .001924      545.      449.      375.         3         0         0       .00    189.83  10095.18

FLOW DISTRIBUTION FOR SECNO=     20.53          CWSEL=   1352.25

STA=    9905.    9910.    9947.   10055.   10090.   10095.
  PER Q=       .1      2.8     94.7      2.3       .1
   AREA=      3.6     66.6    784.4     57.8      3.8
    VEL=      1.3      2.4      6.9      2.3      1.3
  DEPTH=       .8      1.8      7.3      1.7       .7

CCHV=     .100 CEHV=     .300
*SECNO 20.628
    20.628     10.01   1353.31       .00       .00   1353.74       .43       .76       .03   1357.10
    5700.0        .0    5700.0        .0        .0    1089.4        .0     545.3      67.0   1356.30
       .52       .00      5.23       .00      .000      .035      .000      .000   1343.30   9917.80
   .001125      530.      523.      520.         2         0         0       .00    150.61  10068.41

FLOW DISTRIBUTION FOR SECNO=     20.63          CWSEL=   1353.31

STA=    9918.   10076.
  PER Q=    100.0
   AREA=   1089.4
    VEL=      5.2
  DEPTH=      7.2
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

20.725	8.84	1356.04	1356.04	.00	1359.09	3.06	1.32	.79	1360.40
5700.0	.0	5700.0	.0	.0	406.2	.0	554.0	68.2	1361.00
.53	.00	14.03	.00	.000	.035	.000	.000	1347.20	9959.29
.010764	510.	512.	520.	20	11	0	.00	67.22	10026.51

FLOW DISTRIBUTION FOR SECNO= 20.73 CWSEL= 1356.04

STA= 9959. 10036.
PER Q= 100.0
AREA= 406.2
VEL= 14.0
DEPTH= 6.0

CCHV= .300 CEHV= .500
*SECNO 20.737

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1363.00 ELREA= 1363.00

20.737	7.27	1358.17	1358.17	.00	1361.84	3.67	.80	.31	1350.90
5700.0	.0	5700.0	.0	.0	370.6	.0	554.8	68.4	1350.90
.53	.00	15.38	.00	.000	.035	.000	.000	1350.90	9968.00
.009320	80.	80.	80.	20	15	0	.00	51.00	10019.00

FLOW DISTRIBUTION FOR SECNO= 20.74 CWSEL= 1358.17

STA= 9968. 10019.
PER Q= 100.0
AREA= 370.6
VEL= 15.4
DEPTH= 7.3

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1356.93 , NOT 1358.17 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1351.00	1350.90

*SECNO 20.750

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.59

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1358.54 BRIDGE VELOCITY= 15.64 CALCULATED CHANNEL AREA= 362.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1362.70	.00	0.	5700.	576.	576.	1363.00	1366.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1364.00 ELREA= 1364.00

20.750	9.60	1360.60	.00	.00	1362.70	2.11	.86	.00	1351.00
5700.0	.0	5700.0	.0	.0	489.5	.0	555.5	68.4	1351.00
.53	.00	11.64	.00	.000	.035	.000	.000	1351.00	9968.00
.003686	71.	71.	71.	0	0	0	.00	51.00	10019.00

FLOW DISTRIBUTION FOR SECNO= 20.75 CWSEL= 1360.60

STA= 9968. 10019.
PER Q= 100.0
AREA= 489.5
VEL= 11.6
DEPTH= 9.6

*SECNO 20.819

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1366.90 ELREA= 1366.90

20.819	5.87	1362.37	.00	.00	1364.78	2.41	1.92	.15	1356.50
5700.0	.0	5700.0	.0	.0	457.6	.0	559.4	69.0	1356.50
.54	.00	12.46	.00	.000	.035	.000	.000	1356.50	9965.00
.008133	375.	365.	345.	3	0	0	.00	78.00	10043.00

FLOW DISTRIBUTION FOR SECNO= 20.82 CWSEL= 1362.37

STA= 9965. 10043.
PER Q= 100.0
AREA= 457.6
VEL= 12.5
DEPTH= 5.9

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1361.20 , NOT 1362.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	77.30	3.30	655.00	.00	1357.40	1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1362.64 BRIDGE VELOCITY= 13.54 CALCULATED CHANNEL AREA= 388.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1364.20	1366.08	.00	0.	5700.	655.	592.	1365.40	1369.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1367.90 ELREA= 1367.90

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
20.841	6.98	1364.38	.00	.00	1366.08	1.70	1.31	.00	1357.40
5700.0	.0	5700.0	.0	.0	544.7	.0	560.7	69.2	1357.40
.54	.00	10.46	.00	.000	.035	.000	.000	1357.40	9965.00
.004551	115.	115.	115.	0	0	0	.00	78.00	10043.00

FLOW DISTRIBUTION FOR SECNO= 20.84 CWSEL= 1364.38

STA=	9965.	10043.
PER Q=	100.0	
AREA=	544.7	
VEL=	10.5	
DEPTH=	7.0	

*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1365.30 ELREA= 1367.60

20.860	9.68	1365.98	.00	.00	1366.67	.69	.28	.30	1365.30
5700.0	86.2	5613.8	.0	77.9	834.8	.0	562.4	69.6	1367.60
.55	1.11	6.72	.00	.040	.035	.000	.000	1356.30	9800.89
.001946	90.	100.	110.	2	0	0	.00	261.14	10062.04

FLOW DISTRIBUTION FOR SECNO= 20.86 CWSEL= 1365.98

STA=	9801.	9846.	9942.	10066.
PER Q=	.4	1.1	98.5	
AREA=	21.8	56.1	834.8	
VEL=	1.0	1.1	6.7	
DEPTH=	.5	.6	7.0	

CCHV= .100 CEHV= .300
*SECNO 20.942

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3265 DIVIDED FLOW

    20.942      7.69   1367.29        .00        .00   1367.72        .43       1.02        .03   1368.60
    5700.0        .0    3724.4     1975.6         .0     673.2      417.4      572.7       72.7   1366.50
       .57       .02      5.53       4.73       .040      .035       .035       .000    1359.60   9629.81
   .002779      530.      433.       490.          2         0          0        .00     313.22  10168.29


FLOW DISTRIBUTION FOR SECNO=     20.94          CWSEL=   1367.29

STA=    9630.   10024.   10027.   10053.   10070.   10114.   10153.   10168.
  PER Q=     65.3       .3      5.3      2.5      6.4     17.0      3.3
   AREA=    673.2      5.1     69.9     37.2     96.3    165.3     43.5
    VEL=      5.5      2.9      4.3      3.8      3.8      5.9      4.3
  DEPTH=      4.0      1.7      2.7      2.2      2.2      4.2      2.8

*SECNO 21.036

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.036      8.45   1371.95   1371.95        .00   1373.07       1.12       1.76        .21   1370.70
    5700.0     367.1    5202.8     130.1      186.3     586.7       55.7      583.6       77.4   1370.40
       .59      1.97      8.87      2.34       .040      .035       .040       .000    1363.50   9568.93
   .004734      490.      496.      490.         20        12          0        .00     520.10  10089.02


FLOW DISTRIBUTION FOR SECNO=     21.04          CWSEL=   1371.95

STA=    9569.    9665.    9728.    9758.    9867.    9912.   10020.   10041.   10075.   10089.
  PER Q=       .7       .5       .1      2.7      2.5     91.3      1.2       .9       .2
   AREA=     31.1     21.8      5.9     75.9     51.6    586.7     24.1     25.4      6.3
    VEL=      1.2      1.3       .9      2.0      2.8      8.9      2.8      2.1      1.5
  DEPTH=       .3       .3       .2       .7      1.1      5.4      1.1       .7       .4

*SECNO 21.127
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
1
   18APR06      16:01:36                                                                                    PAGE   44

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1374.00 ELREA=      1375.00

    21.127      8.05   1374.75   1374.75        .00   1375.74       1.00       2.13        .01   1374.20
    5700.0    1077.1    4622.9        .0      394.1     525.4         .0      592.7       82.0   1375.00
       .61      2.73      8.80       .00       .040      .035       .000       .000    1366.70   9631.62
   .004360      400.      480.      500.          2        10          0        .00     434.39  10066.01


FLOW DISTRIBUTION FOR SECNO=     21.13          CWSEL=   1374.75
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```
STA=    9632.    9634.    9666.    9759.    9860.    9913.    9974.   10067.
  PER Q=       .0      1.7      5.8      6.7      2.9      1.8     81.1
   AREA=      1.4     36.7    115.9    130.9     60.7     48.6    525.4
    VEL=      1.6      2.7      2.8      2.9      2.7      2.1      8.8
  DEPTH=       .6      1.1      1.2      1.3      1.1       .8      5.7

*SECNO 21.230

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.230      8.36   1380.36   1380.36       .00   1381.67      1.30      2.99       .09   1379.30
    5700.0     508.8    4046.9    1144.3     153.5     391.9     191.5     603.1      86.7   1380.60
       .62      3.32     10.33      5.98      .040      .035      .040      .000   1372.00   9818.28
   .007215      560.      544.      500.        20         8         0       .00    304.81  10126.36

FLOW DISTRIBUTION FOR SECNO=     21.23          CWSEL=   1380.36

STA=    9818.    9879.    9930.    9967.   10048.   10083.   10102.   10117.   10126.
  PER Q=      3.2      3.0      2.7     71.0      6.7      6.3      4.7      2.5
   AREA=     57.4     52.7     43.4    391.9     69.9     55.4     42.2     24.0
    VEL=      3.2      3.3      3.5     10.3      5.4      6.4      6.3      5.9
  DEPTH=       .9      1.0      1.2      5.0      2.0      2.9      2.8      2.6

*SECNO 21.363
1
   18APR06      16:01:36                                                                                    PAGE   45

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

3265 DIVIDED FLOW

3280 CROSS SECTION     21.36 EXTENDED       .36 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.07

    21.363      9.27   1383.37       .00       .00   1383.90       .53      2.16       .08   1384.40
    5700.0      98.2    5566.2      35.7      50.6     939.1      46.3     617.4      92.2   1382.10
       .66      1.94      5.93       .77      .040      .035      .040      .000   1374.10   9556.04
   .001686      740.      702.      700.         2         0         0       .00    366.91  10337.00

FLOW DISTRIBUTION FOR SECNO=     21.36          CWSEL=   1383.37

STA=    9556.    9923.   10088.   10337.
  PER Q=      1.7     97.7       .6
   AREA=     50.6    939.1     46.3
    VEL=      1.9      5.9       .8
  DEPTH=       .1      6.3       .2

*SECNO 21.484

3265 DIVIDED FLOW
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3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.484	8.03	1386.53	1386.53	.00	1387.44	.92	1.88	.11	1386.90
5700.0	2045.4	3648.0	6.6	511.1	400.0	4.0	631.7	98.5	1386.50
.68	4.00	9.12	1.63	.040	.035	.040	.000	1378.50	9497.84
.006378	650.	639.	520.	20	12	0	.00	514.70	10076.82

FLOW DISTRIBUTION FOR SECNO= 21.48 CWSEL= 1386.53

STA=	9498.	9614.	9647.	9678.	9805.	9837.	9867.	9892.	9920.	10026.	10077.
PER Q=	3.6	3.1	3.3	5.0	6.8	6.6	5.3	2.1	64.0	.1	
AREA=	82.4	47.2	47.4	95.5	74.5	71.4	58.2	34.5	400.0	4.0	
VEL=	2.5	3.8	3.9	3.0	5.2	5.3	5.2	3.5	9.1	1.6	
DEPTH=	.7	1.4	1.5	.8	2.3	2.4	2.3	1.2	4.5	.1	

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 21.576

3265 DIVIDED FLOW

3280 CROSS SECTION 21.58 EXTENDED .54 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.576	7.14	1389.24	1389.24	.00	1390.02	.78	2.51	.01	1390.00
5700.0	720.9	4008.4	970.7	336.1	487.8	285.9	641.4	104.4	1388.30
.70	2.15	8.22	3.39	.040	.035	.040	.000	1382.10	9388.00
.005020	320.	486.	480.	2	12	0	.00	868.38	10340.54

FLOW DISTRIBUTION FOR SECNO= 21.58 CWSEL= 1389.24

STA=	9388.	9500.	9643.	9821.	9929.	10087.	10140.	10199.	10281.	10341.
PER Q=	3.6	3.0	3.3	2.7	70.3	6.8	6.0	3.7	.5	
AREA=	89.6	81.4	95.4	69.6	487.8	97.3	94.6	78.7	15.4	
VEL=	2.3	2.1	2.0	2.2	8.2	4.0	3.6	2.7	1.9	
DEPTH=	.8	.6	.5	.6	4.6	1.8	1.6	1.0	.3	

*SECNO 21.669

3265 DIVIDED FLOW

3280 CROSS SECTION 21.67 EXTENDED .18 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.669	9.38	1393.38	1393.38	.00	1393.98	.60	2.28	.02	1393.80
5500.0	905.3	2788.4	1806.3	390.6	338.0	558.6	654.3	114.0	1392.00
.72	2.32	8.25	3.23	.040	.035	.040	.000	1384.00	9392.00
.004519	440.	491.	470.	20	16	0	.00	977.37	10414.00

FLOW DISTRIBUTION FOR SECNO= 21.67 CWSEL= 1393.38

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    L-BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      R-BANK ELEV
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST

STA=    9392.    9515.    9663.    9893.    9949.    9959.   10031.   10074.   10124.   10182.   10245.   10303.   10361.
 PER Q=    3.0      4.9      3.2      5.1       .2     50.7      5.1      4.6      5.6      5.2      4.2      4.5
  AREA=   80.3    122.7     95.6     85.0      6.8    338.0     76.4     76.3     91.4     89.8     76.9     79.8
   VEL=    2.1      2.2      1.8      3.3      1.9      8.3      3.7      3.3      3.4      3.2      3.0      3.1
 DEPTH=     .7       .8       .4      1.5       .7      5.3      1.8      1.5      1.6      1.4      1.3      1.4

STA=   10361.   10401.   10414.
 PER Q=    3.1       .6
  AREA=   54.9     13.1
   VEL=    3.1      2.5
 DEPTH=    1.4      1.0

*SECNO 21.742

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.742     8.78  1395.18  1395.18      .00  1396.38     1.19     1.92      .18  1394.70
    5500.0     29.1   5238.8    232.0     28.7    583.5    122.4    663.5    121.0  1394.20
       .74     1.02     8.98     1.90     .040     .035     .040     .000  1386.40  9744.71
   .005365     430.     385.     390.        2        8        0      .00   525.85 10353.48


FLOW DISTRIBUTION FOR SECNO=     21.74          CWSEL=   1395.18

STA=    9745.    9975.   10091.   10240.   10353.
 PER Q=     .5     95.3      3.1      1.1
  AREA=   28.7    583.5     80.6     41.8
   VEL=    1.0      9.0      2.1      1.5
 DEPTH=     .1      5.0       .5       .4

*SECNO 21.840
    21.840     6.94  1398.04      .00      .00  1398.83      .80     2.42      .04  1396.20
    5500.0    945.8   4157.0    397.3    210.1    524.6    174.1    672.7    126.0  1397.00
       .76     4.50     7.92     2.28     .040     .035     .040     .000  1391.10  9857.22
   .004314     430.     517.     430.        2        0        0      .00   437.88 10295.09
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    L-BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA      R-BANK ELEV
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN    SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID   ENDST

FLOW DISTRIBUTION FOR SECNO=     21.84          CWSEL=   1398.04

STA=    9857.    9860.    9882.    9913.    9931.    9946.   10054.   10097.   10145.   10186.   10227.   10273.   10295.
 PER Q=     .0      2.2      7.6      4.7      2.6     75.6      2.9      2.7       .6       .4       .6       .1
  AREA=    1.0     36.1     86.5     52.1     34.4    524.6     55.6     54.8     20.2     16.1     22.6      4.9
```

VEL	1.2	3.4	4.8	5.0	4.2	7.9	2.9	2.7	1.5	1.3	1.5	.9
DEPTH=	.4	1.6	2.8	2.9	2.3	4.9	1.3	1.1	.5	.4	.5	.2

*SECNO 21.895
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.895	7.77	1399.67	1399.67	.00	1400.47	.80	1.34	.00	1398.00
5500.0	1555.3	2864.4	1080.2	327.5	311.9	397.8	679.0	129.1	1397.70
.77	4.75	9.18	2.72	.040	.035	.040	.000	1391.90	9834.78
.004943	330.	290.	220.	1	8	0	.00	596.22	10431.00

FLOW DISTRIBUTION FOR SECNO= 21.90 CWSEL= 1399.67

STA=	9835.	9885.	9919.	9939.	9975.	10031.	10113.	10187.	10251.	10292.	10364.	10431.
PER Q=	9.5	9.9	4.3	4.6	52.1	4.2	4.1	4.1	3.1	3.0	1.2	
AREA=	112.3	100.9	49.3	64.9	311.9	84.3	80.6	76.1	54.0	65.9	36.8	
VEL=	4.7	5.4	4.8	3.9	9.2	2.7	2.8	3.0	3.1	2.5	1.8	
DEPTH=	2.2	3.0	2.5	1.8	5.6	1.0	1.1	1.2	1.3	.9	.5	

*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.01

21.933	4.06	1400.86	.00	.00	1400.99	.13	.46	.07	1398.00
5500.0	1740.2	3230.1	529.7	808.7	951.6	269.8	686.4	132.8	1398.00
.79	2.15	3.39	1.96	.040	.035	.040	.000	1396.80	9314.75
.001221	210.	210.	210.	2	0	0	.00	970.39	10285.14

FLOW DISTRIBUTION FOR SECNO= 21.93 CWSEL= 1400.86

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9315.	9440.	9590.	9680.	9725.	9780.	9840.	9865.	10140.	10285.
PER Q=	.4	2.0	6.0	7.2	8.8	5.1	2.1	58.7	9.6	
AREA=	35.1	106.5	167.4	142.2	173.8	129.6	54.0	951.6	269.8	
VEL=	.6	1.0	2.0	2.8	2.8	2.2	2.2	3.4	2.0	
DEPTH=	.3	.7	1.9	3.2	3.2	2.2	2.2	3.5	1.9	

*SECNO 21.953

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.953	7.06	1401.06	1401.06	.00	1402.01	.94	.20	.24	1400.20
5500.0	2374.6	2981.8	143.6	470.2	313.0	32.2	688.8	134.1	1398.30
.79	5.05	9.53	4.45	.045	.045	.045	.000	1394.00	9424.44
.009459	75.	74.	75.	20	14	0	.00	459.91	10052.98

FLOW DISTRIBUTION FOR SECNO= 21.95 CWSEL= 1401.06

STA=	9424.	9678.	9699.	9714.	9725.	9735.	9759.	9768.	9782.	9810.	9965.	9969.	10029.
PER Q=	4.1	3.5	4.1	5.2	4.3	4.5	3.3	5.0	5.9	3.2	.3	54.2	
AREA=	94.3	39.1	37.7	38.5	33.6	48.3	27.1	41.5	60.5	45.2	4.4	313.0	
VEL=	2.4	4.9	5.9	7.4	7.1	5.1	6.6	6.6	5.4	3.8	3.4	9.5	
DEPTH=	.4	1.9	2.5	3.5	3.4	2.0	3.0	3.0	2.2	.3	1.1	5.2	

STA=	10029.	10053.
PER Q=	2.6	
AREA=	32.2	
VEL=	4.5	
DEPTH=	1.3	

*SECNO 22.065

3265 DIVIDED FLOW

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.94

22.065	8.28	1404.08	.00	.00	1404.25	.17	2.17	.08	1404.10
5500.0	4154.8	1273.9	71.3	1389.6	294.2	31.6	702.6	140.5	1402.00
.83	2.99	4.33	2.26	.045	.045	.045	.000	1395.80	9242.08
.002509	430.	591.	630.	4	0	0	.00	777.84	10049.66

FLOW DISTRIBUTION FOR SECNO= 22.07 CWSEL= 1404.08

STA=	9242.	9500.	9594.	9645.	9657.	9680.	9700.	9731.	9785.	9816.	9869.	9890.	9961.
PER Q=	24.1	5.7	7.6	3.2	5.9	5.3	3.8	4.5	6.5	4.9	3.7	.4	
AREA=	500.1	143.7	124.0	44.8	83.5	73.6	69.7	80.3	99.4	92.7	60.5	17.3	
VEL=	2.7	2.2	3.4	4.0	3.9	3.9	3.0	3.1	3.6	2.9	3.3	1.2	
DEPTH=	1.9	1.5	2.4	3.7	3.6	3.7	2.2	1.5	3.2	1.7	2.9	.2	

STA=	9961.	10028.	10050.
PER Q=	23.2	1.3	
AREA=	294.2	31.6	
VEL=	4.3	2.3	
DEPTH=	4.4	1.5	

*SECNO 22.165

3265 DIVIDED FLOW

22.165	10.25	1405.25	.00	.00	1405.46	.21	1.20	.01	1400.90
5500.0	4034.5	1433.3	32.3	1386.7	266.1	24.2	723.2	150.3	1403.70
.87	2.91	5.39	1.33	.045	.045	.045	.000	1395.00	9137.48
.002042	530.	528.	530.	3	0	0	.00	828.27	10060.52

FLOW DISTRIBUTION FOR SECNO= 22.17 CWSEL= 1405.25

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

STA=    9137.    9204.    9213.    9222.    9232.    9256.    9308.    9425.    9595.    9637.    9645.    9657.    9669.
  PER Q=      6.3      3.5      4.4      3.9      4.4      3.3      3.9      3.3      4.7      3.6      4.9      3.2
   AREA=    119.1     44.6     51.3     50.0     75.7     85.9    131.5    109.1     86.3     43.2     61.2     47.4
    VEL=      2.9      4.3      4.8      4.3      3.2      2.1      1.6      1.6      3.0      4.6      4.4      3.7
  DEPTH=      1.8      5.0      5.7      5.0      3.2      1.7      1.1       .6      2.1      5.4      5.1      4.0

STA=    9669.    9701.    9834.    9862.    9946.    9983.   10018.   10061.
  PER Q=      3.2      4.7      5.0      4.2      6.9     26.1       .6
   AREA=     67.7    111.6     86.4     98.9    116.8    266.1     24.2
    VEL=      2.6      2.3      3.2      2.4      3.3      5.4      1.3
  DEPTH=      2.1       .8      3.1      1.2      3.2      7.6       .6

*SECNO 22.273

3265 DIVIDED FLOW


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .54

    22.273      7.26   1406.66       .00       .00   1407.38       .71      1.77       .15   1404.10
    5500.0    1973.6    3526.4        .0     437.6     454.3        .0     737.9     157.2   1406.90
       .90      4.51      7.76       .00      .045      .045      .000      .000   1399.40   9320.96
   .006928      470.      570.      580.         2         0         0       .00    419.21  10027.44


FLOW DISTRIBUTION FOR SECNO=     22.27          CWSEL=   1406.66

STA=    9321.    9344.    9359.    9574.    9598.    9754.    9774.    9915.    9933.   10028.
  PER Q=      4.7      5.4      3.4      4.9      3.1      6.8      3.1      4.5     64.1
   AREA=     48.7     48.9     64.5     55.6     64.2     62.5     46.1     47.1    454.3
    VEL=      5.3      6.0      2.9      4.8      2.7      6.0      3.7      5.2      7.8
  DEPTH=      2.1      3.3       .3      2.3       .4      3.1       .3      2.6      4.8

*SECNO 22.410

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED
    22.410     10.22   1414.22   1414.22       .00   1415.98      1.76      5.65       .31   1410.70
    5500.0     768.3    4585.8     145.9     157.3     400.5      38.0     750.4     162.4   1411.30
       .92      4.89     11.45      3.83      .045      .045      .045      .000   1404.00   9854.46
   .008756      750.      723.      630.         3        11         0       .00    193.61  10066.88
```

FLOW DISTRIBUTION FOR SECNO= 22.41 CWSEL= 1414.22

STA=	9854.	9903.	9954.	9967.	9973.	10027.	10067.
PER Q=	3.5	3.7	4.4	2.4	83.4	2.7	
AREA=	55.7	43.9	38.0	19.6	400.5	38.0	
VEL=	3.5	4.6	6.3	6.8	11.5	3.8	
DEPTH=	1.1	.9	2.9	3.3	7.4	1.0	

*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 4.56

22.483	10.96	1416.46	.00	.00	1416.58	.12	.44	.16	1411.10
5500.0	301.1	4551.8	647.1	194.8	1523.7	375.4	762.3	164.7	1411.20
.95	1.55	2.99	1.72	.045	.045	.045	.000	1405.50	9874.91
.000421	380.	385.	390.	3	0	0	.00	325.09	10199.99

FLOW DISTRIBUTION FOR SECNO= 22.48 CWSEL= 1416.46

STA=	9875.	9891.	9915.	9941.	10105.	10120.	10138.	10156.	10175.	10191.	10200.
PER Q=	.2	1.6	3.7	82.8	2.4	2.2	2.1	2.6	2.1	.3	
AREA=	16.5	65.0	113.3	1523.7	70.6	72.1	69.4	79.9	66.5	16.9	
VEL=	.7	1.3	1.8	3.0	1.9	1.7	1.7	1.8	1.8	1.0	
DEPTH=	1.0	2.7	4.4	9.3	4.7	4.0	3.9	4.2	4.2	1.9	

*SECNO 22.500

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1418.00 ELREA= 1412.00

22.500	10.75	1416.55	.00	.00	1416.64	.09	.06	.00	1418.00
5500.0	.0	4366.3	1133.7	.0	1769.2	546.4	767.4	165.7	1412.00
.97	.00	2.47	2.07	.000	.045	.045	.000	1405.80	9693.49
.000767	110.	103.	95.	2	0	0	.00	563.57	10257.06

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 22.50 CWSEL= 1416.55

STA=	9693.	10090.	10235.	10255.	10257.
PER Q=	79.4	19.9	.7	.0	
AREA=	1769.2	514.8	31.0	.6	
VEL=	2.5	2.1	1.2	.4	
DEPTH=	4.5	3.6	1.6	.3	

*SECNO 22.578

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .43

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    22.[illegible]      9.86   1416.56       .00       .00   1417.49       .93       .60       .25   1416.60
    5500.0        .3    5499.7        .0        .8     709.1        .0     781.3     168.8   1421.20
       .98       .39      7.76       .00      .045      .045      .000      .000   1406.70   9955.91
   .004127      415.      400.      395.         2         0         0       .00    106.43  10064.54

FLOW DISTRIBUTION FOR SECNO=     22.58          CWSEL=   1416.56

STA=    9956.    9966.   10072.
  PER Q=        .0    100.0
   AREA=        .8    709.1
    VEL=        .4      7.8
  DEPTH=        .1      7.4

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.53

    22.675      8.42   1418.12       .00       .00   1418.25       .13       .68       .08   1419.80
    5500.0        .0    5500.0        .0        .0    1890.3        .0     796.6     171.1   1420.00
      1.03       .00      2.91       .00      .000      .045      .000      .000   1409.70   9740.21
   .000643      570.      512.      480.         2         0         0       .00    288.38  10028.59
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

FLOW DISTRIBUTION FOR SECNO=     22.67          CWSEL=   1418.12

STA=    9740.   10032.
  PER Q=    100.0
   AREA=   1890.3
    VEL=      2.9
  DEPTH=      6.6

*SECNO 22.794

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .51

    22.794      7.93   1418.63       .00       .00   1419.04       .41       .71       .08   1417.80
    5500.0       1.7    5389.8     108.5       1.9    1043.7      44.0     818.0     174.7   1416.10
      1.06       .91      5.16      2.47      .045      .045      .045      .000   1410.70   9978.53
   .002480      460.      628.      500.         2         0         0       .00    216.48  10195.01

FLOW DISTRIBUTION FOR SECNO=     22.79          CWSEL=   1418.63

STA=    9979.    9983.   10169.   10189.   10195.
  PER Q=        .0     98.0      1.9       .1
   AREA=       1.9   1043.7     39.7      4.3
    VEL=        .9      5.2      2.6      1.3
  DEPTH=        .4      5.6      2.0       .7

*SECNO 22.880
    22.880      7.07   1420.07       .00       .00   1420.64       .57      1.55       .05   1426.40
    5500.0        .0    5500.0        .0        .0     906.0        .0     828.4     176.9   1424.20
      1.08       .00      6.07       .00      .000      .045      .000      .000   1413.00   9952.05
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   .004991      440.      454.      480.        2         0         0       .00    211.87  10163.92

FLOW DISTRIBUTION FOR SECNO=     22.88          CWSEL=   1420.07

STA=    9952.   10167.
  PER Q=    100.0
   AREA=    906.0
    VEL=      6.1
  DEPTH=      4.3
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 22.990
    22.990      5.73   1423.63       .00       .00   1424.25       .62      3.60       .02   1425.40
    5500.0        .0    5500.0        .0        .0     868.3        .0     840.2     180.2   1427.90
      1.11       .00      6.33       .00      .000      .045      .000      .000   1417.90   9754.12
   .007884      480.      581.      530.         3         0         0       .00    272.01  10026.13

FLOW DISTRIBUTION FOR SECNO=     22.99          CWSEL=   1423.63

STA=    9754.   10034.
  PER Q=    100.0
   AREA=    868.3
    VEL=      6.3
  DEPTH=      3.2

*SECNO 23.097

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    23.097      4.79   1429.89   1429.89       .00   1431.46      1.57      6.51       .28   1432.30
    5500.0      38.8    5461.2        .0      13.4     541.5        .0     849.5     183.2   1430.80
      1.13      2.89     10.08       .00      .045      .045      .000      .000   1425.10   9899.15
   .018393      640.      565.      490.        10        11         0       .00    186.84  10117.43

FLOW DISTRIBUTION FOR SECNO=     23.10          CWSEL=   1429.89

STA=    9899.    9916.    9925.    9927.   10121.
  PER Q=       .4       .3       .0     99.3
   AREA=      8.3      4.8       .2    541.5
    VEL=      2.9      3.0      1.2     10.1
  DEPTH=       .5       .5       .1      3.4
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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          FLOODWAY        J.MISCHLER
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J1  ICH      INQ       NINV      IDIR      STRT      METRIC    HVINS     [illegible]      WSEL      FQ
             3.                                                                          1284.69

J2  NPROF    IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    15.                -1.
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

 *PROF 2
0

 CCHV=     .100 CEHV=     .300
 *SECNO 17.588
  2800 NAT Q1=    5622.52  WSELK=    1283.69  ENC Q1=    5622.52  WSEL=    1284.69  RATIO=    .0000
  NAT Q1=    6698.  RATIOS LOB, CH, ROB=    .2409   .7347   .0244  WSEL=    1284.69

 3470 ENCROACHMENT STATIONS=     9855.2   10193.0  TYPE=      4  TARGET=         .161
     17.588     15.09   1284.69       .00   1283.69   1285.08       .39       .00       .00   1278.10
    15400.0    1964.8   13435.2        .0     646.6    2548.7        .0        .0        .0   1276.40
        .00      3.04      5.27       .00      .040      .040      .000      .000   1269.60   9855.24
    .000784      440.      496.      560.         0         0         0       .00    337.76  10193.00

 *SECNO 17.662

 3301 HV CHANGED MORE THAN HVINS

 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .54

 3470 ENCROACHMENT STATIONS=     9900.0   10150.0  TYPE=      1  TARGET=      250.000
     17.662     13.21   1284.81       .00   1283.82   1285.77       .96       .51       .17   1276.40
    15400.0    2238.0   13039.2      122.7     318.6    1628.5      41.0      23.1       2.6   1281.60
        .01      7.02      8.01      2.99      .040      .040      .040      .000   1271.60   9900.00
    .002664      380.      391.      400.         2         0         0       .00    250.00  10150.00

 *SECNO 17.783
  2800 NAT Q1=    1848.70  WSELK=    1285.58  ENC Q1=    2096.47  WSEL=    1286.58  RATIO=   -.1340
  NAT Q1=    2292.  RATIOS LOB, CH, ROB=    .0251   .9148   .0601  WSEL=    1286.58

 3301 HV CHANGED MORE THAN HVINS

 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .64

 3470 ENCROACHMENT STATIONS=     9921.0   10064.0  TYPE=      4  TARGET=         .085
     17.783     10.97   1286.37       .00   1285.58   1288.65      2.28      2.49       .40   1280.50
    15400.0        .0   15400.0        .0        .0    1271.4        .0      46.6       5.4   1281.10
        .03       .00     12.11       .00      .000      .040      .000      .000   1275.40   9921.00
    .006431      540.      639.      500.         2         0         0       .00    143.00  10064.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


*SECNO 17.932
 2800 NAT Q1=    1583.93  WSELK=    1290.98  ENC Q1=    1874.27  WSEL=    1291.98  RATIO=   -.1833
 NAT Q1=    1919.  RATIOS LOB, CH, ROB=    .0153   .9768   .0079  WSEL=    1291.98

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9956.0   10066.0  TYPE=      4  TARGET=          .023
    17.932     13.51   1291.41       .00   1290.98   1294.76      3.36      5.79       .32   1289.70
   15400.0        .0   15400.0        .0        .0    1047.0        .0      67.6       7.7   1290.20
       .04       .00     14.71       .00      .000      .040      .000      .000   1277.90   9956.00
   .008488      790.      787.      780.         2         0         0       .00    110.00  10066.00


CCHV=     .300 CEHV=     .500
*SECNO 18.042
 2800 NAT Q1=    2422.94  WSELK=    1294.31  ENC Q1=    2802.31  WSEL=    1295.31  RATIO=   -.1566
 NAT Q1=    2802.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1295.31

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48


3470 ENCROACHMENT STATIONS=     9951.0   10049.0  TYPE=      4  TARGET=          .000
    18.042     12.13   1294.43       .00   1294.31   1298.17      3.74      3.22       .19   1357.40
   15400.0        .0   15400.0        .0        .0     992.5        .0      81.2       9.1   1307.40
       .05       .00     15.52       .00      .000      .025      .000      .000   1282.30   9951.60
   .003893      620.      581.      550.         2         0         0       .00     96.78  10048.38


SPECIAL BRIDGE

SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.05       1.56       3.00        .00      75.00       4.00    1059.00       .81    1280.20    1279.90

*SECNO 18.061
BTCARD, BRIDGE STENCL=    9951.00   STENCR=   10049.00
 2800 NAT Q1=    2933.00  WSELK=    1296.44  ENC Q1=    3334.23  WSEL=    1297.44  RATIO=   -.1368
 NAT Q1=    3334.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1297.44

3301 HV CHANGED MORE THAN HVINS

1
   18APR06      16:01:36                                                                                PAGE    59

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


PRESSURE FLOW


 EGPRS      EGLWC      H3         QWEIR      QPR        BAREA      TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                      AREA
   1299.55   1299.06      1.10        0.    15400.     1059.      1060.     1293.20   1301.60        0.
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3470 ENCROACHMENT STATIONS=     9951.0   10049.0  TYPE=      4  TARGET=          .000
    18.061     13.59   1296.69       .00   1296.44   1299.55      2.86      1.38       .00   1358.20
   15400.0        .0   15400.0        .0        .0    1133.8        .0      83.6       9.3   1308.20
       .06       .00     13.58       .00      .000      .025      .000      .000   1283.10   9951.53
   .002582      101.      101.      101.         3         0         0       .00     96.91  10048.45

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.96

3470 ENCROACHMENT STATIONS=     9900.0   10085.0  TYPE=      1  TARGET=       185.000
    18.081     18.51   1299.61       .00   1299.54   1300.32       .71       .13       .65   1286.60
   15400.0    1220.6   12608.4    1571.0     308.4    1745.1     357.6      88.0       9.7   1284.90
       .06      3.96      7.22      4.39      .035      .035      .035      .000   1281.10   9900.00
   .000671       80.      106.      130.         3         0         0       .00    185.00  10085.00

CCHV=     .100 CEHV=     .300
*SECNO 18.174

3470 ENCROACHMENT STATIONS=     9857.0   10125.0  TYPE=      1  TARGET=       268.000
    18.174     18.48   1300.18       .00   1300.22   1300.63       .45       .28       .03   1288.70
   15400.0    1800.2   13116.1     483.8     472.7    2324.4     213.2     118.6      12.2   1294.60
       .09      3.81      5.64      2.27      .035      .035      .035      .000   1281.70   9857.02
   .000485      500.      491.      490.         2         0         0       .00    267.98  10125.00

*SECNO 18.269
1
   18APR06      16:01:36                                                                                PAGE   60

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

3470 ENCROACHMENT STATIONS=     9882.2   10110.0  TYPE=      1  TARGET=       227.800
    18.269     16.50   1300.30       .00   1300.17   1301.04       .74       .32       .09   1288.40
   15400.0    2281.3   12415.2     703.5     452.7    1691.6     205.0     149.4      15.1   1292.40
       .11      5.04      7.34      3.43      .035      .035      .035      .000   1283.80   9882.20
   .000870      500.      502.      500.         2         0         0       .00    227.80  10110.00

*SECNO 18.362

3470 ENCROACHMENT STATIONS=     9895.6   10107.8  TYPE=      1  TARGET=       212.200
    18.362     15.34   1300.64       .00   1300.54   1301.60       .95       .50       .06   1290.00
   15400.0    1169.8   13188.3    1041.9     244.9    1597.1     244.2     174.5      17.6   1290.60
       .12      4.78      8.26      4.27      .035      .035      .035      .000   1285.30   9895.60
   .001186      490.      491.      510.         1         0         0       .00    212.20  10107.80

*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
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3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9885.0 10110.0 TYPE= 1 TARGET= 225.000

18.445	17.61	1304.91	1304.91	1305.39	1307.77	2.86	1.00	.57	1290.00
15400.0	5150.6	4076.3	6173.1	519.2	211.4	537.3	191.9	19.8	1290.00
.13	9.92	19.29	11.49	.035	.035	.035	.000	1287.30	9888.33
.005594	470.	440.	460.	20	11	0	.00	221.67	10110.00

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	2.34	3.00	.00	6.11	1.00	33.20	.00	1287.70	1287.40

*SECNO 18.456
BTCARD, BRIDGE STENCL= 9885.00 STENCR= 10110.00

3301 HV CHANGED MORE THAN HVINS

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18APR06 16:01:36

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.86

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
9122.90	1309.51	1.74	15031.	376.	33.	33.	1294.20	1299.50	225.

3470 ENCROACHMENT STATIONS= 9885.0 10110.0 TYPE= 1 TARGET= 225.000

18.456	20.82	1308.52	.00	1307.31	1309.57	1.05	1.80	.00	1290.40
15400.0	5931.9	2952.3	6515.8	862.2	253.1	874.7	194.1	20.2	1290.40
.14	6.88	11.66	7.45	.035	.035	.035	.000	1287.70	9885.00
.001609	60.	60.	60.	3	0	7	.00	225.00	10110.00

*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.19

3470 ENCROACHMENT STATIONS= 9881.4 10169.8 TYPE= 1 TARGET= 288.399

18.545	20.26	1309.56	.00	1308.28	1309.93	.37	.29	.07	1294.10
15400.0	1923.3	10840.1	2636.6	584.0	1994.2	825.5	222.8	22.9	1293.80
.16	3.29	5.44	3.19	.035	.035	.035	.000	1289.30	9881.40
.000334	440.	466.	480.	2	0	0	.00	288.40	10169.80

*SECNO 18.575

```
3470 ENCROACHMENT STATIONS=     9880.7   10170.8  TYPE=      1  TARGET=      290.100
    18.575     20.37   1309.67       .00   1308.43   1309.99       .32       .05       .00   1291.50
   15400.0    3707.2    3015.7    8677.1     946.3     545.8    1943.6     235.4      23.9   1289.70
       .17      3.92      5.53      4.46      .035      .035      .035      .000   1289.30   9880.70
   .000325      160.      160.      160.         2         0         0       .00    290.10  10170.80
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1


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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


SPECIAL BRIDGE

SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.25       1.56       3.00        .00      10.40       1.00      56.50        .00    1289.40    1289.30

*SECNO 18.583
BTCARD, BRIDGE STENCL=    9876.10   STENCR=   10177.20
PRESSURE AND WEIR FLOW,  Weir Submergence Based on TRAPEZOIDAL Shape

 EGPRS      EGLWC      H3         QWEIR      QPR        BAREA      TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                     AREA
   3109.30   1310.06       .06    15166.      309.        57.        56.      1295.40    1299.00       290.


3470 ENCROACHMENT STATIONS=     9876.1   10177.2  TYPE=      1  TARGET=      301.101
    18.583     20.69   1310.09       .00   1309.50   1310.39       .31       .40       .00   1291.60
   15400.0    3739.8    2983.7    8676.5     980.5     554.7    2005.0     238.6      24.2   1289.80
       .17      3.81      5.38      4.33      .035      .035      .035      .000   1289.40   9876.10
   .000301       40.       40.       40.         2         0         8       .00    301.10  10177.20

*SECNO 18.640

3470 ENCROACHMENT STATIONS=     9879.6   10134.7  TYPE=      1  TARGET=      255.101
    18.640     19.82   1310.02       .00   1309.43   1310.59       .57       .12       .08   1294.60
   15400.0    2433.4    9638.4    3328.3     557.4    1397.4     771.3     260.5      26.2   1293.40
       .19      4.37      6.90      4.32      .035      .035      .035      .000   1290.20   9879.60
   .000567      300.      301.      310.         2         0         0       .00    255.10  10134.70

*SECNO 18.734

3470 ENCROACHMENT STATIONS=     9883.2   10111.7  TYPE=      1  TARGET=      228.500
    18.734     17.84   1310.24       .00   1309.68   1310.99       .75       .34       .05   1298.60
   15400.0    1412.7   13301.7     685.5     334.5    1817.1     202.6     289.4      28.9   1300.80
       .21      4.22      7.32      3.38      .035      .035      .035      .000   1292.40   9883.20
   .000841      490.      496.      500.         0         0         0       .00    228.50  10111.70

*SECNO 18.832

3470 ENCROACHMENT STATIONS=     9891.8   10107.0  TYPE=      1  TARGET=      215.200
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1


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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
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    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

    18.832     17.46    1310.66        .00    1310.19    1311.44        .78        .44        .01    1302.80
   15400.0     497.2    12812.5     2090.3      155.5     1713.0      426.4      317.0       31.5    1297.10
       .23      3.20       7.48       4.90       .035       .035       .035       .000    1293.20    9891.80
  .000880      480.       517.       540.          2          0          0        .00     215.20   10107.00

*SECNO 18.925

3470 ENCROACHMENT STATIONS=     9887.7   10087.5  TYPE=      1  TARGET=      199.800
    18.925     16.45    1311.05        .00    1310.64    1311.94        .89        .46        .03    1297.60
   15400.0    1782.2    12651.3      966.5      370.2     1567.8      226.4      342.1       33.9    1300.00
       .25      4.81       8.07       4.27       .035       .035       .035       .000    1294.60    9887.70
  .001019      480.       491.       500.          2          0          0        .00     199.80   10087.50

*SECNO 19.018

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .63

3470 ENCROACHMENT STATIONS=     9866.3   10038.5  TYPE=      1  TARGET=      172.200
    19.018     13.66    1311.26        .00    1310.89    1312.92       1.66        .75        .23    1305.10
   15400.0     558.1    14803.5       38.4      120.2     1408.9       13.8      362.9       36.0    1308.40
       .26      4.64      10.51       2.79       .035       .035       .035       .000    1297.60    9866.30
  .002537      460.       491.       520.          2          0          0        .00     172.20   10038.50

*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9942.1   10061.9  TYPE=      1  TARGET=      119.801
    19.117     14.08    1312.68    1312.68    1312.49    1316.84       4.15       1.97        .75    1302.90
   15400.0    1457.2    11826.8    2116.0      154.6      662.8      205.2      378.3       37.7    1301.50
       .27      9.42      17.84      10.31       .035       .035       .035       .000    1298.60    9942.10
  .006175      490.       523.       560.         20          8          0        .00     119.80   10061.90
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.54
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3470 ENCROACHMENT STATIONS= 9923.1 10081.0 TYPE= 1 TARGET= 157.900

19.210	16.90	1317.10	.00	1317.19	1318.95	1.85	1.88	.23	1312.00
15400.0	219.5	14969.9	210.6	55.2	1353.6	53.1	392.3	39.3	1312.00
.28	3.97	11.06	3.97	.035	.035	.035	.000	1300.20	9923.33
.002610	500.	491.	490.	3	0	0	.00	157.49	10080.82

CCHV= .300 CEHV= .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1324.00 ELREA= 1324.00

19.283	8.22	1319.92	1319.92	1319.92	1324.04	4.13	1.67	1.14	1311.70
14600.0	.0	14600.0	.0	.0	895.7	.0	402.8	40.5	1311.70
.29	.00	16.30	.00	.000	.035	.000	.000	1311.70	9948.00
.008889	390.	386.	390.	20	11	0	.00	109.00	10057.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1318.71 , NOT 1319.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	.00	109.00	4.50	1304.00	.00	1311.70	1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1320.16 BRIDGE VELOCITY= 16.51 CALCULATED CHANNEL AREA= 884.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1322.95	1324.65	.00	0.	14600.	1304.	1306.	1324.20	1326.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1325.00 ELREA= 1325.00

19.299	10.36	1322.06	.00	1322.06	1324.65	2.60	.61	.00	1311.70
14600.0	.0	14600.0	.0	.0	1128.7	.0	404.8	40.7	1311.70
.29	.00	12.94	.00	.000	.035	.000	.000	1311.70	9948.00
.004112	86.	86.	86.	0	0	0	.00	109.00	10057.00

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*SECNO 19.313
 2800 NAT Q1=    2287.58  WSELK=    1323.31  ENC Q1=    2700.20  WSEL=    1324.31  RATIO=   -.1804
 NAT Q1=    2700.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1324.31

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9932.0   10112.0  TYPE=      4  TARGET=         .000
    19.313     11.60   1323.30       .00   1323.31   1325.17      1.87       .30       .22   1327.90
   14600.0        .0   14600.0        .0        .0    1330.4        .0     406.9      40.9   1325.50
       .29       .00     10.97       .00      .000      .035      .000      .000   1311.70   9944.35
   .004078       75.       74.       75.         4         0         0       .00    159.64  10103.99


CCHV=     .100 CEHV=     .300
*SECNO 19.418
 2800 NAT Q1=    2296.67  WSELK=    1325.59  ENC Q1=    2729.66  WSEL=    1326.59  RATIO=   -.1885
 NAT Q1=    2731.  RATIOS LOB, CH, ROB=    .0000   .9994   .0006  WSEL=    1326.59

3470 ENCROACHMENT STATIONS=     9948.0   10120.0  TYPE=      4  TARGET=         .001
    19.418     12.59   1325.59       .00   1325.59   1327.43      1.83      2.25       .00   1328.00
   14600.0        .0   14600.0        .0        .0    1343.4        .0     423.9      42.9   1326.10
       .31       .00     10.87       .00      .000      .035      .000      .000   1313.00   9955.11
   .004041      570.      554.      530.         3         0         0       .00    162.69  10117.80


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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


*SECNO 19.560
 2800 NAT Q1=    2508.10  WSELK=    1328.21  ENC Q1=    2890.11  WSEL=    1329.21  RATIO=   -.1523
 NAT Q1=    2890.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1329.21

3470 ENCROACHMENT STATIONS=     9929.0   10065.0  TYPE=      4  TARGET=         .000
    19.560     12.61   1328.21       .00   1328.21   1330.15      1.93      2.69       .03   1329.70
   14600.0        .0   14600.0        .0        .0    1308.0        .0     446.0      45.4   1330.60
       .33       .00     11.16       .00      .000      .035      .000      .000   1315.60   9931.37
   .003382      730.      729.      720.         2         0         0       .00    129.63  10060.99


CCHV=     .300 CEHV=     .500
*SECNO 19.625
 2800 NAT Q1=    3892.33  WSELK=    1329.89  ENC Q1=    4433.23  WSEL=    1330.89  RATIO=   -.1390
 NAT Q1=    4433.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1330.89

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9965.0   10025.0  TYPE=      4  TARGET=         .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1332.00 ELREA=      1332.00

    19.625     12.35   1329.95       .00   1329.89   1330.87       .92       .42       .30   1317.60
    5700.0        .0    5700.0        .0        .0     741.2        .0     454.6      46.2   1317.60
       .34       .00      7.69       .00      .000      .015      .000      .000   1317.60   9965.00
   .000271      580.      364.       70.         3         0         0       .00     60.00  10025.00
```

SPECIA[illegible]DGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	60.00	2.00	564.00	.00	1318.60	1317.60

*SECNO 19.691
2800 NAT Q1= 4235.58 WSELK= 1331.53 ENC Q1= 4792.54 WSEL= 1332.53 RATIO= -.1315
NAT Q1= 4793. RATIOS LOB, CH, ROB= .0000 1.0000 .0000 WSEL= 1332.53
PRESSURE FLOW

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1332.43	1331.10	.08	0.	5700.	564.	563.	1328.30	1334.80	0.

3470 ENCROACHMENT STATIONS= 9965.0 10025.0 TYPE= 4 TARGET= .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1333.00 ELREA= 1333.00

19.691	13.00	1331.60	.00	1331.53	1332.43	.83	1.56	.00	1318.60
5700.0	.0	5700.0	.0	.0	780.3	.0	460.7	46.7	1318.60
.35	.00	7.30	.00	.000	.015	.000	.000	1318.60	9965.00
.000231	330.	350.	430.	2	0	0	.00	60.00	10025.00

*SECNO 19.742

3470 ENCROACHMENT STATIONS= 9953.0 10038.0 TYPE= 1 TARGET= 85.000

19.742	12.93	1332.03	.00	1331.99	1332.57	.54	.05	.09	100000.00
5700.0	.0	5700.0	.0	.0	969.0	.0	466.1	47.1	100000.00
.36	.00	5.88	.00	.000	.015	.000	.000	1319.10	9953.00
.000167	80.	269.	470.	2	0	0	.00	85.00	10038.00

CCHV= .100 CEHV= .300
*SECNO 19.847

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .36

3470 ENCROACHMENT STATIONS= 9957.0 10043.0 TYPE= 1 TARGET= 86.000

19.847	13.34	1332.14	.00	1332.14	1332.81	.67	.20	.04	100000.00
5700.0	.0	5700.0	.0	.0	868.5	.0	477.8	48.2	100000.00
.39	.00	6.56	.00	.000	.035	.000	.000	1318.80	9957.00
.001291	570.	554.	520.	0	0	0	.00	86.00	10043.00

*SECNO 19.960

3301 HV CHANGED MORE THAN HVINS

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .37


3470 ENCROACHMENT STATIONS=     9958.0   10031.0  TYPE=      1  TARGET=       73.000
    19.960      7.83   1332.43       .00   1332.37   1335.03      2.60       1.64        .58   1330.00
    5700.0        .0    5700.0        .0        .0     440.5        .0      486.8       49.3 100000.00
       .40       .00     12.94       .00      .000      .035      .000       .000    1324.60   9958.00
   .009425      640.      597.      560.         2         0         0        .00      73.00  10031.00


CCHV=     .300 CEHV=     .500
*SECNO 19.974

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.49


3470 ENCROACHMENT STATIONS=     9969.0   10020.0  TYPE=      1  TARGET=       51.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1336.00 ELREA=      1336.00

    19.974      9.87   1333.67       .00   1333.31   1335.66      1.99        .45        .18   1323.80
    5700.0        .0    5700.0        .0        .0     503.0        .0      487.6       49.4 100000.00
       .40       .00     11.33       .00      .000      .035      .000       .000    1323.80   9969.00
   .004262      105.       74.       65.         3         0         0        .00      51.00  10020.00


SPECIAL BRIDGE

SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.25       1.56       3.00        .00      51.00       3.00     480.00       .00    1324.10    1323.80

*SECNO 19.986
BTCARD, BRIDGE STENCL=    9969.00   STENCR=   10020.00

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


  EGPRS      EGLWC      H3         QWEIR      QPR        BAREA    TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                     AREA
   1337.08   1336.16       .79         0.      5700.      480.      480.      1334.10    1337.90         0.


3470 ENCROACHMENT STATIONS=     9969.0   10020.0  TYPE=      1  TARGET=       51.000
```

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1337.00 ELREA= 1337.00

19.986	11.92	1335.72	.00	1335.25	1337.08	1.37	1.42	.00	1323.80
5700.0	.0	5700.0	.0	.0	607.9	.0	488.4	49.5	100000.00
.40	.00	9.38	.00	.000	.035	.000	.000	1323.80	9969.00
.002370	61.	61.	61.	3	0	0	.00	51.00	10020.00

*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9975.0 10025.0 TYPE= 1 TARGET= 50.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1340.00 ELREA= 100000.00

20.049	11.10	1338.20	1338.20	1338.35	1341.96	3.76	1.48	1.20	100000.00
5700.0	.0	5700.0	.0	.0	366.4	.0	492.1	49.9	100000.00
.41	.00	15.56	.00	.000	.035	.000	.000	1327.10	9975.00
.011186	305.	333.	345.	20	11	0	.00	49.93	10024.93

CCHV= .100 CEHV= .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.73

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9972.0 10029.0 TYPE= 1 TARGET= 57.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1344.00 ELREA= 1340.80

20.144	12.48	1343.38	.00	1343.48	1345.17	1.79	3.01	.20	100000.00
5700.0	.0	5671.1	28.9	.0	526.6	9.6	497.3	50.5	1340.80
.42	.00	10.77	3.02	.000	.035	.040	.000	1330.90	9972.00
.003733	490.	502.	500.	2	0	0	.00	57.00	10029.00

*SECNO 20.242

3470 ENCROACHMENT STATIONS= 9964.0 10035.0 TYPE= 1 TARGET= 71.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1348.00 ELREA= 1342.80

20.242	12.21	1345.51	.00	1345.49	1347.16	1.65	1.98	.01	100000.00
5700.0	.0	5645.3	54.7	.0	545.7	15.7	503.8	51.2	1342.80
.44	.00	10.35	3.49	.000	.035	.040	.000	1333.30	9964.00
.003905	470.	517.	560.	3	0	0	.00	71.00	10035.00

*SECNO 20.335

3470 ENCROACHMENT STATIONS= 9963.0 10036.0 TYPE= 1 TARGET= 73.000

20.335	10.24	1347.54	.00	1347.44	1348.79	1.25	1.59	.04	100000.00
5700.0	.0	5672.0	28.0	.0	630.1	10.2	510.6	52.0	1344.00
.45	.00	9.00	2.76	.000	.035	.040	.000	1337.30	9963.00
.002739	510.	491.	470.	2	0	0	.00	73.00	10036.00

CCHV= .300 CEHV= .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1351.50 ELREA= 1351.50

20.347	10.22	1347.42	.00	1347.24	1349.28	1.86	.18	.30	1337.20
5700.0	.0	5700.0	.0	.0	521.2	.0	511.4	52.1	1337.20
.45	.00	10.94	.00	.000	.035	.000	.000	1337.20	9970.00
.002991	1.	63.	150.	2	0	0	.00	51.00	10021.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1337.70	1337.20

*SECNO 20.366
PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1349.79	1349.73	.68	0.	5700.	576.	576.	1349.70	1354.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.366	10.98	1348.18	.00	1347.97	1349.79	1.61	.52	.00	1337.20
5700.0	.0	5700.0	.0	.0	560.2	.0	512.7	52.3	1337.20
.46	.00	10.17	.00	.000	.035	.000	.000	1337.20	9970.00
.002352	100.	100.	100.	3	0	0	.00	51.00	10021.00

*SECNO 20.423

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9958.0 10072.0 TYPE= 1 TARGET= 114.000

20.423	11.71	1349.71	.00	1349.57	1350.61	.91	.61	.21	1345.00
5700.0	107.1	5250.9	342.0	39.5	665.4	90.5	517.3	52.8	1344.30
.47	2.71	7.89	3.78	.040	.035	.040	.000	1338.00	9958.20

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   .001[illegible]      415.      301.      205.        3        0        0[illegible]   .00    113.80  10072.00

*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1352.50 ELREA=      1352.50

    20.430      9.97   1349.27       .00   1349.13   1351.22      1.95       .09       .52   1339.30
    5700.0        .0    5700.0        .0        .0     508.8        .0     517.9      52.9   1339.30
       .47       .00     11.20       .00      .000      .035      .000      .000   1339.30   9985.00
   .003242        1.       37.       65.         2         0         0       .00     51.00  10036.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

SPECIAL BRIDGE

SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.25       1.56       3.00     100.00      51.00       3.00     576.00        .00   1339.30    1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.=    1348.77 BRIDGE VELOCITY=      12.54     CALCULATED CHANNEL AREA=       455.

 EGPRS      EGLWC      H3         QWEIR      QLOW       BAREA      TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                     AREA
   1351.64   1351.71     .75         0.      5700.       576.       576.      1351.30    1355.50        0.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1353.50 ELREA=      1353.50

    20.444     10.72   1350.02       .00   1349.92   1351.71      1.69       .49       .00   1339.30
    5700.0        .0    5700.0        .0        .0     546.8        .0     518.7      53.0   1339.30
       .47       .00     10.43       .00      .000      .035      .000      .000   1339.30   9985.00
   .002550       70.       70.       70.         0         0         0       .00     51.00  10036.00

*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     9930.0   10069.0  TYPE=      1  TARGET=      139.000
    20.529      9.24   1352.24       .00   1352.25   1353.01       .77      1.02       .28   1350.20
    5700.0      79.8    5564.0      56.2      32.8     783.6      24.7     525.9      54.0   1350.40
       .49      2.44      7.10      2.28      .040      .035      .040      .000   1343.00   9930.00
   .002052      545.      449.      375.         3         0         0       .00    139.00  10069.00

CCHV=     .100 CEHV=     .300
*SECNO 20.628

3470 ENCROACHMENT STATIONS=     9935.0   10065.0  TYPE=      1  TARGET=      130.000
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    20.628      10.04   1353.34       .00   1353.31   1353.79       .45       .75       .03 100000.00
    5700.0         .0    5700.0        .0        .0    1059.1        .0     537.3      55.6 100000.00
       .52        .00      5.38       .00      .000      .035      .000      .000   1343.30   9935.00
   .001054       530.      523.      520.         2         0         0       .00    130.00  10065.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9962.0   10026.0  TYPE=      1  TARGET=       64.000
    20.725       8.74   1355.94   1355.94   1356.04   1359.12      3.18      1.26       .82 100000.00
    5700.0         .0    5700.0        .0        .0     398.2        .0     545.9      56.7 100000.00
       .53        .00     14.31       .00      .000      .035      .000      .000   1347.20   9962.00
   .011046       510.      512.      520.        20        15         0       .00     64.00  10026.00

CCHV=     .300 CEHV=     .500
*SECNO 20.737
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1363.00 ELREA=      1363.00

    20.737       7.30   1358.20   1358.20   1358.17   1361.84      3.64       .80       .23   1350.90
    5700.0         .0    5700.0        .0        .0     372.1        .0     546.6      56.8   1350.90
       .53        .00     15.32       .00      .000      .035      .000      .000   1350.90   9968.00
   .009201        80.       80.        80.        20        11         0       .00     51.00  10019.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1356.93 , NOT    1358.20 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.25       1.56       3.00     100.00      51.00       3.00     576.00        .00   1351.00    1350.90

*SECNO 20.750

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.58
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
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SLO	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	ORAR	TOPWID	ENDST

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1358.54 BRIDGE VELOCITY= 15.64 CALCULATED CHANNEL AREA= 362.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1362.70	.00	0.	5700.	576.	576.	1363.00	1366.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1364.00 ELREA= 1364.00

20.750	9.60	1360.60	.00	1360.60	1362.70	2.11	.86	.00	1351.00
5700.0	.0	5700.0	.0	.0	489.5	.0	547.3	56.9	1351.00
.53	.00	11.64	.00	.000	.035	.000	.000	1351.00	9968.00
.003686	71.	71.	71.	0	0	0	.00	51.00	10019.00

*SECNO 20.819

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1366.90 ELREA= 1366.90

20.819	5.87	1362.37	.00	1362.37	1364.78	2.41	1.92	.15	1356.50
5700.0	.0	5700.0	.0	.0	457.7	.0	551.2	57.4	1356.50
.54	.00	12.45	.00	.000	.035	.000	.000	1356.50	9965.00
.008131	375.	365.	345.	3	0	0	.00	78.00	10043.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1361.20 , NOT 1362.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	77.30	3.30	655.00	.00	1357.40	1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1362.64 BRIDGE VELOCITY= 13.54 CALCULATED CHANNEL AREA= 388.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1364.20	1366.08	.00	0.	5700.	655.	592.	1365.40	1369.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1367.90 ELREA= 1367.90

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   20.841      6.98   1364.38       .00   1364.38   1366.08      1.70      1.31       .00   1357.40
   5700.0        .0    5700.0        .0        .0     544.7        .0     552.6      57.6   1357.40
      .54       .00     10.46       .00      .000      .035      .000      .000   1357.40   9965.00
  .004551      115.      115.      115.         0         0         0       .00     78.00  10043.00

*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.51

3470 ENCROACHMENT STATIONS=     9904.0   10060.0  TYPE=      1  TARGET=      156.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1365.30 ELREA=      1367.60

   20.860      9.64   1365.94       .00   1365.98   1366.67       .72       .29       .29   1365.30
   5700.0      26.8    5673.2        .0      22.9     828.9        .0     554.2      57.9 100000.00
      .54      1.17      6.84       .00      .040      .035      .000      .000   1356.30   9904.00
  .002004       90.      100.      110.         3         0         0       .00    156.00  10060.00

CCHV=     .100 CEHV=     .300
*SECNO 20.942

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .65

3470 ENCROACHMENT STATIONS=     9860.0   10110.0  TYPE=      1  TARGET=      250.000
1
   18APR06      16:01:36                                                                          PAGE   76

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

   20.942      7.63   1367.23       .00   1367.29   1367.96       .74      1.29       .00 100000.00
   5700.0        .0    4745.2     954.8        .0     657.8     192.3     562.8      60.0   1366.50
      .56       .00      7.21      4.97      .000      .035      .035      .000   1359.60   9860.00
  .004787      530.      433.      490.         2         0         0       .00    250.00  10110.00

*SECNO 21.036

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9810.0   10060.0  TYPE=      1  TARGET=      250.000
   21.036      7.98   1371.48   1371.48   1371.95   1373.10      1.62      2.89       .26   1370.70
   5700.0     112.5    5545.8      41.7      52.9     536.0      19.5     571.1      62.9   1370.40
      .58      2.13     10.35      2.14      .040      .035      .040      .000   1363.50   9810.00
  .007272      490.      496.      490.         4         8         0       .00    250.00  10060.00

*SECNO 21.127

3470 ENCROACHMENT STATIONS=     9900.0   10060.0  TYPE=      1  TARGET=      160.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1374.00 ELREA=    100000.00
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   21.127       7.93   1374.63   1374.23   1374.75   1376.44      1.81      3.28       .06   1374.20
   5700.0      130.2    5569.8        .0      53.9     510.7        .0     577.4      65.0 100000.00
      .59       2.42     10.91       .00      .040      .035      .000      .000   1366.70   9900.00
  .006491       400.      480.      500.         4         8         0       .00    160.00  10060.00

*SECNO 21.230

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9900.0   10125.0  TYPE=      1  TARGET=      225.000
   21.230       8.37   1380.37   1380.37   1380.36   1381.88      1.52      3.89       .03   1379.30
   5700.0      251.2    4277.1    1171.6      71.9     392.1     188.7     585.0      67.3   1380.60
      .60       3.49     10.91      6.21      .040      .035      .040      .000   1372.00   9900.00
  .008046       560.      544.      500.         2         8         0       .00    221.77  10125.00
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 21.363
3280 CROSS SECTION     21.36 EXTENDED       .59 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.26

3470 ENCROACHMENT STATIONS=     9930.0   10130.0  TYPE=      1  TARGET=      200.000
   21.363       9.48   1383.58       .00   1383.37   1384.11       .53      2.12       .10 100000.00
   5700.0         .0    5684.3      15.7        .0     973.2      13.0     598.2      70.5   1382.10
      .64        .00      5.84      1.21      .000      .035      .040      .000   1374.10   9939.05
  .001572       740.      702.      700.         3         0         0       .00    166.44  10105.49

*SECNO 21.484

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9852.0   10077.0  TYPE=      1  TARGET=      225.000
   21.484       8.59   1387.09   1387.09   1386.53   1388.54      1.45      1.90       .28   1386.90
   5700.0      967.4    4674.8      57.9     169.6     452.1      25.2     610.1      73.2   1386.50
      .66       5.70     10.34      2.30      .040      .035      .040      .000   1378.50   9852.00
  .007569       650.      639.      520.        20        10         0       .00    215.51  10077.00

*SECNO 21.576
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3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9940.0 10165.0 TYPE= 1 TARGET= 225.000

21.576	8.08	1390.18	.00	1389.24	1391.06	.88	2.46	.06	1390.00
5700.0	16.5	4724.2	959.3	13.1	587.5	214.0	617.9	75.4	1388.30
.67	1.25	8.04	4.48	.040	.035	.040	.000	1382.10	9940.00
.003827	320.	486.	480.	2	0	0	.00	225.00	10165.00

*SECNO 21.669
3280 CROSS SECTION 21.67 EXTENDED .59 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9890.0 10115.0 TYPE= 1 TARGET= 225.000

21.669	9.89	1393.89	1393.89	1393.38	1395.24	1.35	2.45	.14	1393.80
5500.0	629.5	3935.4	935.1	132.0	372.7	181.3	626.2	77.9	1392.00
.69	4.77	10.56	5.16	.040	.035	.040	.000	1384.00	9890.00
.007088	440.	491.	470.	20	9	0	.00	225.00	10115.00

*SECNO 21.742

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

3470 ENCROACHMENT STATIONS= 9940.0 10140.0 TYPE= 1 TARGET= 200.000

21.742	9.76	1396.16	.00	1395.18	1396.95	.79	1.66	.06	1394.70
5500.0	87.3	5127.9	284.8	40.6	697.0	94.6	633.0	79.8	1394.20
.70	2.15	7.36	3.01	.040	.035	.040	.000	1386.40	9940.00
.002841	430.	385.	390.	2	0	0	.00	200.00	10140.00

*SECNO 21.840

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

3470 ENCROACHMENT STATIONS= 9900.0 10100.0 TYPE= 1 TARGET= 200.000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

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   21.840      6.82   1397.92       .00   1398.04   1399.09      1.17      2.02       .11   1396.20
   5500.0     625.7    4701.1     173.2     119.2     511.9      54.7     641.7      82.0   1397.00
      .72      5.25      9.18      3.17      .040      .035      .040      .000   1391.10   9900.00
  .005989      430.      517.      430.         2         0         0       .00    200.00  10100.00

*SECNO 21.895

3470 ENCROACHMENT STATIONS=     9830.0   10080.0  TYPE=      1  TARGET=      250.000
   21.895      7.82   1399.72       .00   1399.67   1401.04      1.32      1.90       .05   1398.00
   5500.0    1891.4    3424.0     184.5     333.8     314.5      54.1     646.5      83.5   1397.70
      .73      5.67     10.89      3.41      .040      .035      .040      .000   1391.90   9834.63
  .006875      330.      290.      220.         3         0         0       .00    245.37  10080.00

*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.29

3470 ENCROACHMENT STATIONS=     9650.0   10070.0  TYPE=      1  TARGET=      420.000
   21.933      4.68   1401.48       .00   1400.86   1401.69       .20       .53       .11   1398.00
   5500.0    2120.4    3379.6        .0     708.6     857.3        .0     651.9      85.1 100000.00
      .75      2.99      3.94       .00      .040      .035      .000      .000   1396.80   9650.00
  .001314      210.      210.      210.         2         0         0       .00    420.00  10070.00

*SECNO 21.953

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .40

3470 ENCROACHMENT STATIONS=     9630.0   10051.0  TYPE=      1  TARGET=      421.000
   21.953      7.20   1401.20       .00   1401.06   1402.09       .89       .20       .21   1400.20
   5500.0    2410.7    2933.1     156.2     454.9     321.8      35.3     654.0      85.7   1398.30
      .75      5.30      9.11      4.43      .045      .045      .045      .000   1394.00   9630.00
  .008342       75.       74.       75.         3         0         0       .00    310.27  10051.00

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 22.065

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS
```

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3470 ENCROACHMENT STATIONS= 9620.0 10030.0 TYPE= 1 TARGET= 410.000

22.065	8.68	1404.48	.00	1404.08	1404.84	.36	2.69	.05	1404.10
5500.0	3697.1	1792.4	10.5	839.8	320.8	4.9	665.0	89.5	1402.00
.78	4.40	5.59	2.16	.045	.045	.045	.000	1395.80	9620.00
.003732	430.	591.	630.	3	0	0	.00	396.88	10030.00

*SECNO 22.165

3265 DIVIDED FLOW

3280 CROSS SECTION 22.17 EXTENDED .36 FEET

3470 ENCROACHMENT STATIONS= 9620.0 10020.0 TYPE= 1 TARGET= 400.000

22.165	11.06	1406.06	.00	1405.25	1406.42	.36	1.58	.00	1400.90
5500.0	3632.3	1859.8	8.0	953.4	294.5	4.6	679.7	94.2	1403.70
.81	3.81	6.31	1.73	.045	.045	.045	.000	1395.00	9620.00
.002451	530.	528.	530.	3	0	0	.00	381.09	10020.00

*SECNO 22.273

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

3470 ENCROACHMENT STATIONS= 9650.0 10027.0 TYPE= 1 TARGET= 377.000

22.273	8.21	1407.61	.00	1406.66	1408.32	.72	1.80	.11	1404.10
5500.0	1439.3	4060.7	.0	336.1	542.6	.0	692.2	98.0	100000.00
.83	4.28	7.48	.00	.045	.045	.000	.000	1399.40	9650.00
.005127	470.	570.	580.	2	0	0	.00	292.44	10027.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 22.410

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9860.0 10040.0 TYPE= 1 TARGET= 180.000

22.410	10.09	1414.09	1414.09	1414.22	1416.01	1.92	4.99	.36	1410.70
5500.0	717.5	4672.2	110.3	142.7	393.2	23.9	704.2	101.9	1411.30
.85	5.03	11.88	4.63	.045	.045	.045	.000	1404.00	9860.00
.009664	750.	723.	630.	5	11	0	.00	159.26	10040.00

*SECNO 83

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.12

3470 ENCROACHMENT STATIONS= 9890.0 10050.0 TYPE= 1 TARGET= 160.000

22.483	11.24	1416.74	.00	1416.46	1417.04	.30	.87	.16	1411.10	
5500.0	505.1	4994.9	.0	194.8	1098.2	.0	712.4	103.3	100000.00	
.87	2.59	4.55	.00	.045	.045	.000	.000	1405.50	9890.00	
.000990	380.	385.	390.	3	0	0	.00	160.00	10050.00	

*SECNO 22.500

3470 ENCROACHMENT STATIONS= 9925.0 10055.0 TYPE= 1 TARGET= 130.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 100000.00 ELREA= 100000.00

22.500	10.99	1416.80	.00	1416.55	1417.21	.41	.13	.03	100000.00	
5500.0	.0	5500.0	.0	.0	1066.5	.0	715.2	103.6	100000.00	
.88	.00	5.16	.00	.000	.045	.000	.000	1405.80	9925.00	
.001657	110.	103.	95.	2	0	0	.00	130.00	10055.00	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 22.578

3470 ENCROACHMENT STATIONS= 9968.0 10064.0 TYPE= 1 TARGET= 96.000

22.578	10.72	1417.42	.00	1416.56	1418.17	.75	.86	.10	1416.60	
5500.0	.0	5500.0	.0	.0	792.0	.0	723.7	104.6	100000.00	
.90	.00	6.94	.00	.000	.045	.000	.000	1406.70	9968.00	
.002910	415.	400.	395.	2	0	0	.00	96.00	10064.00	

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.66

3470 ENCROACHMENT STATIONS= 9830.0 10028.0 TYPE= 1 TARGET= 198.000

22.675	9.13	1418.83	.00	1418.12	1419.06	.23	.84	.05	100000.00	
5500.0	.0	5500.0	.0	.0	1430.2	.0	736.8	106.4	100000.00	
.93	.00	3.85	.00	.000	.045	.000	.000	1409.70	9830.00	
.001051	570.	512.	480.	2	0	0	.00	198.00	10028.00	

*SECNO 22.794

3470 ENCROACHMENT STATIONS= 9977.0 10160.0 TYPE= 1 TARGET= 183.000

22.794	8.87	1419.57	.00	1418.63	1419.91	.33	.82	.03	1417.80	
5500.0	10.3	5489.7	.0	7.3	1182.2	.0	755.6	109.1	100000.00	
.97	1.41	4.64	.00	.045	.045	.000	.000	1410.70	9977.00	

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   .001645      460.      628.      500.         2         0         0       .00    183.00  10160.00

*SECNO 22.880

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .52

3470 ENCROACHMENT STATIONS=     9951.0   10120.0  TYPE=      1  TARGET=      169.000
    22.880      7.57   1420.57       .00   1420.07   1421.34       .77      1.30       .13 100000.00
    5500.0        .0    5500.0        .0        .0     781.6        .0     765.9     110.9 100000.00
       .99       .00      7.04       .00      .000      .045      .000      .000   1413.00   9951.00
   .006138      440.      454.      480.         2         0         0       .00    169.00  10120.00


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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 22.990

3470 ENCROACHMENT STATIONS=     9890.0   10026.0  TYPE=      1  TARGET=      136.000
    22.990      6.72   1424.62       .00   1423.63   1425.77      1.14      4.32       .11 100000.00
    5500.0        .0    5500.0        .0        .0      640.5       .0     775.4     113.0 100000.00
      1.01       .00      8.59       .00      .000      .045      .000      .000   1417.90   9890.00
   .009178      480.      581.      530.         2         0         0       .00    136.00  10026.00

*SECNO 23.097

3470 ENCROACHMENT STATIONS=     9958.0   10090.0  TYPE=      1  TARGET=      132.000
    23.097      5.51   1430.61       .00   1429.89   1432.10      1.49      6.23       .10 100000.00
    5500.0        .0    5500.0        .0        .0      562.2       .0     783.2     114.7 100000.00
      1.02       .00      9.78       .00      .000      .045      .000      .000   1425.10   9958.00
   .013496      640.      565.      490.         3         0         0       .00    132.00  10090.00


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   18APR06      16:01:36                                                                          PAGE    84


                                                                    THIS RUN EXECUTED 18APR06     16:01:36
*************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
*************************************


NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

CAVE CREEK WASH

SUMMARY PRINTOUT

      SECNO     ELMIN     CWSEL     SSTA      ENDST     TOPWID    DEPTH     Q         HV        DIFWSX    QWEIR     ELTRD     ELLC
```

	1[illegible]8	1269.60	1283.69	9777.93	10229.71	451.78	14.0[illegible]	15400.00	.33	.00	.00	.00	.00
	17.588	1269.60	1284.69	9855.24	10193.00	337.76	15.09	15400.00	.39	.00	.00	.00	.00
*	17.662	1271.60	1283.82	9829.44	10149.15	319.71	12.22	15400.00	.89	.13	.00	.00	.00
*	17.662	1271.60	1284.81	9900.00	10150.00	250.00	13.21	15400.00	.96	.12	.00	.00	.00
*	17.783	1275.40	1285.58	9900.35	10101.72	201.37	10.18	15400.00	2.28	1.76	.00	.00	.00
*	17.783	1275.40	1286.37	9921.00	10064.00	143.00	10.97	15400.00	2.28	1.56	.00	.00	.00
	17.932	1277.90	1290.98	9921.07	10085.31	164.24	13.08	15400.00	3.62	5.40	.00	.00	.00
	17.932	1277.90	1291.41	9956.00	10066.00	110.00	13.51	15400.00	3.36	5.03	.00	.00	.00
*	18.042	1282.30	1294.31	9951.61	10048.37	96.76	12.01	15400.00	3.83	3.33	.00	.00	.00
*	18.042	1282.30	1294.43	9951.60	10048.38	96.78	12.13	15400.00	3.74	3.03	.00	.00	.00
	18.061	1283.10	1296.44	9951.54	10048.43	96.89	13.34	15400.00	2.99	2.13	.00	1301.60	1293.20
	18.061	1283.10	1296.69	9951.53	10048.45	96.91	13.59	15400.00	2.86	2.26	.00	1301.60	1293.20
*	18.081	1281.10	1299.54	9876.94	10106.51	229.58	18.44	15400.00	.71	3.10	.00	.00	.00
*	18.081	1281.10	1299.61	9900.00	10085.00	185.00	18.51	15400.00	.71	2.92	.00	.00	.00
	18.174	1281.70	1300.22	9856.87	10454.71	597.84	18.52	15400.00	.30	.68	.00	.00	.00
	18.174	1281.70	1300.18	9857.02	10125.00	267.98	18.48	15400.00	.45	.57	.00	.00	.00
*	18.269	1283.80	1300.17	9881.86	10110.59	228.73	16.37	15400.00	.76	-.05	.00	.00	.00
	18.269	1283.80	1300.30	9882.20	10110.00	227.80	16.50	15400.00	.74	.12	.00	.00	.00
	18.362	1285.30	1300.54	9895.20	10108.18	212.97	15.24	15400.00	.97	.36	.00	.00	.00
	18.362	1285.30	1300.64	9895.60	10107.80	212.20	15.34	15400.00	.95	.35	.00	.00	.00
*	18.445	1287.30	1305.39	9885.22	10271.68	386.47	18.09	15400.00	2.09	4.85	.00	.00	.00
*	18.445	1287.30	1304.91	9888.33	10110.00	221.67	17.61	15400.00	2.86	4.27	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	18.456	1287.70	1307.31	9873.21	10316.94	443.73	19.61	15400.00	1.00	1.92	15108.43	1299.50	1294.20
*	18.456	1287.70	1308.52	9885.00	10110.00	225.00	20.82	15400.00	1.05	3.61	15030.78	1299.50	1294.20
*	18.545	1289.30	1308.28	9881.31	10169.98	288.68	18.98	15400.00	.47	.97	.00	.00	.00
*	18.545	1289.30	1309.56	9881.40	10169.80	288.40	20.26	15400.00	.37	1.04	.00	.00	.00
	18.575	1289.30	1308.43	9880.61	10170.93	290.32	19.13	15400.00	.41	.14	.00	.00	.00
	18.575	1289.30	1309.67	9880.70	10170.80	290.10	20.37	15400.00	.32	.10	.00	.00	.00
	18.583	1289.40	1309.50	9875.91	10177.35	301.44	20.10	15400.00	.34	1.07	14974.04	1299.00	1295.40
	18.583	1289.40	1310.09	9876.10	10177.20	301.10	20.69	15400.00	.31	.42	15165.87	1299.00	1295.40
	18.640	1290.20	1309.43	9879.37	10134.89	255.52	19.23	15400.00	.64	-.07	.00	.00	.00
	18.640	1290.20	1310.02	9879.60	10134.70	255.10	19.82	15400.00	.57	-.06	.00	.00	.00
	18.734	1292.40	1309.68	9883.01	10111.84	228.83	17.28	15400.00	.84	.26	.00	.00	.00
	18.734	1292.40	1310.24	9883.20	10111.70	228.50	17.84	15400.00	.75	.21	.00	.00	.00
	18.832	1293.20	1310.19	9891.67	10107.84	216.17	16.99	15400.00	.85	.51	.00	.00	.00
	18.832	1293.20	1310.66	9891.80	10107.00	215.20	17.46	15400.00	.78	.43	.00	.00	.00
	18.925	1294.60	1310.64	9887.57	10087.64	200.07	16.04	15400.00	.97	.45	.00	.00	.00
	18.925	1294.60	1311.05	9887.70	10087.50	199.80	16.45	15400.00	.89	.39	.00	.00	.00
*	19.018	1297.60	1310.89	9866.12	10038.56	172.44	13.29	15400.00	1.80	.26	.00	.00	.00
*	19.018	1297.60	1311.26	9866.30	10038.50	172.20	13.66	15400.00	1.66	.21	.00	.00	.00
*	19.117	1298.60	1312.49	9942.00	10062.09	120.09	13.89	15400.00	4.37	1.59	.00	.00	.00

*	19.117	1298.60	1312.68	9942.10	10061.90	119.80	14.08	15400.00	4.15	1.43	.00	.00	.00
*	19.210	1300.20	1317.19	9922.94	10081.20	158.26	16.99	15400.00	1.82	4.70	.00	.00	.00
*	19.210	1300.20	1317.10	9923.33	10080.82	157.49	16.90	15400.00	1.85	4.42	.00	.00	.00
*	19.283	1311.70	1319.92	9948.00	10057.00	109.00	8.22	14600.00	4.12	2.73	.00	.00	.00
*	19.283	1311.70	1319.92	9948.00	10057.00	109.00	8.22	14600.00	4.13	2.82	.00	.00	.00
*	19.299	1311.70	1322.06	9948.00	10057.00	109.00	10.36	14600.00	2.60	2.13	.00	1326.50	1324.20
*	19.299	1311.70	1322.06	9948.00	10057.00	109.00	10.36	14600.00	2.60	2.14	.00	1326.50	1324.20
	19.313	1311.70	1323.31	9944.34	10104.00	159.66	11.61	14600.00	1.87	1.25	.00	.00	.00
	19.313	1311.70	1323.30	9944.35	10103.99	159.64	11.60	14600.00	1.87	1.25	.00	.00	.00
	19.418	1313.00	1325.59	9955.11	10117.80	162.69	12.59	14600.00	1.83	2.29	.00	.00	.00
	19.418	1313.00	1325.59	9955.11	10117.80	162.69	12.59	14600.00	1.83	2.29	.00	.00	.00
	19.560	1315.60	1328.21	9931.38	10060.98	129.60	12.61	14600.00	1.94	2.62	.00	.00	.00
	19.560	1315.60	1328.21	9931.37	10060.99	129.63	12.61	14600.00	1.93	2.62	.00	.00	.00
*	19.625	1317.60	1329.89	9965.00	10025.00	60.00	12.29	5700.00	.93	1.68	.00	.00	.00
	19.625	1317.60	1329.95	9965.00	10025.00	60.00	12.35	5700.00	.92	1.74	.00	.00	.00

SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
19.691	1318.60	1331.53	9965.00	10025.00	60.00	12.93	5700.00	.84	1.64	.00	1334.80	1328.30
19.691	1318.60	1331.60	9965.00	10025.00	60.00	13.00	5700.00	.83	1.65	.00	1334.80	1328.30
19.742	1319.10	1331.99	9935.22	10043.57	108.35	12.89	5700.00	.52	.46	.00	.00	.00
19.742	1319.10	1332.03	9953.00	10038.00	85.00	12.93	5700.00	.54	.43	.00	.00	.00
* 19.847	1318.80	1332.14	9940.63	10050.49	109.85	13.34	5700.00	.59	.15	.00	.00	.00
* 19.847	1318.80	1332.14	9957.00	10043.00	86.00	13.34	5700.00	.67	.11	.00	.00	.00
* 19.960	1324.60	1332.37	9950.40	10037.28	86.88	7.77	5700.00	2.55	.24	.00	.00	.00
* 19.960	1324.60	1332.43	9958.00	10031.00	73.00	7.83	5700.00	2.60	.29	.00	.00	.00
* 19.974	1323.80	1333.31	9969.00	10020.00	51.00	9.51	5700.00	2.14	.94	.00	.00	.00
* 19.974	1323.80	1333.67	9969.00	10020.00	51.00	9.87	5700.00	1.99	1.24	.00	.00	.00
19.986	1323.80	1335.25	9969.00	10020.00	51.00	11.45	5700.00	1.48	1.94	.00	1337.90	1334.10
19.986	1323.80	1335.72	9969.00	10020.00	51.00	11.92	5700.00	1.37	2.05	.00	1337.90	1334.10
* 20.049	1327.10	1338.35	9971.56	10025.19	53.63	11.25	5700.00	3.54	3.10	.00	.00	.00
* 20.049	1327.10	1338.20	9975.00	10024.93	49.93	11.10	5700.00	3.76	2.49	.00	.00	.00
* 20.144	1330.90	1343.48	9960.58	10044.51	83.94	12.58	5700.00	1.58	5.13	.00	.00	.00
* 20.144	1330.90	1343.38	9972.00	10029.00	57.00	12.48	5700.00	1.79	5.17	.00	.00	.00
20.242	1333.30	1345.49	9961.30	10049.98	88.68	12.19	5700.00	1.57	2.00	.00	.00	.00
20.242	1333.30	1345.51	9964.00	10035.00	71.00	12.21	5700.00	1.65	2.13	.00	.00	.00
20.335	1337.30	1347.44	9950.57	10038.88	88.31	10.14	5700.00	1.17	1.95	.00	.00	.00
20.335	1337.30	1347.54	9963.00	10036.00	73.00	10.24	5700.00	1.25	2.03	.00	.00	.00
20.347	1337.20	1347.24	9970.00	10021.00	51.00	10.04	5700.00	1.92	-.20	.00	.00	.00
20.347	1337.20	1347.42	9970.00	10021.00	51.00	10.22	5700.00	1.86	-.12	.00	.00	.00
20.366	1337.20	1347.97	9970.00	10021.00	51.00	10.77	5700.00	1.67	.73	.00	1354.50	1349.70
20.366	1337.20	1348.18	9970.00	10021.00	51.00	10.98	5700.00	1.61	.76	.00	1354.50	1349.70
20.423	1338.00	1349.57	9958.69	10071.51	112.82	11.57	5700.00	.94	1.60	.00	.00	.00
20.423	1338.00	1349.71	9958.20	10072.00	113.80	11.71	5700.00	.91	1.52	.00	.00	.00

20.430	1339.30	1349.13	9985.00	10036.00	51.00	9.83	5700.00	2.01	-.44	.00	.00	.00
20.430	1339.30	1349.27	9985.00	10036.00	51.00	9.97	5700.00	1.95	-.43	.00	.00	.00
20.444	1339.30	1349.92	9985.00	10036.00	51.00	10.62	5700.00	1.72	.80	.00	1355.50	1351.30
20.444	1339.30	1350.02	9985.00	10036.00	51.00	10.72	5700.00	1.69	.75	.00	1355.50	1351.30
20.529	1343.00	1352.25	9905.35	10095.18	189.83	9.25	5700.00	.70	2.33	.00	.00	.00
20.529	1343.00	1352.24	9930.00	10069.00	139.00	9.24	5700.00	.77	2.22	.00	.00	.00
20.628	1343.30	1353.31	9917.80	10068.41	150.61	10.01	5700.00	.43	1.06	.00	.00	.00
20.628	1343.30	1353.34	9935.00	10065.00	130.00	10.04	5700.00	.45	1.10	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	20.725	1347.20	1356.04	9959.29	10026.51	67.22	8.84	5700.00	3.06	2.72	.00	.00	.00
*	20.725	1347.20	1355.94	9962.00	10026.00	64.00	8.74	5700.00	3.18	2.60	.00	.00	.00
*	20.737	1350.90	1358.17	9968.00	10019.00	51.00	7.27	5700.00	3.67	2.13	.00	.00	.00
*	20.737	1350.90	1358.20	9968.00	10019.00	51.00	7.30	5700.00	3.64	2.25	.00	.00	.00
*	20.750	1351.00	1360.60	9968.00	10019.00	51.00	9.60	5700.00	2.11	2.43	.00	1366.00	1363.00
*	20.750	1351.00	1360.60	9968.00	10019.00	51.00	9.60	5700.00	2.11	2.40	.00	1366.00	1363.00
*	20.819	1356.50	1362.37	9965.00	10043.00	78.00	5.87	5700.00	2.41	1.77	.00	.00	.00
*	20.819	1356.50	1362.37	9965.00	10043.00	78.00	5.87	5700.00	2.41	1.77	.00	.00	.00
*	20.841	1357.40	1364.38	9965.00	10043.00	78.00	6.98	5700.00	1.70	2.01	.00	1369.90	1365.40
*	20.841	1357.40	1364.38	9965.00	10043.00	78.00	6.98	5700.00	1.70	2.01	.00	1369.90	1365.40
*	20.860	1356.30	1365.98	9800.89	10062.04	261.14	9.68	5700.00	.69	1.60	.00	.00	.00
*	20.860	1356.30	1365.94	9904.00	10060.00	156.00	9.64	5700.00	.72	1.56	.00	.00	.00
	20.942	1359.60	1367.29	9629.81	10168.29	313.22	7.69	5700.00	.43	1.31	.00	.00	.00
*	20.942	1359.60	1367.23	9860.00	10110.00	250.00	7.63	5700.00	.74	1.29	.00	.00	.00
*	21.036	1363.50	1371.95	9568.93	10089.02	520.10	8.45	5700.00	1.12	4.66	.00	.00	.00
*	21.036	1363.50	1371.48	9810.00	10060.00	250.00	7.98	5700.00	1.62	4.25	.00	.00	.00
*	21.127	1366.70	1374.75	9631.62	10066.01	434.39	8.05	5700.00	1.00	2.80	.00	.00	.00
	21.127	1366.70	1374.63	9900.00	10060.00	160.00	7.93	5700.00	1.81	3.15	.00	.00	.00
*	21.230	1372.00	1380.36	9818.28	10126.36	304.81	8.36	5700.00	1.30	5.62	.00	.00	.00
*	21.230	1372.00	1380.37	9900.00	10125.00	221.77	8.37	5700.00	1.52	5.74	.00	.00	.00
*	21.363	1374.10	1383.37	9556.04	10337.00	366.91	9.27	5700.00	.53	3.00	.00	.00	.00
*	21.363	1374.10	1383.58	9939.05	10105.49	166.44	9.48	5700.00	.53	3.21	.00	.00	.00
*	21.484	1378.50	1386.53	9497.84	10076.82	514.70	8.03	5700.00	.92	3.16	.00	.00	.00
*	21.484	1378.50	1387.09	9852.00	10077.00	215.51	8.59	5700.00	1.45	3.51	.00	.00	.00
*	21.576	1382.10	1389.24	9388.00	10340.54	868.38	7.14	5700.00	.78	2.71	.00	.00	.00
*	21.576	1382.10	1390.18	9940.00	10165.00	225.00	8.08	5700.00	.88	3.08	.00	.00	.00
*	21.669	1384.00	1393.38	9392.00	10414.00	977.37	9.38	5500.00	.60	4.13	.00	.00	.00
*	21.669	1384.00	1393.89	9890.00	10115.00	225.00	9.89	5500.00	1.35	3.72	.00	.00	.00
*	21.742	1386.40	1395.18	9744.71	10353.48	525.85	8.78	5500.00	1.19	1.80	.00	.00	.00
*	21.742	1386.40	1396.16	9940.00	10140.00	200.00	9.76	5500.00	.79	2.27	.00	.00	.00
	21.840	1391.10	1398.04	9857.22	10295.09	437.88	6.94	5500.00	.80	2.86	.00	.00	.00
*	21.840	1391.10	1397.92	9900.00	10100.00	200.00	6.82	5500.00	1.17	1.76	.00	.00	.00

*	21.895	1391.90	1399.67	9834.78	10431.00	596.22	7.77	5500.00	.80	1.63	.00	.00	.00
	21.895	1391.90	1399.72	9834.63	10080.00	245.37	7.82	5500.00	1.32	1.80	.00	.00	.00

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	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	21.933	1396.80	1400.86	9314.75	10285.14	970.39	4.06	5500.00	.13	1.19	.00	.00	.00
*	21.933	1396.80	1401.48	9650.00	10070.00	420.00	4.68	5500.00	.20	1.77	.00	.00	.00
*	21.953	1394.00	1401.06	9424.44	10052.98	459.91	7.06	5500.00	.94	.20	.00	.00	.00
*	21.953	1394.00	1401.20	9630.00	10051.00	310.27	7.20	5500.00	.89	-.28	.00	.00	.00
*	22.065	1395.80	1404.08	9242.08	10049.66	777.84	8.28	5500.00	.17	3.02	.00	.00	.00
*	22.065	1395.80	1404.48	9620.00	10030.00	396.88	8.68	5500.00	.36	3.27	.00	.00	.00
	22.165	1395.00	1405.25	9137.48	10060.52	828.27	10.25	5500.00	.21	1.17	.00	.00	.00
	22.165	1395.00	1406.06	9620.00	10020.00	381.09	11.06	5500.00	.36	1.59	.00	.00	.00
*	22.273	1399.40	1406.66	9320.96	10027.44	419.21	7.26	5500.00	.71	1.42	.00	.00	.00
*	22.273	1399.40	1407.61	9650.00	10027.00	292.44	8.21	5500.00	.72	1.54	.00	.00	.00
*	22.410	1404.00	1414.22	9854.46	10066.88	193.61	10.22	5500.00	1.76	7.56	.00	.00	.00
*	22.410	1404.00	1414.09	9860.00	10040.00	159.26	10.09	5500.00	1.92	6.48	.00	.00	.00
*	22.483	1405.50	1416.46	9874.91	10199.99	325.09	10.96	5500.00	.12	2.23	.00	.00	.00
*	22.483	1405.50	1416.74	9890.00	10050.00	160.00	11.24	5500.00	.30	2.65	.00	.00	.00
	22.500	1405.80	1416.55	9693.49	10257.06	563.57	10.75	5500.00	.09	.09	.00	.00	.00
	22.500	1405.80	1416.80	9925.00	10055.00	130.00	10.99	5500.00	.41	.05	.00	.00	.00
*	22.578	1406.70	1416.56	9955.91	10064.54	106.43	9.86	5500.00	.93	.01	.00	.00	.00
	22.578	1406.70	1417.42	9968.00	10064.00	96.00	10.72	5500.00	.75	.63	.00	.00	.00
*	22.675	1409.70	1418.12	9740.21	10028.59	288.38	8.42	5500.00	.13	1.56	.00	.00	.00
*	22.675	1409.70	1418.83	9830.00	10028.00	198.00	9.13	5500.00	.23	1.41	.00	.00	.00
*	22.794	1410.70	1418.63	9978.53	10195.01	216.48	7.93	5500.00	.41	.51	.00	.00	.00
	22.794	1410.70	1419.57	9977.00	10160.00	183.00	8.87	5500.00	.33	.74	.00	.00	.00
	22.880	1413.00	1420.07	9952.05	10163.92	211.87	7.07	5500.00	.57	1.44	.00	.00	.00
*	22.880	1413.00	1420.57	9951.00	10120.00	169.00	7.57	5500.00	.77	.99	.00	.00	.00
	22.990	1417.90	1423.63	9754.12	10026.13	272.01	5.73	5500.00	.62	3.56	.00	.00	.00
	22.990	1417.90	1424.62	9890.00	10026.00	136.00	6.72	5500.00	1.14	4.05	.00	.00	.00
*	23.097	1425.10	1429.89	9899.15	10117.43	186.84	4.79	5500.00	1.57	6.26	.00	.00	.00
	23.097	1425.10	1430.61	9958.00	10090.00	132.00	5.51	5500.00	1.49	5.99	.00	.00	.00

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CAVE CREEK WASH

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	17.588	1283.69	.00	1284.02	451.78	3410.65	11671.02	318.33	.00	.00	9982.00	10193.00	.00
	17.588	1284.69	1.00	1285.08	337.76	1964.85	13435.15	.00	.16	9855.24	9982.00	10193.00	10193.00
*	17.662	1283.82	.00	1284.71	319.71	3988.73	11364.70	46.58	.00	.00	9941.00	10130.00	.00
*	17.662	1284.81	.99	1285.77	250.00	2238.05	13039.23	122.73	250.00	9900.00	9941.00	10130.00	10150.00

*	17.783	1285.58	.00	1287.86	201.37	296.49	14381.19	722.32	.00	.00	9921.00	10064.00	.00
*	17.783	1286.37	.79	1288.65	143.00	.00	15400.00	.00	.09	9921.00	9921.00	10064.00	10064.00
	17.932	1290.98	.00	1294.60	164.24	59.98	15314.69	25.33	.00	.00	9956.00	10066.00	.00
	17.932	1291.41	.42	1294.76	110.00	.00	15400.00	.00	.02	9956.00	9956.00	10066.00	10066.00
*	18.042	1294.31	.00	1298.14	96.76	.00	15400.00	.00	.00	.00	9951.00	10049.00	.00
*	18.042	1294.43	.12	1298.17	96.78	.00	15400.00	.00	.00	9951.00	9951.00	10049.00	10049.00
	18.061	1296.44	.00	1299.43	96.89	.00	15400.00	.00	.00	.00	9951.00	10049.00	.00
	18.061	1296.69	.25	1299.55	96.91	.00	15400.00	.00	.00	9951.00	9951.00	10049.00	10049.00
*	18.081	1299.54	.00	1300.24	229.58	1235.51	12528.72	1635.78	.00	.00	9942.00	10045.00	.00
*	18.081	1299.61	.07	1300.32	185.00	1220.63	12608.39	1570.98	185.00	9900.00	9942.00	10045.00	10085.00
	18.174	1300.22	.00	1300.52	597.84	1569.89	11409.13	2420.99	.00	.00	9919.00	10073.00	.00
	18.174	1300.18	-.04	1300.63	267.98	1800.18	13116.05	483.77	268.00	9857.00	9919.00	10073.00	10125.00
*	18.269	1300.17	.00	1300.93	228.73	2261.70	12456.32	681.98	.00	.00	9942.00	10060.00	.00
	18.269	1300.30	.12	1301.04	227.80	2281.27	12415.20	703.53	227.80	9882.20	9942.00	10060.00	10110.00
	18.362	1300.54	.00	1301.51	212.97	1154.29	13225.19	1020.51	.00	.00	9942.00	10060.00	.00
	18.362	1300.64	.11	1301.60	212.20	1169.84	13188.25	1041.91	212.20	9895.60	9942.00	10060.00	10107.80
*	18.445	1305.39	.00	1307.48	386.47	5165.58	3758.29	6476.14	.00	.00	9992.00	10005.00	.00
*	18.445	1304.91	-.48	1307.77	221.67	5150.63	4076.29	6173.07	225.00	9885.00	9992.00	10005.00	10110.00
*	18.456	1307.31	.00	1308.31	443.73	5168.41	2970.57	7261.02	.00	.00	9992.00	10005.00	.00
*	18.456	1308.52	1.21	1309.57	225.00	5931.90	2952.32	6515.78	225.00	9885.00	9992.00	10005.00	10110.00
*	18.545	1308.28	.00	1308.76	288.68	1745.21	11300.05	2354.74	.00	.00	9951.00	10058.00	.00
*	18.545	1309.56	1.28	1309.93	288.40	1923.29	10840.09	2636.61	288.40	9881.40	9951.00	10058.00	10169.80
	18.575	1308.43	.00	1308.83	290.32	3584.18	3152.32	8663.50	.00	.00	9972.00	10000.00	.00
	18.575	1309.67	1.24	1309.99	290.10	3707.22	3015.70	8677.08	290.10	9880.70	9972.00	10000.00	10170.80
	18.583	1309.50	.00	1309.84	301.44	3685.39	3046.31	8668.30	.00	.00	9972.00	10000.00	.00
	18.583	1310.09	.59	1310.39	301.10	3739.77	2983.72	8676.51	301.10	9876.10	9972.00	10000.00	10177.20
	18.640	1309.43	.00	1310.07	255.52	2345.59	9850.54	3203.87	.00	.00	9955.00	10033.00	.00
	18.640	1310.02	.60	1310.59	255.10	2433.35	9638.38	3328.26	255.10	9879.60	9955.00	10033.00	10134.70

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SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
18.734	1309.68	.00	1310.53	228.83	1314.28	13486.67	599.05	.00	.00	9938.00	10062.00	.00
18.734	1310.24	.55	1310.99	228.50	1412.75	13301.70	685.55	228.50	9883.20	9938.00	10062.00	10111.70
18.832	1310.19	.00	1311.04	216.17	437.54	12951.81	2010.65	.00	.00	9929.00	10046.00	.00
18.832	1310.66	.47	1311.44	215.20	497.22	12812.49	2090.29	215.20	9891.80	9929.00	10046.00	10107.00
18.925	1310.64	.00	1311.60	200.07	1711.89	12782.42	905.69	.00	.00	9941.00	10048.00	.00
18.925	1311.05	.41	1311.94	199.80	1782.17	12651.31	966.52	199.80	9887.70	9941.00	10048.00	10087.50
* 19.018	1310.89	.00	1312.69	172.44	489.51	14883.12	27.37	.00	.00	9903.00	10030.00	.00
* 19.018	1311.26	.36	1312.92	172.20	558.06	14803.54	38.40	172.20	9866.30	9903.00	10030.00	10038.50
* 19.117	1312.49	.00	1316.85	120.09	1414.18	11917.85	2067.97	.00	.00	9973.00	10026.00	.00
* 19.117	1312.68	.20	1316.84	119.80	1457.21	11826.79	2116.00	119.80	9942.10	9973.00	10026.00	10061.90
* 19.210	1317.19	.00	1319.01	158.26	227.00	14955.16	217.84	.00	.00	9945.00	10060.00	.00
* 19.210	1317.10	-.09	1318.95	157.49	219.47	14969.92	210.62	157.90	9923.10	9945.00	10060.00	10081.00

*	19.283	1319.92	.00	1324.04	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.283	1319.92	.00	1324.04	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.299	1322.06	.00	1324.65	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.299	1322.06	.00	1324.65	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
	19.313	1323.31	.00	1325.17	159.66	.00	14600.00	.00	.00	.00	9932.00	10112.00	.00
	19.313	1323.30	.00	1325.17	159.64	.00	14600.00	.00	.00	9932.00	9932.00	10112.00	10112.00
	19.418	1325.59	.00	1327.43	162.69	.00	14600.00	.00	.00	.00	9948.00	10120.00	.00
	19.418	1325.59	.00	1327.43	162.69	.00	14600.00	.00	.00	9948.00	9948.00	10120.00	10120.00
	19.560	1328.21	.00	1330.15	129.60	.00	14600.00	.00	.00	.00	9929.00	10065.00	.00
	19.560	1328.21	.00	1330.15	129.63	.00	14600.00	.00	.00	9929.00	9929.00	10065.00	10065.00
*	19.625	1329.89	.00	1330.82	60.00	.00	5700.00	.00	.00	.00	9965.00	10025.00	.00
	19.625	1329.95	.06	1330.87	60.00	.00	5700.00	.00	.00	9965.00	9965.00	10025.00	10025.00
	19.691	1331.53	.00	1332.37	60.00	.00	5700.00	.00	.00	.00	9965.00	10025.00	.00
	19.691	1331.60	.07	1332.43	60.00	.00	5700.00	.00	.00	9965.00	9965.00	10025.00	10025.00
	19.742	1331.99	.00	1332.51	108.35	.78	5698.99	.24	.00	.00	9948.00	10042.00	.00
	19.742	1332.03	.04	1332.57	85.00	.00	5700.00	.00	85.00	9953.00	9948.00	10042.00	10038.00
*	19.847	1332.14	.00	1332.73	109.85	.00	5700.00	.00	.00	.00	9929.00	10062.00	.00
*	19.847	1332.14	.00	1332.81	86.00	.00	5700.00	.00	86.00	9957.00	9929.00	10062.00	10043.00
*	19.960	1332.37	.00	1334.93	86.88	38.92	5629.33	31.75	.00	.00	9958.00	10031.00	.00
*	19.960	1332.43	.05	1335.03	73.00	.00	5700.00	.00	73.00	9958.00	9958.00	10031.00	10031.00
*	19.974	1333.31	.00	1335.46	51.00	.00	5700.00	.00	.00	.00	9969.00	10020.00	.00
*	19.974	1333.67	.35	1335.66	51.00	.00	5700.00	.00	51.00	9969.00	9969.00	10020.00	10020.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	19.986	1335.25	.00	1336.73	51.00	.00	5700.00	.00	.00	.00	9969.00	10020.00	.00
	19.986	1335.72	.47	1337.08	51.00	.00	5700.00	.00	51.00	9969.00	9969.00	10020.00	10020.00
*	20.049	1338.35	.00	1341.90	53.63	.00	5700.00	.00	.00	.00	9954.00	10027.00	.00
*	20.049	1338.20	-.15	1341.96	49.93	.00	5700.00	.00	50.00	9975.00	9954.00	10027.00	10025.00
*	20.144	1343.48	.00	1345.07	83.94	.00	5588.64	111.36	.00	.00	9955.00	10025.00	.00
*	20.144	1343.38	-.11	1345.17	57.00	.00	5671.10	28.89	57.00	9972.00	9955.00	10025.00	10029.00
	20.242	1345.49	.00	1347.06	88.68	.00	5546.27	153.73	.00	.00	9953.00	10029.00	.00
	20.242	1345.51	.02	1347.16	71.00	.00	5645.34	54.66	71.00	9964.00	9953.00	10029.00	10035.00
	20.335	1347.44	.00	1348.61	88.31	31.74	5639.18	29.07	.00	.00	9958.00	10032.00	.00
	20.335	1347.54	.10	1348.79	73.00	.00	5671.99	28.01	73.00	9963.00	9958.00	10032.00	10036.00
	20.347	1347.24	.00	1349.16	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.347	1347.42	.18	1349.28	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.366	1347.97	.00	1349.64	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.366	1348.18	.22	1349.79	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.423	1349.57	.00	1350.51	112.82	101.68	5266.19	332.13	.00	.00	9975.00	10045.00	.00
	20.423	1349.71	.14	1350.61	113.80	107.11	5250.90	341.99	114.00	9958.00	9975.00	10045.00	10072.00
	20.430	1349.13	.00	1351.13	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.430	1349.27	.14	1351.22	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.444	1349.92	.00	1351.64	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00

	14	1350.02	.10	1351.71	51.00	.00	5700.[illegible]	.00	.00	.00	9985.00	10036.00	.00
	20.529	1352.25	.00	1352.95	189.83	165.51	5398.15	136.33	.00	.00	9947.00	10055.00	.00
	20.529	1352.24	-.01	1353.01	139.00	79.85	5563.98	56.17	139.00	9930.00	9947.00	10055.00	10069.00
	20.628	1353.31	.00	1353.74	150.61	.00	5700.00	.00	.00	.00	9909.00	10076.00	.00
	20.628	1353.34	.03	1353.79	130.00	.00	5700.00	.00	130.00	9935.00	9909.00	10076.00	10065.00
*	20.725	1356.04	.00	1359.09	67.22	.00	5700.00	.00	.00	.00	9951.00	10036.00	.00
*	20.725	1355.94	-.09	1359.12	64.00	.00	5700.00	.00	64.00	9962.00	9951.00	10036.00	10026.00
*	20.737	1358.17	.00	1361.84	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.737	1358.20	.03	1361.84	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.750	1360.60	.00	1362.70	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.750	1360.60	.00	1362.70	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.819	1362.37	.00	1364.78	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.819	1362.37	.00	1364.78	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.841	1364.38	.00	1366.08	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.841	1364.38	.00	1366.08	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	20.860	1365.98	.00	1366.67	261.14	86.17	5613.83	.00	.00	.00	9942.00	10066.00	.00
*	20.860	1365.94	-.04	1366.67	156.00	26.83	5673.17	.00	156.00	9904.00	9942.00	10066.00	10060.00
	20.942	1367.29	.00	1367.72	313.22	.00	3724.38	1975.62	.00	.00	9854.00	10024.00	.00
*	20.942	1367.23	-.06	1367.96	250.00	.00	4745.17	954.83	250.00	9860.00	9854.00	10024.00	10110.00
*	21.036	1371.95	.00	1373.07	520.10	367.07	5202.79	130.15	.00	.00	9912.00	10020.00	.00
*	21.036	1371.48	-.47	1373.10	250.00	112.48	5545.82	41.70	250.00	9810.00	9912.00	10020.00	10060.00
*	21.127	1374.75	.00	1375.74	434.39	1077.09	4622.90	.00	.00	.00	9974.00	10067.00	.00
	21.127	1374.63	-.12	1376.44	160.00	130.17	5569.82	.00	160.00	9900.00	9974.00	10067.00	10060.00
*	21.230	1380.36	.00	1381.67	304.81	508.80	4046.90	1144.30	.00	.00	9967.00	10048.00	.00
*	21.230	1380.37	.00	1381.88	221.77	251.25	4277.13	1171.62	225.00	9900.00	9967.00	10048.00	10125.00
*	21.363	1383.37	.00	1383.90	366.91	98.15	5566.19	35.65	.00	.00	9928.00	10088.00	.00
*	21.363	1383.58	.21	1384.11	166.44	.00	5684.33	15.67	200.00	9930.00	9928.00	10088.00	10130.00
*	21.484	1386.53	.00	1387.44	514.70	2045.40	3648.02	6.58	.00	.00	9932.00	10026.00	.00
*	21.484	1387.09	.57	1388.54	215.51	967.36	4674.76	57.88	225.00	9852.00	9932.00	10026.00	10077.00
*	21.576	1389.24	.00	1390.02	868.38	720.87	4008.42	970.70	.00	.00	9980.00	10087.00	.00
*	21.576	1390.18	.94	1391.06	225.00	16.47	4724.25	959.29	225.00	9940.00	9980.00	10087.00	10165.00
*	21.669	1393.38	.00	1393.98	977.37	905.25	2788.42	1806.33	.00	.00	9962.00	10031.00	.00
*	21.669	1393.89	.52	1395.24	225.00	629.54	3935.40	935.05	225.00	9890.00	9962.00	10031.00	10115.00
*	21.742	1395.18	.00	1396.38	525.85	29.14	5238.84	232.02	.00	.00	9975.00	10091.00	.00
*	21.742	1396.16	.98	1396.95	200.00	87.25	5127.94	284.80	200.00	9940.00	9975.00	10091.00	10140.00
	21.840	1398.04	.00	1398.83	437.88	945.78	4156.96	397.26	.00	.00	9946.00	10054.00	.00
*	21.840	1397.92	-.12	1399.09	200.00	625.73	4701.10	173.18	200.00	9900.00	9946.00	10054.00	10100.00
*	21.895	1399.67	.00	1400.47	596.22	1555.35	2864.44	1080.21	.00	.00	9975.00	10031.00	.00
	21.895	1399.72	.05	1401.04	245.37	1891.44	3424.05	184.51	250.00	9830.00	9975.00	10031.00	10080.00
*	21.933	1400.86	.00	1400.99	970.39	1740.18	3230.12	529.70	.00	.00	9865.00	10140.00	.00
*	21.933	1401.48	.62	1401.69	420.00	2120.38	3379.62	.00	420.00	9650.00	9865.00	10140.00	10070.00

*	21.953	1401.06	.00	1402.01	459.91	2374.60	2981.81	143.59	.00	.00	9969.00	10029.00	.00
*	21.953	1401.20	.14	1402.09	310.27	2410.71	2933.11	156.19	421.00	9630.00	9969.00	10029.00	10051.00
*	22.065	1404.08	.00	1404.25	777.84	4154.77	1273.89	71.34	.00	.00	9961.00	10028.00	.00
*	22.065	1404.48	.40	1404.84	396.88	3697.13	1792.35	10.51	410.00	9620.00	9961.00	10028.00	10030.00
	22.165	1405.25	.00	1405.46	828.27	4034.46	1433.28	32.26	.00	.00	9983.00	10018.00	.00
	22.165	1406.06	.82	1406.42	381.09	3632.26	1859.77	7.97	400.00	9620.00	9983.00	10018.00	10020.00
*	22.273	1406.66	.00	1407.38	419.21	1973.64	3526.36	.00	.00	.00	9933.00	10028.00	.00
*	22.273	1407.61	.94	1408.32	292.44	1439.28	4060.72	.00	377.00	9650.00	9933.00	10028.00	10027.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	22.410	1414.22	.00	1415.98	193.61	768.28	4585.83	145.88	.00	.00	9973.00	10027.00	.00
*	22.410	1414.09	-.14	1416.01	159.26	717.48	4672.17	110.35	180.00	9860.00	9973.00	10027.00	10040.00
*	22.483	1416.46	.00	1416.58	325.09	301.10	4551.84	647.06	.00	.00	9941.00	10105.00	.00
*	22.483	1416.74	.29	1417.04	160.00	505.09	4994.91	.00	160.00	9890.00	9941.00	10105.00	10050.00
	22.500	1416.55	.00	1416.64	563.57	.00	4366.29	1133.71	.00	.00	9650.00	10090.00	.00
	22.500	1416.80	.25	1417.21	130.00	.00	5500.00	.00	130.00	9925.00	9650.00	10090.00	10055.00
*	22.578	1416.56	.00	1417.49	106.43	.30	5499.70	.00	.00	.00	9968.00	10072.00	.00
	22.578	1417.42	.86	1418.17	96.00	.00	5500.00	.00	96.00	9968.00	9968.00	10072.00	10064.00
*	22.675	1418.12	.00	1418.25	288.38	.00	5500.00	.00	.00	.00	9736.00	10032.00	.00
*	22.675	1418.83	.72	1419.06	198.00	.00	5500.00	.00	198.00	9830.00	9736.00	10032.00	10028.00
*	22.794	1418.63	.00	1419.04	216.48	1.69	5389.83	108.49	.00	.00	9983.00	10169.00	.00
	22.794	1419.57	.94	1419.91	183.00	10.26	5489.74	.00	183.00	9977.00	9983.00	10169.00	10160.00
	22.880	1420.07	.00	1420.64	211.87	.00	5500.00	.00	.00	.00	9927.00	10167.00	.00
*	22.880	1420.57	.50	1421.34	169.00	.00	5500.00	.00	169.00	9951.00	9927.00	10167.00	10120.00
	22.990	1423.63	.00	1424.25	272.01	.00	5500.00	.00	.00	.00	9739.00	10034.00	.00
	22.990	1424.62	.99	1425.77	136.00	.00	5500.00	.00	136.00	9890.00	9739.00	10034.00	10026.00
*	23.097	1429.89	.00	1431.46	186.84	38.77	5461.23	.00	.00	.00	9951.00	10121.00	.00
	23.097	1430.61	.72	1432.10	132.00	.00	5500.00	.00	132.00	9958.00	9951.00	10121.00	10090.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=    17.662  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.662  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    17.783  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.783  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    18.042  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    18.042  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    18.081  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    18.081  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=     18.269  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     18.445  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     18.445  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     18.445  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     18.445  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     18.456  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.456  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.545  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.545  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.018  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.018  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     19.117  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.117  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.117  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.117  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.117  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.117  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     19.210  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.210  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     19.283  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.283  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.283  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.283  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.283  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.283  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     19.299  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=     19.299  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     19.299  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=     19.299  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
1
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WARNING SECNO=     19.625  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.847  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.847  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.960  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.960  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.974  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.974  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     20.049  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.049  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.049  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     20.049  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.049  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.049  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     20.144  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     20.144  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     20.725  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.725  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
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CAUTION SECNO=     20.725  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     20.725  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.725  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.725  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     20.737  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.737  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.737  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     20.737  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.737  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.737  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     20.750  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=     20.750  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     20.750  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=     20.750  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     20.819  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     20.819  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     20.841  PROFILE=  1  HYDRAULIC JUMP D.S.
CAUTION SECNO=     20.841  PROFILE=  2  HYDRAULIC JUMP D.S.

WARNING SECNO=     20.860  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     20.860  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     20.942  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.036  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.036  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
1
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CAUTION SECNO=     21.036  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     21.036  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.036  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     21.127  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.127  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=     21.230  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.230  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.230  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     21.230  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.230  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=     21.363  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     21.363  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.484  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.484  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.484  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     21.484  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.484  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.484  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     21.576  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.576  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=     21.576  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     21.669  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.669  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.669  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     21.669  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     21.669  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     21.669  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL
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CAUTION SECNO=      21.742  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.742  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=      21.742  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      21.840  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      21.895  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.895  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      21.933  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      21.933  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      21.953  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.953  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      21.953  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=      21.953  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      22.065  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      22.065  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
1
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WARNING SECNO=      22.273  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      22.273  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      22.410  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      22.410  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      22.410  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      22.410  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      22.483  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      22.483  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      22.578  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      22.675  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      22.675  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      22.794  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      22.880  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      23.097  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      23.097  PROFILE=  1  MINIMUM SPECIFIC ENERGY

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FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
17.588	338.	3195.	4.8	1284.7	1283.7	1.0
17.662	250.	1988.	7.7	1284.8	1283.8	1.0
17.783	143.	1271.	12.1	1286.4	1285.6	.8
17.932	110.	1047.	14.7	1291.4	1291.0	.4
18.042	97.	992.	15.5	1294.4	1294.3	.1

18.061	97.	1134.	13.6	1296.6	1296.4	.2
18.081	185.	2411.	6.4	1299.6	1299.5	.1
18.174	268.	3010.	5.1	1300.2	1300.2	.0
18.269	228.	2349.	6.6	1300.3	1300.2	.1
18.362	212.	2086.	7.4	1300.6	1300.5	.1
18.445	222.	1268.	12.1	1304.9	1305.4	-.5
18.456	225.	1990.	7.7	1308.5	1307.3	1.2
18.545	288.	3404.	4.5	1309.6	1308.3	1.3
18.575	290.	3436.	4.5	1309.6	1308.4	1.2
18.583	301.	3540.	4.3	1310.1	1309.5	.6
18.640	255.	2726.	5.6	1310.0	1309.4	.6
18.734	228.	2354.	6.5	1310.3	1309.7	.6
18.832	215.	2295.	6.7	1310.7	1310.2	.5
18.925	200.	2164.	7.1	1311.0	1310.6	.4
19.018	172.	1543.	10.0	1311.3	1310.9	.4
19.117	120.	1023.	15.1	1312.7	1312.5	.2
19.210	157.	1462.	10.5	1317.1	1317.2	-.1
19.283	109.	896.	16.3	1319.9	1319.9	.0
19.299	109.	1129.	12.9	1322.1	1322.1	.0
19.313	160.	1330.	11.0	1323.3	1323.3	.0
19.418	163.	1343.	10.9	1325.6	1325.6	.0
19.560	130.	1308.	11.2	1328.2	1328.2	.0
19.625	60.	741.	7.7	1330.0	1329.9	.1
19.691	60.	780.	7.3	1331.6	1331.5	.1
19.742	85.	969.	5.9	1332.0	1332.0	.0
19.847	86.	868.	6.6	1332.1	1332.1	.0
19.960	73.	441.	12.9	1332.5	1332.4	.1
19.974	51.	503.	11.3	1333.7	1333.3	.4
19.986	51.	608.	9.4	1335.8	1335.3	.5
20.049	50.	366.	15.6	1338.2	1338.4	-.2
20.144	57.	536.	10.6	1343.4	1343.5	-.1
20.242	71.	561.	10.2	1345.5	1345.5	.0
20.335	73.	640.	8.9	1347.5	1347.4	.1
20.347	51.	521.	10.9	1347.4	1347.2	.2
20.366	51.	560.	10.2	1348.2	1348.0	.2
20.423	114.	796.	7.2	1349.7	1349.6	.1
20.430	51.	509.	11.2	1349.2	1349.1	.1

1

FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
20.444	51.	547.	10.4	1350.0	1349.9	.1
20.529	139.	841.	6.8	1352.3	1352.3	.0
20.628	130.	1059.	5.4	1353.3	1353.3	.0
20.725	64.	398.	14.3	1355.9	1356.0	-.1
20.737	51.	372.	15.3	1358.2	1358.2	.0
20.750	51.	490.	11.6	1360.6	1360.6	.0
20.819	78.	458.	12.5	1362.4	1362.4	.0
20.841	78.	545.	10.5	1364.4	1364.4	.0
20.860	156.	852.	6.7	1366.0	1366.0	.0
20.942	250.	850.	6.7	1367.2	1367.3	-.1
21.036	250.	608.	9.4	1371.4	1371.9	-.5
21.127	160.	565.	10.1	1374.6	1374.7	-.1
21.230	225.	653.	8.7	1380.4	1380.4	.0
21.363	166.	986.	5.8	1383.6	1383.4	.2
21.484	225.	647.	8.8	1387.1	1386.5	.6
21.576	225.	815.	7.0	1390.1	1389.2	.9

21[illegible]	225.	686.	8.0	1393.9	1393.4	.5
21.742	200.	832.	6.6	1396.2	1395.2	1.0
21.840	200.	686.	8.0	1397.9	1398.0	-.1
21.895	245.	702.	7.8	1399.7	1399.7	.0
21.933	420.	1566.	3.5	1401.5	1400.9	.6
21.953	421.	812.	6.8	1401.2	1401.1	.1
22.065	410.	1165.	4.7	1404.5	1404.1	.4
22.165	400.	1253.	4.4	1406.0	1405.2	.8
22.273	377.	879.	6.3	1407.6	1406.7	.9
22.410	180.	560.	9.8	1414.1	1414.2	-.1
22.483	160.	1293.	4.3	1416.8	1416.5	.3
22.500	130.	1066.	5.2	1416.7	1416.5	.2
22.578	96.	792.	6.9	1417.5	1416.6	.9
22.675	198.	1430.	3.8	1418.8	1418.1	.7
22.794	183.	1189.	4.6	1419.5	1418.6	.9
22.880	169.	782.	7.0	1420.6	1420.1	.5
22.990	136.	641.	8.6	1424.6	1423.6	1.0
23.097	132.	562.	9.8	1430.6	1429.9	.7

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T1       MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2       FLOOD CONTROL DISTRICT OF MARICOPA CO. 1989 BY BURGESS & NIPLE
T3       CAVE CREEK WASH          NATURAL 100-YR  J. MISCHLER
*
*        CAVE BUTTE DAM CONTROLS DISCHARGES UP TO THE 100 YEAR FLOOD.
*        ABOVE THE 100 YEAR FLOOD, THE EMERGENCY SPILLWAY WILL PASS FLOWS.
*        AS THE EFFORT TO COMPUTE 500 YEAR HYDROLOGY (WHICH WOULD REQUIRE
*        ANALYSIS OF THE ENTIRE WATERSHED ABOVE THE DAM) IS NOT JUSTIFIED
*        BY THE VALUE OF 500 YEAR FLOODPLAIN INFORMATION, THE FLOOD CONTROL
*        DISTRICT HAS BEEN GRANTED PERMISSION BY FEMA TO DELETE THE 500 YEAR
*        FLOOD FROM THE RESTUDY OF CAVE CREEK WASH.  ONLY THE WATERSHED BELOW
*        THE DAM HAS BEEN CONSIDERED FOR HYDROLOGIC COMPUTATIONS OF THE 10, 50,
*        AND 100 YEAR FLOODS.
*
*
*
*        FLOODWAY RUN FROM SEDIMENT BASIN TO CAVE BUTTE DAM.
*
*        FOR SECTIONS 15.310 TO 16.971, REFER TO A SEPARATE SUPERCRITICAL
*        RUN FOR THE CORPS OF ENGINEERS' CONCRETE LINED CHANNEL. (NATURAL PROF)
*
*        FLOW IS WITHIN THE CORPS OF ENGINEER'S CHANNEL, SEDIMENT BASIN, OR
*        BROAD CRESTED WEIR INLET FROM RM15.015 TO 17.492, THEREFORE NO FLOODWAY
*        IS RUN FOR THIS REACH.
*
*
*
*        FILE LAST MODIFIED 1/26/90
*
*      FILE MODIFIED ON 04/14/06 BY ASPEN CONSULTING ENGINEERS.  PROJECT IS TO
*      FILL LEFT OVER BANK FLOODPLAIN BETWEEN CROSS SECTION 22.675 AND 22.41.
*      ENCROCHMENT USED IN CROSS SECTION 22.500 TO MODEL PROPOSED FILL.  NO OTHER
*      CROSS SECTIONS WERE ENCROCHED.  THIS IS THE POST-PROJECT CONDITIONS MODEL.
*
J1            2.                                                  1283.69
J2    1.             -1.                                                        15.
J3   38.     42.      1.     53.     54.      4.      8.     43.     10.      51.
J3   46.     40.     41.            110.            200.
QT    2.  15400.  15400.
NC  0.04    0.04    0.04     0.1     0.3
*
*        BEGIN ENCROACHMENTS UPSTREAM OF THE SEDIMENT BASIN
*
ET                  10.41
X117.588     25.    9982.  10193.    440.    560.    496.
GR1291.4   9666.  1290.3   9746.  1275.6   9817.  1275.2   9835.  1273.5   9854.
GR1277.8   9873.  1279.7   9889.  1277.3   9896.  1278.2   9909.  1281.6   9922.
GR1281.9   9939.  1282.2   9964.  1278.1   9982.  1269.6   9992.  1270.6  10000.
GR1270.9  10009.  1272.6  10014.  1273.6  10039.  1273.6  10079.  1271.2  10144.
GR1271.2  10170.  1276.4  10193.  1290.5  10264.  1291.3  10328.   1291.  10495.
ET                    4.1   9900.  10150.
X117.662     23.    9941.  10130.    380.    400.    391.
GR1293.1   9731.  1293.1   9781.  1291.6   9791.  1282.7   9835.  1278.1   9844.
GR1279.2   9871.  1277.3   9911.  1276.4   9941.  1272.5   9986.  1271.6  10000.
GR1274.6  10016.  1277.5  10033.  1278.8  10063.  1278.9  10086.  1276.8  10099.
GR1275.7  10111.  1281.6  10130.  1285.2  10161.  1293.1  10208.   1294.  10221.
GR1293.7  10281.   1294.  10400.  1294.5  10432.
ET                  10.41
X117.783     18.    9921.  10064.    540.    500.    639.
GR1295.2   9812.   1294.   9837.  1291.3   9861.  1286.9   9895.  1280.5   9921.
GR1276.8   9938.  1278.3   9954.  1277.6   9973.  1275.4  10000.  1276.3  10019.
GR1277.4  10033.  1277.7  10045.  1281.1  10064.  1281.3  10074.  1284.6  10097.
GR1289.8  10122.  1291.5  10143.  1291.9  10153.
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X117.932      23.    9956.   10066.     790.     780.     787.
GR1294.8    9675.   1294.7    9732.   1295.5    9750.   1293.6    9766.   1297.5    9792.
GR1297.5    9837.   1298.3    9869.   1291.9    9896.   1289.7    9956.   1283.6    9966.
GR1283.5    9971.   1277.9    9986.   1278.2   10000.   1278.2   10006.   1279.5   10008.
GR1279.9   10022.   1280.2   10032.   1285.5   10054.   1290.2   10066.   1290.6   10083.
GR1298.5   10131.   1299.7   10159.   1299.7   10193.
*
*       THUNDERBIRD ROAD BRIDGE - ALTHOUGH THE ROAD IS LOWEST IN THE RIGHT
*       OVERBANK, HIGH BANKS UPSTREAM PREVENT THIS AREA FROM BECOMING EFFECTIVE,
*       THEREFORE, ONLY THE BRIDGE OPENING IS CONSIDERED ON THE GR CARDS AND
*       ONLY THE BRIDGE LENGTH IS CONSIDERED FOR THE BT CARDS.  ENDS OF THE
*       SECTIONS ARE ARTIFICIALLY EXTENDED.  BT'S ARE RAISED 0.5' FROM CENTER-
*       LINE OF ROAD ELEVATIONS AT THE BRIDGE. TO ACCOUNT FOR THE RAILING.
*
*                     4.1    9951.   10049.
NC 0.035    0.035   0.025      0.3      0.5
X118.042       8.    9951.   10049.     620.     550.     581.                2.4
GR 1305.    9951.   1283.4    9952.   1282.9    9979.   1279.9    9980.   1279.9   10020.
GR1281.9   10021.   1284.2   10048.    1305.   10049.
SB  1.05     1.56       3.               75.       4.    1059.     0.81   1280.2   1279.9
NC  0.03     0.03   0.025
*                    4.11    9951.   10049.
X118.061                              101.     101.     101.                0.8
*
*       ELTRD IS 1298.4+3.2HV =  1301.6
*
X2                      1.   1293.2   1301.6
BT    4.    9951.    1305.       0.    9952.   1298.4       0.   10048.   1298.4       0.
BT10049.    1305.       0.
NC 0.035    0.035   0.035
ET                    4.1    9900.   10085.
X118.081      11.    9942.   10045.      80.     130.     106.
GR1300.5    9819.   1300.2    9866.   1298.2    9899.   1286.6    9942.   1282.7    9960.
GR1281.4   10000.   1281.1   10008.   1282.7   10030.   1284.9   10045.   1297.3   10088.
GR1300.2   10112.
NC                        0.1      0.3
ET                    4.1    9857.   10125.
X118.174      29.    9919.   10073.     500.     490.     491.
GR1303.6    9673.   1304.6    9713.   1307.3    9757.   1302.5    9801.    1302.    9850.
GR 1288.    9904.   1287.3    9915.   1288.7    9919.    1284.    9927.   1283.5    9956.
GR1282.6    9975.   1283.5    9985.   1281.8    9992.   1281.7   10000.    1282.   10006.
GR1282.3   10011.   1282.7   10020.   1294.6   10073.    1297.   10093.   1296.2   10113.
GR1293.7   10142.   1293.7   10182.   1296.8   10236.   1299.3   10270.   1298.9   10295.
GR 1298.   10340.   1299.8   10364.    1298.   10396.   1301.1   10478.
ET                    4.1    9882.2   10110.
X118.269      12.    9942.   10060.     500.     500.     502.
GR1303.8    9868.   1288.1    9928.   1288.4    9942.   1285.3    9952.   1283.8    9979.
GR1283.8   10000.   1283.8   10010.   1285.6   10023.   1292.4   10060.    1294.   10071.
GR1303.2   10130.   1303.7   10144.
ET                    4.1    9895.6  10107.8
X118.362      20.    9942.   10060.     490.     510.     491.
GR1315.5    9728.   1315.4    9758.   1315.8    9780.   1310.6    9807.   1307.1    9862.
GR1298.6    9905.    1290.    9942.   1287.8    9952.    1288.    9967.   1286.1    9971.
GR1285.3   10000.   1286.8   10022.   1286.8   10036.   1290.6   10060.   1303.8   10124.
GR1307.7   10151.   1307.5   10169.   1306.8   10183.   1308.1   10240.   1308.8   10283.
*
*       DOWNSTREAM GOLF CART CROSSING ON A SINGLE 78" CMP WITH PROTRUDING
*       ENDS AND EMBANKMENT SLOPES  (NO WINGWALLS).
*
ET                    4.1    9885.   10110.
X118.445      13.    9992.   10005.     470.     460.     440.
X3   10.                                                          1297.    1297.
GR1315.1    9796.   1306.2    9880.    1300.    9920.   1299.5    9978.    1290.    9992.
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GR1287.3  10000.   1290.  10005.   1300.  10040.   1302.  10060.   1303.  10097.
GR 1305.  10200.  1305.6  10310.  1309.4  10330.
SB   0.9    2.34     3.0      0.    6.11     1.0    33.2      0.  1287.7  1287.4
ET                  4.11   9885.  10110.
X118.456                              60.     60.     60.             0.4

*       ELTRD IS 1198.8+0.7HV = 1199.5
*
X2                     1.  1294.2  1299.5
X3   10.                                                   1298.8  1298.8
BT   10.   9796.  1315.5      0.   9880.  1306.6      0.   9928.  1301.9      0.
BT 9991.  1299.1      0.  10000.  1298.8      0.  10046.  1301.9      0.  10097.
BT1303.4      0.  10200.  1305.4      0.  10310.   1306.      0.  10330.  1309.8
BT    0.
ET                   4.1  9881.4 10169.8
X118.545     21.   9951.  10058.    440.    480.    466.
GR1324.2   9716.  1323.1   9748.  1324.4   9765.  1321.9   9790.  1318.3   9810.
GR 1317.   9839.  1306.7   9889.  1294.1   9951.  1291.5   9972.  1289.3   9993.
GR1289.7  10000.  1289.7  10018.  1290.5  10040.  1293.8  10058.  1298.8  10073.
GR1299.8  10094.  1303.4  10108.  1303.9  10121.   1303.  10135.  1310.1  10182.
GR1310.2  10194.
*
*       UPSTREAM GOLF CART CROSSING ON 2 - 72" RCP WITH FLUSH INLETS AND
*       45 DEGREE WINGWALLS.
*
ET                   4.1  9880.7 10170.8
X118.575     21.   9972.  10000.    160.    160.    160.
X3   10.                                                   1297.   1297.
GR1324.2   9716.  1323.1   9748.  1324.4   9765.  1321.9   9790.  1318.3   9810.
GR 1317.   9839.  1306.7   9889.  1294.1   9951.  1291.5   9972.  1289.3   9993.
GR1289.7  10000.  1289.7  10018.  1290.5  10040.  1293.8  10058.  1298.8  10073.
GR1299.8  10094.  1303.4  10108.  1303.9  10121.   1303.  10135.  1310.1  10182.
GR1310.2  10194.
SB  1.25    1.56     3.0      0.    10.4     1.0    56.5      0.  1289.4  1289.3
ET                  4.11  9876.1 10177.2
X118.583                              40.     40.     40.             0.1
*
*       ELTRD IS 1298.4+0.6HV = 1299.0
*
X2                     1.  1295.4   1299.
X3   10.                                                   1298.4  1298.4
BT    9.   9880.   1310.      0.   9965.   1300.      0.  10000.  1298.4      0.
BT10037.   1300.      0.  10065.   1302.      0.  10085.   1304.      0.  10122.
BT 1306.      0.  10160.   1308.      0.  10170.   1310.      0.
ET                   4.1  9879.6 10134.7
X118.640     17.   9955.  10033.    300.    310.    301.
GR1322.5   9707.  1323.7   9729.  1320.1   9768.  1313.8   9827.  1312.3   9858.
GR1308.4   9887.  1302.6   9920.  1294.6   9955.  1292.8   9966.  1290.2   9993.
GR1291.5  10000.  1291.8  10009.  1293.4  10033.  1307.8  10111.   1309.  10132.
GR1312.1  10153.  1313.2  10167.
ET                   4.1  9883.2 10111.7
X118.734     19.   9938.  10062.    490.    500.    496.
GR1320.7   9713.  1316.3   9762.  1316.6   9809.  1319.2   9819.  1317.9   9841.
GR1308.7   9888.  1298.6   9938.  1293.4   9971.  1294.2   9981.  1292.4   9992.
GR1294.5  10000.  1294.4  10025.  1300.8  10062.   1309.  10094.  1307.6  10104.
GR1312.9  10124.   1314.  10143.  1317.1  10178.  1319.9  10201.
ET                   4.1  9891.8  10107.
X118.832     21.   9929.  10046.    480.    540.    517.
GR1326.2   9779.   1328.   9788.  1320.6   9826.   1316.   9853.  1312.5   9880.
GR1302.8   9929.  1296.1   9960.  1293.5   9982.  1293.2  10000.  1293.2  10005.
GR1294.8  10008.  1295.5  10027.  1297.1  10046.  1307.7  10095.  1314.1  10128.
GR1314.1  10141.  1317.1  10187.  1320.3  10221.  1319.9  10247.  1318.6  10271.
GR1319.2  10278.
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ET                    4.1  9887.7 10087.5
X118.925     14.   9941.  10048.    480.    500.    491.
GR1329.1   9741.  1315.9   9866.  1297.6   9941.  1297.3   9960.  1295.3   9989.
GR 1295.  10000.  1296.1  10006.  1295.4  10022.  1294.6  10025.  1296.3  10034.
GR 1300.  10048.  1310.5  10087.  1320.1  10132.  1321.3  10161.
ET                    4.1  9866.3 10038.5
X119.018     20.   9903.  10030.    460.    520.    491.
GR 1331.   9681.  1321.2   9775.  1313.9   9847.  1305.1   9903.  1298.1   9930.
GR 1298.   9948.  1298.1   9957.  1297.6   9974.   1299.  10000.  1308.4  10030.
GR1325.3  10088.   1327.  10101.  1325.5  10109.  1330.2  10118.  1330.9  10124.
GR 1327.  10145.  1326.8  10211.  1328.8  10218.  1332.6  10260.  1331.8  10268.
ET                    4.1  9942.1 10061.9
X119.117     10.   9973.  10026.    490.    560.    523.
GR1333.9   9803.  1331.8   9872.   1323.   9908.  1302.9   9973.  1299.2   9997.
GR1298.7  10000.  1298.6  10010.  1301.5  10026.  1328.9  10116.   1333.  10144.
ET                    4.1  9923.1  10081.
X119.210     16.   9945.  10060.    500.    490.    491.
GR1333.2   9669.  1330.6   9853.  1328.7   9874.   1312.   9945.   1310.   9954.
GR1303.8   9978.  1301.4   9991.  1300.2  10000.  1301.3  10010.  1303.4  10026.
GR 1312.  10060.  1321.3  10098.   1327.  10127.  1332.5  10166.  1335.3  10191.
GR1335.6  10192.
*
*       19TH AVENUE  (SPECIAL BRIDGE)
*
NC                            0.3     0.5
QT    2.  14600.  14600.
X119.283     12.   9948.  10057.    390.    390.    386.            11.2
X3   10.                                                        1324.   1324.
GR1333.2   9669.  1330.6   9853.  1328.7   9874.   1312.   9945.  1300.5   9948.
GR1300.5  10057.   1312.  10060.  1321.3  10098.   1327.  10127.  1332.5  10166.
GR1335.3  10191.  1335.6  10192.
SB   0.9    1.56      3.            109.     4.5   1304.      0.  1311.7  1311.7
X119.299                             86.     86.     86.
*
*       ELTRD IS 1324.5+2HV = 1326.5
*
X2                    1.  1324.2  1326.5
X3   10.                                                        1325.   1325.
BT    6.   9500.   1326.      0.   9650.  1324.5      0.   9855.  1325.3      0.
BT10000.  1325.7      0.  10275.  1324.9      0.  10460.   1326.      0.
ET                  10.41
X119.313     20.   9932.  10112.     75.     75.     74.
GR 1329.   9853.  1326.7   9859.  1327.6   9866.  1327.9   9932.  1314.5   9968.
GR1312.2   9980.  1311.7   9988.  1313.1   9996.  1313.1  10000.  1313.4  10017.
GR 1312.  10029.  1313.7  10044.  1311.7  10054.  1313.7  10069.  1325.5  10112.
GR1325.4  10137.  1324.3  10180.  1324.9  10219.  1325.2  10325.  1326.6  10464.
NC                      0.1     0.3
X119.418     19.   9948.  10120.    570.    530.    554.
GR1330.8   9898.  1328.8   9902.  1330.6   9910.  1330.2   9938.   1328.   9948.
GR1313.1   9992.  1313.1  10000.   1313.  10004.  1316.1  10022.  1314.6  10058.
GR1315.5  10076.  1320.1  10094.  1326.1  10120.  1327.6  10138.  1327.5  10186.
GR1326.2  10276.   1327.  10322.  1328.3  10376.  1328.6  10401.
*
*       SECTION 19.56  IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST
*       FORK.  THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE
*       EAST FORK OF CAVE CREEK.  THE CONFLUENCE OCCURS AT RM 19.608
*
X1 19.56     17.   9929.  10065.    730.    720.    729.
GR1346.1   9801.  1329.7   9902.  1329.7   9929.  1316.5   9950.  1316.8   9978.
GR1315.6  10000.  1315.6  10008.  1316.6  10026.  1316.4  10035.  1317.5  10043.
GR1330.6  10065.  1330.8  10099.  1330.5  10146.  1330.2  10195.  1330.9  10208.
GR1331.2  10223.  1332.1  10301.
*
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*       GREENWAY BRIDGE  (SPECIAL BRIDGE).  LARGE SKEW ACCOUNTED FOR PRIOR
*       TO DATA INPUT BY ADJUSTING BWC ETC.  DUE TO COMPLEX CHANNEL GEOMETRY
*       DOWNSTREAM AT THE CONFLUENCE WITH THE EAST FORK, IT WAS MOST APPROPRIATE
*       TO USE THE UPSTREAM SECTION, REPEATED AT THE DOWNSTREAM FACE.  GR CARDS
*       FROM SECTION 19.742 ARE REPEATED FOR 19.625 WITH PSXECE = -1.7

QT    2.   5700.   5700.
NC 0.035   0.035   0.015     0.3     0.5
X119.625     11.   9965.  10025.    580.     70.    364.            -1.7
X3   10.                                                   1332.   1332.
GR1335.7   9834.  1335.1   9893.  1333.4   9922.  1331.8   9937.  1331.6   9948.
GR1319.3   9965.  1319.3  10025.   1331.  10042.  1339.2  10055.  1337.7  10060.
GR1338.8  10100.
SB  1.05    1.56      3.    100.     60.      2.    564.      0.  1318.6  1317.6
X119.691                            330.    430.    350.             1.0
*
*       ELTRD IS 1332.8+2HV = 1334.8
*
X2                    1.  1328.3  1334.8
X3   10.                                                   1333.   1333.
ET                   4.1   9953.  10038.
X119.742     13.   9948.  10042.     80.    470.    269.
GR1335.7   9834.  1335.1   9893.  1333.4   9922.  1331.8   9937.  1331.6   9948.
GR1319.1   9967.  1319.2  10000.  1319.7  10017.  1319.7  10027.   1331.  10042.
GR1339.2  10055.  1337.7  10060.  1338.8  10100.
NC 0.035   0.035   0.035     0.1     0.3
ET                   4.1   9957.  10043.
X119.847     22.   9929.  10062.    570.    520.    554.
GR1339.8   9621.  1338.7   9726.  1341.6   9738.  1338.8   9759.   1339.   9806.
GR1337.7   9915.  1336.1   9921.  1336.3   9929.  1320.2   9974.  1318.8   9989.
GR1320.8  10000.  1320.5  10017.  1321.3  10023.  1328.8  10040.  1335.8  10062.
GR1336.1  10070.  1336.6  10084.  1335.8  10150.   1336.  10160.  1338.3  10175.
GR1339.2  10195.  1339.2  10198.
ET                   4.1   9958.  10031.
X119.960     24.   9958.  10031.    640.    560.    597.
GR1340.4   9544.  1339.1   9638.  1336.7   9736.  1337.2   9768.  1338.2   9807.
GR1338.9   9836.  1338.4   9908.  1340.1   9911.  1337.7   9917.  1339.1   9924.
GR1337.2   9935.   1330.   9958.  1327.8   9964.  1326.1   9977.  1324.6   9990.
GR1324.7  10000.  1326.1  10008.  1326.8  10023.   1330.  10031.  1340.6  10059.
GR1340.8  10072.  1340.7  10099.  1340.1  10194.  1339.9  10251.
*
*       TIERRA BUENA  (SPECIAL BRIDGE)
*
*
*       DUE TO HIGHER DEPTHS THAN ANTICIPATED, XNCH HAS BEEN REDUCED
*       FROM 0.04 (PER MANNINGS n VALUE REPORT) TO 0.035 BETWEEN GREENWAY ROAD
*       AND UNION HILLS DRIVE
*
NC  0.04    0.04   0.035     0.3     0.5
ET                   4.1   9969.  10020.
X119.974     10.   9969.  10020.    105.     65.     74.
X3   10.                                                   1336.   1336.
GR1340.1   9911.  1337.7   9917.  1339.1   9924.  1337.2   9935.   1330.   9958.
GR1323.8   9969.  1323.8  10020.   1330.  10031.  1340.6  10059.  1340.8  10072.
SB  1.25    1.56      3.             51.      3.    480.      0.  1324.1  1323.8
ET                  4.11   9969.  10020.
X119.986                             61.     61.     61.
*
*       ELTRD IS 1336.9+1HV = 1337.9

X2                    1.  1334.1  1337.9
X3   10.                                                   1337.   1337.
BT    3.   9560.   1340.      0.  10000.  1336.9      0.  10230.   1340.      0.
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ET                    4.1   9975.  10025.
X120.049     37.    9954.  10027.    305.    345.    333.
X3   10.                                                1340.
GR1344.7   9266.  1345.2   9300.  1342.4   9304.  1340.8   9328.  1332.6   9344.
GR1333.1   9400.  1333.3   9490.   1334.   9563.  1334.8   9606.  1333.2   9728.
GR 1335.   9767.  1331.4   9805.   1331.   9820.  1331.5   9854.  1331.5   9901.
GR1332.1   9920.  1341.1   9938.  1340.5   9950.  1343.4   9954.  1339.8   9969.
GR1327.4   9991.  1327.1   9997.  1327.1  10000.  1328.4  10008.  1339.4  10027.
GR 1340.  10047.  1342.3  10075.  1342.4  10097.  1340.2  10114.  1342.3  10131.
GR 1343.  10142.  1341.5  10162.  1342.7  10175.  1342.9  10210.  1343.3  10307.
GR1342.5  10378.   1343.  10477.
NC                          0.1     0.3
ET                    4.1   9972.  10029.
X120.144     38.    9955.  10025.    490.    500.    502.
X3   10.                                                1344.
GR1346.6   9136.  1347.4   9206.  1348.2   9208.  1348.4   9215.  1347.1   9235.
GR1342.5   9239.  1341.7   9258.  1334.6   9278.   1332.   9297.  1332.6   9357.
GR1333.7   9417.  1333.1   9457.  1334.1   9479.  1334.9   9499.  1335.3   9554.
GR1334.4   9582.  1335.7   9631.  1335.6   9698.  1336.1   9745.  1334.6   9779.
GR1329.6   9788.  1330.5   9820.  1329.4   9847.  1328.5   9881.  1328.5   9912.
GR1341.6   9931.  1343.1   9951.  1344.6   9955.   1342.   9968.  1330.9   9986.
GR1330.9  10000.  1330.9  10010.  1340.8  10025.  1342.2  10040.  1345.9  10053.
GR1346.5  10073.   1347.  10128.   1347.  10198.
ET                    4.1   9964.  10035.
X120.242     32.    9953.  10029.    470.    560.    517.
X3   10.                                                1348.
GR1346.6   9200.  1347.9   9269.  1348.7   9271.  1348.7   9277.  1346.6   9330.
GR1347.7   9377.  1342.3   9383.  1342.7   9400.  1332.4   9422.  1333.6   9470.
GR1333.7   9529.  1334.9   9573.  1334.2   9626.  1334.9   9648.  1335.1   9651.
GR 1336.   9785.   1336.   9842.  1338.6   9846.  1339.3   9895.  1339.2   9935.
GR1347.2   9953.  1343.7   9970.  1333.3   9988.  1333.7  10000.  1333.5  10012.
GR1342.8  10029.  1343.2  10041.  1348.3  10061.  1349.2  10076.  1349.9  10107.
GR1350.1  10201.  1350.3  10202.
ET                    4.1   9963.  10036.
X120.335     27.    9958.  10032.    510.    470.    491.
GR1349.5   9230.  1351.4   9312.  1349.1   9322.  1350.7   9340.   1351.   9476.
GR1351.2   9592.  1350.4   9726.  1350.1   9808.  1351.1   9820.  1351.4   9850.
GR1351.8   9928.  1347.7   9950.   1344.   9958.  1337.7   9971.  1337.3   9987.
GR1337.4  10000.  1338.3  10021.   1344.  10032.   1349.  10042.  1351.8  10056.
GR1351.1  10100.  1351.6  10141.   1350.  10144.   1350.  10166.   1350.  10240.
GR1350.8  10328.  1351.4  10406.
*
*       11TH AVENUE  (SPECIAL BRIDGE)
*
NC                          0.3     0.5
X120.347     25.    9970.  10021.      1.    150.     63.
X3   10.                                                1351.5  1351.5
GR1349.5   9230.  1351.4   9312.  1349.1   9322.  1350.7   9340.   1351.   9476.
GR1351.2   9592.  1350.4   9726.  1350.1   9808.  1351.1   9820.  1351.4   9850.
GR1351.8   9928.  1347.7   9950.   1344.   9958.  1337.2   9970.  1337.2  10021.
GR 1344.  10032.   1349.  10042.  1351.8  10056.  1351.1  10100.  1351.6  10141.
GR 1350.  10144.   1350.  10166.   1350.  10240.  1350.8  10328.  1351.4  10406.
SB  1.25    1.56     3.0    100.     51.      3.    576.      0.  1337.7  1337.2
X120.366                           100.    100.    100.
*
*       ELTRD IS 1352.5+2HV = 1354.5
*
X2                     1.  1349.7  1354.5
X3   10.                                                1352.5  1352.5
ET                    4.1   9958.  10072.
X120.423     21.    9975.  10045.    415.    205.    301.
GR1354.3   9418.  1353.8   9613.  1355.3   9653.  1354.6   9696.  1353.3   9711.
GR1353.6   9724.  1353.5   9931.   1352.   9950.   1345.   9975.   1338.  10000.
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GR1339.4  10027.  1339.7  10037.  1344.3  10045.   1345.  10055.  1353.3  10085.
GR1353.5  10100.  1354.7  10127.  1354.4  10214.  1354.3  10273.  1353.3  10300.
GR1353.5  10333.
*
*       10TH AVENUE  (SPECIAL BRIDGE)
X120.430     20.   9985.  10036.      1.     65.     37.
X3   10.                                                 1352.5  1352.5
GR1354.3   9418.  1353.8   9613.  1355.3   9653.  1354.6   9696.  1353.3   9711.
GR1353.6   9724.  1353.5   9931.   1352.   9950.   1345.   9975.  1339.3   9985.
GR1339.3  10036.  1344.3  10045.   1345.  10055.  1353.3  10085.  1353.5  10100.
GR1354.7  10127.  1354.4  10214.  1354.3  10273.  1353.3  10300.  1353.5  10333.
SB  1.25    1.56     3.0    100.     51.      3.    576.      0.  1339.3  1339.3
X120.444                            70.     70.     70.
*
*       ELTRD IS 1353.5+2HV = 1355.5
*
X2                     1.  1351.3  1355.5
X3   10.                                                 1353.5  1353.5
ET                   4.1   9930.  10069.
X120.529     19.   9947.  10055.    545.    375.    449.
GR 1354.   9570.  1353.7   9764.  1354.8   9836.   1355.   9885.  1354.7   9898.
GR1350.7   9910.  1350.2   9947.  1343.4   9963.  1343.4   9990.  1343.3  10000.
GR 1343.  10025.  1348.6  10041.  1350.4  10055.  1350.8  10090.   1355.  10105.
GR1354.4  10159.   1355.  10192.   1355.  10302.  1355.2  10313.
NC                           0.1     0.3
ET                   4.1   9935.  10065.
X120.628     16.   9909.  10076.    530.    520.    523.
GR1357.3   9532.  1357.3   9624.  1356.8   9754.  1357.2   9808.  1357.1   9909.
GR1351.5   9922.  1350.2   9947.  1343.3   9959.  1343.6   9991.  1343.6  10000.
GR1343.7  10044.  1356.3  10076.   1357.  10082.  1357.1  10137.  1357.2  10282.
GR 1358.  10337.
ET                   4.1   9962.  10026.
X120.725     20.   9951.  10036.    510.    520.    512.
GR1360.3   9544.  1361.1   9631.  1361.3   9734.   1361.   9783.   1362.   9858.
GR1360.8   9940.  1360.4   9951.  1350.4   9970.  1350.4   9981.  1348.3   9984.
GR1347.4   9992.  1347.2  10000.  1347.4  10010.   1361.  10036.  1363.4  10046.
GR1363.8  10101.  1364.1  10156.  1364.7  10184.  1365.1  10212.  1364.7  10291.
*
*       PHELPS ROAD  (SPECIAL BRIDGE)
*
NC                           0.3     0.5
X120.737     16.   9968.  10019.     80.     80.     80.                3.4
X3   10.                                                 1363.   1363.
GR1360.3   9544.  1361.1   9631.  1361.3   9734.   1361.   9783.   1362.   9858.
GR1360.8   9940.  1360.4   9951.  1347.5   9968.  1347.5  10019.   1361.  10036.
GR1363.4  10046.  1363.8  10101.  1364.1  10156.  1364.7  10184.  1365.1  10212.
GR1364.7  10291.
SB  1.25    1.56     3.0    100.     51.      3.    576.      0.  1351.0  1350.9
X120.750                            71.     71.     71.                0.1
*
*       ELTRD IS 1364+2HV = 1366.0
*
X2                     1.   1363.   1366.
X3   10.                                                 1364.   1364.
*
*       BELL ROAD  (SPECIAL BRIDGE)  A SECTION TAKEN UPSTREAM OF BELL ROAD AT
*       RM 20.845 IS USED TO MODEL THE BELL ROAD BRIDGE.  GR CARDS ARE REPEATED
*       AT THE DOWNSTREAM FACE WITH PSXECE = -0.9.  TO MORE APPROPRIATELY MODEL
*       CONTRACTION LOSSES, THE UPSTREAM SECTION IS PRESENTED AT RM 20.860
*       INSTEAD OF RM 20.845 WHERE THE AERIAL SECTION WAS TAKEN.
*
X120.819     12.   9965.  10043.    375.    345.    365.               -0.9
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X3   10.                                                  1366.9  1366.9
GR1366.5   9554.  1365.4   9663.  1365.5   9777.  1365.5   9846.  1365.3   9942.
GR1357.4   9965.  1357.4  10043.  1367.6  10066.  1366.2  10107.  1366.2  10146.
GR 1367.  10166.  1367.2  10169.
SB  1.05    1.56     3.0    100.    77.3     3.3    655.      0.  1357.4  1356.5
X120.841                           115.    115.    115.            0.9
*
*       ELTRD IS 1367.9+2HV = 1369.9
*
X2                    1.  1365.4  1369.9
X3   10.                                                  1367.9  1367.9
ET                   4.1   9904.  10060.
X120.860     14.   9942.  10066.     90.    110.    100.
X3   10.                                                  1365.3  1367.6
GR 1370.   9800.  1365.5   9801.  1365.5   9846.  1365.3   9942.  1357.8   9975.
GR1356.3   9991.  1356.4  10000.  1357.2  10015.   1357.  10040.  1367.6  10066.
GR1366.2  10107.  1366.2  10146.   1367.  10166.  1367.2  10169.
NC  0.04   0.035   0.035     0.1     0.3
ET                   4.1   9860.  10110.
X120.942     26.   9854.  10024.    530.    490.    433.
GR1372.5   9619.  1367.2   9630.  1368.7   9643.  1369.8   9663.  1369.4   9719.
GR1367.6   9792.  1367.6   9836.  1368.6   9854.  1360.2   9867.  1359.8   9879.
GR1359.8   9891.  1364.6   9904.  1365.2   9942.  1363.7   9970.   1366.   9977.
GR1360.3   9998.  1359.6  10000.  1366.5  10024.  1364.7  10027.  1364.5  10053.
GR1365.7  10070.  1364.5  10114.  1361.6  10153.  1368.3  10171.  1368.3  10194.
GR1368.3  10204.
NC  0.04    0.04   0.035
ET                   4.1   9810.  10060.
X121.036     19.   9912.  10020.    490.    490.    496.
GR1376.1   9530.   1372.   9541.   1372.   9561.  1371.3   9665.  1371.9   9728.
GR1371.6   9758.  1370.9   9867.  1370.7   9912.  1367.3   9917.  1367.5   9952.
GR1366.3   9980.  1363.5   9994.  1363.6  10000.  1364.3  10009.  1370.4  10020.
GR1371.2  10041.  1371.2  10075.  1371.8  10089.   1378.  10090.
ET                   4.1   9900.  10060.
X121.127     13.   9974.  10067.    400.    500.    480.
X3   10.                                                  1374.
GR1378.9   9623.  1373.6   9634.  1373.6   9666.  1373.4   9759.  1373.5   9860.
GR1373.7   9913.  1374.2   9974.  1366.9   9990.  1366.7  10000.  1367.5  10015.
GR1367.8  10039.   1375.  10067.   1375.  10077.
ET                   4.1   9900.  10125.
X121.230     28.   9967.  10048.    560.    500.    544.
GR1381.5   9741.  1381.5   9764.  1381.5   9786.  1380.7   9813.  1379.3   9835.
GR1379.3   9852.  1379.9   9862.  1378.2   9870.  1379.8   9879.  1378.9   9891.
GR1379.5   9916.  1379.6   9930.  1378.9   9944.  1379.2   9955.  1379.3   9967.
GR1374.7   9982.  1372.4   9992.   1372.  10000.  1373.2  10014.  1375.6  10023.
GR1379.3  10037.  1380.6  10048.   1378.  10062.  1377.5  10083.  1377.4  10102.
GR1377.7  10117.  1377.8  10126.   1385.  10127.
ET                   4.1   9930.  10130.
X121.363     55.   9928.  10088.    740.    700.    702.
GR1384.8   9135.  1384.7   9160.  1383.9   9189.  1384.6   9215.  1383.9   9245.
GR1384.4   9279.  1383.8   9313.   1384.   9345.  1384.1   9374.  1383.8   9405.
GR1383.5   9428.  1384.5   9459.   1385.   9498.  1384.7   9527.   1385.   9549.
GR1382.2   9561.   1381.   9570.  1382.1   9583.  1383.9   9596.  1384.3   9628.
GR1384.3   9657.   1384.   9697.  1383.6   9739.  1384.1   9779.  1383.9   9811.
GR1383.1   9822.  1383.6   9848.  1383.3   9886.  1383.5   9907.  1384.1   9916.
GR1383.2   9922.  1384.4   9928.  1383.6   9939.  1379.2   9954.  1377.7   9977.
GR 1375.   9996.  1374.8  10000.   1375.  10016.  1374.2  10037.  1374.1  10045.
GR1377.5  10066.  1382.1  10088.  1383.8  10108.   1384.  10125.  1384.5  10147.
GR1382.7  10174.  1383.2  10202.  1383.1  10224.  1383.1  10245.  1383.3  10265.
GR1384.3  10285.  1383.4  10301.   1383.  10319.   1383.  10334.   1383.  10337.
ET                   4.1   9852.  10077.
X121.484     33.   9932.  10026.    650.    520.    639.
GR1386.8   9487.  1385.8   9527.  1385.8   9572.  1385.4   9614.  1384.8   9647.
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GR1385.2   9678.  1385.6   9709.  1386.7   9746.  1385.9   9776.  1384.5   9805.
GR1383.9   9837.  1384.4   9867.   1384.   9892.  1386.5   9919.  1386.9   9932.
GR1386.2   9943.  1383.5   9964.  1380.2   9970.  1379.7   9988.  1378.5   9994.
GR1378.6  10000.  1381.2  10014.  1386.5  10026.  1386.6  10053.  1387.8  10056.
GR1385.5  10060.  1388.2  10068.  1385.8  10075.  1387.4  10079.  1387.4  10101.
GR1387.6  10116.  1387.5  10131.  1387.4  10134.
ET                   4.1   9940.  10165.
X121.576     43.   9980.  10087.    320.    480.    486.
GR1388.7   9388.  1388.6   9414.  1388.2   9461.  1388.5   9500.  1389.3   9532.
GR1388.7   9570.  1388.5   9607.  1387.9   9643.  1388.6   9664.  1388.8   9705.
GR1389.1   9743.  1388.9   9780.   1388.   9821.  1388.4   9852.  1388.7   9889.
GR1389.1   9922.  1389.7   9952.  1390.1   9968.   1390.   9980.  1382.5   9994.
GR1382.1  10000.  1382.2  10008.  1383.8  10015.  1385.1  10038.  1385.2  10056.
GR1384.1  10065.  1384.6  10073.  1388.3  10087.  1387.1  10114.  1387.1  10140.
GR1387.8  10162.  1387.7  10199.  1388.4  10243.  1388.7  10281.  1389.3  10300.
GR1390.3  10307.  1389.2  10313.  1390.7  10320.  1387.6  10329.  1388.9  10335.
GR1389.7  10348.  1390.2  10360.  1390.3  10386.
QT    2.   5500.   5500.
ET                   4.1   9890.  10115.
X121.669     35.   9962.  10031.    440.    470.    491.
GR1393.2   9392.   1393.   9426.  1392.7   9446.  1392.3   9515.  1392.9   9562.
GR1392.2   9606.  1392.8   9663.  1392.7   9710.  1393.1   9742.  1393.5   9777.
GR1393.3   9819.  1392.7   9858.  1392.2   9893.  1391.6   9925.   1392.   9949.
GR1393.8   9962.  1392.7   9974.  1392.2   9982.   1385.   9989.   1384.   9997.
GR1384.5  10000.  1385.1  10011.  1388.7  10023.   1392.  10031.  1391.2  10045.
GR 1392.  10074.  1391.7  10124.  1391.9  10182.   1392.  10245.  1392.1  10303.
GR1391.9  10361.   1392.  10395.  1392.6  10401.  1391.6  10404.  1393.3  10414.
ET                   4.1   9940.  10140.
X121.742     25.   9975.  10091.    430.    390.    385.
GR 1396.   9733.  1394.6   9753.  1395.1   9777.   1395.   9802.   1395.   9839.
GR1395.6   9885.  1395.1   9930.  1395.3   9940.  1394.7   9975.  1387.4   9991.
GR1386.4  10000.  1386.9  10015.  1392.2  10035.  1391.9  10052.  1389.9  10062.
GR1391.5  10080.  1394.2  10091.  1394.2  10126.  1394.9  10176.   1395.  10240.
GR1394.6  10281.  1394.8  10324.  1395.2  10355.  1395.3  10367.  1397.3  10376.
ET                   4.1   9900.  10100.
X121.840     22.   9946.  10054.    430.    430.    517.
GR1401.5   9827.  1402.1   9842.  1397.3   9860.  1395.5   9882.   1395.   9913.
GR1395.3   9931.  1396.2   9946.  1395.7   9953.  1392.1   9967.  1392.6   9984.
GR1393.7   9997.  1393.3  10000.  1392.5  10020.  1391.1  10033.  1393.5  10045.
GR 1397.  10054.  1396.5  10097.  1397.3  10145.  1397.8  10186.  1397.5  10227.
GR1397.6  10273.  1398.3  10308.
ET                   4.1   9830.  10080.
X121.895     31.   9975.  10031.    330.    220.    290.
GR1402.6   9807.  1402.6   9825.  1398.4   9839.  1397.2   9857.  1396.7   9885.
GR1396.7   9919.  1397.7   9939.  1397.9   9960.   1398.   9975.  1397.1   9981.
GR 1393.   9990.  1391.9  10000.  1392.3  10010.   1394.  10021.  1397.7  10031.
GR1398.6  10046.   1399.  10078.  1398.4  10113.  1398.6  10149.  1398.7  10187.
GR1398.5  10225.  1398.1  10251.  1398.6  10292.  1398.6  10333.  1399.3  10364.
GR1398.8  10399.  1399.5  10428.  1400.5  10446.  1400.5  10458.  1399.7  10463.
GR1400.9  10470.
*
*       UNION HILLS RD:   PIPES BENEATH LOW CROSSING WERE MODELLED AS AN AREA
*       (BAREA) WITH AN ORIFICE COEFFICIENT.  THE 100 YEAR FLOW THROUGH THE
*       PIPES WAS NEGLIGIBLE (18 CFS).  UNION HILLS IS THEREFORE MORE
*       APPROPRIATELY MODELLED AS A NORMAL SECTION USING GR CARDS.
*
ET                   4.1   9650.  10070.
X121.933     12.   9865.  10140.    210.    210.    210.
GR 1402.   9060.  1400.3   9440.   1400.   9590.   1398.   9680.  1397.4   9725.
GR 1398.   9780.  1399.4   9840.   1398.   9865.  1396.8  10000.   1398.  10140.
GR 1400.  10285.   1406.  10286.
NC 0.045   0.045   0.045
ET                   4.1   9630.  10051.
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X121.953	39.	9969.	10029.	75.	75.	74.			
GR 1402.	9320.	1400.5	9487.	1400.8	9527.	1401.4	9557.	1400.2	9580.
GR1401.7	9599.	1401.1	9621.	1400.2	9647.	1399.6	9678.	1398.8	9699.
GR1398.3	9714.	1397.6	9720.	1396.6	9725.	1398.8	9735.	1399.3	9745.
GR1398.8	9759.	1397.3	9768.	1398.9	9782.	1398.9	9810.	1400.1	9832.
GR1402.1	9851.	1401.7	9870.	1403.3	9884.	1403.7	9893.	1403.4	9912.
GR1402.3	9939.	1401.	9956.	1399.7	9965.	1400.2	9969.	1395.6	9986.
GR1394.4	9997.	1394.1	10000.	1394.	10010.	1394.9	10018.	1398.3	10029.
GR1400.1	10044.	1401.6	10058.	1401.4	10064.	1407.	10065.		
ET		4.1	9620.	10030.					
X122.065	39.	9961.	10028.	430.	630.	591.			
GR1404.2	9230.	1404.	9250.	1402.	9270.	1402.	9500.	1403.1	9594.
GR1403.6	9604.	1400.4	9627.	1400.1	9645.	1400.6	9657.	1400.3	9680.
GR1400.5	9700.	1401.9	9717.	1403.3	9731.	1403.7	9746.	1403.9	9761.
GR1400.1	9776.	1400.	9785.	1401.1	9796.	1401.	9816.	1403.7	9829.
GR1403.7	9843.	1400.7	9861.	1399.7	9869.	1402.7	9890.	1403.5	9899.
GR1404.1	9915.	1404.8	9934.	1403.6	9950.	1404.1	9961.	1401.4	9977.
GR 1398.	9989.	1395.8	9995.	1395.8	10000.	1395.9	10006.	1399.4	10010.
GR 1402.	10028.	1402.6	10043.	1406.6	10061.	1407.1	10085.		
ET		4.1	9620.	10020.					
X122.165	63.	9983.	10018.	530.	530.	528.			
GR 1406.	9130.	1405.2	9138.	1405.	9151.	1404.4	9164.	1402.8	9176.
GR1402.7	9184.	1400.8	9204.	1399.8	9213.	1399.3	9222.	1401.2	9232.
GR 1403.	9256.	1403.8	9282.	1403.8	9308.	1404.3	9334.	1404.2	9364.
GR1404.1	9396.	1404.	9425.	1404.9	9463.	1405.2	9499.	1405.3	9526.
GR1404.9	9548.	1403.8	9565.	1402.8	9579.	1404.6	9595.	1404.8	9608.
GR1402.4	9624.	1400.	9637.	1399.7	9645.	1400.6	9657.	1402.	9669.
GR1403.1	9686.	1404.5	9701.	1405.8	9714.	1406.2	9728.	1406.1	9741.
GR 1404.	9753.	1403.8	9760.	1405.2	9772.	1405.6	9784.	1405.3	9793.
GR1402.9	9806.	1402.7	9820.	1402.6	9834.	1402.6	9843.	1401.8	9849.
GR1401.9	9862.	1402.8	9872.	1403.8	9876.	1405.	9894.	1406.1	9909.
GR1405.4	9919.	1403.1	9930.	1403.	9946.	1402.1	9967.	1400.9	9983.
GR1395.3	9994.	1395.	10000.	1396.1	10007.	1403.7	10018.	1404.8	10038.
GR1405.2	10053.	1405.2	10060.	1405.7	10065.				
ET		4.1	9650.	10027.					
X122.273	57.	9933.	10028.	470.	580.	570.			
GR1418.7	9227.	1418.7	9238.	1412.4	9262.	1411.6	9274.	1410.9	9284.
GR 1409.	9292.	1407.6	9300.	1407.3	9314.	1406.3	9325.	1403.5	9335.
GR1403.1	9344.	1403.	9350.	1404.3	9359.	1405.4	9369.	1405.8	9386.
GR1406.7	9408.	1407.1	9427.	1407.4	9444.	1407.2	9460.	1406.4	9473.
GR1406.5	9485.	1406.9	9502.	1407.7	9520.	1408.2	9532.	1407.1	9558.
GR1404.4	9574.	1404.3	9598.	1406.	9622.	1407.	9657.	1407.3	9686.
GR1406.2	9708.	1406.4	9727.	1406.4	9745.	1405.6	9754.	1402.6	9766.
GR1402.8	9774.	1406.7	9789.	1409.4	9801.	1408.5	9827.	1407.9	9851.
GR1408.8	9869.	1406.3	9887.	1407.	9902.	1404.	9915.	1404.1	9933.
GR1403.2	9948.	1401.8	9961.	1400.6	9977.	1400.1	9992.	1399.4	9999.
GR1399.8	10000.	1401.2	10011.	1404.	10021.	1406.9	10028.	1408.	10050.
GR1408.3	10080.	1408.7	10109.						
ET		4.1	9860.	10040.					
X122.410	25.	9973.	10027.	750.	630.	723.			
GR 1420.	9802.	1419.1	9817.	1418.8	9825.	1415.8	9838.	1414.8	9850.
GR1412.6	9867.	1413.9	9879.	1412.	9890.	1413.4	9903.	1414.5	9914.
GR1416.1	9922.	1414.	9931.	1412.4	9941.	1411.4	9954.	1411.2	9967.
GR1410.7	9973.	1405.7	9987.	1404.9	9997.	1404.	10000.	1404.7	10007.
GR1407.6	10017.	1411.3	10027.	1413.5	10042.	1413.8	10057.	1414.4	10071.
ET		4.1	9890.	10050.					
X122.483	19.	9941.	10105.	380.	390.	385.			
GR 1421.	9823.	1420.2	9843.	1416.7	9873.	1414.4	9891.	1413.1	9915.
GR1411.1	9941.	1407.8	9961.	1406.2	9984.	1405.5	10000.	1405.5	10027.
GR1406.4	10056.	1408.3	10084.	1411.2	10105.	1412.3	10120.	1412.6	10138.
GR1412.6	10156.	1411.9	10175.	1412.7	10191.	1419.8	10208.		
ET		4.1	9925.	10055.					
X122.500	24.	9650.	10090.	110.	95.	103.			

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X3                          9775.
GR1423.5  9020.0  1416.0  9050.   1414.0   9350.  1412.0   9390.  1410.0  9400.0
GR1412.0   9410.  1414.0  9465.   1414.0   9570.   1416.   9610.   1418.   9650.
GR1416.0   9710.  1414.0  9775.   1414.0   9900.   1416.   9905.   1416.   9930.
GR1414.0   9950.   1406.  9975.   1405.8  10000.   1406.  10030.   1408.  10080.
GR1412.0  10090.   1414. 10235.   1416.0  10255.   1420.  10270.
ET                   4.1   9968.  10064.
X122.578     13.   9968.  10072.    415.    395.    400.
GR1417.2   9914.  1417.6   9942.  1416.4   9958.  1416.6   9968.  1406.7   9983.
GR1406.7   9993.  1407.5  10000.  1408.5  10024.  1408.5  10040.  1408.8  10050.
GR1415.6  10063.  1421.2  10072.  1421.4  10090.
ET                   4.1   9830.  10028.
X122.675     19.   9736.  10032.    570.    480.    512.
GR1419.9   9671.  1419.9   9710.  1419.8   9736.  1410.6   9759.  1411.1   9783.
GR1410.6   9809.  1409.7   9828.  1410.8   9850.  1411.5   9873.  1413.4   9892.
GR1412.2   9922.   1411.   9950.   1411.   9976.  1410.7  10000.  1410.6  10015.
GR 1420.  10032.  1428.3  10047.  1426.6  10055.   1426.  10060.
ET                   4.1   9977.  10160.
X122.794     20.   9983.  10169.    460.    500.    628.
GR1420.6   9968.  1417.8   9983.  1413.6   9998.  1412.4  10000.  1412.3  10013.
GR1410.7  10041.  1411.6  10065.  1413.7  10080.  1413.8  10103.  1414.2  10119.
GR1411.7  10136.  1413.8  10151.  1416.1  10169.  1417.2  10189.  1420.3  10202.
GR1423.1  10219.   1427.  10244.  1429.9  10261.  1429.8  10278.  1429.8  10282.
ET                   4.1   9951.  10120.
X122.880     34.   9927.  10167.    440.    480.    454.
GR1427.3   9791.   1427.   9807.  1426.5   9815.  1424.8   9827.  1424.6   9838.
GR1424.8   9863.  1424.8   9883.  1424.5   9903.  1424.7   9917.  1426.4   9927.
GR1423.9   9934.  1421.4   9947.  1418.5   9958.  1416.1   9968.   1415.   9984.
GR 1414.   9999.  1414.3  10000.  1414.5  10012.  1415.2  10024.  1416.1  10048.
GR1416.5  10067.  1416.4  10101.  1416.2  10125.  1415.5  10143.  1413.2  10152.
GR 1413.  10156.  1414.8  10160.  1424.2  10167.  1426.6  10188.  1428.4  10200.
GR1430.9  10214.  1433.5  10230.  1433.8  10241.  1433.5  10248.
ET                   4.1   9890.  10026.
X122.990     35.   9739.  10034.    480.    530.    581.
GR1427.7   9668.  1427.6   9697.  1425.6   9719.  1425.3   9730.  1425.4   9739.
GR1423.9   9751.  1422.5   9767.  1422.4   9785.  1421.5   9804.  1421.3   9817.
GR1421.3   9829.  1420.8   9843.  1419.5   9855.  1418.9   9864.  1417.9   9873.
GR1419.4   9886.   1420.   9903.  1420.6   9921.  1420.8   9935.  1420.3   9949.
GR 1420.   9963.  1419.1   9977.  1419.1   9995.  1419.1  10000.  1418.7  10014.
GR1420.3  10020.  1427.9  10034.  1427.3  10044.  1428.3  10060.  1430.5  10076.
GR1435.7  10094.  1437.4  10108.  1438.7  10119.  1436.3  10126.  1435.1  10133.
ET                   4.1   9958.  10090.
X123.097     48.   9951.  10121.    640.    490.    565.
GR1433.9   9713.  1433.9   9740.  1433.8   9758.  1432.3   9772.  1432.1   9778.
GR1433.5   9794.  1433.5   9811.  1433.5   9835.  1433.4   9849.  1431.1   9864.
GR 1430.   9878.  1430.1   9885.   1431.   9892.  1429.6   9901.  1429.1   9916.
GR1429.6   9925.  1431.3   9935.  1432.2   9945.  1432.3   9951.  1427.9   9964.
GR1426.4   9977.  1425.6   9988.  1425.1   9999.  1425.1  10000.   1426.  10012.
GR1426.1  10021.  1426.5  10044.  1426.5  10063.  1426.5  10073.  1426.5  10082.
GR1425.5  10093.  1426.4  10101.  1428.5  10112.  1430.8  10121.  1430.1  10135.
GR 1430.  10150.  1431.6  10163.  1432.8  10176.   1433.  10198.  1432.7  10221.
GR1431.6  10247.  1430.9  10267.  1430.6  10286.  1431.5  10296.  1433.4  10310.
GR1438.3  10337.  1439.7  10353.  1440.5  10363.
*
EJ
T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          FLOODWAY        J.MISCHLER
J1           3.                                                   1284.69
   15.              -1.
```

```
1*****************************************
 *  HEC-2 WATER SURFACE PROFILES          *
 *                                        *
 *  Version   4.6.2;  May 1991            *
 *                                        *
 *  RUN DATE   18APR06    TIME   16:00:22 *
 *****************************************
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*****************************************
*  U.S. ARMY CORPS OF ENGINEERS         *
*  HYDROLOGIC ENGINEERING CENTER        *
*  609 SECOND STREET, SUITE D           *
*  DAVIS, CALIFORNIA 95616-4687         *
*          (916) 756-1104               *
*****************************************
```

```
X     X  XXXXXXX   XXXXX              XXXXX
X     X  X        X     X            X     X
X     X  X        X                        X
XXXXXXX  XXXX     X          XXXXX    XXXXX
X     X  X        X                  X
X     X  X        X     X            X
X     X  XXXXXXX   XXXXX              XXXXXXX
```

1

18APR06 16:00:22


```
*************************************
 HEC-2 WATER SURFACE PROFILES

 Version   4.6.2;  May 1991
*************************************
```

THIS RUN EXECUTED 18APR06 16:00:22

```
T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA CO. 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          NATURAL 100-YR  J. MISCHLER

        CAVE BUTTE DAM CONTROLS DISCHARGES UP TO THE 100 YEAR FLOOD.
        ABOVE THE 100 YEAR FLOOD, THE EMERGENCY SPILLWAY WILL PASS FLOWS.
        AS THE EFFORT TO COMPUTE 500 YEAR HYDROLOGY (WHICH WOULD REQUIRE
        ANALYSIS OF THE ENTIRE WATERSHED ABOVE THE DAM) IS NOT JUSTIFIED
        BY THE VALUE OF 500 YEAR FLOODPLAIN INFORMATION, THE FLOOD CONTROL
        DISTRICT HAS BEEN GRANTED PERMISSION BY FEMA TO DELETE THE 500 YEAR
        FLOOD FROM THE RESTUDY OF CAVE CREEK WASH.  ONLY THE WATERSHED BELOW
        THE DAM HAS BEEN CONSIDERED FOR HYDROLOGIC COMPUTATIONS OF THE 10, 50,
        AND 100 YEAR FLOODS.


        FLOODWAY RUN FROM SEDIMENT BASIN TO CAVE BUTTE DAM.

        FOR SECTIONS 15.310 TO 16.971, REFER TO A SEPARATE SUPERCRITICAL
        RUN FOR THE CORPS OF ENGINEERS' CONCRETE LINED CHANNEL. (NATURAL PROF)

        FLOW IS WITHIN THE CORPS OF ENGINEER'S CHANNEL, SEDIMENT BASIN, OR
        BROAD CRESTED WEIR INLET FROM RM15.015 TO 17.492, THEREFORE NO FLOODWAY
        IS RUN FOR THIS REACH.


        FILE LAST MODIFIED 1/26/90

      FILE MODIFIED ON 04/14/06 BY ASPEN CONSULTING ENGINEERS.  PROJECT IS TO
      FILL LEFT OVER BANK FLOODPLAIN BETWEEN CROSS SECTION 22.675 AND 22.41.
      ENCROCHMENT USED IN CROSS SECTION 22.500 TO MODEL PROPOSED FILL.  NO OTHER
```

CROSS SECTIONS WERE ENCROCHED. THIS IS THE POST-PROJECT CONDITIONS MODEL.

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
		2.							1283.69	

J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.		-1.							15.

J3 VARIABLE CODES FOR SUMMARY PRINTOUT

38.	42.	1.	53.	54.	4.	8.	43.	10.	51.

1

18APR06 16:00:22 PAGE 2

46.	40.	41.		110.		200.			

QT	2.	15400.	15400.		
NC	0.04	0.04	0.04	0.1	0.3

BEGIN ENCROACHMENTS UPSTREAM OF THE SEDIMENT BASIN

ET			10.41							
X1	17.588	25.	9982.	10193.	440.	560.	496.			
GR	1291.4	9666.	1290.3	9746.	1275.6	9817.	1275.2	9835.	1273.5	9854.
GR	1277.8	9873.	1279.7	9889.	1277.3	9896.	1278.2	9909.	1281.6	9922.
GR	1281.9	9939.	1282.2	9964.	1278.1	9982.	1269.6	9992.	1270.6	10000.
GR	1270.9	10009.	1272.6	10014.	1273.6	10039.	1273.6	10079.	1271.2	10144.
GR	1271.2	10170.	1276.4	10193.	1290.5	10264.	1291.3	10328.	1291.	10495.
ET			4.1	9900.	10150.					
X1	17.662	23.	9941.	10130.	380.	400.	391.			
GR	1293.1	9731.	1293.1	9781.	1291.6	9791.	1282.7	9835.	1278.1	9844.
GR	1279.2	9871.	1277.3	9911.	1276.4	9941.	1272.5	9986.	1271.6	10000.
GR	1274.6	10016.	1277.5	10033.	1278.8	10063.	1278.9	10086.	1276.8	10099.
GR	1275.7	10111.	1281.6	10130.	1285.2	10161.	1293.1	10208.	1294.	10221.
GR	1293.7	10281.	1294.	10400.	1294.5	10432.				
ET			10.41							
X1	17.783	18.	9921.	10064.	540.	500.	639.			
GR	1295.2	9812.	1294.	9837.	1291.3	9861.	1286.9	9895.	1280.5	9921.
GR	1276.8	9938.	1278.3	9954.	1277.6	9973.	1275.4	10000.	1276.3	10019.
GR	1277.4	10033.	1277.7	10045.	1281.1	10064.	1281.3	10074.	1284.6	10097.
GR	1289.8	10122.	1291.5	10143.	1291.9	10153.				
X1	17.932	23.	9956.	10066.	790.	780.	787.			
GR	1294.8	9675.	1294.7	9732.	1295.5	9750.	1293.6	9766.	1297.5	9792.
GR	1297.5	9837.	1298.3	9869.	1291.9	9896.	1289.7	9956.	1283.6	9966.
GR	1283.5	9971.	1277.9	9986.	1278.2	10000.	1278.2	10006.	1279.5	10008.
GR	1279.9	10022.	1280.2	10032.	1285.5	10054.	1290.2	10066.	1290.6	10083.
GR	1298.5	10131.	1299.7	10159.	1299.7	10193.				

THUNDERBIRD ROAD BRIDGE - ALTHOUGH THE ROAD IS LOWEST IN THE RIGHT OVERBANK, HIGH BANKS UPSTREAM PREVENT THIS AREA FROM BECOMING EFFECTIVE, THEREFORE, ONLY THE BRIDGE OPENING IS CONSIDERED ON THE GR CARDS AND ONLY THE BRIDGE LENGTH IS CONSIDERED FOR THE BT CARDS. ENDS OF THE SECTIONS ARE ARTIFICIALLY EXTENDED. BT'S ARE RAISED 0.5' FROM CENTER-LINE OF ROAD ELEVATIONS AT THE BRIDGE. TO ACCOUNT FOR THE RAILING.

			4.1	9951.	10049.					
NC	0.035	0.035	0.025	0.3	0.5					
X1	18.042	8.	9951.	10049.	620.	550.	581.		2.4	

```
GR   1[illegible]      9951.     1283.4     9952.     1282.9     9979.     [illegible]79.9     9980.     1279.9     10020.
GR   1281.9     10021.     1284.2     10048.     1305.     10049.
1
   18APR06      16:00:22                                                                                          PAGE    3

SB     1.05      1.56       3.                    75.       4.      1059.      0.81     1280.2     1279.9
NC     0.03      0.03     0.025
                   4.11    9951.  10049.
X1   18.061                                      101.     101.       101.                0.8

        ELTRD IS 1298.4+3.2HV =  1301.6

X2                            1.     1293.2     1301.6
BT       4.     9951.     1305.        0.      9952.    1298.4        0.     10048.    1298.4        0.
BT   10049.     1305.        0.

NC    0.035    0.035     0.035
ET                          4.1      9900.     10085.
X1   18.081       11.     9942.     10045.        80.     130.       106.
GR   1300.5     9819.    1300.2      9866.     1298.2    9899.    1286.6     9942.    1282.7     9960.
GR   1281.4    10000.    1281.1     10008.     1282.7   10030.    1284.9    10045.    1297.3    10088.
GR   1300.2    10112.

NC                                 0.1        0.3
ET                          4.1      9857.     10125.
X1   18.174       29.     9919.     10073.       500.     490.       491.
GR   1303.6     9673.    1304.6      9713.     1307.3    9757.    1302.5     9801.     1302.     9850.
GR    1288.     9904.    1287.3      9915.     1288.7    9919.     1284.     9927.    1283.5     9956.
GR   1282.6     9975.    1283.5      9985.     1281.8    9992.    1281.7    10000.     1282.    10006.
GR   1282.3    10011.    1282.7     10020.     1294.6   10073.     1297.    10093.    1296.2    10113.
GR   1293.7    10142.    1293.7     10182.     1296.8   10236.    1299.3    10270.    1298.9    10295.
GR    1298.    10340.    1299.8     10364.      1298.   10396.    1301.1    10478.

ET                          4.1     9882.2     10110.
X1   18.269       12.     9942.     10060.       500.     500.       502.
GR   1303.8     9868.    1288.1      9928.     1288.4    9942.    1285.3     9952.    1283.8     9979.
GR   1283.8    10000.    1283.8     10010.     1285.6   10023.    1292.4    10060.     1294.    10071.
GR   1303.2    10130.    1303.7     10144.

ET                          4.1     9895.6    10107.8
X1   18.362       20.     9942.     10060.       490.     510.       491.
GR   1315.5     9728.    1315.4      9758.     1315.8    9780.    1310.6     9807.    1307.1     9862.
GR   1298.6     9905.     1290.      9942.     1287.8    9952.     1288.     9967.    1286.1     9971.
GR   1285.3    10000.    1286.8     10022.     1286.8   10036.    1290.6    10060.    1303.8    10124.
GR   1307.7    10151.    1307.5     10169.     1306.8   10183.    1308.1    10240.    1308.8    10283.

        DOWNSTREAM GOLF CART CROSSING ON A SINGLE 78" CMP WITH PROTRUDING
        ENDS AND EMBANKMENT SLOPES  (NO WINGWALLS).

ET                          4.1      9885.     10110.
X1   18.445       13.     9992.     10005.       470.     460.       440.
X3      10.                                                                          1297.     1297.
GR   1315.1     9796.    1306.2      9880.     1300.    9920.    1299.5     9978.     1290.     9992.
GR   1287.3    10000.     1290.     10005.     1300.   10040.     1302.    10060.     1303.    10097.
GR    1305.    10200.    1305.6     10310.     1309.4   10330.
1
   18APR06      16:00:22                                                                                          PAGE    4

SB     0.9      2.34       3.0         0.       6.11      1.0       33.2        0.    1287.7     1287.4
ET                         4.11      9885.     10110.
X1   18.456                                       60.      60.        60.                0.4
```

ELTRD IS 1198.8+0.7HV = 1199.5

```
X2                          1.     1294.2     1299.5
X3      10.                                                   1298.8     1298.8
BT      10.      9796.    1315.5        0.      9880.    1306.6        0.     9928.     1301.9        0.
BT    9991.      1299.1      0.    10000.     1298.8       0.    10046.    1301.9        0.    10097.
BT  1303.4         0.    10200.     1305.4        0.    10310.     1306.       0.    10330.    1309.8
BT      0.

ET                          4.1     9881.4    10169.8
X1  18.545        21.     9951.    10058.      440.     480.      466.
GR  1324.2      9716.    1323.1     9748.     1324.4    9765.    1321.9    9790.     1318.3     9810.
GR   1317.      9839.    1306.7     9889.     1294.1    9951.    1291.5    9972.     1289.3     9993.
GR  1289.7     10000.    1289.7    10018.     1290.5   10040.    1293.8   10058.     1298.8    10073.
GR  1299.8     10094.    1303.4    10108.     1303.9   10121.     1303.   10135.     1310.1    10182.
GR  1310.2     10194.
```

UPSTREAM GOLF CART CROSSING ON 2 - 72" RCP WITH FLUSH INLETS AND
45 DEGREE WINGWALLS.

```
ET                          4.1     9880.7    10170.8
X1  18.575        21.     9972.    10000.      160.     160.      160.
X3      10.                                                   1297.      1297.
GR  1324.2      9716.    1323.1     9748.     1324.4    9765.    1321.9    9790.     1318.3     9810.
GR   1317.      9839.    1306.7     9889.     1294.1    9951.    1291.5    9972.     1289.3     9993.
GR  1289.7     10000.    1289.7    10018.     1290.5   10040.    1293.8   10058.     1298.8    10073.
GR  1299.8     10094.    1303.4    10108.     1303.9   10121.     1303.   10135.     1310.1    10182.
GR  1310.2     10194.

SB    1.25       1.56       3.0        0.       10.4      1.0      56.5       0.     1289.4    1289.3
ET                         4.11     9876.1    10177.2
X1  18.583                                       40.      40.       40.                 0.1
```

ELTRD IS 1298.4+0.6HV = 1299.0

```
X2                          1.     1295.4      1299.
X3      10.                                                   1298.4     1298.4
BT       9.      9880.    1310.        0.      9965.    1300.        0.    10000.     1298.4        0.
BT   10037.      1300.       0.    10065.     1302.       0.    10085.     1304.        0.    10122.
BT    1306.         0.   10160.     1308.        0.    10170.     1310.       0.

ET                          4.1     9879.6    10134.7
X1  18.640        17.     9955.    10033.      300.     310.      301.
GR  1322.5      9707.    1323.7     9729.     1320.1    9768.    1313.8    9827.     1312.3     9858.
GR  1308.4      9887.    1302.6     9920.     1294.6    9955.    1292.8    9966.     1290.2     9993.
GR  1291.5     10000.    1291.8    10009.     1293.4   10033.    1307.8   10111.      1309.    10132.
GR  1312.1     10153.    1313.2    10167.
```



```
ET                          4.1     9883.2    10111.7
X1  18.734        19.     9938.    10062.      490.     500.      496.
GR  1320.7      9713.    1316.3     9762.     1316.6    9809.    1319.2    9819.     1317.9     9841.
GR  1308.7      9888.    1298.6     9938.     1293.4    9971.    1294.2    9981.     1292.4     9992.
GR  1294.5     10000.    1294.4    10025.     1300.8   10062.     1309.   10094.     1307.6    10104.
GR  1312.9     10124.     1314.    10143.     1317.1   10178.    1319.9   10201.

ET                          4.1     9891.8    10107.
X1  18.832        21.     9929.    10046.      480.     540.      517.
GR  1326.2      9779.    1328.     9788.     1320.6    9826.     1316.    9853.     1312.5     9880.
GR  1302.8      9929.    1296.1     9960.     1293.5    9982.    1293.2   10000.     1293.2    10005.
GR  1294.8     10008.    1295.5    10027.     1297.1   10046.    1307.7   10095.     1314.1    10128.
GR  1314.1     10141.    1317.1    10187.     1320.3   10221.    1319.9   10247.     1318.6    10271.
GR  1319.2     10278.
```

```
ET                                  4.1     9887.7    10087.5
X1   18.925        14.       9941.    10048.       480.       500.       491.
GR   1329.1      9741.     1315.9     9866.    1297.6      9941.    1297.3      9960.     1295.3      9989.
GR    1295.     10000.     1296.1    10006.    1295.4     10022.    1294.6     10025.     1296.3     10034.
GR    1300.     10048.     1310.5    10087.    1320.1     10132.    1321.3     10161.

ET                                  4.1     9866.3    10038.5
X1   19.018        20.       9903.    10030.       460.       520.       491.
GR    1331.      9681.     1321.2     9775.    1313.9      9847.    1305.1      9903.     1298.1      9930.
GR    1298.      9948.     1298.1     9957.    1297.6      9974.     1299.     10000.     1308.4     10030.
GR   1325.3     10088.      1327.    10101.    1325.5     10109.    1330.2     10118.     1330.9     10124.
GR    1327.     10145.     1326.8    10211.    1328.8     10218.    1332.6     10260.     1331.8     10268.

ET                                  4.1     9942.1    10061.9
X1   19.117        10.       9973.    10026.       490.       560.       523.
GR   1333.9      9803.     1331.8     9872.     1323.      9908.    1302.9      9973.     1299.2      9997.
GR   1298.7     10000.     1298.6    10010.    1301.5     10026.    1328.9     10116.      1333.     10144.

ET                                  4.1     9923.1    10081.
X1   19.210        16.       9945.    10060.       500.       490.       491.
GR   1333.2      9669.     1330.6     9853.    1328.7      9874.     1312.      9945.      1310.      9954.
GR   1303.8      9978.     1301.4     9991.    1300.2     10000.    1301.3     10010.     1303.4     10026.
GR    1312.     10060.     1321.3    10098.     1327.     10127.    1332.5     10166.     1335.3     10191.
GR   1335.6     10192.

        19TH AVENUE  (SPECIAL BRIDGE)

NC                                          0.3       0.5
QT       2.     14600.     14600.
X1   19.283        12.       9948.    10057.       390.       390.       386.                   11.2
X3      10.                                                                          1324.     1324.
GR   1333.2      9669.     1330.6     9853.    1328.7      9874.     1312.      9945.     1300.5      9948.
GR   1300.5     10057.      1312.    10060.    1321.3     10098.     1327.     10127.     1332.5     10166.
GR   1335.3     10191.     1335.6    10192.
```



```
SB      0.9      1.56         3.                109.       4.5     1304.         0.     1311.7     1311.7
X1   19.299                                     86.        86.       86.

        ELTRD IS 1324.5+2HV = 1326.5

X2                                  1.    1324.2    1326.5
X3      10.                                                                          1325.     1325.
BT       6.      9500.      1326.       0.     9650.    1324.5        0.     9855.     1325.3        0.
BT   10000.     1325.7         0.    10275.    1324.9        0.    10460.     1326.        0.

ET                             10.41
X1   19.313        20.       9932.    10112.        75.        75.        74.
GR    1329.      9853.     1326.7     9859.    1327.6      9866.    1327.9      9932.     1314.5      9968.
GR   1312.2      9980.     1311.7     9988.    1313.1      9996.    1313.1     10000.     1313.4     10017.
GR    1312.     10029.     1313.7    10044.    1311.7     10054.    1313.7     10069.     1325.5     10112.
GR   1325.4     10137.     1324.3    10180.    1324.9     10219.    1325.2     10325.     1326.6     10464.

NC                                     0.1       0.3
X1   19.418        19.       9948.    10120.       570.       530.       554.
GR   1330.8      9898.     1328.8     9902.    1330.6      9910.    1330.2      9938.      1328.      9948.
GR   1313.1      9992.     1313.1    10000.     1313.     10004.    1316.1     10022.     1314.6     10058.
GR   1315.5     10076.     1320.1    10094.    1326.1     10120.    1327.6     10138.     1327.5     10186.
GR   1326.2     10276.      1327.    10322.    1328.3     10376.    1328.6     10401.
```

SECTION 19.56 IS JUST DOWNSTREAM OF THE CONFLUENCE WITH THE EAST FORK. THIS SECTION IS USED TO BEGIN THE TRIBUTARY RUN FOR THE

EAST FORK OF CAVE CREEK. THE CONFLUENCE OCCURS AT RM 19.608

```
X1    19.56       17.      9929.     10065.       730.       720.       729.
GR   1346.1     9801.     1329.7      9902.     1329.7      9929.     1316.5      9950.     1316.8      9978.
GR   1315.6    10000.     1315.6     10008.     1316.6     10026.     1316.4     10035.     1317.5     10043.
GR   1330.6    10065.     1330.8     10099.     1330.5     10146.     1330.2     10195.     1330.9     10208.
GR   1331.2    10223.     1332.1     10301.
```

GREENWAY BRIDGE (SPECIAL BRIDGE). LARGE SKEW ACCOUNTED FOR PRIOR TO DATA INPUT BY ADJUSTING BWC ETC. DUE TO COMPLEX CHANNEL GEOMETRY DOWNSTREAM AT THE CONFLUENCE WITH THE EAST FORK, IT WAS MOST APPROPRIATE TO USE THE UPSTREAM SECTION, REPEATED AT THE DOWNSTREAM FACE. GR CARDS FROM SECTION 19.742 ARE REPEATED FOR 19.625 WITH PSXECE = -1.7

```
QT       2.      5700.      5700.
NC   0.035      0.035      0.015       0.3       0.5
X1   19.625        11.      9965.     10025.       580.        70.       364.                  -1.7
X3      10.                                                                          1332.     1332.
GR   1335.7     9834.     1335.1      9893.     1333.4      9922.     1331.8      9937.     1331.6      9948.
GR   1319.3     9965.     1319.3     10025.      1331.     10042.     1339.2     10055.     1337.7     10060.
GR   1338.8    10100.
```

1


```
SB    1.05      1.56         3.       100.        60.         2.       564.         0.     1318.6     1317.6
X1   19.691                                     330.       430.       350.                     1.0
```

ELTRD IS 1332.8+2HV = 1334.8

```
X2                           1.     1328.3     1334.8
X3      10.                                                                          1333.     1333.

ET                           4.1     9953.     10038.
X1   19.742       13.      9948.     10042.        80.       470.       269.
GR   1335.7     9834.     1335.1      9893.     1333.4      9922.     1331.8      9937.     1331.6      9948.
GR   1319.1     9967.     1319.2     10000.     1319.7     10017.     1319.7     10027.      1331.     10042.
GR   1339.2    10055.     1337.7     10060.     1338.8     10100.

NC   0.035     0.035      0.035       0.1       0.3
ET                           4.1      9957.     10043.
X1   19.847       22.      9929.     10062.       570.       520.       554.
GR   1339.8     9621.     1338.7      9726.     1341.6      9738.     1338.8      9759.      1339.      9806.
GR   1337.7     9915.     1336.1      9921.     1336.3      9929.     1320.2      9974.     1318.8      9989.
GR   1320.8    10000.     1320.5     10017.     1321.3     10023.     1328.8     10040.     1335.8     10062.
GR   1336.1    10070.     1336.6     10084.     1335.8     10150.      1336.     10160.     1338.3     10175.
GR   1339.2    10195.     1339.2     10198.

ET                           4.1      9958.     10031.
X1   19.960       24.      9958.     10031.       640.       560.       597.
GR   1340.4     9544.     1339.1      9638.     1336.7      9736.     1337.2      9768.     1338.2      9807.
GR   1338.9     9836.     1338.4      9908.     1340.1      9911.     1337.7      9917.     1339.1      9924.
GR   1337.2     9935.      1330.      9958.     1327.8      9964.     1326.1      9977.     1324.6      9990.
GR   1324.7    10000.     1326.1     10008.     1326.8     10023.      1330.     10031.     1340.6     10059.
GR   1340.8    10072.     1340.7     10099.     1340.1     10194.     1339.9     10251.
```

TIERRA BUENA (SPECIAL BRIDGE)

DUE TO HIGHER DEPTHS THAN ANTICIPATED, XNCH HAS BEEN REDUCED FROM 0.04 (PER MANNINGS n VALUE REPORT) TO 0.035 BETWEEN GREENWAY ROAD AND UNION HILLS DRIVE

```
NC      0.[illegible]     0.04      0.035       0.3       0.5
ET                         4.1      9969.     10020.
X1   19.974       10.     9969.     10020.       105.       65.       74.
X3      10.                                                        1336.     1336.
GR   1340.1     9911.    1337.7      9917.    1339.1     9924.    1337.2     9935.     1330.     9958.
GR   1323.8     9969.    1323.8     10020.     1330.    10031.    1340.6    10059.    1340.8    10072.

SB     1.25     1.56        3.                   51.        3.       480.        0.    1324.1    1323.8
ET                         4.11      9969.    10020.
X1   19.986                                      61.       61.        61.

        ELTRD IS 1336.9+1HV = 1337.9

X2                          1.     1334.1    1337.9
1
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X3      10.                                                        1337.     1337.
BT       3.     9560.     1340.        0.    10000.    1336.9        0.    10230.     1340.        0.

ET                         4.1      9975.    10025.
X1   20.049       37.     9954.     10027.       305.      345.      333.
X3      10.                                                        1340.
GR   1344.7     9266.    1345.2      9300.    1342.4     9304.    1340.8     9328.     1332.6     9344.
GR   1333.1     9400.    1333.3      9490.     1334.     9563.    1334.8     9606.     1333.2     9728.
GR    1335.     9767.    1331.4      9805.     1331.     9820.    1331.5     9854.     1331.5     9901.
GR   1332.1     9920.    1341.1      9938.    1340.5     9950.    1343.4     9954.     1339.8     9969.
GR   1327.4     9991.    1327.1      9997.    1327.1    10000.    1328.4    10008.     1339.4    10027.
GR    1340.    10047.    1342.3     10075.    1342.4    10097.    1340.2    10114.     1342.3    10131.
GR    1343.    10142.    1341.5     10162.    1342.7    10175.    1342.9    10210.     1343.3    10307.
GR   1342.5    10378.     1343.     10477.

NC                                     0.1       0.3
ET                         4.1      9972.    10029.
X1   20.144       38.     9955.     10025.       490.      500.      502.
X3      10.                                                        1344.
GR   1346.6     9136.    1347.4      9206.    1348.2     9208.    1348.4     9215.     1347.1     9235.
GR   1342.5     9239.    1341.7      9258.    1334.6     9278.     1332.     9297.     1332.6     9357.
GR   1333.7     9417.    1333.1      9457.    1334.1     9479.    1334.9     9499.     1335.3     9554.
GR   1334.4     9582.    1335.7      9631.    1335.6     9698.    1336.1     9745.     1334.6     9779.
GR   1329.6     9788.    1330.5      9820.    1329.4     9847.    1328.5     9881.     1328.5     9912.
GR   1341.6     9931.    1343.1      9951.    1344.6     9955.     1342.     9968.     1330.9     9986.
GR   1330.9    10000.    1330.9     10010.    1340.8    10025.    1342.2    10040.     1345.9    10053.
GR   1346.5    10073.     1347.     10128.     1347.    10198.

ET                         4.1      9964.    10035.
X1   20.242       32.     9953.     10029.       470.      560.      517.
X3      10.                                                        1348.
GR   1346.6     9200.    1347.9      9269.    1348.7     9271.    1348.7     9277.     1346.6     9330.
GR   1347.7     9377.    1342.3      9383.    1342.7     9400.    1332.4     9422.     1333.6     9470.
GR   1333.7     9529.    1334.9      9573.    1334.2     9626.    1334.9     9648.     1335.1     9651.
GR    1336.     9785.     1336.      9842.    1338.6     9846.    1339.3     9895.     1339.2     9935.
GR   1347.2     9953.    1343.7      9970.    1333.3     9988.    1333.7    10000.     1333.5    10012.
GR   1342.8    10029.    1343.2     10041.    1348.3    10061.    1349.2    10076.     1349.9    10107.
GR   1350.1    10201.    1350.3     10202.

ET                         4.1      9963.    10036.
X1   20.335       27.     9958.     10032.       510.      470.      491.
GR   1349.5     9230.    1351.4      9312.    1349.1     9322.    1350.7     9340.      1351.     9476.
GR   1351.2     9592.    1350.4      9726.    1350.1     9808.    1351.1     9820.     1351.4     9850.
GR   1351.8     9928.    1347.7      9950.     1344.     9958.    1337.7     9971.     1337.3     9987.
GR   1337.4    10000.    1338.3     10021.     1344.    10032.     1349.    10042.     1351.8    10056.
GR   1351.1    10100.    1351.6     10141.     1350.    10144.     1350.    10166.      1350.    10240.
GR   1350.8    10328.    1351.4     10406.

        11TH AVENUE  (SPECIAL BRIDGE)
```

```
NC                                    0.3       0.5
X1   20.347      25.     9970.    10021.        1.      150.       63.
X3      10.                                                     1351.5    1351.5
GR   1349.5    9230.    1351.4     9312.    1349.1     9322.    1350.7     9340.     1351.     9476.
GR   1351.2    9592.    1350.4     9726.    1350.1     9808.    1351.1     9820.    1351.4     9850.
GR   1351.8    9928.    1347.7     9950.     1344.     9958.    1337.2     9970.    1337.2    10021.
GR    1344.   10032.     1349.    10042.    1351.8    10056.    1351.1    10100.    1351.6    10141.
GR    1350.   10144.     1350.    10166.     1350.    10240.    1350.8    10328.    1351.4    10406.

SB     1.25     1.56       3.0      100.       51.        3.      576.        0.    1337.7    1337.2
X1   20.366                                  100.      100.      100.

        ELTRD IS 1352.5+2HV = 1354.5

X2                          1.    1349.7    1354.5
X3      10.                                                     1352.5    1352.5

ET                          4.1     9958.    10072.
X1   20.423      21.     9975.    10045.     415.      205.      301.
GR   1354.3    9418.    1353.8     9613.    1355.3     9653.    1354.6     9696.    1353.3     9711.
GR   1353.6    9724.    1353.5     9931.     1352.     9950.     1345.     9975.     1338.    10000.
GR   1339.4   10027.    1339.7    10037.    1344.3    10045.     1345.    10055.    1353.3    10085.
GR   1353.5   10100.    1354.7    10127.    1354.4    10214.    1354.3    10273.    1353.3    10300.
GR   1353.5   10333.

        10TH AVENUE  (SPECIAL BRIDGE)

X1   20.430      20.     9985.    10036.        1.       65.       37.
X3      10.                                                     1352.5    1352.5
GR   1354.3    9418.    1353.8     9613.    1355.3     9653.    1354.6     9696.    1353.3     9711.
GR   1353.6    9724.    1353.5     9931.     1352.     9950.     1345.     9975.    1339.3     9985.
GR   1339.3   10036.    1344.3    10045.     1345.    10055.    1353.3    10085.    1353.5    10100.
GR   1354.7   10127.    1354.4    10214.    1354.3    10273.    1353.3    10300.    1353.5    10333.

SB     1.25     1.56       3.0      100.       51.        3.      576.        0.    1339.3    1339.3
X1   20.444                                   70.       70.       70.

        ELTRD IS 1353.5+2HV = 1355.5

X2                          1.    1351.3    1355.5
X3      10.                                                     1353.5    1353.5

ET                          4.1     9930.    10069.
X1   20.529      19.     9947.    10055.     545.      375.      449.
GR    1354.    9570.    1353.7     9764.    1354.8     9836.     1355.     9885.    1354.7     9898.
GR   1350.7    9910.    1350.2     9947.    1343.4     9963.    1343.4     9990.    1343.3    10000.
GR    1343.   10025.    1348.6    10041.    1350.4    10055.    1350.8    10090.     1355.    10105.
GR   1354.4   10159.     1355.    10192.     1355.    10302.    1355.2    10313.
```



```
NC                                    0.1       0.3
ET                          4.1     9935.    10065.
X1   20.628      16.     9909.    10076.     530.      520.      523.
GR   1357.3    9532.    1357.3     9624.    1356.8     9754.    1357.2     9808.    1357.1     9909.
GR   1351.5    9922.    1350.2     9947.    1343.3     9959.    1343.6     9991.    1343.6    10000.
GR   1343.7   10044.    1356.3    10076.     1357.    10082.    1357.1    10137.    1357.2    10282.
GR    1358.   10337.
```

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ET                                4.1      9962.     10026.
X1   20.725       20.      9951.    10036.       510.      520.       512.
GR   1360.3     9544.    1361.1     9631.    1361.3     9734.      1361.     9783.     1362.     9858.
GR   1360.8     9940.    1360.4     9951.    1350.4     9970.    1350.4     9981.    1348.3     9984.
GR   1347.4     9992.    1347.2    10000.    1347.4    10010.      1361.    10036.    1363.4    10046.
GR   1363.8    10101.    1364.1    10156.    1364.7    10184.    1365.1     10212.    1364.7    10291.

        PHELPS ROAD  (SPECIAL BRIDGE)

NC                                     0.3       0.5
X1   20.737       16.      9968.    10019.       80.       80.       80.                  3.4
X3      10.                                                                   1363.     1363.
GR   1360.3     9544.    1361.1     9631.    1361.3     9734.      1361.     9783.     1362.     9858.
GR   1360.8     9940.    1360.4     9951.    1347.5     9968.    1347.5    10019.      1361.    10036.
GR   1363.4    10046.    1363.8    10101.    1364.1    10156.    1364.7    10184.    1365.1    10212.
GR   1364.7    10291.

SB     1.25     1.56        3.0      100.       51.        3.       576.        0.    1351.0    1350.9
X1   20.750                                     71.       71.        71.                  0.1

        ELTRD IS 1364+2HV = 1366.0

X2                                1.     1363.     1366.
X3      10.                                                                   1364.     1364.

        BELL ROAD  (SPECIAL BRIDGE)  A SECTION TAKEN UPSTREAM OF BELL ROAD AT
        RM 20.845 IS USED TO MODEL THE BELL ROAD BRIDGE.  GR CARDS ARE REPEATED
        AT THE DOWNSTREAM FACE WITH PSXECE = -0.9.  TO MORE APPROPRIATELY MODEL
        CONTRACTION LOSSES, THE UPSTREAM SECTION IS PRESENTED AT RM 20.860
        INSTEAD OF RM 20.845 WHERE THE AERIAL SECTION WAS TAKEN.

X1   20.819       12.      9965.    10043.      375.      345.       365.                 -0.9
X3      10.                                                                   1366.9    1366.9
GR   1366.5     9554.    1365.4     9663.    1365.5     9777.    1365.5     9846.    1365.3     9942.
GR   1357.4     9965.    1357.4    10043.    1367.6    10066.    1366.2    10107.    1366.2    10146.
GR    1367.    10166.    1367.2    10169.

SB     1.05     1.56        3.0      100.       77.3       3.3       655.        0.    1357.4    1356.5
X1   20.841                                    115.      115.       115.                  0.9

        ELTRD IS 1367.9+2HV = 1369.9

X2                                1.     1365.4     1369.9
1
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X3      10.                                                                   1367.9    1367.9

ET                                4.1      9904.     10060.
X1   20.860       14.      9942.    10066.       90.      110.       100.
X3      10.                                                                   1365.3    1367.6
GR    1370.     9800.    1365.5     9801.    1365.5     9846.    1365.3     9942.    1357.8     9975.
GR   1356.3     9991.    1356.4    10000.    1357.2    10015.      1357.    10040.    1367.6    10066.
GR   1366.2    10107.    1366.2    10146.     1367.    10166.    1367.2    10169.

NC     0.04    0.035       0.035       0.1       0.3
ET                                4.1      9860.     10110.
X1   20.942       26.      9854.    10024.      530.      490.       433.
GR   1372.5     9619.    1367.2     9630.    1368.7     9643.    1369.8     9663.    1369.4     9719.
GR   1367.6     9792.    1367.6     9836.    1368.6     9854.    1360.2     9867.    1359.8     9879.
GR   1359.8     9891.    1364.6     9904.    1365.2     9942.    1363.7     9970.      1366.     9977.
GR   1360.3     9998.    1359.6    10000.    1366.5    10024.    1364.7    10027.    1364.5    10053.
GR   1365.7    10070.    1364.5    10114.    1361.6    10153.    1368.3    10171.    1368.3    10194.
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```
GR   1368.3     10204.

NC     0.04      0.04     0.035
ET                          4.1      9810.     10060.
X1    21.036       19.     9912.     10020.       490.       490.       496.
GR    1376.1     9530.     1372.      9541.      1372.      9561.     1371.3      9665.     1371.9      9728.
GR    1371.6     9758.    1370.9      9867.    1370.7      9912.     1367.3      9917.     1367.5      9952.
GR    1366.3     9980.    1363.5      9994.    1363.6     10000.     1364.3     10009.     1370.4     10020.
GR    1371.2    10041.    1371.2     10075.    1371.8     10089.      1378.     10090.

ET                          4.1      9900.     10060.
X1    21.127       13.     9974.     10067.       400.       500.       480.
X3       10.                                                                     1374.
GR    1378.9     9623.    1373.6      9634.    1373.6      9666.     1373.4      9759.     1373.5      9860.
GR    1373.7     9913.    1374.2      9974.    1366.9      9990.     1366.7     10000.     1367.5     10015.
GR    1367.8    10039.     1375.     10067.     1375.     10077.

ET                          4.1      9900.     10125.
X1    21.230       28.     9967.     10048.       560.       500.       544.
GR    1381.5     9741.    1381.5      9764.    1381.5      9786.     1380.7      9813.     1379.3      9835.
GR    1379.3     9852.    1379.9      9862.    1378.2      9870.     1379.8      9879.     1378.9      9891.
GR    1379.5     9916.    1379.6      9930.    1378.9      9944.     1379.2      9955.     1379.3      9967.
GR    1374.7     9982.    1372.4      9992.     1372.     10000.     1373.2     10014.     1375.6     10023.
GR    1379.3    10037.    1380.6     10048.     1378.     10062.     1377.5     10083.     1377.4     10102.
GR    1377.7    10117.    1377.8     10126.     1385.     10127.

ET                          4.1      9930.     10130.
X1    21.363       55.     9928.     10088.       740.       700.       702.
GR    1384.8     9135.    1384.7      9160.    1383.9      9189.     1384.6      9215.     1383.9      9245.
GR    1384.4     9279.    1383.8      9313.     1384.      9345.     1384.1      9374.     1383.8      9405.
GR    1383.5     9428.    1384.5      9459.     1385.      9498.     1384.7      9527.      1385.      9549.
GR    1382.2     9561.     1381.      9570.    1382.1      9583.     1383.9      9596.     1384.3      9628.
GR    1384.3     9657.     1384.      9697.    1383.6      9739.     1384.1      9779.     1383.9      9811.
GR    1383.1     9822.    1383.6      9848.    1383.3      9886.     1383.5      9907.     1384.1      9916.
GR    1383.2     9922.    1384.4      9928.    1383.6      9939.     1379.2      9954.     1377.7      9977.
GR     1375.     9996.    1374.8     10000.     1375.     10016.     1374.2     10037.     1374.1     10045.
GR    1377.5    10066.    1382.1     10088.    1383.8     10108.      1384.     10125.     1384.5     10147.
1
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GR    1382.7    10174.    1383.2     10202.    1383.1     10224.     1383.1     10245.     1383.3     10265.
GR    1384.3    10285.    1383.4     10301.     1383.     10319.      1383.     10334.      1383.     10337.

ET                          4.1      9852.     10077.
X1    21.484       33.     9932.     10026.       650.       520.       639.
GR    1386.8     9487.    1385.8      9527.    1385.8      9572.     1385.4      9614.     1384.8      9647.
GR    1385.2     9678.    1385.6      9709.    1386.7      9746.     1385.9      9776.     1384.5      9805.
GR    1383.9     9837.    1384.4      9867.     1384.      9892.     1386.5      9919.     1386.9      9932.
GR    1386.2     9943.    1383.5      9964.    1380.2      9970.     1379.7      9988.     1378.5      9994.
GR    1378.6    10000.    1381.2     10014.    1386.5     10026.     1386.6     10053.     1387.8     10056.
GR    1385.5    10060.    1388.2     10068.    1385.8     10075.     1387.4     10079.     1387.4     10101.
GR    1387.6    10116.    1387.5     10131.    1387.4     10134.

ET                          4.1      9940.     10165.
X1    21.576       43.     9980.     10087.       320.       480.       486.
GR    1388.7     9388.    1388.6      9414.    1388.2      9461.     1388.5      9500.     1389.3      9532.
GR    1388.7     9570.    1388.5      9607.    1387.9      9643.     1388.6      9664.     1388.8      9705.
GR    1389.1     9743.    1388.9      9780.     1388.      9821.     1388.4      9852.     1388.7      9889.
GR    1389.1     9922.    1389.7      9952.    1390.1      9968.      1390.      9980.     1382.5      9994.
GR    1382.1    10000.    1382.2     10008.    1383.8     10015.     1385.1     10038.     1385.2     10056.
GR    1384.1    10065.    1384.6     10073.    1388.3     10087.     1387.1     10114.     1387.1     10140.
GR    1387.8    10162.    1387.7     10199.    1388.4     10243.     1388.7     10281.     1389.3     10300.
GR    1390.3    10307.    1389.2     10313.    1390.7     10320.     1387.6     10329.     1388.9     10335.
GR    1389.7    10348.    1390.2     10360.    1390.3     10386.

QT       2.     5500.     5500.
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ET                          4.1      9890.     10115.
X1   21.669        35.     9962.     10031.       440.       470.       491.
GR   1393.2      9392.     1393.      9426.    1392.7      9446.    1392.3      9515.    1392.9      9562.
GR   1392.2      9606.    1392.8      9663.    1392.7      9710.    1393.1      9742.    1393.5      9777.
GR   1393.3      9819.    1392.7      9858.    1392.2      9893.    1391.6      9925.     1392.      9949.
GR   1393.8      9962.    1392.7      9974.    1392.2      9982.     1385.      9989.     1384.      9997.
GR   1384.5     10000.    1385.1     10011.    1388.7     10023.     1392.     10031.    1391.2     10045.
GR    1392.     10074.    1391.7     10124.    1391.9     10182.     1392.     10245.    1392.1     10303.
GR   1391.9     10361.     1392.     10395.    1392.6     10401.    1391.6     10404.    1393.3     10414.

ET                          4.1      9940.     10140.
X1   21.742        25.     9975.     10091.       430.       390.       385.
GR    1396.      9733.    1394.6      9753.    1395.1      9777.     1395.      9802.     1395.      9839.
GR   1395.6      9885.    1395.1      9930.    1395.3      9940.    1394.7      9975.    1387.4      9991.
GR   1386.4     10000.    1386.9     10015.    1392.2     10035.    1391.9     10052.    1389.9     10062.
GR   1391.5     10080.    1394.2     10091.    1394.2     10126.    1394.9     10176.     1395.     10240.
GR   1394.6     10281.    1394.8     10324.    1395.2     10355.    1395.3     10367.    1397.3     10376.

ET                          4.1      9900.     10100.
X1   21.840        22.     9946.     10054.       430.       430.       517.
GR   1401.5      9827.    1402.1      9842.    1397.3      9860.    1395.5      9882.     1395.      9913.
GR   1395.3      9931.    1396.2      9946.    1395.7      9953.    1392.1      9967.    1392.6      9984.
GR   1393.7      9997.    1393.3     10000.    1392.5     10020.    1391.1     10033.    1393.5     10045.
GR    1397.     10054.    1396.5     10097.    1397.3     10145.    1397.8     10186.    1397.5     10227.
GR   1397.6     10273.    1398.3     10308.
1
   18APR06      16:00:22                                                                                PAGE   13

ET                          4.1      9830.     10080.
X1   21.895        31.     9975.     10031.       330.       220.       290.
GR   1402.6      9807.    1402.6      9825.    1398.4      9839.    1397.2      9857.    1396.7      9885.
GR   1396.7      9919.    1397.7      9939.    1397.9      9960.     1398.      9975.    1397.1      9981.
GR    1393.      9990.    1391.9     10000.    1392.3     10010.     1394.     10021.    1397.7     10031.
GR   1398.6     10046.     1399.     10078.    1398.4     10113.    1398.6     10149.    1398.7     10187.
GR   1398.5     10225.    1398.1     10251.    1398.6     10292.    1398.6     10333.    1399.3     10364.
GR   1398.8     10399.    1399.5     10428.    1400.5     10446.    1400.5     10458.    1399.7     10463.
GR   1400.9     10470.
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UNION HILLS RD: PIPES BENEATH LOW CROSSING WERE MODELLED AS AN AREA (BAREA) WITH AN ORIFICE COEFFICIENT. THE 100 YEAR FLOW THROUGH THE PIPES WAS NEGLIGIBLE (18 CFS). UNION HILLS IS THEREFORE MORE APPROPRIATELY MODELLED AS A NORMAL SECTION USING GR CARDS.

```
ET                          4.1      9650.     10070.
X1   21.933        12.     9865.     10140.       210.       210.       210.
GR    1402.      9060.    1400.3      9440.     1400.      9590.     1398.      9680.    1397.4      9725.
GR    1398.      9780.    1399.4      9840.     1398.      9865.    1396.8     10000.     1398.     10140.
GR    1400.     10285.     1406.     10286.

NC    0.045      0.045     0.045
ET                          4.1      9630.     10051.
X1   21.953        39.     9969.     10029.        75.        75.        74.
GR    1402.      9320.    1400.5      9487.    1400.8      9527.    1401.4      9557.    1400.2      9580.
GR   1401.7      9599.    1401.1      9621.    1400.2      9647.    1399.6      9678.    1398.8      9699.
GR   1398.3      9714.    1397.6      9720.    1396.6      9725.    1398.8      9735.    1399.3      9745.
GR   1398.8      9759.    1397.3      9768.    1398.9      9782.    1398.9      9810.    1400.1      9832.
GR   1402.1      9851.    1401.7      9870.    1403.3      9884.    1403.7      9893.    1403.4      9912.
GR   1402.3      9939.     1401.      9956.    1399.7      9965.    1400.2      9969.    1395.6      9986.
GR   1394.4      9997.    1394.1     10000.     1394.     10010.    1394.9     10018.    1398.3     10029.
GR   1400.1     10044.    1401.6     10058.    1401.4     10064.     1407.     10065.

ET                          4.1      9620.     10030.
X1   22.065        39.     9961.     10028.       430.       630.       591.
GR   1404.2      9230.     1404.      9250.     1402.      9270.     1402.      9500.    1403.1      9594.
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GR	1403.6	9604.	1400.4	9627.	1400.1	9645.	1400.6	9657.	1400.3	9680.
GR	1400.5	9700.	1401.9	9717.	1403.3	9731.	1403.7	9746.	1403.9	9761.
GR	1400.1	9776.	1400.	9785.	1401.1	9796.	1401.	9816.	1403.7	9829.
GR	1403.7	9843.	1400.7	9861.	1399.7	9869.	1402.7	9890.	1403.5	9899.
GR	1404.1	9915.	1404.8	9934.	1403.6	9950.	1404.1	9961.	1401.4	9977.
GR	1398.	9989.	1395.8	9995.	1395.8	10000.	1395.9	10006.	1399.4	10010.
GR	1402.	10028.	1402.6	10043.	1406.6	10061.	1407.1	10085.		
ET			4.1	9620.	10020.					
X1	22.165	63.	9983.	10018.	530.	530.	528.			
GR	1406.	9130.	1405.2	9138.	1405.	9151.	1404.4	9164.	1402.8	9176.
GR	1402.7	9184.	1400.8	9204.	1399.8	9213.	1399.3	9222.	1401.2	9232.
GR	1403.	9256.	1403.8	9282.	1403.8	9308.	1404.3	9334.	1404.2	9364.
GR	1404.1	9396.	1404.	9425.	1404.9	9463.	1405.2	9499.	1405.3	9526.
GR	1404.9	9548.	1403.8	9565.	1402.8	9579.	1404.6	9595.	1404.8	9608.
GR	1402.4	9624.	1400.	9637.	1399.7	9645.	1400.6	9657.	1402.	9669.

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GR	1403.1	9686.	1404.5	9701.	1405.8	9714.	1406.2	9728.	1406.1	9741.
GR	1404.	9753.	1403.8	9760.	1405.2	9772.	1405.6	9784.	1405.3	9793.
GR	1402.9	9806.	1402.7	9820.	1402.6	9834.	1402.6	9843.	1401.8	9849.
GR	1401.9	9862.	1402.8	9872.	1403.8	9876.	1405.	9894.	1406.1	9909.
GR	1405.4	9919.	1403.1	9930.	1403.	9946.	1402.1	9967.	1400.9	9983.
GR	1395.3	9994.	1395.	10000.	1396.1	10007.	1403.7	10018.	1404.8	10038.
GR	1405.2	10053.	1405.2	10060.	1405.7	10065.				
ET			4.1	9650.	10027.					
X1	22.273	57.	9933.	10028.	470.	580.	570.			
GR	1418.7	9227.	1418.7	9238.	1412.4	9262.	1411.6	9274.	1410.9	9284.
GR	1409.	9292.	1407.6	9300.	1407.3	9314.	1406.3	9325.	1403.5	9335.
GR	1403.1	9344.	1403.	9350.	1404.3	9359.	1405.4	9369.	1405.8	9386.
GR	1406.7	9408.	1407.1	9427.	1407.4	9444.	1407.2	9460.	1406.4	9473.
GR	1406.5	9485.	1406.9	9502.	1407.7	9520.	1408.2	9532.	1407.1	9558.
GR	1404.4	9574.	1404.3	9598.	1406.	9622.	1407.	9657.	1407.3	9686.
GR	1406.2	9708.	1406.4	9727.	1406.4	9745.	1405.6	9754.	1402.6	9766.
GR	1402.8	9774.	1406.7	9789.	1409.4	9801.	1408.5	9827.	1407.9	9851.
GR	1408.8	9869.	1406.3	9887.	1407.	9902.	1404.	9915.	1404.1	9933.
GR	1403.2	9948.	1401.8	9961.	1400.6	9977.	1400.1	9992.	1399.4	9999.
GR	1399.8	10000.	1401.2	10011.	1404.	10021.	1406.9	10028.	1408.	10050.
GR	1408.3	10080.	1408.7	10109.						
ET			4.1	9860.	10040.					
X1	22.410	25.	9973.	10027.	750.	630.	723.			
GR	1420.	9802.	1419.1	9817.	1418.8	9825.	1415.8	9838.	1414.8	9850.
GR	1412.6	9867.	1413.9	9879.	1412.	9890.	1413.4	9903.	1414.5	9914.
GR	1416.1	9922.	1414.	9931.	1412.4	9941.	1411.4	9954.	1411.2	9967.
GR	1410.7	9973.	1405.7	9987.	1404.9	9997.	1404.	10000.	1404.7	10007.
GR	1407.6	10017.	1411.3	10027.	1413.5	10042.	1413.8	10057.	1414.4	10071.
ET			4.1	9890.	10050.					
X1	22.483	19.	9941.	10105.	380.	390.	385.			
GR	1421.	9823.	1420.2	9843.	1416.7	9873.	1414.4	9891.	1413.1	9915.
GR	1411.1	9941.	1407.8	9961.	1406.2	9984.	1405.5	10000.	1405.5	10027.
GR	1406.4	10056.	1408.3	10084.	1411.2	10105.	1412.3	10120.	1412.6	10138.
GR	1412.6	10156.	1411.9	10175.	1412.7	10191.	1419.8	10208.		
ET			4.1	9925.	10055.					
X1	22.500	24.	9650.	10090.	110.	95.	103.			
X3				9775.						
GR	1423.5	9020.0	1416.0	9050.	1414.0	9350.	1412.0	9390.	1410.0	9400.0
GR	1412.0	9410.	1414.0	9465.	1414.0	9570.	1416.	9610.	1418.	9650.
GR	1416.0	9710.	1414.0	9775.	1414.0	9900.	1416.	9905.	1416.	9930.
GR	1414.0	9950.	1406.	9975.	1405.8	10000.	1406.	10030.	1408.	10080.
GR	1412.0	10090.	1414.	10235.	1416.0	10255.	1420.	10270.		

ET			4.1	9968.	10064.					
X1	22.578	13.	9968.	10072.	415.	395.	400.			
GR	1417.2	9914.	1417.6	9942.	1416.4	9958.	1416.6	9968.	1406.7	9983.
GR	1406.7	9993.	1407.5	10000.	1408.5	10024.	1408.5	10040.	1408.8	10050.
GR	1415.6	10063.	1421.2	10072.	1421.4	10090.				

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ET			4.1	9830.	10028.					
X1	22.675	19.	9736.	10032.	570.	480.	512.			
GR	1419.9	9671.	1419.9	9710.	1419.8	9736.	1410.6	9759.	1411.1	9783.
GR	1410.6	9809.	1409.7	9828.	1410.8	9850.	1411.5	9873.	1413.4	9892.
GR	1412.2	9922.	1411.	9950.	1411.	9976.	1410.7	10000.	1410.6	10015.
GR	1420.	10032.	1428.3	10047.	1426.6	10055.	1426.	10060.		
ET			4.1	9977.	10160.					
X1	22.794	20.	9983.	10169.	460.	500.	628.			
GR	1420.6	9968.	1417.8	9983.	1413.6	9998.	1412.4	10000.	1412.3	10013.
GR	1410.7	10041.	1411.6	10065.	1413.7	10080.	1413.8	10103.	1414.2	10119.
GR	1411.7	10136.	1413.8	10151.	1416.1	10169.	1417.2	10189.	1420.3	10202.
GR	1423.1	10219.	1427.	10244.	1429.9	10261.	1429.8	10278.	1429.8	10282.
ET			4.1	9951.	10120.					
X1	22.880	34.	9927.	10167.	440.	480.	454.			
GR	1427.3	9791.	1427.	9807.	1426.5	9815.	1424.8	9827.	1424.6	9838.
GR	1424.8	9863.	1424.8	9883.	1424.5	9903.	1424.7	9917.	1426.4	9927.
GR	1423.9	9934.	1421.4	9947.	1418.5	9958.	1416.1	9968.	1415.	9984.
GR	1414.	9999.	1414.3	10000.	1414.5	10012.	1415.2	10024.	1416.1	10048.
GR	1416.5	10067.	1416.4	10101.	1416.2	10125.	1415.5	10143.	1413.2	10152.
GR	1413.	10156.	1414.8	10160.	1424.2	10167.	1426.6	10188.	1428.4	10200.
GR	1430.9	10214.	1433.5	10230.	1433.8	10241.	1433.5	10248.		
ET			4.1	9890.	10026.					
X1	22.990	35.	9739.	10034.	480.	530.	581.			
GR	1427.7	9668.	1427.6	9697.	1425.6	9719.	1425.3	9730.	1425.4	9739.
GR	1423.9	9751.	1422.5	9767.	1422.4	9785.	1421.5	9804.	1421.3	9817.
GR	1421.3	9829.	1420.8	9843.	1419.5	9855.	1418.9	9864.	1417.9	9873.
GR	1419.4	9886.	1420.	9903.	1420.6	9921.	1420.8	9935.	1420.3	9949.
GR	1420.	9963.	1419.1	9977.	1419.1	9995.	1419.1	10000.	1418.7	10014.
GR	1420.3	10020.	1427.9	10034.	1427.3	10044.	1428.3	10060.	1430.5	10076.
GR	1435.7	10094.	1437.4	10108.	1438.7	10119.	1436.3	10126.	1435.1	10133.
ET			4.1	9958.	10090.					
X1	23.097	48.	9951.	10121.	640.	490.	565.			
GR	1433.9	9713.	1433.9	9740.	1433.8	9758.	1432.3	9772.	1432.1	9778.
GR	1433.5	9794.	1433.5	9811.	1433.5	9835.	1433.4	9849.	1431.1	9864.
GR	1430.	9878.	1430.1	9885.	1431.	9892.	1429.6	9901.	1429.1	9916.
GR	1429.6	9925.	1431.3	9935.	1432.2	9945.	1432.3	9951.	1427.9	9964.
GR	1426.4	9977.	1425.6	9988.	1425.1	9999.	1425.1	10000.	1426.	10012.
GR	1426.1	10021.	1426.5	10044.	1426.5	10063.	1426.5	10073.	1426.5	10082.
GR	1425.5	10093.	1426.4	10101.	1428.5	10112.	1430.8	10121.	1430.1	10135.
GR	1430.	10150.	1431.6	10163.	1432.8	10176.	1433.	10198.	1432.7	10221.
GR	1431.6	10247.	1430.9	10267.	1430.6	10286.	1431.5	10296.	1433.4	10310.
GR	1438.3	10337.	1439.7	10353.	1440.5	10363.				

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

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*PROF 1
0

CCHV=      .100 CEHV=      .300
*SECNO 17.588
    17.588      14.09   1283.69       .00   1283.69   1284.02       .33       .00       .00   1278.10
   15400.0     3410.6   11671.0     318.3    1017.0    2337.7     133.8        .0        .0   1276.40
       .00       3.35      4.99      2.38      .040      .040      .040      .000   1269.60   9777.93
   .000750       440.      496.      560.         0         0         0       .00    451.78  10229.71

FLOW DISTRIBUTION FOR SECNO=     17.59          CWSEL=   1283.69

STA=    9778.    9835.    9854.    9873.    9909.    9982.   10193.   10230.
  PER Q=      6.7      5.2      4.0      3.9      2.5     75.8      2.1
   AREA=    307.3    177.5    152.8    192.6    187.0   2337.7    133.8
    VEL=      3.3      4.5      4.0      3.1      2.0      5.0      2.4
  DEPTH=      5.4      9.3      8.0      5.3      2.6     11.1      3.6

*SECNO 17.662

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .50

    17.662      12.22   1283.82       .00       .00   1284.71       .89       .52       .17   1276.40
   15400.0     3988.7   11364.7      46.6     605.8    1441.9      21.3      24.8       3.4   1281.60
       .01       6.58      7.88      2.19      .040      .040      .040      .000   1271.60   9829.44
   .003036       380.      391.      400.         2         0         0       .00    319.71  10149.15

FLOW DISTRIBUTION FOR SECNO=     17.66          CWSEL=   1283.82

STA=    9829.    9835.    9844.    9871.    9911.    9941.   10130.   10149.
  PER Q=       .0       .9      5.6      9.3     10.1     73.8       .3
   AREA=      3.1     30.8    139.7    223.0    209.2   1441.9     21.3
    VEL=      1.4      4.3      6.1      6.4      7.5      7.9      2.2
  DEPTH=       .6      3.4      5.2      5.6      7.0      7.6      1.1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 17.783

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .66

    17.783      10.18   1285.58       .00       .00   1287.86      2.28      2.74       .42   1280.50
   15400.0      296.5   14381.2     722.3      52.5    1157.6     106.7      48.6       7.0   1281.10
       .03       5.65     12.42      6.77      .040      .040      .040      .000   1275.40   9900.35
   .006939       540.      639.      500.         3         0         0       .00    201.37  10101.72

FLOW DISTRIBUTION FOR SECNO=     17.78          CWSEL=   1285.58

STA=    9900.    9921.   10064.   10074.   10097.   10102.
  PER Q=      1.9     93.4      2.4      2.3       .0
```

AREA=	52.5	1157.6	43.8	60.5	2.3
VEL=	5.7	12.4	8.3	5.9	1.9
DEPTH=	2.5	8.1	4.4	2.6	.5

*SECNO 17.932

3301 HV CHANGED MORE THAN HVINS

17.932	13.08	1290.98	1290.58	.00	1294.60	3.62	6.34	.40	1289.70
15400.0	60.0	15314.7	25.3	22.4	1000.3	10.3	69.9	10.3	1290.20
.04	2.68	15.31	2.46	.040	.040	.040	.000	1277.90	9921.07
.009453	790.	787.	780.	5	11	0	.00	164.24	10085.31

FLOW DISTRIBUTION FOR SECNO= 17.93 CWSEL= 1290.98

STA=	9921.	9956.	10066.	10083.	10085.
PER Q=	.4	99.4	.2	.0	
AREA=	22.4	1000.3	9.9	.4	
VEL=	2.7	15.3	2.5	1.2	
DEPTH=	.6	9.1	.6	.2	

CCHV= .300 CEHV= .500

1

18APR06 16:00:22

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 18.042

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

18.042	12.01	1294.31	.00	.00	1298.14	3.83	3.43	.10	1307.40
15400.0	.0	15400.0	.0	.0	980.7	.0	83.3	12.1	1307.40
.05	.00	15.70	.00	.000	.025	.000	.000	1282.30	9951.61
.004040	620.	581.	550.	4	0	0	.00	96.76	10048.37

FLOW DISTRIBUTION FOR SECNO= 18.04 CWSEL= 1294.31

STA=	9952.	10049.
PER Q=	100.0	
AREA=	980.7	
VEL=	15.7	
DEPTH=	10.1	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	.00	75.00	4.00	1059.00	.81	1280.20	1279.90

*SECNO 18.061

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1299.43	1299.04	1.15	0.	15400.	1059.	1060.	1293.20	1301.60	0.

18.061	13.34	1296.44	.00	.00	1299.43	2.99	1.29	.00	1308.20
15400.0	.0	15400.0	.0	.0	1109.9	.0	85.7	12.3	1308.20
.06	.00	13.88	.00	.000	.025	.000	.000	1283.10	9951.54
.002757	101.	101.	101.	4	0	0	.00	96.89	10048.43

FLOW DISTRIBUTION FOR SECNO= 18.06 CWSEL= 1296.44

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA= 9952. 10049.
PER Q= 100.0
AREA= 1109.9
VEL= 13.9
DEPTH= 11.5

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.03

18.081	18.44	1299.54	.00	.00	1300.24	.71	.13	.69	1286.60
15400.0	1235.5	12528.7	1635.8	321.6	1737.8	383.5	90.0	12.7	1284.90
.06	3.84	7.21	4.27	.035	.035	.035	.000	1281.10	9876.94
.000672	80.	106.	130.	3	0	0	.00	229.58	10106.51

FLOW DISTRIBUTION FOR SECNO= 18.08 CWSEL= 1299.54

STA= 9877. 9899. 9942. 10045. 10088. 10107.
PER Q= .1 7.9 81.4 10.5 .2
AREA= 14.7 306.9 1737.8 362.8 20.7
VEL= .8 4.0 7.2 4.4 1.2
DEPTH= .7 7.1 16.9 8.4 1.1

CCHV= .100 CEHV= .300
*SECNO 18.174

18.174	18.52	1300.22	.00	.00	1300.52	.30	.24	.04	1288.70
15400.0	1569.9	11409.1	2421.0	475.1	2330.4	1163.1	126.2	17.3	1294.60
.09	3.30	4.90	2.08	.035	.035	.035	.000	1281.70	9856.87
.000364	500.	491.	490.	2	0	0	.00	597.84	10454.71

FLOW DISTRIBUTION FOR SECNO= 18.17 CWSEL= 1300.22

STA= 9857. 9904. 9915. 9919. 10073. 10142. 10182. 10236. 10455.
PER Q= 5.0 3.9 1.3 74.1 4.6 4.8 4.1 2.3
AREA= 288.0 138.3 48.9 2330.4 313.6 260.8 268.3 320.4
VEL= 2.6 4.4 4.1 4.9 2.2 2.8 2.4 1.1
DEPTH= 6.1 12.6 12.2 15.1 4.5 6.5 5.0 1.5

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 18.269

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .64

18.269	16.37	1300.17	.00	.00	1300.93	.76	.27	.14	1288.40
15400.0	2261.7	12456.3	682.0	445.5	1677.2	198.9	162.4	22.1	1292.40
.11	5.08	7.43	3.43	.035	.035	.035	.000	1283.80	9881.86
.000901	500.	502.	500.	2	0	0	.00	228.73	10110.59

FLOW DISTRIBUTION FOR SECNO= 18.27 CWSEL= 1300.17

STA=	9882.	9928.	9942.	10060.	10071.	10111.
PER Q=	7.5	7.2	80.9	2.3	2.1	
AREA=	278.5	166.9	1677.2	76.7	122.2	
VEL=	4.1	6.7	7.4	4.6	2.7	
DEPTH=	6.0	11.9	14.2	7.0	3.1	

*SECNO 18.362

18.362	15.24	1300.54	.00	.00	1301.51	.97	.51	.06	1290.00
15400.0	1154.3	13225.2	1020.5	240.2	1585.2	239.3	187.2	24.6	1290.60
.13	4.80	8.34	4.26	.035	.035	.035	.000	1285.30	9895.20
.001223	490.	491.	510.	2	0	0	.00	212.97	10108.18

FLOW DISTRIBUTION FOR SECNO= 18.36 CWSEL= 1300.54

STA=	9895.	9905.	9942.	10060.	10108.
PER Q=	.1	7.4	85.9	6.6	
AREA=	9.5	230.7	1585.2	239.3	
VEL=	1.4	4.9	8.3	4.3	
DEPTH=	1.0	6.2	13.4	5.0	

*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

18.445	18.09	1305.39	1305.39	.00	1307.48	2.09	.94	.34	1290.00
15400.0	5165.6	3758.3	6476.1	569.9	217.6	715.8	205.8	27.8	1290.00
.14	9.06	17.27	9.05	.035	.035	.035	.000	1287.30	9885.22
.004315	470.	440.	460.	20	11	0	.00	386.47	10271.68

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 18.44 CWSEL= 1305.39

STA=	9885.	9920.	9978.	9992.	10005.	10040.	10060.	10097.	10200.	10272.
PER Q=	3.3	18.8	11.5	24.4	30.6	4.3	3.9	3.2	.1	
AREA=	93.8	327.2	149.0	217.6	363.7	87.8	107.0	143.3	14.0	

VEL=	5.4	8.8	11.9	17.3	12.9	7.5	5.7	3.5	.9
DEPTH=	2.7	5.6	10.6	16.7	10.4	4.4	2.9	1.4	.2

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	2.34	3.00	.00	6.11	1.00	33.20	.00	1287.70	1287.40

*SECNO 18.456

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.46

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
9123.38	1308.44	.96	15108.	298.	33.	33.	1294.20	1299.50	458.

18.456	19.61	1307.31	.00	.00	1308.31	1.00	.83	.00	1290.40
15400.0	5168.4	2970.6	7261.0	741.4	237.5	1182.5	208.3	28.3	1290.40
.14	6.97	12.51	6.14	.035	.035	.035	.000	1287.70	9873.21
.002014	60.	60.	60.	3	0	8	.00	443.73	10316.94

FLOW DISTRIBUTION FOR SECNO= 18.46 CWSEL= 1307.31

STA=	9873.	9880.	9920.	9978.	9992.	10005.	10040.	10060.	10097.	10200.	10310.	10317.
PER Q=	.0	4.6	19.1	9.8	19.3	26.2	4.8	5.4	7.6	3.0	.0	
AREA=	2.4	152.8	415.8	170.4	237.5	417.2	118.4	163.5	300.7	178.1	4.6	
VEL=	1.0	4.6	7.1	8.9	12.5	9.7	6.2	5.1	3.9	2.6	1.4	
DEPTH=	.4	3.8	7.2	12.2	18.3	11.9	5.9	4.4	2.9	1.6	.7	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.09

18.545	18.98	1308.28	.00	.00	1308.76	.47	.39	.05	1294.10
15400.0	1745.2	11300.0	2354.7	495.0	1857.3	682.4	236.0	32.3	1293.80
.17	3.53	6.08	3.45	.035	.035	.035	.000	1289.30	9881.31
.000460	440.	466.	480.	2	0	0	.00	288.68	10169.98

FLOW DISTRIBUTION FOR SECNO= 18.55 CWSEL= 1308.28

STA=	9881.	9889.	9951.	10058.	10073.	10094.	10108.	10121.	10135.	10170.
PER Q=	.0	11.3	73.4	5.4	4.8	1.9	1.0	1.1	1.0	
AREA=	6.1	488.9	1857.3	179.8	188.7	93.6	60.3	67.7	92.4	
VEL=	.8	3.6	6.1	4.6	3.9	3.2	2.5	2.6	1.7	

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  DEPTH=      .8      7.9     17.4     12.0      9.0      6.7      4.6      4.8      2.6

*SECNO 18.575
    18.575     19.13   1308.43      .00      .00  1308.83      .41      .07      .01  1291.50
   15400.0    3584.2    3152.3   8663.5    833.2    511.1   1731.9    247.2     33.3  1289.70
       .18      4.30      6.17     5.00     .035     .035     .035     .000  1289.30  9880.61
   .000442      160.      160.     160.        2        0        0      .00   290.32 10170.93

FLOW DISTRIBUTION FOR SECNO=     18.58          CWSEL=   1308.43

STA=    9881.    9951.    9972.   10000.   10018.   10040.   10058.   10073.   10094.   10135.   10171.
  PER Q=     11.4     11.8     20.5     13.8     16.2     10.8      5.4      4.8      4.1      1.1
   AREA=    505.0    328.2    511.1    337.1    403.2    293.0    181.9    191.7    227.4     97.5
    VEL=      3.5      5.5      6.2      6.3      6.2      5.7      4.5      3.9      2.8      1.7
  DEPTH=      7.2     15.6     18.3     18.7     18.3     16.3     12.1      9.1      5.5      2.7
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00       .00     10.40      1.00     56.50       .00   1289.40   1289.30

*SECNO 18.583
PRESSURE AND WEIR FLOW,  Weir Submergence Based on TRAPEZOIDAL Shape

 EGPRS     EGLWC     H3        QWEIR     QPR       BAREA     TRAPEZOID     ELLC      ELTRD     WEIRLN
                                                             AREA
  3108.06  1308.92      .09    14974.     431.       57.       56.      1295.40   1299.00      288.


   18.583     20.10   1309.50      .00      .00  1309.84      .34      1.00      .00  1291.60
  15400.0    3685.4    3046.3   8668.3    924.1    538.2   1900.7    250.2     33.6  1289.80
      .18      3.99      5.66     4.56     .035     .035     .035     .000  1289.40  9875.91
  .000347      40.       40.      40.        2        0        7      .00   301.44 10177.35

FLOW DISTRIBUTION FOR SECNO=     18.58          CWSEL=   1309.50

STA=    9876.    9951.    9972.   10000.   10018.   10040.   10058.   10073.   10094.   10121.   10177.
  PER Q=     12.3     11.6     19.8     13.3     15.7     10.5      5.4      5.1      3.4      2.9
   AREA=    575.5    348.5    538.2    354.6    424.5    310.5    196.5    212.0    183.9    218.7
    VEL=      3.3      5.1      5.7      5.8      5.7      5.2      4.2      3.7      2.8      2.0
  DEPTH=      7.7     16.6     19.2     19.7     19.3     17.2     13.1     10.1      6.8      3.9

*SECNO 18.640
   18.640     19.23   1309.43      .00      .00  1310.07      .64      .14      .09  1294.60
  15400.0    2345.6    9850.5   3203.9    512.4   1350.9    710.6    271.0     35.5  1293.40
      .19      4.58      7.29     4.51     .035     .035     .035     .000  1290.20  9879.37
  .000663      300.      301.     310.        2        0        0      .00   255.52 10134.89

FLOW DISTRIBUTION FOR SECNO=     18.64          CWSEL=   1309.43

STA=    9879.    9887.    9920.    9955.   10033.   10111.   10132.   10135.
  PER Q=        .0      2.3     12.9     64.0     20.6       .2       .0
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  AREA=      3.9    129.6    378.9   1350.9    688.5     21.6       .6
   VEL=       .7      2.7      5.3      7.3      4.6      1.1       .4
 DEPTH=       .5      3.9     10.8     17.3      8.8      1.0       .2
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 18.734
   18.734     17.28   1309.68       .00       .00   1310.53       .84       .40       .06   1298.60
  15400.0    1314.3   13486.7     599.0     303.8    1747.6     174.8     298.3      38.3   1300.80
      .21      4.33      7.72      3.43      .035      .035      .035      .000   1292.40   9883.01
 .000985      490.      496.      500.         0         0         0       .00    228.83  10111.84

FLOW DISTRIBUTION FOR SECNO=     18.73          CWSEL=   1309.68

STA=    9883.    9888.    9938.   10062.   10094.   10104.   10112.
  PER Q=       .0      8.5     87.6      3.7       .1       .1
   AREA=      2.4    301.3   1747.6    152.9     13.8      8.1
    VEL=       .8      4.4      7.7      3.7      1.6      1.3
  DEPTH=       .5      6.0     14.1      4.8      1.4      1.0

*SECNO 18.832
   18.832     16.99   1310.19       .00       .00   1311.04       .85       .51       .00   1302.80
  15400.0     437.5   12951.8    2010.7     137.9    1657.8     397.7     324.5      40.9   1297.10
      .23      3.17      7.81      5.06      .035      .035      .035      .000   1293.20   9891.67
 .001003      480.      517.      540.         2         0         0       .00    216.17  10107.84

FLOW DISTRIBUTION FOR SECNO=     18.83          CWSEL=   1310.19

STA=    9892.    9929.   10046.   10095.   10108.
  PER Q=      2.8     84.1     12.9       .2
   AREA=    137.9   1657.8    381.7     16.0
    VEL=      3.2      7.8      5.2      1.5
  DEPTH=      3.7     14.2      7.8      1.2

*SECNO 18.925
   18.925     16.04   1310.64       .00       .00   1311.60       .97       .53       .03   1297.60
  15400.0    1711.9   12782.4     905.7     348.3    1523.8     210.1     348.6      43.3   1300.00
      .25      4.92      8.39      4.31      .035      .035      .035      .000   1294.60   9887.57
 .001144      480.      491.      500.         2         0         0       .00    200.07  10087.64

FLOW DISTRIBUTION FOR SECNO=     18.92          CWSEL=   1310.64

STA=    9888.    9941.   10048.   10087.
  PER Q=     11.1     83.0      5.9
   AREA=    348.3   1523.8    210.1
    VEL=      4.9      8.4      4.3
  DEPTH=      6.5     14.2      5.4
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST
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*SECNO 19.018

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

19.018	13.29	1310.89	.00	.00	1312.69	1.80	.84	.25	1305.10
15400.0	489.5	14883.1	27.4	106.9	1362.9	10.7	368.5	45.4	1308.40
.26	4.58	10.92	2.56	.035	.035	.035	.000	1297.60	9866.12
.002864	460.	491.	520.	2	0	0	.00	172.44	10038.56

FLOW DISTRIBUTION FOR SECNO= 19.02 CWSEL= 1310.89

STA=	9866.	9903.	10030.	10039.
PER Q=	3.2	96.6	.2	
AREA=	106.9	1362.9	10.7	
VEL=	4.6	10.9	2.6	
DEPTH=	2.9	10.7	1.2	

*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

19.117	13.89	1312.49	1312.49	.00	1316.85	4.37	2.18	.77	1302.90
15400.0	1414.2	11917.8	2068.0	148.6	652.4	198.2	383.4	47.1	1301.50
.27	9.52	18.27	10.43	.035	.035	.035	.000	1298.60	9942.00
.006608	490.	523.	560.	20	8	0	.00	120.09	10062.09

FLOW DISTRIBUTION FOR SECNO= 19.12 CWSEL= 1312.49

STA=	9942.	9973.	10026.	10062.
PER Q=	9.2	77.4	13.4	
AREA=	148.6	652.4	198.2	
VEL=	9.5	18.3	10.4	
DEPTH=	4.8	12.3	5.5	

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.61

19.210	16.99	1317.19	.00	.00	1319.01	1.82	1.90	.25	1312.00
15400.0	227.0	14955.2	217.8	57.2	1364.2	55.0	397.4	48.7	1312.00
.28	3.97	10.96	3.96	.035	.035	.035	.000	1300.20	9922.94
.002538	500.	491.	490.	3	0	0	.00	158.26	10081.20

FLOW DISTRIBUTION FOR SECNO= 19.21 CWSEL= 1317.19

STA=	9923.	9945.	10060.	10081.
PER Q=	1.5	97.1	1.4	
AREA=	57.2	1364.2	55.0	
VEL=	4.0	11.0	4.0	
DEPTH=	2.6	11.9	2.6	

CCHV= .300 CEHV= .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1324.00 ELREA= 1324.00

19.283	8.22	1319.92	1319.92	.00	1324.04	4.12	1.64	1.15	1311.70
14600.0	.0	14600.0	.0	.0	896.1	.0	407.9	49.9	1311.70
.29	.00	16.29	.00	.000	.035	.000	.000	1311.70	9948.00
.008876	390.	386.	390.	20	11	0	.00	109.00	10057.00

FLOW DISTRIBUTION FOR SECNO= 19.28 CWSEL= 1319.92

STA=	9948.	10057.
PER Q=	100.0	
AREA=	896.1	
VEL=	16.3	
DEPTH=	8.2	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1318.71 , NOT 1319.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	.00	109.00	4.50	1304.00	.00	1311.70	1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1320.16 BRIDGE VELOCITY= 16.51 CALCULATED CHANNEL AREA= 884.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1322.96	1324.65	.00	0.	14600.	1304.	1306.	1324.20	1326.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1325.00 ELREA= 1325.00

19.299	10.36	1322.06	.00	.00	1324.65	2.60	.61	.00	1311.70
14600.0	.0	14600.0	.0	.0	1128.7	.0	409.9	50.1	1311.70
.29	.00	12.94	.00	.000	.035	.000	.000	1311.70	9948.00
.004112	86.	86.	86.	0	0	0	.00	109.00	10057.00

FLOW DISTRIBUTION FOR SECNO= 19.30 CWSEL= 1322.06

STA= 9948. 10057.
PER Q= 100.0
AREA= 1128.7
VEL= 12.9
DEPTH= 10.4

*SECNO 19.313
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

19.313	11.61	1323.31	.00	.00	1325.17	1.87	.30	.22	1327.90
14600.0	.0	14600.0	.0	.0	1330.9	.0	412.0	50.3	1325.50
.29	.00	10.97	.00	.000	.035	.000	.000	1311.70	9944.34
.004073	75.	74.	75.	4	0	0	.00	159.66	10104.00

FLOW DISTRIBUTION FOR SECNO= 19.31 CWSEL= 1323.31

STA= 9944. 10112.
PER Q= 100.0
AREA= 1330.9
VEL= 11.0
DEPTH= 8.3

CCHV= .100 CEHV= .300
*SECNO 19.418

19.418	12.59	1325.59	.00	.00	1327.43	1.83	2.25	.00	1328.00
14600.0	.0	14600.0	.0	.0	1343.4	.0	429.0	52.4	1326.10
.31	.00	10.87	.00	.000	.035	.000	.000	1313.00	9955.11
.004041	570.	554.	530.	2	0	0	.00	162.69	10117.80

FLOW DISTRIBUTION FOR SECNO= 19.42 CWSEL= 1325.59

STA= 9955. 10120.
PER Q= 100.0
AREA= 1343.4
VEL= 10.9
DEPTH= 8.3

*SECNO 19.560

19.560	12.61	1328.21	.00	.00	1330.15	1.94	2.69	.03	1329.70
14600.0	.0	14600.0	.0	.0	1307.1	.0	451.2	54.8	1330.60
.32	.00	11.17	.00	.000	.035	.000	.000	1315.60	9931.38
.003389	730.	729.	720.	2	0	0	.00	129.60	10060.98

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 19.56 CWSEL= 1328.21

STA= 9931. 10065.
PER Q= 100.0
AREA= 1307.1
VEL= 11.2
DEPTH= 10.1

CCHV= .300 CEHV= .500
*SECNO 19.625

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.55

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1332.00 ELREA= 1332.00

19.625	12.29	1329.89	.00	.00	1330.82	.93	.37	.30	1317.60
5700.0	.0	5700.0	.0	.0	737.6	.0	459.7	55.6	1317.60
.34	.00	7.73	.00	.000	.015	.000	.000	1317.60	9965.00
.000214	580.	364.	70.	2	0	0	.00	60.00	10025.00

FLOW DISTRIBUTION FOR SECNO= 19.63 CWSEL= 1329.89

STA= 9965. 10025.
PER Q= 100.0
AREA= 737.6
VEL= 7.7
DEPTH= 12.3

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	60.00	2.00	564.00	.00	1318.60	1317.60

*SECNO 19.691

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1332.37	1331.05	.08	0.	5700.	564.	563.	1328.30	1334.80	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1333.00 ELREA= 1333.00

19.691	12.93	1331.53	.00	.00	1332.37	.84	1.55	.00	1318.60
5700.0	.0	5700.0	.0	.0	775.9	.0	465.8	56.1	1318.60
.35	.00	7.35	.00	.000	.015	.000	.000	1318.60	9965.00
.000181	330.	350.	430.	2	0	0	.00	60.00	10025.00

FLOW DISTRIBUTION FOR SECNO= 19.69 CWSEL= 1331.53

STA= 9965. 10025.
PER Q= 100.0
AREA= 775.9
VEL= 7.3
DEPTH= 12.9

*SECNO 19.742

19.742	12.89	1331.99	.00	.00	1332.51	.52	.05	.10	1331.60
5700.0	.8	5699.0	.2	3.4	985.5	.8	471.3	56.6	1331.00
.36	.23	5.78	.30	.035	.015	.035	.000	1319.10	9935.22
.000165	80.	269.	470.	2	0	0	.00	108.35	10043.57

FLOW DISTRIBUTION FOR SECNO= 19.74 CWSEL= 1331.99

STA= 9935. 9948. 10042. 10044.
PER Q= .0 100.0 .0
AREA= 3.4 985.5 .8
VEL= .2 5.8 .3
DEPTH= .3 10.5 .5

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .100 CEHV= .300
*SECNO 19.847

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .36

19.847	13.34	1332.14	.00	.00	1332.73	.59	.20	.02	1336.30
5700.0	.0	5700.0	.0	.0	925.1	.0	483.4	58.0	1335.80
.39	.00	6.16	.00	.000	.035	.000	.000	1318.80	9940.63
.001296	570.	554.	520.	2	0	0	.00	109.85	10050.49

FLOW DISTRIBUTION FOR SECNO= 19.85 CWSEL= 1332.14

STA= 9941. 10062.
PER Q= 100.0
AREA= 925.1
VEL= 6.2
DEPTH= 8.4

*SECNO 19.960

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .39

19.960	7.77	1332.37	1332.22	.00	1334.93	2.55	1.61	.59	1330.00
5700.0	38.9	5629.3	31.8	9.0	436.7	7.5	492.9	59.3	1330.00
.40	4.31	12.89	4.25	.035	.035	.035	.000	1324.60	9950.40
.008699	640.	597.	560.	4	11	0	.00	86.88	10037.28

FLOW DISTRIBUTION FOR SECNO= 19.96 CWSEL= 1332.37

STA=	9950.	9958.	10031.	10037.
PER Q=	.7	98.8	.6	
AREA=	9.0	436.7	7.5	
VEL=	4.3	12.9	4.3	
DEPTH=	1.2	6.0	1.2	

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CCHV= .300 CEHV= .500
*SECNO 19.974

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.51

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1336.00 ELREA= 1336.00

19.974	9.51	1333.31	.00	.00	1335.46	2.14	.41	.12	1323.80
5700.0	.0	5700.0	.0	.0	485.1	.0	493.7	59.4	1323.80
.40	.00	11.75	.00	.000	.035	.000	.000	1323.80	9969.00
.003800	105.	74.	65.	3	0	0	.00	51.00	10020.00

FLOW DISTRIBUTION FOR SECNO= 19.97 CWSEL= 1333.31

STA=	9969.	10020.
PER Q=	100.0	
AREA=	485.1	
VEL=	11.8	
DEPTH=	9.5	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	51.00	3.00	480.00	.00	1324.10	1323.80

*SECNO 19.986

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1336.73	1336.01	.92	0.	5700.	480.	480.	1334.10	1337.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1337.00 ELREA= 1337.00

19.986	11.45	1335.25	.00	.00	1336.73	1.48	1.27	.00	1323.80
5700.0	.0	5700.0	.0	.0	584.0	.0	494.4	59.5	1323.80
.40	.00	9.76	.00	.000	.035	.000	.000	1323.80	9969.00
.002047	61.	61.	61.	3	0	0	.00	51.00	10020.00

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 19.99 CWSEL= 1335.25

STA= 9969. 10020.
PER Q= 100.0
AREA= 584.0
VEL= 9.8
DEPTH= 11.5

*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1340.00 ELREA= 1339.40

20.049	11.25	1338.35	1338.35	.00	1341.90	3.54	1.32	1.03	1343.40
5700.0	.0	5700.0	.0	.0	377.3	.0	498.1	59.9	1339.40
.41	.00	15.11	.00	.000	.035	.000	.000	1327.10	9971.56
.010738	305.	333.	345.	20	8	0	.00	53.63	10025.19

FLOW DISTRIBUTION FOR SECNO= 20.05 CWSEL= 1338.35

STA= 9972. 10027.
PER Q= 100.0
AREA= 377.3
VEL= 15.1
DEPTH= 7.0

CCHV= .100 CEHV= .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.69

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1344.00 ELREA= 1340.80

20.144	12.58	1343.48	.00	.00	1345.07	1.58	2.97	.20	1344.60
5700.0	.0	5588.6	111.4	.0	548.7	32.7	503.6	60.7	1340.80
.42	.00	10.19	3.41	.000	.035	.040	.000	1330.90	9960.58
.003744	490.	502.	500.	2	0	0	.00	83.94	10044.51

FLOW DISTRIBUTION FOR SECNO= 20.14 CWSEL= 1343.48

STA=	9961.	10025.	10040.	10045.
PER Q=	98.0	1.9	.1	
AREA=	548.7	29.8	2.9	
VEL=	10.2	3.6	1.6	
DEPTH=	8.5	2.0	.6	

*SECNO 20.242

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1348.00 ELREA= 1342.80

20.242	12.19	1345.49	.00	.00	1347.06	1.57	1.99	.00	1347.20
5700.0	.0	5546.3	153.7	.0	545.0	40.2	510.6	61.7	1342.80
.44	.00	10.18	3.83	.000	.035	.040	.000	1333.30	9961.30
.003942	470.	517.	560.	3	0	0	.00	88.68	10049.98

FLOW DISTRIBUTION FOR SECNO= 20.24 CWSEL= 1345.49

STA=	9961.	10029.	10041.	10050.
PER Q=	97.3	2.2	.5	
AREA=	545.0	29.9	10.3	
VEL=	10.2	4.3	2.5	
DEPTH=	8.1	2.5	1.1	

*SECNO 20.335

20.335	10.14	1347.44	.00	.00	1348.61	1.17	1.51	.04	1344.00
5700.0	31.7	5639.2	29.1	12.8	646.3	11.8	517.7	62.7	1344.00
.46	2.48	8.72	2.46	.040	.035	.040	.000	1337.30	9950.57
.002469	510.	491.	470.	2	0	0	.00	88.31	10038.88

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 20.33 CWSEL= 1347.44

STA=	9951.	9958.	10032.	10039.
PER Q=	.6	98.9	.5	
AREA=	12.8	646.3	11.8	
VEL=	2.5	8.7	2.5	
DEPTH=	1.7	8.7	1.7	

CCHV= .300 CEHV= .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1351.50 ELREA= 1351.50

20.347	10.04	1347.24	.00	.00	1349.16	1.92	.18	.38	1337.20
5700.0	.0	5700.0	.0	.0	512.0	.0	518.5	62.8	1337.20
.46	.00	11.13	.00	.000	.035	.000	.000	1337.20	9970.00
.003174	1.	63.	150.	2	0	0	.00	51.00	10021.00

FLOW DISTRIBUTION FOR SECNO= 20.35 CWSEL= 1347.24

STA= 9970. 10021.
PER Q= 100.0
AREA= 512.0
VEL= 11.1
DEPTH= 10.0

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1337.70	1337.20

*SECNO 20.366
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1347.00 BRIDGE VELOCITY= 12.43 CALCULATED CHANNEL AREA= 446.

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1349.64	.73	0.	5700.	576.	576.	1349.70	1354.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.366	10.77	1347.97	.00	.00	1349.64	1.67	.48	.00	1337.20
5700.0	.0	5700.0	.0	.0	549.1	.0	519.7	63.0	1337.20
.46	.00	10.38	.00	.000	.035	.000	.000	1337.20	9970.00
.002515	100.	100.	100.	0	0	0	.00	51.00	10021.00

FLOW DISTRIBUTION FOR SECNO= 20.37 CWSEL= 1347.97

STA= 9970. 10021.
PER Q= 100.0
AREA= 549.1
VEL= 10.4
DEPTH= 10.8

*SECNO 20.423

3301 HV CHANGED MORE THAN HVINS

20.423	11.57	1349.57	.00	.00	1350.51	.94	.65	.22	1345.00
5700.0	101.7	5266.2	332.1	37.2	655.8	86.9	524.3	63.5	1344.30
.47	2.73	8.03	3.82	.040	.035	.040	.000	1338.00	9958.69

.001888	415.	301.	205.	3	0	0	.00	112.82	10071.51

FLOW DISTRIBUTION FOR SECNO= 20.42 CWSEL= 1349.57

STA=	9959.	9975.	10045.	10055.	10072.
PER Q=	1.8	92.4	4.0	1.8	
AREA=	37.2	655.8	49.2	37.7	
VEL=	2.7	8.0	4.7	2.7	
DEPTH=	2.3	9.4	4.9	2.3	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.430	9.83	1349.13	.00	.00	1351.13	2.01	.09	.53	1339.30
5700.0	.0	5700.0	.0	.0	501.4	.0	524.8	63.6	1339.30
.47	.00	11.37	.00	.000	.035	.000	.000	1339.30	9985.00
.003403	1.	37.	65.	2	0	0	.00	51.00	10036.00

FLOW DISTRIBUTION FOR SECNO= 20.43 CWSEL= 1349.13

STA=	9985.	10036.
PER Q=	100.0	
AREA=	501.4	
VEL=	11.4	
DEPTH=	9.8	

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1339.30	1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1348.59 BRIDGE VELOCITY= 12.79 CALCULATED CHANNEL AREA= 446.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1351.50	1351.64	.80	0.	5700.	576.	576.	1351.30	1355.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1353.50 ELREA= 1353.50

20.444	10.62	1349.92	.00	.00	1351.64	1.72	.51	.00	1339.30
5700.0	.0	5700.0	.0	.0	541.8	.0	525.7	63.7	1339.30
.47	.00	10.52	.00	.000	.035	.000	.000	1339.30	9985.00
.002628	70.	70.	70.	0	0	0	.00	51.00	10036.00

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 20.44 CWSEL= 1349.92

STA= 9985. 10036.
PER Q= 100.0
AREA= 541.8
VEL= 10.5
DEPTH= 10.6

*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS

20.529	9.25	1352.25	.00	.00	1352.95	.70	1.00	.31	1350.20
5700.0	165.5	5398.1	136.3	70.2	784.4	61.5	533.2	64.9	1350.40
.49	2.36	6.88	2.22	.040	.035	.040	.000	1343.00	9905.35
.001924	545.	449.	375.	3	0	0	.00	189.83	10095.18

FLOW DISTRIBUTION FOR SECNO= 20.53 CWSEL= 1352.25

STA=	9905.	9910.	9947.	10055.	10090.	10095.
PER Q=	.1	2.8	94.7	2.3	.1	
AREA=	3.6	66.6	784.4	57.8	3.8	
VEL=	1.3	2.4	6.9	2.3	1.3	
DEPTH=	.8	1.8	7.3	1.7	.7	

CCHV= .100 CEHV= .300
*SECNO 20.628

20.628	10.01	1353.31	.00	.00	1353.74	.43	.76	.03	1357.10
5700.0	.0	5700.0	.0	.0	1089.4	.0	545.3	67.0	1356.30
.52	.00	5.23	.00	.000	.035	.000	.000	1343.30	9917.80
.001125	530.	523.	520.	2	0	0	.00	150.61	10068.41

FLOW DISTRIBUTION FOR SECNO= 20.63 CWSEL= 1353.31

STA= 9918. 10076.
PER Q= 100.0
AREA= 1089.4
VEL= 5.2
DEPTH= 7.2

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

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3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    20.725      8.84   1356.04   1356.04       .00   1359.09      3.06      1.32       .79   1360.40
    5700.0        .0    5700.0        .0        .0     406.2        .0     554.0      68.2   1361.00
       .53       .00     14.03       .00      .000      .035      .000      .000   1347.20   9959.29
   .010764      510.      512.      520.        20        11         0       .00     67.22  10026.51


FLOW DISTRIBUTION FOR SECNO=     20.73          CWSEL=   1356.04

STA=    9959.   10036.
  PER Q=    100.0
   AREA=    406.2
    VEL=     14.0
  DEPTH=      6.0

CCHV=     .300 CEHV=     .500
*SECNO 20.737

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1363.00 ELREA=      1363.00

    20.737      7.27   1358.17   1358.17       .00   1361.84      3.67       .80       .31   1350.90
    5700.0        .0    5700.0        .0        .0     370.6        .0     554.8      68.4   1350.90
       .53       .00     15.38       .00      .000      .035      .000      .000   1350.90   9968.00
   .009320       80.       80.       80.        20        15         0       .00     51.00  10019.00


FLOW DISTRIBUTION FOR SECNO=     20.74          CWSEL=   1358.17

STA=    9968.   10019.
  PER Q=    100.0
   AREA=    370.6
    VEL=     15.4
  DEPTH=      7.3

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1356.93 , NOT    1358.17 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.25      1.56       3.00     100.00      51.00       3.00     576.00        .00    1351.00    1350.90

*SECNO 20.750

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.59

CLASS B LOW FLOW
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3420 BRIDGE W.S.= 1358.54 BRIDGE VELOCITY= 15.64 CALCULATED CHANNEL AREA= 362.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1362.70	.00	0.	5700.	576.	576.	1363.00	1366.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1364.00 ELREA= 1364.00

20.750	9.60	1360.60	.00	.00	1362.70	2.11	.86	.00	1351.00
5700.0	.0	5700.0	.0	.0	489.5	.0	555.5	68.4	1351.00
.53	.00	11.64	.00	.000	.035	.000	.000	1351.00	9968.00
.003686	71.	71.	71.	0	0	0	.00	51.00	10019.00

FLOW DISTRIBUTION FOR SECNO= 20.75 CWSEL= 1360.60

STA= 9968. 10019.
PER Q= 100.0
AREA= 489.5
VEL= 11.6
DEPTH= 9.6

*SECNO 20.819

1

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1366.90 ELREA= 1366.90

20.819	5.87	1362.37	.00	.00	1364.78	2.41	1.92	.15	1356.50
5700.0	.0	5700.0	.0	.0	457.6	.0	559.4	69.0	1356.50
.54	.00	12.46	.00	.000	.035	.000	.000	1356.50	9965.00
.008133	375.	365.	345.	3	0	0	.00	78.00	10043.00

FLOW DISTRIBUTION FOR SECNO= 20.82 CWSEL= 1362.37

STA= 9965. 10043.
PER Q= 100.0
AREA= 457.6
VEL= 12.5
DEPTH= 5.9

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1361.20 , NOT 1362.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	77.30	3.30	655.00	.00	1357.40	1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1362.64 BRIDGE VELOCITY= 13.54 CALCULATED CHANNEL AREA= 388.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1364.20	1366.08	.00	0.	5700.	655.	592.	1365.40	1369.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1367.90 ELREA= 1367.90

1

SECNO Q TIME SLOPE	DEPTH QLOB VLOB XLOBL	CWSEL QCH VCH XLCH	CRIWS QROB VROB XLOBR	WSELK ALOB XNL ITRIAL	EG ACH XNCH IDC	HV AROB XNR ICONT	HL VOL WTN CORAR	OLOSS TWA ELMIN TOPWID	L-BANK ELEV R-BANK ELEV SSTA ENDST
20.841	6.98	1364.38	.00	.00	1366.08	1.70	1.31	.00	1357.40
5700.0	.0	5700.0	.0	.0	544.7	.0	560.7	69.2	1357.40
.54	.00	10.46	.00	.000	.035	.000	.000	1357.40	9965.00
.004551	115.	115.	115.	0	0	0	.00	78.00	10043.00

FLOW DISTRIBUTION FOR SECNO= 20.84 CWSEL= 1364.38

STA= 9965. 10043.
PER Q= 100.0
AREA= 544.7
VEL= 10.5
DEPTH= 7.0

*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.53

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1365.30 ELREA= 1367.60

20.860	9.68	1365.98	.00	.00	1366.67	.69	.28	.30	1365.30
5700.0	86.2	5613.8	.0	77.9	834.8	.0	562.4	69.6	1367.60
.55	1.11	6.72	.00	.040	.035	.000	.000	1356.30	9800.89
.001946	90.	100.	110.	2	0	0	.00	261.14	10062.04

FLOW DISTRIBUTION FOR SECNO= 20.86 CWSEL= 1365.98

STA=	9801.	9846.	9942.	10066.
PER Q=	.4	1.1	98.5	
AREA=	21.8	56.1	834.8	
VEL=	1.0	1.1	6.7	
DEPTH=	.5	.6	7.0	

CCHV= .100 CEHV= .300
*SECNO 20.942

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3265 DIVIDED FLOW

20.942	7.69	1367.29	.00	.00	1367.72	.43	1.02	.03	1368.60
5700.0	.0	3724.4	1975.6	.0	673.2	417.4	572.7	72.7	1366.50
.57	.02	5.53	4.73	.040	.035	.035	.000	1359.60	9629.81
.002779	530.	433.	490.	2	0	0	.00	313.22	10168.29

FLOW DISTRIBUTION FOR SECNO= 20.94 CWSEL= 1367.29

STA=	9630.	10024.	10027.	10053.	10070.	10114.	10153.	10168.
PER Q=	65.3	.3	5.3	2.5	6.4	17.0	3.3	
AREA=	673.2	5.1	69.9	37.2	96.3	165.3	43.5	
VEL=	5.5	2.9	4.3	3.8	3.8	5.9	4.3	
DEPTH=	4.0	1.7	2.7	2.2	2.2	4.2	2.8	

*SECNO 21.036

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

21.036	8.45	1371.95	1371.95	.00	1373.07	1.12	1.76	.21	1370.70
5700.0	367.1	5202.8	130.1	186.3	586.7	55.7	583.6	77.4	1370.40
.59	1.97	8.87	2.34	.040	.035	.040	.000	1363.50	9568.93
.004734	490.	496.	490.	20	12	0	.00	520.10	10089.02

FLOW DISTRIBUTION FOR SECNO= 21.04 CWSEL= 1371.95

STA=	9569.	9665.	9728.	9758.	9867.	9912.	10020.	10041.	10075.	10089.
PER Q=	.7	.5	.1	2.7	2.5	91.3	1.2	.9	.2	
AREA=	31.1	21.8	5.9	75.9	51.6	586.7	24.1	25.4	6.3	
VEL=	1.2	1.3	.9	2.0	2.8	8.9	2.8	2.1	1.5	
DEPTH=	.3	.3	.2	.7	1.1	5.4	1.1	.7	.4	

*SECNO 21.127
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1374.00 ELREA= 1375.00

21.127	8.05	1374.75	1374.75	.00	1375.74	1.00	2.13	.01	1374.20
5700.0	1077.1	4622.9	.0	394.1	525.4	.0	592.7	82.0	1375.00
.61	2.73	8.80	.00	.040	.035	.000	.000	1366.70	9631.62
.004360	400.	480.	500.	2	10	0	.00	434.39	10066.01

FLOW DISTRIBUTION FOR SECNO= 21.13 CWSEL= 1374.75

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STA=    9632.    9634.    9666.    9759.    9860.    9913.    9974.   10067.
  PER Q=       .0      1.7      5.8      6.7      2.9      1.8     81.1
   AREA=      1.4     36.7    115.9    130.9     60.7     48.6    525.4
    VEL=      1.6      2.7      2.8      2.9      2.7      2.1      8.8
  DEPTH=       .6      1.1      1.2      1.3      1.1       .8      5.7

*SECNO 21.230

3265 DIVIDED FLOW

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.230      8.36   1380.36   1380.36       .00   1381.67      1.30      2.99       .09   1379.30
    5700.0     508.8    4046.9    1144.3     153.5     391.9     191.5     603.1      86.7   1380.60
       .62      3.32     10.33      5.98      .040      .035      .040      .000   1372.00   9818.28
   .007215      560.      544.      500.        20         8         0       .00    304.81  10126.36

FLOW DISTRIBUTION FOR SECNO=     21.23          CWSEL=   1380.36

STA=    9818.    9879.    9930.    9967.   10048.   10083.   10102.   10117.   10126.
  PER Q=      3.2      3.0      2.7     71.0      6.7      6.3      4.7      2.5
   AREA=     57.4     52.7     43.4    391.9     69.9     55.4     42.2     24.0
    VEL=      3.2      3.3      3.5     10.3      5.4      6.4      6.3      5.9
  DEPTH=       .9      1.0      1.2      5.0      2.0      2.9      2.8      2.6

*SECNO 21.363
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

3265 DIVIDED FLOW

3280 CROSS SECTION     21.36 EXTENDED       .36 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.07

    21.363      9.27   1383.37       .00       .00   1383.90       .53      2.16       .08   1384.40
    5700.0      98.2    5566.2      35.7      50.6     939.1      46.3     617.4      92.2   1382.10
       .66      1.94      5.93       .77      .040      .035      .040      .000   1374.10   9556.04
   .001686      740.      702.      700.         2         0         0       .00    366.91  10337.00

FLOW DISTRIBUTION FOR SECNO=     21.36          CWSEL=   1383.37

STA=    9556.    9923.   10088.   10337.
  PER Q=      1.7     97.7       .6
   AREA=     50.6    939.1     46.3
    VEL=      1.9      5.9       .8
  DEPTH=       .1      6.3       .2

*SECNO 21.484

3265 DIVIDED FLOW
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3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.484      8.03   1386.53   1386.53       .00   1387.44       .92      1.88       .11   1386.90
    5700.0     2045.4   3648.0       6.6     511.1     400.0       4.0     631.7      98.5   1386.50
       .68       4.00      9.12      1.63      .040      .035      .040      .000   1378.50   9497.84
   .006378      650.      639.      520.        20        12         0       .00    514.70  10076.82

FLOW DISTRIBUTION FOR SECNO=     21.48          CWSEL=   1386.53

STA=    9498.    9614.    9647.    9678.    9805.    9837.    9867.    9892.    9920.   10026.   10077.
  PER Q=      3.6      3.1      3.3      5.0      6.8      6.6      5.3      2.1     64.0       .1
   AREA=     82.4     47.2     47.4     95.5     74.5     71.4     58.2     34.5    400.0      4.0
    VEL=      2.5      3.8      3.9      3.0      5.2      5.3      5.2      3.5      9.1      1.6
  DEPTH=       .7      1.4      1.5       .8      2.3      2.4      2.3      1.2      4.5       .1
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 21.576

3265 DIVIDED FLOW

3280 CROSS SECTION     21.58 EXTENDED       .54 FEET

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.576      7.14   1389.24   1389.24       .00   1390.02       .78      2.51       .01   1390.00
    5700.0     720.9   4008.4     970.7     336.1     487.8     285.9     641.4     104.4   1388.30
       .70       2.15      8.22      3.39      .040      .035      .040      .000   1382.10   9388.00
   .005020      320.      486.      480.         2        12         0       .00    868.38  10340.54

FLOW DISTRIBUTION FOR SECNO=     21.58          CWSEL=   1389.24

STA=    9388.    9500.    9643.    9821.    9929.   10087.   10140.   10199.   10281.   10341.
  PER Q=      3.6      3.0      3.3      2.7     70.3      6.8      6.0      3.7       .5
   AREA=     89.6     81.4     95.4     69.6    487.8     97.3     94.6     78.7     15.4
    VEL=      2.3      2.1      2.0      2.2      8.2      4.0      3.6      2.7      1.9
  DEPTH=       .8       .6       .5       .6      4.6      1.8      1.6      1.0       .3

*SECNO 21.669

3265 DIVIDED FLOW

3280 CROSS SECTION     21.67 EXTENDED       .18 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.669      9.38   1393.38   1393.38       .00   1393.98       .60      2.28       .02   1393.80
    5500.0     905.3   2788.4    1806.3     390.6     338.0     558.6     654.3     114.0   1392.00
       .72       2.32      8.25      3.23      .040      .035      .040      .000   1384.00   9392.00
   .004519      440.      491.      470.        20        16         0       .00    977.37  10414.00

FLOW DISTRIBUTION FOR SECNO=     21.67          CWSEL=   1393.38
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

STA=    9392.    9515.    9663.    9893.    9949.    9959.   10031.   10074.   10124.   10182.   10245.   10303.   10361.
  PER Q=     3.0      4.9      3.2      5.1       .2     50.7      5.1      4.6      5.6      5.2      4.2      4.5
   AREA=    80.3    122.7     95.6     85.0      6.8    338.0     76.4     76.3     91.4     89.8     76.9     79.8
    VEL=     2.1      2.2      1.8      3.3      1.9      8.3      3.7      3.3      3.4      3.2      3.0      3.1
  DEPTH=      .7       .8       .4      1.5       .7      5.3      1.8      1.5      1.6      1.4      1.3      1.4

STA=   10361.   10401.   10414.
  PER Q=     3.1       .6
   AREA=    54.9     13.1
    VEL=     3.1      2.5
  DEPTH=     1.4      1.0

*SECNO 21.742

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.742      8.78   1395.18   1395.18       .00   1396.38      1.19      1.92       .18   1394.70
    5500.0      29.1    5238.8     232.0      28.7     583.5     122.4     663.5     121.0   1394.20
       .74      1.02      8.98      1.90      .040      .035      .040      .000   1386.40   9744.71
   .005365      430.      385.      390.         2         8         0       .00    525.85  10353.48


FLOW DISTRIBUTION FOR SECNO=     21.74          CWSEL=   1395.18

STA=    9745.    9975.   10091.   10240.   10353.
  PER Q=      .5     95.3      3.1      1.1
   AREA=    28.7    583.5     80.6     41.8
    VEL=     1.0      9.0      2.1      1.5
  DEPTH=      .1      5.0       .5       .4

*SECNO 21.840
    21.840      6.94   1398.04       .00       .00   1398.83       .80      2.42       .04   1396.20
    5500.0     945.8    4157.0     397.3     210.1     524.6     174.1     672.7     126.0   1397.00
       .76      4.50      7.92      2.28      .040      .035      .040      .000   1391.10   9857.22
   .004314      430.      517.      430.         2         0         0       .00    437.88  10295.09
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=     21.84          CWSEL=   1398.04

STA=    9857.    9860.    9882.    9913.    9931.    9946.   10054.   10097.   10145.   10186.   10227.   10273.   10295.
  PER Q=      .0      2.2      7.6      4.7      2.6     75.6      2.9      2.7       .6       .4       .6       .1
   AREA=     1.0     36.1     86.5     52.1     34.4    524.6     55.6     54.8     20.2     16.1     22.6      4.9
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   VEL=      1.2      3.4      4.8      5.0      4.2      7.9      2.9      2.7      1.5      1.3      1.5       .9
 DEPTH=       .4      1.6      2.8      2.9      2.3      4.9      1.3      1.1       .5       .4       .5       .2

*SECNO 21.895
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.895     7.77  1399.67  1399.67      .00  1400.47      .80     1.34      .00  1398.00
    5500.0   1555.3   2864.4   1080.2    327.5    311.9    397.8    679.0    129.1  1397.70
       .77     4.75     9.18     2.72     .040     .035     .040     .000  1391.90  9834.78
   .004943     330.     290.     220.        1        8        0      .00   596.22 10431.00


FLOW DISTRIBUTION FOR SECNO=     21.90          CWSEL=   1399.67

STA=    9835.    9885.    9919.    9939.    9975.   10031.   10113.   10187.   10251.   10292.   10364.   10431.
  PER Q=      9.5      9.9      4.3      4.6     52.1      4.2      4.1      4.1      3.1      3.0      1.2
   AREA=    112.3    100.9     49.3     64.9    311.9     84.3     80.6     76.1     54.0     65.9     36.8
    VEL=      4.7      5.4      4.8      3.9      9.2      2.7      2.8      3.0      3.1      2.5      1.8
  DEPTH=      2.2      3.0      2.5      1.8      5.6      1.0      1.1      1.2      1.3       .9       .5

*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.01

    21.933     4.06  1400.86      .00      .00  1400.99      .13      .46      .07  1398.00
    5500.0   1740.2   3230.1    529.7    808.7    951.6    269.8    686.4    132.8  1398.00
       .79     2.15     3.39     1.96     .040     .035     .040     .000  1396.80  9314.75
   .001221     210.     210.     210.        2        0        0      .00   970.39 10285.14


FLOW DISTRIBUTION FOR SECNO=     21.93          CWSEL=   1400.86

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


STA=    9315.    9440.    9590.    9680.    9725.    9780.    9840.    9865.   10140.   10285.
  PER Q=       .4      2.0      6.0      7.2      8.8      5.1      2.1     58.7      9.6
   AREA=     35.1    106.5    167.4    142.2    173.8    129.6     54.0    951.6    269.8
    VEL=       .6      1.0      2.0      2.8      2.8      2.2      2.2      3.4      2.0
  DEPTH=       .3       .7      1.9      3.2      3.2      2.2      2.2      3.5      1.9

*SECNO 21.953

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    21.953     7.06  1401.06  1401.06      .00  1402.01      .94      .20      .24  1400.20
    5500.0   2374.6   2981.8    143.6    470.2    313.0     32.2    688.8    134.1  1398.30
       .79     5.05     9.53     4.45     .045     .045     .045     .000  1394.00  9424.44
   .009459      75.      74.      75.       20       14        0      .00   459.91 10052.98
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FLOW DISTRIBUTION FOR SECNO= 21.95 CWSEL= 1401.06

STA=	9424.	9678.	9699.	9714.	9725.	9735.	9759.	9768.	9782.	9810.	9965.	9969.	10029.
PER Q=	4.1	3.5	4.1	5.2	4.3	4.5	3.3	5.0	5.9	3.2	.3	54.2	
AREA=	94.3	39.1	37.7	38.5	33.6	48.3	27.1	41.5	60.5	45.2	4.4	313.0	
VEL=	2.4	4.9	5.9	7.4	7.1	5.1	6.6	6.6	5.4	3.8	3.4	9.5	
DEPTH=	.4	1.9	2.5	3.5	3.4	2.0	3.0	3.0	2.2	.3	1.1	5.2	

STA=	10029.	10053.
PER Q=	2.6	
AREA=	32.2	
VEL=	4.5	
DEPTH=	1.3	

*SECNO 22.065

3265 DIVIDED FLOW

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.94

22.065	8.28	1404.08	.00	.00	1404.25	.17	2.17	.08	1404.10
5500.0	4154.8	1273.9	71.3	1389.6	294.2	31.6	702.6	140.5	1402.00
.83	2.99	4.33	2.26	.045	.045	.045	.000	1395.80	9242.08
.002509	430.	591.	630.	4	0	0	.00	777.84	10049.66

FLOW DISTRIBUTION FOR SECNO= 22.07 CWSEL= 1404.08

STA=	9242.	9500.	9594.	9645.	9657.	9680.	9700.	9731.	9785.	9816.	9869.	9890.	9961.
PER Q=	24.1	5.7	7.6	3.2	5.9	5.3	3.8	4.5	6.5	4.9	3.7	.4	
AREA=	500.1	143.7	124.0	44.8	83.5	73.6	69.7	80.3	99.4	92.7	60.5	17.3	
VEL=	2.7	2.2	3.4	4.0	3.9	3.9	3.0	3.1	3.6	2.9	3.3	1.2	
DEPTH=	1.9	1.5	2.4	3.7	3.6	3.7	2.2	1.5	3.2	1.7	2.9	.2	

STA=	9961.	10028.	10050.
PER Q=	23.2	1.3	
AREA=	294.2	31.6	
VEL=	4.3	2.3	
DEPTH=	4.4	1.5	

*SECNO 22.165

3265 DIVIDED FLOW

22.165	10.25	1405.25	.00	.00	1405.46	.21	1.20	.01	1400.90
5500.0	4034.5	1433.3	32.3	1386.7	266.1	24.2	723.2	150.3	1403.70
.87	2.91	5.39	1.33	.045	.045	.045	.000	1395.00	9137.48
.002042	530.	528.	530.	3	0	0	.00	828.27	10060.52

FLOW DISTRIBUTION FOR SECNO= 22.17 CWSEL= 1405.25

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

STA=	9137.	9204.	9213.	9222.	9232.	9256.	9308.	9425.	9595.	9637.	9645.	9657.	9669.
PER Q=	6.3	3.5	4.4	3.9	4.4	3.3	3.9	3.3	4.7	3.6	4.9	3.2	
AREA=	119.1	44.6	51.3	50.0	75.7	85.9	131.5	109.1	86.3	43.2	61.2	47.4	
VEL=	2.9	4.3	4.8	4.3	3.2	2.1	1.6	1.6	3.0	4.6	4.4	3.7	
DEPTH=	1.8	5.0	5.7	5.0	3.2	1.7	1.1	.6	2.1	5.4	5.1	4.0	

STA=	9669.	9701.	9834.	9862.	9946.	9983.	10018.	10061.
PER Q=	3.2	4.7	5.0	4.2	6.9	26.1	.6	
AREA=	67.7	111.6	86.4	98.9	116.8	266.1	24.2	
VEL=	2.6	2.3	3.2	2.4	3.3	5.4	1.3	
DEPTH=	2.1	.8	3.1	1.2	3.2	7.6	.6	

*SECNO 22.273

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .54

22.273	7.26	1406.66	.00	.00	1407.38	.71	1.77	.15	1404.10
5500.0	1973.6	3526.4	.0	437.6	454.3	.0	737.9	157.2	1406.90
.90	4.51	7.76	.00	.045	.045	.000	.000	1399.40	9320.96
.006928	470.	570.	580.	2	0	0	.00	419.21	10027.44

FLOW DISTRIBUTION FOR SECNO= 22.27 CWSEL= 1406.66

STA=	9321.	9344.	9359.	9574.	9598.	9754.	9774.	9915.	9933.	10028.
PER Q=	4.7	5.4	3.4	4.9	3.1	6.8	3.1	4.5	64.1	
AREA=	48.7	48.9	64.5	55.6	64.2	62.5	46.1	47.1	454.3	
VEL=	5.3	6.0	2.9	4.8	2.7	6.0	3.7	5.2	7.8	
DEPTH=	2.1	3.3	.3	2.3	.4	3.1	.3	2.6	4.8	

*SECNO 22.410

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY

1

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3720 CRITICAL DEPTH ASSUMED

22.410	10.22	1414.22	1414.22	.00	1415.98	1.76	5.65	.31	1410.70
5500.0	768.3	4585.8	145.9	157.3	400.5	38.0	750.4	162.4	1411.30
.92	4.89	11.45	3.83	.045	.045	.045	.000	1404.00	9854.46
.008756	750.	723.	630.	3	11	0	.00	193.61	10066.88

FLOW DISTRIBUTION FOR SECNO= 22.41 CWSEL= 1414.22

STA=	9854.	9903.	9954.	9967.	9973.	10027.	10067.
PER Q=	3.5	3.7	4.4	2.4	83.4	2.7	
AREA=	55.7	43.9	38.0	19.6	400.5	38.0	
VEL=	3.5	4.6	6.3	6.8	11.5	3.8	
DEPTH=	1.1	.9	2.9	3.3	7.4	1.0	

*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 4.56

22.483	10.96	1416.46	.00	.00	1416.58	.12	.44	.16	1411.10
5500.0	301.1	4551.8	647.1	194.8	1523.7	375.4	762.3	164.7	1411.20
.95	1.55	2.99	1.72	.045	.045	.045	.000	1405.50	9874.91
.000421	380.	385.	390.	3	0	0	.00	325.09	10199.99

FLOW DISTRIBUTION FOR SECNO= 22.48 CWSEL= 1416.46

STA=	9875.	9891.	9915.	9941.	10105.	10120.	10138.	10156.	10175.	10191.	10200.
PER Q=	.2	1.6	3.7	82.8	2.4	2.2	2.1	2.6	2.1	.3	
AREA=	16.5	65.0	113.3	1523.7	70.6	72.1	69.4	79.9	66.5	16.9	
VEL=	.7	1.3	1.8	3.0	1.9	1.7	1.7	1.8	1.8	1.0	
DEPTH=	1.0	2.7	4.4	9.3	4.7	4.0	3.9	4.2	4.2	1.9	

*SECNO 22.500

3470 ENCROACHMENT STATIONS= 9775.0 10270.0 TYPE= 1 TARGET= -9775.000

22.500	10.74	1416.54	.00	.00	1416.64	.10	.06	.00	100000.00
5500.0	.0	4408.2	1091.8	.0	1659.5	544.0	767.3	165.6	1412.00
.97	.00	2.66	2.01	.000	.045	.045	.000	1405.80	9775.00
.000721	110.	103.	95.	2	0	0	.00	482.01	10257.01

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 22.50 CWSEL= 1416.54

STA=	9775.	10090.	10235.	10255.	10257.
PER Q=	80.1	19.2	.7	.0	
AREA=	1659.5	512.8	30.7	.5	
VEL=	2.7	2.1	1.2	.4	
DEPTH=	5.3	3.5	1.5	.3	

*SECNO 22.578

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .42

22.578	9.82	1416.52	.00	.00	1417.46	.94	.58	.25	1416.60

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   5500.        .1    5499.9       .0        .5     705.7       .0       0.6     168.3   1421.20
     .98       .27      7.79      .00      .045      .045      .000      .000   1406.70   9956.37
  .004186      415.     400.      395.        2         0         0       .00    104.10  10064.48

FLOW DISTRIBUTION FOR SECNO=     22.58          CWSEL=   1416.52

STA=    9956.    9964.   10072.
  PER Q=       .0    100.0
   AREA=       .4    705.7
    VEL=       .3      7.8
  DEPTH=       .0      7.3

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.54

   22.675      8.40   1418.10       .00       .00   1418.23       .13       .68       .08   1419.80
   5500.0        .0    5500.0        .0        .0    1884.8        .0     795.8     170.6   1420.00
     1.03       .00      2.92       .00      .000      .045      .000      .000   1409.70   9740.26
  .000649      570.     512.      480.         2         0         0       .00    288.30  10028.56
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   SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
   Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
   TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
   SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

FLOW DISTRIBUTION FOR SECNO=     22.67          CWSEL=   1418.10

STA=    9740.   10032.
  PER Q=    100.0
   AREA=   1884.8
    VEL=      2.9
  DEPTH=      6.5

*SECNO 22.794

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .51

   22.794      7.92   1418.62       .00       .00   1419.03       .41       .71       .08   1417.80
   5500.0       1.6    5390.7     107.7       1.8    1041.3      43.6     817.2     174.2   1416.10
     1.06       .90      5.18      2.47      .045      .045      .045      .000   1410.70   9978.60
  .002501      460.     628.      500.         2         0         0       .00    216.35  10194.96

FLOW DISTRIBUTION FOR SECNO=     22.79          CWSEL=   1418.62

STA=    9979.    9983.   10169.   10189.   10195.
  PER Q=       .0     98.0      1.9       .1
   AREA=      1.8   1041.3     39.4      4.2
    VEL=       .9      5.2      2.6      1.3
  DEPTH=       .4      5.6      2.0       .7

*SECNO 22.880
   22.880      7.06   1420.06       .00       .00   1420.64       .57      1.56       .05   1426.40
   5500.0        .0    5500.0        .0        .0     905.2        .0     827.6     176.4   1424.20
     1.08       .00      6.08       .00      .000      .045      .000      .000   1413.00   9952.07
  .005005      440.     454.      480.         2         0         0       .00    211.85  10163.92
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FLOW DISTRIBUTION FOR SECNO=     22.88          CWSEL=   1420.06

STA=    9952.   10167.
  PER Q=    100.0
   AREA=    905.2
    VEL=      6.1
  DEPTH=      4.3
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 22.990
    22.990      5.73   1423.63       .00       .00   1424.25       .62      3.60       .01   1425.40
    5500.0        .0    5500.0        .0        .0     868.5        .0     839.4     179.7   1427.90
      1.11       .00      6.33       .00      .000      .045      .000      .000   1417.90   9754.11
   .007876      480.      581.      530.         3         0         0       .00    272.02  10026.13

FLOW DISTRIBUTION FOR SECNO=     22.99          CWSEL=   1423.63

STA=    9754.   10034.
  PER Q=    100.0
   AREA=    868.5
    VEL=      6.3
  DEPTH=      3.2

*SECNO 23.097

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    23.097      4.79   1429.89   1429.89       .00   1431.46      1.57      6.51       .28   1432.30
    5500.0      38.7    5461.3        .0      13.4     541.4        .0     848.7     182.7   1430.80
      1.12      2.89     10.09       .00      .045      .045      .000      .000   1425.10   9899.16
   .018401      640.      565.      490.        10        11         0       .00    186.83  10117.43

FLOW DISTRIBUTION FOR SECNO=     23.10          CWSEL=   1429.89

STA=    9899.    9916.    9925.    9927.   10121.
  PER Q=       .4       .3       .0     99.3
   AREA=      8.3      4.8       .2    541.4
    VEL=      2.9      3.0      1.2     10.1
  DEPTH=       .5       .5       .1      3.4
```



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T1      MIDDLE CAVE CREEK FLOODPLAIN DELINEATION STUDY, ACDC TO DAM
T2      FLOOD CONTROL DISTRICT OF MARICOPA COUNTY 1989 BY BURGESS & NIPLE
T3      CAVE CREEK WASH          FLOODWAY        J.MISCHLER

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ
```

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                3.                                                                          1284.69

J2  NPROF        IPLOT       PRFVS       XSECV       XSECH       FN         ALLDC       IBW         CHNIM       ITRACE

    15.                      -1.
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    SECNO       DEPTH       CWSEL       CRIWS       WSELK       EG         HV          HL          OLOSS       L-BANK ELEV
    Q           QLOB        QCH         QROB        ALOB        ACH        AROB        VOL         TWA         R-BANK ELEV
    TIME        VLOB        VCH         VROB        XNL         XNCH       XNR         WTN         ELMIN       SSTA
    SLOPE       XLOBL       XLCH        XLOBR       ITRIAL      IDC        ICONT       CORAR       TOPWID      ENDST


 *PROF 2
0

 CCHV=      .100 CEHV=      .300
 *SECNO 17.588
  2800 NAT Q1=    5622.52  WSELK=    1283.69  ENC Q1=    5622.52  WSEL=    1284.69  RATIO=    .0000
  NAT Q1=    6698.  RATIOS LOB, CH, ROB=    .2409    .7347    .0244  WSEL=    1284.69

 3470 ENCROACHMENT STATIONS=      9855.2   10193.0  TYPE=       4  TARGET=          .161
     17.588      15.09    1284.69        .00    1283.69    1285.08        .39         .00         .00    1278.10
    15400.0     1964.8    13435.2         .0      646.6     2548.7         .0          .0          .0    1276.40
        .00       3.04       5.27        .00       .040       .040       .000        .000     1269.60    9855.24
    .000784       440.       496.       560.          0          0          0         .00      337.76   10193.00

 *SECNO 17.662

 3301 HV CHANGED MORE THAN HVINS


 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =    .54


 3470 ENCROACHMENT STATIONS=      9900.0   10150.0  TYPE=       1  TARGET=       250.000
     17.662      13.21    1284.81        .00    1283.82    1285.77        .96         .51         .17    1276.40
    15400.0     2238.0    13039.2      122.7      318.6     1628.5       41.0        23.1         2.6    1281.60
        .01       7.02       8.01       2.99       .040       .040       .040        .000     1271.60    9900.00
    .002664       380.       391.       400.          2          0          0         .00      250.00   10150.00

 *SECNO 17.783
  2800 NAT Q1=    1848.70  WSELK=    1285.58  ENC Q1=    2096.47  WSEL=    1286.58  RATIO=   -.1340
  NAT Q1=    2292.  RATIOS LOB, CH, ROB=    .0251    .9148    .0601  WSEL=    1286.58

 3301 HV CHANGED MORE THAN HVINS


 3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =    .64


 3470 ENCROACHMENT STATIONS=      9921.0   10064.0  TYPE=       4  TARGET=          .085
     17.783      10.97    1286.37        .00    1285.58    1288.65       2.28        2.49         .40    1280.50
    15400.0         .0    15400.0         .0         .0     1271.4         .0        46.6         5.4    1281.10
        .03        .00      12.11        .00       .000       .040       .000        .000     1275.40    9921.00
    .006431       540.       639.       500.          2          0          0         .00      143.00   10064.00
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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 17.932
 2800 NAT Q1=    1583.93  WSELK=    1290.98  ENC Q1=    1874.27  WSEL=    1291.98  RATIO=   -.1833
 NAT Q1=    1919.  RATIOS LOB, CH, ROB=    .0153   .9768   .0079  WSEL=    1291.98

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9956.0   10066.0  TYPE=      4  TARGET=         .023
    17.932     13.51   1291.41       .00   1290.98   1294.76      3.36      5.79       .32   1289.70
   15400.0        .0   15400.0        .0        .0    1047.0        .0      67.6       7.7   1290.20
       .04       .00     14.71       .00      .000      .040      .000      .000   1277.90   9956.00
   .008488      790.      787.      780.         2         0         0       .00    110.00  10066.00


CCHV=     .300 CEHV=     .500
*SECNO 18.042
 2800 NAT Q1=    2422.94  WSELK=    1294.31  ENC Q1=    2802.31  WSEL=    1295.31  RATIO=   -.1566
 NAT Q1=    2802.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1295.31

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.48


3470 ENCROACHMENT STATIONS=     9951.0   10049.0  TYPE=      4  TARGET=         .000
    18.042     12.13   1294.43       .00   1294.31   1298.17      3.74      3.22       .19   1357.40
   15400.0        .0   15400.0        .0        .0     992.5        .0      81.2       9.1   1307.40
       .05       .00     15.52       .00      .000      .025      .000      .000   1282.30   9951.60
   .003893      620.      581.      550.         2         0         0       .00     96.78  10048.38


SPECIAL BRIDGE

SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.05       1.56       3.00        .00     75.00       4.00    1059.00       .81    1280.20    1279.90

*SECNO 18.061
BTCARD, BRIDGE STENCL=    9951.00   STENCR=   10049.00
 2800 NAT Q1=    2933.00  WSELK=    1296.44  ENC Q1=    3334.23  WSEL=    1297.44  RATIO=   -.1368
 NAT Q1=    3334.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1297.44

3301 HV CHANGED MORE THAN HVINS

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   18APR06      16:00:22                                                                                PAGE   59

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

PRESSURE FLOW

 EGPRS      EGLWC      H3         QWEIR      QPR        BAREA      TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                     AREA
   1299.55    1299.06      1.10         0.    15400.      1059.      1060.     1293.20    1301.60         0.
```

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3470 ENCROACHMENT STATIONS=     9951.0   10049.0  TYPE=      4  TARGET=          .000
    18.061     13.59   1296.69       .00   1296.44   1299.55      2.86      1.38       .00   1358.20
   15400.0        .0   15400.0        .0        .0    1133.8        .0      83.6       9.3   1308.20
       .06       .00     13.58       .00      .000      .025      .000      .000   1283.10   9951.53
   .002582      101.      101.      101.         3         0         0       .00     96.91  10048.45

*SECNO 18.081

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.96

3470 ENCROACHMENT STATIONS=     9900.0   10085.0  TYPE=      1  TARGET=      185.000
    18.081     18.51   1299.61       .00   1299.54   1300.32       .71       .13       .65   1286.60
   15400.0    1220.6   12608.4    1571.0     308.4    1745.1     357.6      88.0       9.7   1284.90
       .06      3.96      7.22      4.39      .035      .035      .035      .000   1281.10   9900.00
   .000671       80.      106.      130.         3         0         0       .00    185.00  10085.00

CCHV=     .100 CEHV=     .300
*SECNO 18.174

3470 ENCROACHMENT STATIONS=     9857.0   10125.0  TYPE=      1  TARGET=      268.000
    18.174     18.48   1300.18       .00   1300.22   1300.63       .45       .28       .03   1288.70
   15400.0    1800.2   13116.1     483.8     472.7    2324.4     213.2     118.6      12.2   1294.60
       .09      3.81      5.64      2.27      .035      .035      .035      .000   1281.70   9857.02
   .000485      500.      491.      490.         2         0         0       .00    267.98  10125.00

*SECNO 18.269
1
   18APR06      16:00:22                                                                          PAGE    60

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

3470 ENCROACHMENT STATIONS=     9882.2   10110.0  TYPE=      1  TARGET=      227.800
    18.269     16.50   1300.30       .00   1300.17   1301.04       .74       .32       .09   1288.40
   15400.0    2281.3   12415.2     703.5     452.7    1691.6     205.0     149.4      15.1   1292.40
       .11      5.04      7.34      3.43      .035      .035      .035      .000   1283.80   9882.20
   .000870      500.      502.      500.         2         0         0       .00    227.80  10110.00

*SECNO 18.362

3470 ENCROACHMENT STATIONS=     9895.6   10107.8  TYPE=      1  TARGET=      212.200
    18.362     15.34   1300.64       .00   1300.54   1301.60       .95       .50       .06   1290.00
   15400.0    1169.8   13188.3    1041.9     244.9    1597.1     244.2     174.5      17.6   1290.60
       .12      4.78      8.26      4.27      .035      .035      .035      .000   1285.30   9895.60
   .001186      490.      491.      510.         1         0         0       .00    212.20  10107.80

*SECNO 18.445

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
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3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9885.0 10110.0 TYPE= 1 TARGET= 225.000

18.445	17.61	1304.91	1304.91	1305.39	1307.77	2.86	1.00	.57	1290.00
15400.0	5150.6	4076.3	6173.1	519.2	211.4	537.3	191.9	19.8	1290.00
.13	9.92	19.29	11.49	.035	.035	.035	.000	1287.30	9888.33
.005594	470.	440.	460.	20	11	0	.00	221.67	10110.00

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	2.34	3.00	.00	6.11	1.00	33.20	.00	1287.70	1287.40

*SECNO 18.456
BTCARD, BRIDGE STENCL= 9885.00 STENCR= 10110.00

3301 HV CHANGED MORE THAN HVINS

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.86

PRESSURE AND WEIR FLOW, Weir Submergence Based on TRAPEZOIDAL Shape

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
9122.90	1309.51	1.74	15031.	376.	33.	33.	1294.20	1299.50	225.

3470 ENCROACHMENT STATIONS= 9885.0 10110.0 TYPE= 1 TARGET= 225.000

18.456	20.82	1308.52	.00	1307.31	1309.57	1.05	1.80	.00	1290.40
15400.0	5931.9	2952.3	6515.8	862.2	253.1	874.7	194.1	20.2	1290.40
.14	6.88	11.66	7.45	.035	.035	.035	.000	1287.70	9885.00
.001609	60.	60.	60.	3	0	7	.00	225.00	10110.00

*SECNO 18.545

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 2.19

3470 ENCROACHMENT STATIONS= 9881.4 10169.8 TYPE= 1 TARGET= 288.399

18.545	20.26	1309.56	.00	1308.28	1309.93	.37	.29	.07	1294.10
15400.0	1923.3	10840.1	2636.6	584.0	1994.2	825.5	222.8	22.9	1293.80
.16	3.29	5.44	3.19	.035	.035	.035	.000	1289.30	9881.40
.000334	440.	466.	480.	2	0	0	.00	288.40	10169.80

*SECNO 18.575

3470 ENCROACHMENT STATIONS= 9880.7 10170.8 TYPE= 1 TARGET= 290.100

```
 18.575     20.37   1309.67       .00   1308.43   1309.99       .32       .05       .00   1291.50
15400.0    3707.2    3015.7    8677.1     946.3     545.8    1943.6     235.4      23.9   1289.70
    .17      3.92      5.53      4.46      .035      .035      .035      .000   1289.30   9880.70
.000325      160.      160.      160.         2         0         0       .00    290.10  10170.80
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


SPECIAL BRIDGE

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00       .00     10.40      1.00     56.50       .00   1289.40   1289.30

*SECNO 18.583
BTCARD, BRIDGE STENCL=    9876.10   STENCR=   10177.20
PRESSURE AND WEIR FLOW,  Weir Submergence Based on TRAPEZOIDAL Shape

 EGPRS     EGLWC     H3        QWEIR     QPR       BAREA     TRAPEZOID     ELLC      ELTRD     WEIRLN
                                                             AREA
 3109.30   1310.06     .06     15166.     309.       57.       56.      1295.40   1299.00     290.


3470 ENCROACHMENT STATIONS=     9876.1   10177.2  TYPE=      1  TARGET=      301.101
   18.583     20.69   1310.09       .00   1309.50   1310.39       .31       .40       .00   1291.60
 15400.0    3739.8    2983.7    8676.5     980.5     554.7    2005.0     238.6      24.2   1289.80
     .17      3.81      5.38      4.33      .035      .035      .035      .000   1289.40   9876.10
 .000301       40.       40.       40.         2         0         8       .00    301.10  10177.20

*SECNO 18.640

3470 ENCROACHMENT STATIONS=     9879.6   10134.7  TYPE=      1  TARGET=      255.101
   18.640     19.82   1310.02       .00   1309.43   1310.59       .57       .12       .08   1294.60
 15400.0    2433.4    9638.4    3328.3     557.4    1397.4     771.3     260.5      26.2   1293.40
     .19      4.37      6.90      4.32      .035      .035      .035      .000   1290.20   9879.60
 .000567      300.      301.      310.         2         0         0       .00    255.10  10134.70

*SECNO 18.734

3470 ENCROACHMENT STATIONS=     9883.2   10111.7  TYPE=      1  TARGET=      228.500
   18.734     17.84   1310.24       .00   1309.68   1310.99       .75       .34       .05   1298.60
 15400.0    1412.7   13301.7     685.5     334.5    1817.1     202.6     289.4      28.9   1300.80
     .21      4.22      7.32      3.38      .035      .035      .035      .000   1292.40   9883.20
 .000841      490.      496.      500.         0         0         0       .00    228.50  10111.70

*SECNO 18.832

3470 ENCROACHMENT STATIONS=     9891.8   10107.0  TYPE=      1  TARGET=      215.200
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SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
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TIME SLOPE	VLOB XLOBL	VCH XLCH	VROB XLOBR	XNL ITRIAL	XNCH IDC	XNR ICONT	WTN CORAR	ELMIN TOPWID	SSTA ENDST
18.832	17.46	1310.66	.00	1310.19	1311.44	.78	.44	.01	1302.80
15400.0	497.2	12812.5	2090.3	155.5	1713.0	426.4	317.0	31.5	1297.10
.23	3.20	7.48	4.90	.035	.035	.035	.000	1293.20	9891.80
.000880	480.	517.	540.	2	0	0	.00	215.20	10107.00

*SECNO 18.925

3470 ENCROACHMENT STATIONS= 9887.7 10087.5 TYPE= 1 TARGET= 199.800

18.925	16.45	1311.05	.00	1310.64	1311.94	.89	.46	.03	1297.60
15400.0	1782.2	12651.3	966.5	370.2	1567.8	226.4	342.1	33.9	1300.00
.25	4.81	8.07	4.27	.035	.035	.035	.000	1294.60	9887.70
.001019	480.	491.	500.	2	0	0	.00	199.80	10087.50

*SECNO 19.018

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .63

3470 ENCROACHMENT STATIONS= 9866.3 10038.5 TYPE= 1 TARGET= 172.200

19.018	13.66	1311.26	.00	1310.89	1312.92	1.66	.75	.23	1305.10
15400.0	558.1	14803.5	38.4	120.2	1408.9	13.8	362.9	36.0	1308.40
.26	4.64	10.51	2.79	.035	.035	.035	.000	1297.60	9866.30
.002537	460.	491.	520.	2	0	0	.00	172.20	10038.50

*SECNO 19.117

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9942.1 10061.9 TYPE= 1 TARGET= 119.801

19.117	14.08	1312.68	1312.68	1312.49	1316.84	4.15	1.97	.75	1302.90
15400.0	1457.2	11826.8	2116.0	154.6	662.8	205.2	378.3	37.7	1301.50
.27	9.42	17.84	10.31	.035	.035	.035	.000	1298.60	9942.10
.006175	490.	523.	560.	20	8	0	.00	119.80	10061.90

SECNO Q TIME SLOPE	DEPTH QLOB VLOB XLOBL	CWSEL QCH VCH XLCH	CRIWS QROB VROB XLOBR	WSELK ALOB XNL ITRIAL	EG ACH XNCH IDC	HV AROB XNR ICONT	HL VOL WTN CORAR	OLOSS TWA ELMIN TOPWID	L-BANK ELEV R-BANK ELEV SSTA ENDST

*SECNO 19.210

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.54

3470 ENCROACHMENT STATIONS= 9923.1 10081.0 TYPE= 1 TARGET= 157.900

19.210	16.90	1317.10	.00	1317.19	1318.95	1.85	1.88	.23	1312.00
15400.0	219.5	14969.9	210.6	55.2	1353.6	53.1	392.3	39.3	1312.00
.28	3.97	11.06	3.97	.035	.035	.035	.000	1300.20	9923.33
.002610	500.	491.	490.	3	0	0	.00	157.49	10080.82

CCHV= .300 CEHV= .500
*SECNO 19.283

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1324.00 ELREA= 1324.00

19.283	8.22	1319.92	1319.92	1319.92	1324.04	4.13	1.67	1.14	1311.70
14600.0	.0	14600.0	.0	.0	895.7	.0	402.8	40.5	1311.70
.29	.00	16.30	.00	.000	.035	.000	.000	1311.70	9948.00
.008889	390.	386.	390.	20	11	0	.00	109.00	10057.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1318.71 , NOT 1319.92 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	.90	1.56	3.00	.00	109.00	4.50	1304.00	.00	1311.70	1311.70

*SECNO 19.299

3301 HV CHANGED MORE THAN HVINS

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.47

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1320.16 BRIDGE VELOCITY= 16.51 CALCULATED CHANNEL AREA= 884.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1322.95	1324.65	.00	0.	14600.	1304.	1306.	1324.20	1326.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1325.00 ELREA= 1325.00

19.299	10.36	1322.06	.00	1322.06	1324.65	2.60	.61	.00	1311.70
14600.0	.0	14600.0	.0	.0	1128.7	.0	404.8	40.7	1311.70
.29	.00	12.94	.00	.000	.035	.000	.000	1311.70	9948.00
.004112	86.	86.	86.	0	0	0	.00	109.00	10057.00

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*SECNO 19.313
 2800 NAT Q1=    2287.58  WSELK=    1323.31  ENC Q1=    2700.20  WSEL=    1324.31  RATIO=   -.1804
 NAT Q1=    2700.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1324.31

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     9932.0   10112.0  TYPE=      4  TARGET=         .000
    19.313     11.60   1323.30       .00   1323.31   1325.17      1.87       .30       .22   1327.90
   14600.0        .0   14600.0        .0        .0    1330.4        .0     406.9      40.9   1325.50
       .29       .00     10.97       .00      .000      .035      .000      .000   1311.70   9944.35
   .004078       75.       74.       75.         4         0         0       .00    159.64  10103.99

CCHV=     .100 CEHV=     .300
*SECNO 19.418
 2800 NAT Q1=    2296.67  WSELK=    1325.59  ENC Q1=    2729.66  WSEL=    1326.59  RATIO=   -.1885
 NAT Q1=    2731.  RATIOS LOB, CH, ROB=    .0000   .9994   .0006  WSEL=    1326.59

3470 ENCROACHMENT STATIONS=     9948.0   10120.0  TYPE=      4  TARGET=         .001
    19.418     12.59   1325.59       .00   1325.59   1327.43      1.83      2.25       .00   1328.00
   14600.0        .0   14600.0        .0        .0    1343.4        .0     423.9      42.9   1326.10
       .31       .00     10.87       .00      .000      .035      .000      .000   1313.00   9955.11
   .004041      570.      554.      530.         3         0         0       .00    162.69  10117.80
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 19.560
 2800 NAT Q1=    2508.10  WSELK=    1328.21  ENC Q1=    2890.11  WSEL=    1329.21  RATIO=   -.1523
 NAT Q1=    2890.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1329.21

3470 ENCROACHMENT STATIONS=     9929.0   10065.0  TYPE=      4  TARGET=         .000
    19.560     12.61   1328.21       .00   1328.21   1330.15      1.93      2.69       .03   1329.70
   14600.0        .0   14600.0        .0        .0    1308.0        .0     446.0      45.4   1330.60
       .33       .00     11.16       .00      .000      .035      .000      .000   1315.60   9931.37
   .003382      730.      729.      720.         2         0         0       .00    129.63  10060.99

CCHV=     .300 CEHV=     .500
*SECNO 19.625
 2800 NAT Q1=    3892.33  WSELK=    1329.89  ENC Q1=    4433.23  WSEL=    1330.89  RATIO=   -.1390
 NAT Q1=    4433.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1330.89

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=     9965.0   10025.0  TYPE=      4  TARGET=         .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=     1332.00 ELREA=     1332.00

    19.625     12.35   1329.95       .00   1329.89   1330.87       .92       .42       .30   1317.60
    5700.0        .0    5700.0        .0        .0     741.2        .0     454.6      46.2   1317.60
       .34       .00      7.69       .00      .000      .015      .000      .000   1317.60   9965.00
   .000271      580.      364.       70.         3         0         0       .00     60.00  10025.00

SPECIAL BRIDGE
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SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.05      1.56      3.00    100.00     60.00      2.00    564.00       .00   1318.60   1317.60

*SECNO 19.691
 2800 NAT Q1=    4235.58  WSELK=    1331.53  ENC Q1=    4792.54  WSEL=    1332.53  RATIO=   -.1315
 NAT Q1=    4793.  RATIOS LOB, CH, ROB=    .0000  1.0000   .0000  WSEL=    1332.53
PRESSURE FLOW
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST


 EGPRS     EGLWC     H3       QWEIR     QPR       BAREA   TRAPEZOID     ELLC      ELTRD     WEIRLN
                                                            AREA
  1332.43   1331.10      .08       0.     5700.      564.     563.     1328.30   1334.80       0.


3470 ENCROACHMENT STATIONS=     9965.0   10025.0  TYPE=      4  TARGET=        .000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1333.00 ELREA=      1333.00

    19.691     13.00   1331.60       .00   1331.53   1332.43       .83      1.56       .00   1318.60
    5700.0       .0    5700.0        .0        .0     780.3        .0     460.7      46.7   1318.60
       .35       .00      7.30       .00      .000      .015      .000      .000   1318.60   9965.00
   .000231      330.      350.      430.         2         0         0       .00     60.00  10025.00


*SECNO 19.742

3470 ENCROACHMENT STATIONS=     9953.0   10038.0  TYPE=      1  TARGET=       85.000
    19.742     12.93   1332.03       .00   1331.99   1332.57       .54       .05       .09 100000.00
    5700.0       .0    5700.0        .0        .0     969.0        .0     466.1      47.1 100000.00
       .36       .00      5.88       .00      .000      .015      .000      .000   1319.10   9953.00
   .000167       80.      269.      470.         2         0         0       .00     85.00  10038.00


CCHV=     .100 CEHV=     .300
*SECNO 19.847

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .36


3470 ENCROACHMENT STATIONS=     9957.0   10043.0  TYPE=      1  TARGET=       86.000
    19.847     13.34   1332.14       .00   1332.14   1332.81       .67       .20       .04 100000.00
    5700.0       .0    5700.0        .0        .0     868.5        .0     477.8      48.2 100000.00
       .39       .00      6.56       .00      .000      .035      .000      .000   1318.80   9957.00
   .001291      570.      554.      520.         0         0         0       .00     86.00  10043.00


*SECNO 19.960

3301 HV CHANGED MORE THAN HVINS
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
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Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .37

3470 ENCROACHMENT STATIONS= 9958.0 10031.0 TYPE= 1 TARGET= 73.000

19.960	7.83	1332.43	.00	1332.37	1335.03	2.60	1.64	.58	1330.00
5700.0	.0	5700.0	.0	.0	440.5	.0	486.8	49.3	100000.00
.40	.00	12.94	.00	.000	.035	.000	.000	1324.60	9958.00
.009425	640.	597.	560.	2	0	0	.00	73.00	10031.00

CCHV= .300 CEHV= .500
*SECNO 19.974

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.49

3470 ENCROACHMENT STATIONS= 9969.0 10020.0 TYPE= 1 TARGET= 51.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1336.00 ELREA= 1336.00

19.974	9.87	1333.67	.00	1333.31	1335.66	1.99	.45	.18	1323.80
5700.0	.0	5700.0	.0	.0	503.0	.0	487.6	49.4	100000.00
.40	.00	11.33	.00	.000	.035	.000	.000	1323.80	9969.00
.004262	105.	74.	65.	3	0	0	.00	51.00	10020.00

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	.00	51.00	3.00	480.00	.00	1324.10	1323.80

*SECNO 19.986
BTCARD, BRIDGE STENCL= 9969.00 STENCR= 10020.00

3301 HV CHANGED MORE THAN HVINS

PRESSURE FLOW

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1337.08	1336.16	.79	0.	5700.	480.	480.	1334.10	1337.90	0.

3470 ENCROACHMENT STATIONS= 9969.0 10020.0 TYPE= 1 TARGET= 51.000

3495 OVERB AREA ASSUMED NON-EFFECTIVE, ELLEA= 1337.00 ELREA= .00

19.986	11.92	1335.72	.00	1335.25	1337.08	1.37	1.42	.00	1323.80
5700.0	.0	5700.0	.0	.0	607.9	.0	488.4	49.5	100000.00
.40	.00	9.38	.00	.000	.035	.000	.000	1323.80	9969.00
.002370	61.	61.	61.	3	0	0	.00	51.00	10020.00

*SECNO 20.049

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9975.0 10025.0 TYPE= 1 TARGET= 50.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1340.00 ELREA= 100000.00

20.049	11.10	1338.20	1338.20	1338.35	1341.96	3.76	1.48	1.20	100000.00
5700.0	.0	5700.0	.0	.0	366.4	.0	492.1	49.9	100000.00
.41	.00	15.56	.00	.000	.035	.000	.000	1327.10	9975.00
.011186	305.	333.	345.	20	11	0	.00	49.93	10024.93

CCHV= .100 CEHV= .300
*SECNO 20.144

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.73

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9972.0 10029.0 TYPE= 1 TARGET= 57.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1344.00 ELREA= 1340.80

20.144	12.48	1343.38	.00	1343.48	1345.17	1.79	3.01	.20	100000.00
5700.0	.0	5671.1	28.9	.0	526.6	9.6	497.3	50.5	1340.80
.42	.00	10.77	3.02	.000	.035	.040	.000	1330.90	9972.00
.003733	490.	502.	500.	2	0	0	.00	57.00	10029.00

*SECNO 20.242

3470 ENCROACHMENT STATIONS= 9964.0 10035.0 TYPE= 1 TARGET= 71.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1348.00 ELREA= 1342.80

20.242	12.21	1345.51	.00	1345.49	1347.16	1.65	1.98	.01	100000.00
5700.0	.0	5645.3	54.7	.0	545.7	15.7	503.8	51.2	1342.80
.44	.00	10.35	3.49	.000	.035	.040	.000	1333.30	9964.00
.003905	470.	517.	560.	3	0	0	.00	71.00	10035.00

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*SECNO 20.335

3470 ENCROACHMENT STATIONS=     9963.0   10036.0  TYPE=      1  TARGET=       73.000
    20.335     10.24   1347.54       .00   1347.44   1348.79      1.25      1.59       .04 100000.00
    5700.0        .0    5672.0      28.0        .0     630.1      10.2     510.6      52.0   1344.00
       .45       .00      9.00      2.76      .000      .035      .040      .000   1337.30   9963.00
   .002739      510.      491.      470.         2         0         0       .00     73.00  10036.00


CCHV=     .300 CEHV=     .500
*SECNO 20.347

3301 HV CHANGED MORE THAN HVINS


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1351.50 ELREA=      1351.50

    20.347     10.22   1347.42       .00   1347.24   1349.28      1.86       .18       .30   1337.20
    5700.0        .0    5700.0        .0        .0     521.2        .0     511.4      52.1   1337.20
       .45       .00     10.94       .00      .000      .035      .000      .000   1337.20   9970.00
   .002991        1.       63.      150.         2         0         0       .00     51.00  10021.00


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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


SPECIAL BRIDGE

SB  XK         XKOR       COFQ       RDLEN      BWC        BWP        BAREA      SS         ELCHU      ELCHD
     1.25       1.56       3.00     100.00      51.00       3.00     576.00        .00   1337.70    1337.20

*SECNO 20.366
PRESSURE FLOW


 EGPRS      EGLWC      H3         QWEIR      QPR        BAREA      TRAPEZOID      ELLC       ELTRD      WEIRLN
                                                                     AREA
   1349.79    1349.73       .68         0.      5700.       576.       576.     1349.70    1354.50         0.


3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1352.50 ELREA=      1352.50

    20.366     10.98   1348.18       .00   1347.97   1349.79      1.61       .52       .00   1337.20
    5700.0        .0    5700.0        .0        .0     560.2        .0     512.7      52.3   1337.20
       .46       .00     10.17       .00      .000      .035      .000      .000   1337.20   9970.00
   .002352      100.      100.      100.         3         0         0       .00     51.00  10021.00


*SECNO 20.423

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=     9958.0   10072.0  TYPE=      1  TARGET=      114.000
    20.423     11.71   1349.71       .00   1349.57   1350.61       .91       .61       .21   1345.00
    5700.0     107.1    5250.9     342.0      39.5     665.4      90.5     517.3      52.8   1344.30
       .47      2.71      7.89      3.78      .040      .035      .040      .000   1338.00   9958.20
   .001788      415.      301.      205.         3         0         0       .00    113.80  10072.00
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*SECNO 20.430

3301 HV CHANGED MORE THAN HVINS

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1352.50 ELREA= 1352.50

20.430	9.97	1349.27	.00	1349.13	1351.22	1.95	.09	.52	1339.30
5700.0	.0	5700.0	.0	.0	508.8	.0	517.9	52.9	1339.30
.47	.00	11.20	.00	.000	.035	.000	.000	1339.30	9985.00
.003242	1.	37.	65.	2	0	0	.00	51.00	10036.00

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	3.00	100.00	51.00	3.00	576.00	.00	1339.30	1339.30

*SECNO 20.444
CLASS A LOW FLOW

3420 BRIDGE W.S.= 1348.77 BRIDGE VELOCITY= 12.54 CALCULATED CHANNEL AREA= 455.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1351.64	1351.71	.75	0.	5700.	576.	576.	1351.30	1355.50	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1353.50 ELREA= 1353.50

20.444	10.72	1350.02	.00	1349.92	1351.71	1.69	.49	.00	1339.30
5700.0	.0	5700.0	.0	.0	546.8	.0	518.7	53.0	1339.30
.47	.00	10.43	.00	.000	.035	.000	.000	1339.30	9985.00
.002550	70.	70.	70.	0	0	0	.00	51.00	10036.00

*SECNO 20.529

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9930.0 10069.0 TYPE= 1 TARGET= 139.000

20.529	9.24	1352.24	.00	1352.25	1353.01	.77	1.02	.28	1350.20
5700.0	79.8	5564.0	56.2	32.8	783.6	24.7	525.9	54.0	1350.40
.49	2.44	7.10	2.28	.040	.035	.040	.000	1343.00	9930.00
.002052	545.	449.	375.	3	0	0	.00	139.00	10069.00

CCHV= .100 CEHV= .300
*SECNO 20.628

3470 ENCROACHMENT STATIONS= 9935.0 10065.0 TYPE= 1 TARGET= 130.000

20.628	10.04	1353.34	.00	1353.31	1353.79	.45	.75	.03	100000.00

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   5700.0        .0    5700.0        .0        .0    1059.1        .0     537.3      55.6 100000.00
      .52       .00      5.38       .00      .000      .035      .000      .000   1343.30   9935.00
  .001054      530.      523.      520.         2         0         0       .00    130.00  10065.00
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 20.725

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9962.0   10026.0  TYPE=      1  TARGET=       64.000
   20.725      8.74   1355.94   1355.94   1356.04   1359.12      3.18      1.26       .82 100000.00
   5700.0        .0    5700.0        .0        .0     398.2        .0     545.9      56.7 100000.00
      .53       .00     14.31       .00      .000      .035      .000      .000   1347.20   9962.00
  .011046      510.      512.      520.        20        15         0       .00     64.00  10026.00

CCHV=     .300 CEHV=     .500
*SECNO 20.737
3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1363.00 ELREA=      1363.00

   20.737      7.30   1358.20   1358.20   1358.17   1361.84      3.64       .80       .23   1350.90
   5700.0        .0    5700.0        .0        .0     372.1        .0     546.6      56.8   1350.90
      .53       .00     15.32       .00      .000      .035      .000      .000   1350.90   9968.00
  .009201       80.       80.       80.        20        11         0       .00     51.00  10019.00


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS    1356.93 , NOT    1358.20 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      3.00    100.00     51.00      3.00    576.00       .00   1351.00   1350.90

*SECNO 20.750

3301 HV CHANGED MORE THAN HVINS


3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.58
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   SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
   Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
   TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
   SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST
```

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1358.54 BRIDGE VELOCITY= 15.64 CALCULATED CHANNEL AREA= 362.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
.00	1362.70	.00	0.	5700.	576.	576.	1363.00	1366.00	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1364.00 ELREA= 1364.00

20.750	9.60	1360.60	.00	1360.60	1362.70	2.11	.86	.00	1351.00
5700.0	.0	5700.0	.0	.0	489.5	.0	547.3	56.9	1351.00
.53	.00	11.64	.00	.000	.035	.000	.000	1351.00	9968.00
.003686	71.	71.	71.	0	0	0	.00	51.00	10019.00

*SECNO 20.819

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .67

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1366.90 ELREA= 1366.90

20.819	5.87	1362.37	.00	1362.37	1364.78	2.41	1.92	.15	1356.50
5700.0	.0	5700.0	.0	.0	457.7	.0	551.2	57.4	1356.50
.54	.00	12.45	.00	.000	.035	.000	.000	1356.50	9965.00
.008131	375.	365.	345.	3	0	0	.00	78.00	10043.00

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1361.20 , NOT 1362.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.05	1.56	3.00	100.00	77.30	3.30	655.00	.00	1357.40	1356.50

*SECNO 20.841

3301 HV CHANGED MORE THAN HVINS

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

CLASS B LOW FLOW

3420 BRIDGE W.S.= 1362.64 BRIDGE VELOCITY= 13.54 CALCULATED CHANNEL AREA= 388.

EGPRS	EGLWC	H3	QWEIR	QLOW	BAREA	TRAPEZOID AREA	ELLC	ELTRD	WEIRLN
1364.20	1366.08	.00	0.	5700.	655.	592.	1365.40	1369.90	0.

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 1367.90 ELREA= 1367.90

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   20.841      6.98   1364.38       .00   1364.38   1366.08      1.70      1.31       .00   1357.40
   5700.0        .0    5700.0        .0        .0     544.7        .0     552.6      57.6   1357.40
      .54       .00     10.46       .00      .000      .035      .000      .000   1357.40   9965.00
  .004551      115.      115.      115.         0         0         0       .00     78.00  10043.00

*SECNO 20.860

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  1.51

3470 ENCROACHMENT STATIONS=     9904.0   10060.0  TYPE=      1  TARGET=      156.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1365.30 ELREA=      1367.60

   20.860      9.64   1365.94       .00   1365.98   1366.67       .72       .29       .29   1365.30
   5700.0      26.8    5673.2        .0      22.9     828.9        .0     554.2      57.9 100000.00
      .54      1.17      6.84       .00      .040      .035      .000      .000   1356.30   9904.00
  .002004       90.      100.      110.         3         0         0       .00    156.00  10060.00

CCHV=     .100 CEHV=     .300
*SECNO 20.942

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .65

3470 ENCROACHMENT STATIONS=     9860.0   10110.0  TYPE=      1  TARGET=      250.000
1
   18APR06      16:00:22                                                                          PAGE   76

    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

   20.942      7.63   1367.23       .00   1367.29   1367.96       .74      1.29       .00 100000.00
   5700.0        .0    4745.2     954.8        .0     657.8     192.3     562.8      60.0   1366.50
      .56       .00      7.21      4.97      .000      .035      .035      .000   1359.60   9860.00
  .004787      530.      433.      490.         2         0         0       .00    250.00  10110.00

*SECNO 21.036

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9810.0   10060.0  TYPE=      1  TARGET=      250.000
   21.036      7.98   1371.48   1371.48   1371.95   1373.10      1.62      2.89       .26   1370.70
   5700.0     112.5    5545.8      41.7      52.9     536.0      19.5     571.1      62.9   1370.40
      .58      2.13     10.35      2.14      .040      .035      .040      .000   1363.50   9810.00
  .007272      490.      496.      490.         4         8         0       .00    250.00  10060.00

*SECNO 21.127

3470 ENCROACHMENT STATIONS=     9900.0   10060.0  TYPE=      1  TARGET=      160.000

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA=      1374.00 ELREA=    100000.00
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    21.127      7.93   1374.63   1374.23   1374.75   1376.44      1.81       .28       .06   1374.20
    5700.0     130.2    5569.8        .0      53.9     510.7        .0     577.4      65.0 100000.00
       .59      2.42     10.91       .00      .040      .035      .000      .000   1366.70   9900.00
   .006491      400.      480.      500.         4         8         0       .00    160.00  10060.00

*SECNO 21.230

3265 DIVIDED FLOW

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9900.0   10125.0  TYPE=      1  TARGET=      225.000
    21.230      8.37   1380.37   1380.37   1380.36   1381.88      1.52      3.89       .03   1379.30
    5700.0     251.2    4277.1    1171.6      71.9     392.1     188.7     585.0      67.3   1380.60
       .60      3.49     10.91      6.21      .040      .035      .040      .000   1372.00   9900.00
   .008046      560.      544.      500.         2         8         0       .00    221.77  10125.00
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    SECNO      DEPTH      CWSEL      CRIWS.     WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST

*SECNO 21.363
3280 CROSS SECTION     21.36 EXTENDED       .59 FEET

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.26

3470 ENCROACHMENT STATIONS=     9930.0   10130.0  TYPE=      1  TARGET=      200.000
    21.363      9.48   1383.58       .00   1383.37   1384.11       .53      2.12       .10 100000.00
    5700.0        .0    5684.3      15.7        .0     973.2      13.0     598.2      70.5   1382.10
       .64       .00      5.84      1.21      .000      .035      .040      .000   1374.10   9939.05
   .001572      740.      702.      700.         3         0         0       .00    166.44  10105.49

*SECNO 21.484

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=     9852.0   10077.0  TYPE=      1  TARGET=      225.000
    21.484      8.59   1387.09   1387.09   1386.53   1388.54      1.45      1.90       .28   1386.90
    5700.0     967.4    4674.8      57.9     169.6     452.1      25.2     610.1      73.2   1386.50
       .66      5.70     10.34      2.30      .040      .035      .040      .000   1378.50   9852.00
   .007569      650.      639.      520.        20        10         0       .00    215.51  10077.00

*SECNO 21.576
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3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.41

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3470 ENCROACHMENT STATIONS= 9940.0 10165.0 TYPE= 1 TARGET= 225.000

21.576	8.08	1390.18	.00	1389.24	1391.06	.88	2.46	.06	1390.00
5700.0	16.5	4724.2	959.3	13.1	587.5	214.0	617.9	75.4	1388.30
.67	1.25	8.04	4.48	.040	.035	.040	.000	1382.10	9940.00
.003827	320.	486.	480.	2	0	0	.00	225.00	10165.00

*SECNO 21.669
3280 CROSS SECTION 21.67 EXTENDED .59 FEET

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
3693 PROBABLE MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9890.0 10115.0 TYPE= 1 TARGET= 225.000

21.669	9.89	1393.89	1393.89	1393.38	1395.24	1.35	2.45	.14	1393.80
5500.0	629.5	3935.4	935.1	132.0	372.7	181.3	626.2	77.9	1392.00
.69	4.77	10.56	5.16	.040	.035	.040	.000	1384.00	9890.00
.007088	440.	491.	470.	20	9	0	.00	225.00	10115.00

*SECNO 21.742

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.58

3470 ENCROACHMENT STATIONS= 9940.0 10140.0 TYPE= 1 TARGET= 200.000

21.742	9.76	1396.16	.00	1395.18	1396.95	.79	1.66	.06	1394.70
5500.0	87.3	5127.9	284.8	40.6	697.0	94.6	633.0	79.8	1394.20
.70	2.15	7.36	3.01	.040	.035	.040	.000	1386.40	9940.00
.002841	430.	385.	390.	2	0	0	.00	200.00	10140.00

*SECNO 21.840

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

3470 ENCROACHMENT STATIONS= 9900.0 10100.0 TYPE= 1 TARGET= 200.000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

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    21.840       6.82   1397.92       .00   1398.04   1399.09      1.17      2.02       .11   1396.20
    5500.0      625.7    4701.1     173.2     119.2     511.9      54.7     641.7      82.0   1397.00
       .72       5.25      9.18      3.17      .040      .035      .040      .000   1391.10   9900.00
   .005989       430.      517.      430.         2         0         0       .00    200.00  10100.00

*SECNO 21.895

3470 ENCROACHMENT STATIONS=     9830.0   10080.0  TYPE=      1  TARGET=      250.000
    21.895       7.82   1399.72       .00   1399.67   1401.04      1.32      1.90       .05   1398.00
    5500.0     1891.4    3424.0     184.5     333.8     314.5      54.1     646.5      83.5   1397.70
       .73       5.67     10.89      3.41      .040      .035      .040      .000   1391.90   9834.63
   .006875       330.      290.      220.         3         0         0       .00    245.37  10080.00

*SECNO 21.933

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =  2.29

3470 ENCROACHMENT STATIONS=     9650.0   10070.0  TYPE=      1  TARGET=      420.000
    21.933       4.68   1401.48       .00   1400.86   1401.69       .20       .53       .11   1398.00
    5500.0     2120.4    3379.6        .0     708.6     857.3        .0     651.9      85.1 100000.00
       .75       2.99      3.94       .00      .040      .035      .000      .000   1396.80   9650.00
   .001314       210.      210.      210.         2         0         0       .00    420.00  10070.00

*SECNO 21.953

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .40

3470 ENCROACHMENT STATIONS=     9630.0   10051.0  TYPE=      1  TARGET=      421.000
    21.953       7.20   1401.20       .00   1401.06   1402.09       .89       .20       .21   1400.20
    5500.0     2410.7    2933.1     156.2     454.9     321.8      35.3     654.0      85.7   1398.30
       .75       5.30      9.11      4.43      .045      .045      .045      .000   1394.00   9630.00
   .008342        75.       74.       75.         3         0         0       .00    310.27  10051.00
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    SECNO     DEPTH     CWSEL     CRIWS     WSELK     EG        HV        HL        OLOSS     L-BANK ELEV
    Q         QLOB      QCH       QROB      ALOB      ACH       AROB      VOL       TWA       R-BANK ELEV
    TIME      VLOB      VCH       VROB      XNL       XNCH      XNR       WTN       ELMIN     SSTA
    SLOPE     XLOBL     XLCH      XLOBR     ITRIAL    IDC       ICONT     CORAR     TOPWID    ENDST

*SECNO 22.065

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS
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3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.50

3470 ENCROACHMENT STATIONS= 9620.0 10030.0 TYPE= 1 TARGET= 410.000

22.065	8.68	1404.48	.00	1404.08	1404.84	.36	2.69	.05	1404.10
5500.0	3697.1	1792.4	10.5	839.8	320.8	4.9	665.0	89.5	1402.00
.78	4.40	5.59	2.16	.045	.045	.045	.000	1395.80	9620.00
.003732	430.	591.	630.	3	0	0	.00	396.88	10030.00

*SECNO 22.165

3265 DIVIDED FLOW

3280 CROSS SECTION 22.17 EXTENDED .36 FEET

3470 ENCROACHMENT STATIONS= 9620.0 10020.0 TYPE= 1 TARGET= 400.000

22.165	11.06	1406.06	.00	1405.25	1406.42	.36	1.58	.00	1400.90
5500.0	3632.3	1859.8	8.0	953.4	294.5	4.6	679.7	94.2	1403.70
.81	3.81	6.31	1.73	.045	.045	.045	.000	1395.00	9620.00
.002451	530.	528.	530.	3	0	0	.00	381.09	10020.00

*SECNO 22.273

3265 DIVIDED FLOW

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .69

3470 ENCROACHMENT STATIONS= 9650.0 10027.0 TYPE= 1 TARGET= 377.000

22.273	8.21	1407.61	.00	1406.66	1408.32	.72	1.80	.11	1404.10
5500.0	1439.3	4060.7	.0	336.1	542.6	.0	692.2	98.0	100000.00
.83	4.28	7.48	.00	.045	.045	.000	.000	1399.40	9650.00
.005127	470.	570.	580.	2	0	0	.00	292.44	10027.00

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 22.410

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9860.0 10040.0 TYPE= 1 TARGET= 180.000

22.410	10.09	1414.09	1414.09	1414.22	1416.01	1.92	4.99	.36	1410.70
5500.0	717.5	4672.2	110.3	142.7	393.2	23.9	704.2	101.9	1411.30
.85	5.03	11.88	4.63	.045	.045	.045	.000	1404.00	9860.00
.009664	750.	723.	630.	5	11	0	.00	159.26	10040.00

*SECNO 22.483

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 3.12

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3470 ENCROACHMENT STATIONS=     9890.0   10050.0  TYPE=      1  TARGET=      160.000
    22.483     11.24   1416.74       .00   1416.46   1417.04       .30       .87       .16   1411.10
    5500.0     505.1    4994.9        .0     194.8    1098.2        .0     712.4     103.3 100000.00
       .87      2.59      4.55       .00      .045      .045      .000      .000   1405.50   9890.00
   .000990      380.      385.      390.         3         0         0       .00    160.00  10050.00
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*SECNO 22.500

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3470 ENCROACHMENT STATIONS=     9775.0   10270.0  TYPE=      1  TARGET=    -9775.000
    22.500     11.26   1417.06       .00   1416.54   1417.14       .08       .07       .02 100000.00
    5500.0        .0    4333.5    1166.5        .0    1823.5     631.5     716.8     104.0   1412.00
       .89       .00      2.38      1.85      .000      .045      .045      .000   1405.80   9775.00
   .000510      110.      103.       95.         2         0         0       .00    483.96  10258.96
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*SECNO 22.578

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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	L-BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	R-BANK ELEV
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = .38

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3470 ENCROACHMENT STATIONS=     9968.0   10064.0  TYPE=      1  TARGET=       96.000
    22.578     10.25   1416.95       .00   1416.52   1417.79       .84       .43       .23   1416.60
    5500.0        .0    5500.0        .0        .0     747.0        .0     731.4     106.7 100000.00
       .90       .00      7.36       .00      .000      .045      .000      .000   1406.70   9968.00
   .003494      415.      400.      395.         2         0         0       .00     96.00  10064.00
```

*SECNO 22.675

3301 HV CHANGED MORE THAN HVINS

3302 WARNING: CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE, KRATIO = 1.72

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3470 ENCROACHMENT STATIONS=     9830.0   10028.0  TYPE=      1  TARGET=      198.000
    22.675      8.87   1418.57       .00   1418.10   1418.82       .25       .97       .06 100000.00
    5500.0        .0    5500.0        .0        .0    1378.2        .0     743.9     108.4 100000.00
       .94       .00      3.99       .00      .000      .045      .000      .000   1409.70   9830.00
   .001185      570.      512.      480.         2         0         0       .00    198.00  10028.00
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*SECNO 22.794

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3470 ENCROACHMENT STATIONS=     9977.0   10160.0  TYPE=      1  TARGET=      183.000
    22.794      8.71   1419.41       .00   1418.62   1419.76       .35       .91       .03   1417.80
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   5500.0       8.5    5491.5        .0       6.3    1152.2        .0     762.2     111.1 100000.00
      .97      1.35      4.77       .00      .045      .045      .000      .000   1410.70   9977.00
  .001791      460.      628.      500.         2         0         0       .00    183.00  10160.00

*SECNO 22.880

3302 WARNING:  CONVEYANCE CHANGE OUTSIDE OF ACCEPTABLE RANGE,  KRATIO =   .53

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    SECNO      DEPTH      CWSEL      CRIWS      WSELK      EG         HV         HL         OLOSS      L-BANK ELEV
    Q          QLOB       QCH        QROB       ALOB       ACH        AROB       VOL        TWA        R-BANK ELEV
    TIME       VLOB       VCH        VROB       XNL        XNCH       XNR        WTN        ELMIN      SSTA
    SLOPE      XLOBL      XLCH       XLOBR      ITRIAL     IDC        ICONT      CORAR      TOPWID     ENDST


3470 ENCROACHMENT STATIONS=     9951.0   10120.0  TYPE=      1  TARGET=      169.000
   22.880      7.49   1420.49       .00   1420.06   1421.29       .79      1.40       .13 100000.00
   5500.0        .0    5500.0        .0        .0     769.2        .0     772.2     113.0 100000.00
      .99       .00      7.15       .00      .000      .045      .000      .000   1413.00   9951.00
  .006466      440.      454.      480.         2         0         0       .00    169.00  10120.00

*SECNO 22.990

3470 ENCROACHMENT STATIONS=     9890.0   10026.0  TYPE=      1  TARGET=      136.000
   22.990      6.76   1424.66       .00   1423.63   1425.78      1.13      4.40       .10 100000.00
   5500.0        .0    5500.0        .0        .0     644.9        .0     781.7     115.0 100000.00
     1.01       .00      8.53       .00      .000      .045      .000      .000   1417.90   9890.00
  .008978      480.      581.      530.         3         0         0       .00    136.00  10026.00

*SECNO 23.097

3470 ENCROACHMENT STATIONS=     9958.0   10090.0  TYPE=      1  TARGET=      132.000
   23.097      5.49   1430.59       .00   1429.89   1432.09      1.50      6.20       .11 100000.00
   5500.0        .0    5500.0        .0        .0     559.6        .0     789.5     116.7 100000.00
     1.03       .00      9.83       .00      .000      .045      .000      .000   1425.10   9958.00
  .013703      640.      565.      490.         3         0         0       .00    132.00  10090.00

1
   18APR06      16:00:22                                                                          PAGE   84


                                                                    THIS RUN EXECUTED 18APR06    16:00:23
 ************************************
  HEC-2 WATER SURFACE PROFILES

  Version   4.6.2;  May 1991
 ************************************


 NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST


 CAVE CREEK WASH

 SUMMARY PRINTOUT
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	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
	17.588	1269.60	1283.69	9777.93	10229.71	451.78	14.09	15400.00	.33	.00	.00	.00	.00
	17.588	1269.60	1284.69	9855.24	10193.00	337.76	15.09	15400.00	.39	.00	.00	.00	.00
*	17.662	1271.60	1283.82	9829.44	10149.15	319.71	12.22	15400.00	.89	.13	.00	.00	.00
*	17.662	1271.60	1284.81	9900.00	10150.00	250.00	13.21	15400.00	.96	.12	.00	.00	.00
*	17.783	1275.40	1285.58	9900.35	10101.72	201.37	10.18	15400.00	2.28	1.76	.00	.00	.00
*	17.783	1275.40	1286.37	9921.00	10064.00	143.00	10.97	15400.00	2.28	1.56	.00	.00	.00
	17.932	1277.90	1290.98	9921.07	10085.31	164.24	13.08	15400.00	3.62	5.40	.00	.00	.00
	17.932	1277.90	1291.41	9956.00	10066.00	110.00	13.51	15400.00	3.36	5.03	.00	.00	.00
*	18.042	1282.30	1294.31	9951.61	10048.37	96.76	12.01	15400.00	3.83	3.33	.00	.00	.00
*	18.042	1282.30	1294.43	9951.60	10048.38	96.78	12.13	15400.00	3.74	3.03	.00	.00	.00
	18.061	1283.10	1296.44	9951.54	10048.43	96.89	13.34	15400.00	2.99	2.13	.00	1301.60	1293.20
	18.061	1283.10	1296.69	9951.53	10048.45	96.91	13.59	15400.00	2.86	2.26	.00	1301.60	1293.20
*	18.081	1281.10	1299.54	9876.94	10106.51	229.58	18.44	15400.00	.71	3.10	.00	.00	.00
*	18.081	1281.10	1299.61	9900.00	10085.00	185.00	18.51	15400.00	.71	2.92	.00	.00	.00
	18.174	1281.70	1300.22	9856.87	10454.71	597.84	18.52	15400.00	.30	.68	.00	.00	.00
	18.174	1281.70	1300.18	9857.02	10125.00	267.98	18.48	15400.00	.45	.57	.00	.00	.00
*	18.269	1283.80	1300.17	9881.86	10110.59	228.73	16.37	15400.00	.76	-.05	.00	.00	.00
	18.269	1283.80	1300.30	9882.20	10110.00	227.80	16.50	15400.00	.74	.12	.00	.00	.00
	18.362	1285.30	1300.54	9895.20	10108.18	212.97	15.24	15400.00	.97	.36	.00	.00	.00
	18.362	1285.30	1300.64	9895.60	10107.80	212.20	15.34	15400.00	.95	.35	.00	.00	.00
*	18.445	1287.30	1305.39	9885.22	10271.68	386.47	18.09	15400.00	2.09	4.85	.00	.00	.00
*	18.445	1287.30	1304.91	9888.33	10110.00	221.67	17.61	15400.00	2.86	4.27	.00	.00	.00

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	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	18.456	1287.70	1307.31	9873.21	10316.94	443.73	19.61	15400.00	1.00	1.92	15108.43	1299.50	1294.20
*	18.456	1287.70	1308.52	9885.00	10110.00	225.00	20.82	15400.00	1.05	3.61	15030.78	1299.50	1294.20
*	18.545	1289.30	1308.28	9881.31	10169.98	288.68	18.98	15400.00	.47	.97	.00	.00	.00
*	18.545	1289.30	1309.56	9881.40	10169.80	288.40	20.26	15400.00	.37	1.04	.00	.00	.00
	18.575	1289.30	1308.43	9880.61	10170.93	290.32	19.13	15400.00	.41	.14	.00	.00	.00
	18.575	1289.30	1309.67	9880.70	10170.80	290.10	20.37	15400.00	.32	.10	.00	.00	.00
	18.583	1289.40	1309.50	9875.91	10177.35	301.44	20.10	15400.00	.34	1.07	14974.04	1299.00	1295.40
	18.583	1289.40	1310.09	9876.10	10177.20	301.10	20.69	15400.00	.31	.42	15165.87	1299.00	1295.40
	18.640	1290.20	1309.43	9879.37	10134.89	255.52	19.23	15400.00	.64	-.07	.00	.00	.00
	18.640	1290.20	1310.02	9879.60	10134.70	255.10	19.82	15400.00	.57	-.06	.00	.00	.00
	18.734	1292.40	1309.68	9883.01	10111.84	228.83	17.28	15400.00	.84	.26	.00	.00	.00
	18.734	1292.40	1310.24	9883.20	10111.70	228.50	17.84	15400.00	.75	.21	.00	.00	.00
	18.832	1293.20	1310.19	9891.67	10107.84	216.17	16.99	15400.00	.85	.51	.00	.00	.00
	18.832	1293.20	1310.66	9891.80	10107.00	215.20	17.46	15400.00	.78	.43	.00	.00	.00
	18.925	1294.60	1310.64	9887.57	10087.64	200.07	16.04	15400.00	.97	.45	.00	.00	.00
	18.925	1294.60	1311.05	9887.70	10087.50	199.80	16.45	15400.00	.89	.39	.00	.00	.00
*	19.018	1297.60	1310.89	9866.12	10038.56	172.44	13.29	15400.00	1.80	.26	.00	.00	.00
*	19.018	1297.60	1311.26	9866.30	10038.50	172.20	13.66	15400.00	1.66	.21	.00	.00	.00

*	19.117	1298.60	1312.49	9942.00	10062.09	120.09	13.89	15400.00	4.37	1.59	.00	.00	.00
*	19.117	1298.60	1312.68	9942.10	10061.90	119.80	14.08	15400.00	4.15	1.43	.00	.00	.00
*	19.210	1300.20	1317.19	9922.94	10081.20	158.26	16.99	15400.00	1.82	4.70	.00	.00	.00
*	19.210	1300.20	1317.10	9923.33	10080.82	157.49	16.90	15400.00	1.85	4.42	.00	.00	.00
*	19.283	1311.70	1319.92	9948.00	10057.00	109.00	8.22	14600.00	4.12	2.73	.00	.00	.00
*	19.283	1311.70	1319.92	9948.00	10057.00	109.00	8.22	14600.00	4.13	2.82	.00	.00	.00
*	19.299	1311.70	1322.06	9948.00	10057.00	109.00	10.36	14600.00	2.60	2.13	.00	1326.50	1324.20
*	19.299	1311.70	1322.06	9948.00	10057.00	109.00	10.36	14600.00	2.60	2.14	.00	1326.50	1324.20
	19.313	1311.70	1323.31	9944.34	10104.00	159.66	11.61	14600.00	1.87	1.25	.00	.00	.00
	19.313	1311.70	1323.30	9944.35	10103.99	159.64	11.60	14600.00	1.87	1.25	.00	.00	.00
	19.418	1313.00	1325.59	9955.11	10117.80	162.69	12.59	14600.00	1.83	2.29	.00	.00	.00
	19.418	1313.00	1325.59	9955.11	10117.80	162.69	12.59	14600.00	1.83	2.29	.00	.00	.00
	19.560	1315.60	1328.21	9931.38	10060.98	129.60	12.61	14600.00	1.94	2.62	.00	.00	.00
	19.560	1315.60	1328.21	9931.37	10060.99	129.63	12.61	14600.00	1.93	2.62	.00	.00	.00
*	19.625	1317.60	1329.89	9965.00	10025.00	60.00	12.29	5700.00	.93	1.68	.00	.00	.00
	19.625	1317.60	1329.95	9965.00	10025.00	60.00	12.35	5700.00	.92	1.74	.00	.00	.00

SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
19.691	1318.60	1331.53	9965.00	10025.00	60.00	12.93	5700.00	.84	1.64	.00	1334.80	1328.30
19.691	1318.60	1331.60	9965.00	10025.00	60.00	13.00	5700.00	.83	1.65	.00	1334.80	1328.30
19.742	1319.10	1331.99	9935.22	10043.57	108.35	12.89	5700.00	.52	.46	.00	.00	.00
19.742	1319.10	1332.03	9953.00	10038.00	85.00	12.93	5700.00	.54	.43	.00	.00	.00
* 19.847	1318.80	1332.14	9940.63	10050.49	109.85	13.34	5700.00	.59	.15	.00	.00	.00
* 19.847	1318.80	1332.14	9957.00	10043.00	86.00	13.34	5700.00	.67	.11	.00	.00	.00
* 19.960	1324.60	1332.37	9950.40	10037.28	86.88	7.77	5700.00	2.55	.24	.00	.00	.00
* 19.960	1324.60	1332.43	9958.00	10031.00	73.00	7.83	5700.00	2.60	.29	.00	.00	.00
* 19.974	1323.80	1333.31	9969.00	10020.00	51.00	9.51	5700.00	2.14	.94	.00	.00	.00
* 19.974	1323.80	1333.67	9969.00	10020.00	51.00	9.87	5700.00	1.99	1.24	.00	.00	.00
19.986	1323.80	1335.25	9969.00	10020.00	51.00	11.45	5700.00	1.48	1.94	.00	1337.90	1334.10
19.986	1323.80	1335.72	9969.00	10020.00	51.00	11.92	5700.00	1.37	2.05	.00	1337.90	1334.10
* 20.049	1327.10	1338.35	9971.56	10025.19	53.63	11.25	5700.00	3.54	3.10	.00	.00	.00
* 20.049	1327.10	1338.20	9975.00	10024.93	49.93	11.10	5700.00	3.76	2.49	.00	.00	.00
* 20.144	1330.90	1343.48	9960.58	10044.51	83.94	12.58	5700.00	1.58	5.13	.00	.00	.00
* 20.144	1330.90	1343.38	9972.00	10029.00	57.00	12.48	5700.00	1.79	5.17	.00	.00	.00
20.242	1333.30	1345.49	9961.30	10049.98	88.68	12.19	5700.00	1.57	2.00	.00	.00	.00
20.242	1333.30	1345.51	9964.00	10035.00	71.00	12.21	5700.00	1.65	2.13	.00	.00	.00
20.335	1337.30	1347.44	9950.57	10038.88	88.31	10.14	5700.00	1.17	1.95	.00	.00	.00
20.335	1337.30	1347.54	9963.00	10036.00	73.00	10.24	5700.00	1.25	2.03	.00	.00	.00
20.347	1337.20	1347.24	9970.00	10021.00	51.00	10.04	5700.00	1.92	-.20	.00	.00	.00
20.347	1337.20	1347.42	9970.00	10021.00	51.00	10.22	5700.00	1.86	-.12	.00	.00	.00
20.366	1337.20	1347.97	9970.00	10021.00	51.00	10.77	5700.00	1.67	.73	.00	1354.50	1349.70
20.366	1337.20	1348.18	9970.00	10021.00	51.00	10.98	5700.00	1.61	.76	.00	1354.50	1349.70

20.4[illegible]	1338.00	1349.57	9958.69	10071.51	112.82	11.57	[illegible]0.00	.94	1.60	.00	.00	.00
20.423	1338.00	1349.71	9958.20	10072.00	113.80	11.71	5700.00	.91	1.52	.00	.00	.00
20.430	1339.30	1349.13	9985.00	10036.00	51.00	9.83	5700.00	2.01	-.44	.00	.00	.00
20.430	1339.30	1349.27	9985.00	10036.00	51.00	9.97	5700.00	1.95	-.43	.00	.00	.00
20.444	1339.30	1349.92	9985.00	10036.00	51.00	10.62	5700.00	1.72	.80	.00	1355.50	1351.30
20.444	1339.30	1350.02	9985.00	10036.00	51.00	10.72	5700.00	1.69	.75	.00	1355.50	1351.30
20.529	1343.00	1352.25	9905.35	10095.18	189.83	9.25	5700.00	.70	2.33	.00	.00	.00
20.529	1343.00	1352.24	9930.00	10069.00	139.00	9.24	5700.00	.77	2.22	.00	.00	.00
20.628	1343.30	1353.31	9917.80	10068.41	150.61	10.01	5700.00	.43	1.06	.00	.00	.00
20.628	1343.30	1353.34	9935.00	10065.00	130.00	10.04	5700.00	.45	1.10	.00	.00	.00

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	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	20.725	1347.20	1356.04	9959.29	10026.51	67.22	8.84	5700.00	3.06	2.72	.00	.00	.00
*	20.725	1347.20	1355.94	9962.00	10026.00	64.00	8.74	5700.00	3.18	2.60	.00	.00	.00
*	20.737	1350.90	1358.17	9968.00	10019.00	51.00	7.27	5700.00	3.67	2.13	.00	.00	.00
*	20.737	1350.90	1358.20	9968.00	10019.00	51.00	7.30	5700.00	3.64	2.25	.00	.00	.00
*	20.750	1351.00	1360.60	9968.00	10019.00	51.00	9.60	5700.00	2.11	2.43	.00	1366.00	1363.00
*	20.750	1351.00	1360.60	9968.00	10019.00	51.00	9.60	5700.00	2.11	2.40	.00	1366.00	1363.00
*	20.819	1356.50	1362.37	9965.00	10043.00	78.00	5.87	5700.00	2.41	1.77	.00	.00	.00
*	20.819	1356.50	1362.37	9965.00	10043.00	78.00	5.87	5700.00	2.41	1.77	.00	.00	.00
*	20.841	1357.40	1364.38	9965.00	10043.00	78.00	6.98	5700.00	1.70	2.01	.00	1369.90	1365.40
*	20.841	1357.40	1364.38	9965.00	10043.00	78.00	6.98	5700.00	1.70	2.01	.00	1369.90	1365.40
*	20.860	1356.30	1365.98	9800.89	10062.04	261.14	9.68	5700.00	.69	1.60	.00	.00	.00
*	20.860	1356.30	1365.94	9904.00	10060.00	156.00	9.64	5700.00	.72	1.56	.00	.00	.00
	20.942	1359.60	1367.29	9629.81	10168.29	313.22	7.69	5700.00	.43	1.31	.00	.00	.00
*	20.942	1359.60	1367.23	9860.00	10110.00	250.00	7.63	5700.00	.74	1.29	.00	.00	.00
*	21.036	1363.50	1371.95	9568.93	10089.02	520.10	8.45	5700.00	1.12	4.66	.00	.00	.00
*	21.036	1363.50	1371.48	9810.00	10060.00	250.00	7.98	5700.00	1.62	4.25	.00	.00	.00
*	21.127	1366.70	1374.75	9631.62	10066.01	434.39	8.05	5700.00	1.00	2.80	.00	.00	.00
	21.127	1366.70	1374.63	9900.00	10060.00	160.00	7.93	5700.00	1.81	3.15	.00	.00	.00
*	21.230	1372.00	1380.36	9818.28	10126.36	304.81	8.36	5700.00	1.30	5.62	.00	.00	.00
*	21.230	1372.00	1380.37	9900.00	10125.00	221.77	8.37	5700.00	1.52	5.74	.00	.00	.00
*	21.363	1374.10	1383.37	9556.04	10337.00	366.91	9.27	5700.00	.53	3.00	.00	.00	.00
*	21.363	1374.10	1383.58	9939.05	10105.49	166.44	9.48	5700.00	.53	3.21	.00	.00	.00
*	21.484	1378.50	1386.53	9497.84	10076.82	514.70	8.03	5700.00	.92	3.16	.00	.00	.00
*	21.484	1378.50	1387.09	9852.00	10077.00	215.51	8.59	5700.00	1.45	3.51	.00	.00	.00
*	21.576	1382.10	1389.24	9388.00	10340.54	868.38	7.14	5700.00	.78	2.71	.00	.00	.00
*	21.576	1382.10	1390.18	9940.00	10165.00	225.00	8.08	5700.00	.88	3.08	.00	.00	.00
*	21.669	1384.00	1393.38	9392.00	10414.00	977.37	9.38	5500.00	.60	4.13	.00	.00	.00
*	21.669	1384.00	1393.89	9890.00	10115.00	225.00	9.89	5500.00	1.35	3.72	.00	.00	.00
*	21.742	1386.40	1395.18	9744.71	10353.48	525.85	8.78	5500.00	1.19	1.80	.00	.00	.00
*	21.742	1386.40	1396.16	9940.00	10140.00	200.00	9.76	5500.00	.79	2.27	.00	.00	.00
	21.840	1391.10	1398.04	9857.22	10295.09	437.88	6.94	5500.00	.80	2.86	.00	.00	.00

*	21.840	1391.10	1397.92	9900.00	10100.00	200.00	6.82	5500.00	1.17	1.76	.00	.00	.00
*	21.895	1391.90	1399.67	9834.78	10431.00	596.22	7.77	5500.00	.80	1.63	.00	.00	.00
	21.895	1391.90	1399.72	9834.63	10080.00	245.37	7.82	5500.00	1.32	1.80	.00	.00	.00

	SECNO	ELMIN	CWSEL	SSTA	ENDST	TOPWID	DEPTH	Q	HV	DIFWSX	QWEIR	ELTRD	ELLC
*	21.933	1396.80	1400.86	9314.75	10285.14	970.39	4.06	5500.00	.13	1.19	.00	.00	.00
*	21.933	1396.80	1401.48	9650.00	10070.00	420.00	4.68	5500.00	.20	1.77	.00	.00	.00
*	21.953	1394.00	1401.06	9424.44	10052.98	459.91	7.06	5500.00	.94	.20	.00	.00	.00
*	21.953	1394.00	1401.20	9630.00	10051.00	310.27	7.20	5500.00	.89	-.28	.00	.00	.00
*	22.065	1395.80	1404.08	9242.08	10049.66	777.84	8.28	5500.00	.17	3.02	.00	.00	.00
*	22.065	1395.80	1404.48	9620.00	10030.00	396.88	8.68	5500.00	.36	3.27	.00	.00	.00
	22.165	1395.00	1405.25	9137.48	10060.52	828.27	10.25	5500.00	.21	1.17	.00	.00	.00
	22.165	1395.00	1406.06	9620.00	10020.00	381.09	11.06	5500.00	.36	1.59	.00	.00	.00
*	22.273	1399.40	1406.66	9320.96	10027.44	419.21	7.26	5500.00	.71	1.42	.00	.00	.00
*	22.273	1399.40	1407.61	9650.00	10027.00	292.44	8.21	5500.00	.72	1.54	.00	.00	.00
*	22.410	1404.00	1414.22	9854.46	10066.88	193.61	10.22	5500.00	1.76	7.56	.00	.00	.00
*	22.410	1404.00	1414.09	9860.00	10040.00	159.26	10.09	5500.00	1.92	6.48	.00	.00	.00
*	22.483	1405.50	1416.46	9874.91	10199.99	325.09	10.96	5500.00	.12	2.23	.00	.00	.00
*	22.483	1405.50	1416.74	9890.00	10050.00	160.00	11.24	5500.00	.30	2.65	.00	.00	.00
	22.500	1405.80	1416.54	9775.00	10257.01	482.01	10.74	5500.00	.10	.08	.00	.00	.00
	22.500	1405.80	1417.06	9775.00	10258.96	483.96	11.26	5500.00	.08	.31	.00	.00	.00
*	22.578	1406.70	1416.52	9956.37	10064.48	104.10	9.82	5500.00	.94	-.01	.00	.00	.00
*	22.578	1406.70	1416.95	9968.00	10064.00	96.00	10.25	5500.00	.84	-.11	.00	.00	.00
*	22.675	1409.70	1418.10	9740.26	10028.56	288.30	8.40	5500.00	.13	1.58	.00	.00	.00
*	22.675	1409.70	1418.57	9830.00	10028.00	198.00	8.87	5500.00	.25	1.62	.00	.00	.00
*	22.794	1410.70	1418.62	9978.60	10194.96	216.35	7.92	5500.00	.41	.52	.00	.00	.00
	22.794	1410.70	1419.41	9977.00	10160.00	183.00	8.71	5500.00	.35	.83	.00	.00	.00
	22.880	1413.00	1420.06	9952.07	10163.92	211.85	7.06	5500.00	.57	1.45	.00	.00	.00
*	22.880	1413.00	1420.49	9951.00	10120.00	169.00	7.49	5500.00	.79	1.09	.00	.00	.00
	22.990	1417.90	1423.63	9754.11	10026.13	272.02	5.73	5500.00	.62	3.57	.00	.00	.00
	22.990	1417.90	1424.66	9890.00	10026.00	136.00	6.76	5500.00	1.13	4.16	.00	.00	.00
*	23.097	1425.10	1429.89	9899.16	10117.43	186.83	4.79	5500.00	1.57	6.26	.00	.00	.00
	23.097	1425.10	1430.59	9958.00	10090.00	132.00	5.49	5500.00	1.50	5.94	.00	.00	.00

CAVE CREEK WASH

SUMMARY PRINTOUT TABLE 110

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
17.588	1283.69	.00	1284.02	451.78	3410.65	11671.02	318.33	.00	.00	9982.00	10193.00	.00
17.588	1284.69	1.00	1285.08	337.76	1964.85	13435.15	.00	.16	9855.24	9982.00	10193.00	10193.00

*	17.6[illegible]	1283.82	.00	1284.71	319.71	3988.73	11364.70	[illegible]6.58	.00	.00	9941.00	10130.00	.00
*	17.662	1284.81	.99	1285.77	250.00	2238.05	13039.23	122.73	250.00	9900.00	9941.00	10130.00	10150.00
*	17.783	1285.58	.00	1287.86	201.37	296.49	14381.19	722.32	.00	.00	9921.00	10064.00	.00
*	17.783	1286.37	.79	1288.65	143.00	.00	15400.00	.00	.09	9921.00	9921.00	10064.00	10064.00
	17.932	1290.98	.00	1294.60	164.24	59.98	15314.69	25.33	.00	.00	9956.00	10066.00	.00
	17.932	1291.41	.42	1294.76	110.00	.00	15400.00	.00	.02	9956.00	9956.00	10066.00	10066.00
*	18.042	1294.31	.00	1298.14	96.76	.00	15400.00	.00	.00	.00	9951.00	10049.00	.00
*	18.042	1294.43	.12	1298.17	96.78	.00	15400.00	.00	.00	9951.00	9951.00	10049.00	10049.00
	18.061	1296.44	.00	1299.43	96.89	.00	15400.00	.00	.00	.00	9951.00	10049.00	.00
	18.061	1296.69	.25	1299.55	96.91	.00	15400.00	.00	.00	9951.00	9951.00	10049.00	10049.00
*	18.081	1299.54	.00	1300.24	229.58	1235.51	12528.72	1635.78	.00	.00	9942.00	10045.00	.00
*	18.081	1299.61	.07	1300.32	185.00	1220.63	12608.39	1570.98	185.00	9900.00	9942.00	10045.00	10085.00
	18.174	1300.22	.00	1300.52	597.84	1569.89	11409.13	2420.99	.00	.00	9919.00	10073.00	.00
	18.174	1300.18	-.04	1300.63	267.98	1800.18	13116.05	483.77	268.00	9857.00	9919.00	10073.00	10125.00
*	18.269	1300.17	.00	1300.93	228.73	2261.70	12456.32	681.98	.00	.00	9942.00	10060.00	.00
	18.269	1300.30	.12	1301.04	227.80	2281.27	12415.20	703.53	227.80	9882.20	9942.00	10060.00	10110.00
	18.362	1300.54	.00	1301.51	212.97	1154.29	13225.19	1020.51	.00	.00	9942.00	10060.00	.00
	18.362	1300.64	.11	1301.60	212.20	1169.84	13188.25	1041.91	212.20	9895.60	9942.00	10060.00	10107.80
*	18.445	1305.39	.00	1307.48	386.47	5165.58	3758.29	6476.14	.00	.00	9992.00	10005.00	.00
*	18.445	1304.91	-.48	1307.77	221.67	5150.63	4076.29	6173.07	225.00	9885.00	9992.00	10005.00	10110.00
*	18.456	1307.31	.00	1308.31	443.73	5168.41	2970.57	7261.02	.00	.00	9992.00	10005.00	.00
*	18.456	1308.52	1.21	1309.57	225.00	5931.90	2952.32	6515.78	225.00	9885.00	9992.00	10005.00	10110.00
*	18.545	1308.28	.00	1308.76	288.68	1745.21	11300.05	2354.74	.00	.00	9951.00	10058.00	.00
*	18.545	1309.56	1.28	1309.93	288.40	1923.29	10840.09	2636.61	288.40	9881.40	9951.00	10058.00	10169.80
	18.575	1308.43	.00	1308.83	290.32	3584.18	3152.32	8663.50	.00	.00	9972.00	10000.00	.00
	18.575	1309.67	1.24	1309.99	290.10	3707.22	3015.70	8677.08	290.10	9880.70	9972.00	10000.00	10170.80
	18.583	1309.50	.00	1309.84	301.44	3685.39	3046.31	8668.30	.00	.00	9972.00	10000.00	.00
	18.583	1310.09	.59	1310.39	301.10	3739.77	2983.72	8676.51	301.10	9876.10	9972.00	10000.00	10177.20
	18.640	1309.43	.00	1310.07	255.52	2345.59	9850.54	3203.87	.00	.00	9955.00	10033.00	.00
	18.640	1310.02	.60	1310.59	255.10	2433.35	9638.38	3328.26	255.10	9879.60	9955.00	10033.00	10134.70

SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
18.734	1309.68	.00	1310.53	228.83	1314.28	13486.67	599.05	.00	.00	9938.00	10062.00	.00
18.734	1310.24	.55	1310.99	228.50	1412.75	13301.70	685.55	228.50	9883.20	9938.00	10062.00	10111.70
18.832	1310.19	.00	1311.04	216.17	437.54	12951.81	2010.65	.00	.00	9929.00	10046.00	.00
18.832	1310.66	.47	1311.44	215.20	497.22	12812.49	2090.29	215.20	9891.80	9929.00	10046.00	10107.00
18.925	1310.64	.00	1311.60	200.07	1711.89	12782.42	905.69	.00	.00	9941.00	10048.00	.00
18.925	1311.05	.41	1311.94	199.80	1782.17	12651.31	966.52	199.80	9887.70	9941.00	10048.00	10087.50
* 19.018	1310.89	.00	1312.69	172.44	489.51	14883.12	27.37	.00	.00	9903.00	10030.00	.00
* 19.018	1311.26	.36	1312.92	172.20	558.06	14803.54	38.40	172.20	9866.30	9903.00	10030.00	10038.50
* 19.117	1312.49	.00	1316.85	120.09	1414.18	11917.85	2067.97	.00	.00	9973.00	10026.00	.00
* 19.117	1312.68	.20	1316.84	119.80	1457.21	11826.79	2116.00	119.80	9942.10	9973.00	10026.00	10061.90
* 19.210	1317.19	.00	1319.01	158.26	227.00	14955.16	217.84	.00	.00	9945.00	10060.00	.00

*	19.210	1317.10	-.09	1318.95	157.49	219.47	14969.92	210.62	157.90	9923.10	9945.00	10060.00	10081.00
*	19.283	1319.92	.00	1324.04	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.283	1319.92	.00	1324.04	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.299	1322.06	.00	1324.65	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
*	19.299	1322.06	.00	1324.65	109.00	.00	14600.00	.00	.00	.00	9948.00	10057.00	.00
	19.313	1323.31	.00	1325.17	159.66	.00	14600.00	.00	.00	.00	9932.00	10112.00	.00
	19.313	1323.30	.00	1325.17	159.64	.00	14600.00	.00	.00	9932.00	9932.00	10112.00	10112.00
	19.418	1325.59	.00	1327.43	162.69	.00	14600.00	.00	.00	.00	9948.00	10120.00	.00
	19.418	1325.59	.00	1327.43	162.69	.00	14600.00	.00	.00	9948.00	9948.00	10120.00	10120.00
	19.560	1328.21	.00	1330.15	129.60	.00	14600.00	.00	.00	.00	9929.00	10065.00	.00
	19.560	1328.21	.00	1330.15	129.63	.00	14600.00	.00	.00	9929.00	9929.00	10065.00	10065.00
*	19.625	1329.89	.00	1330.82	60.00	.00	5700.00	.00	.00	.00	9965.00	10025.00	.00
	19.625	1329.95	.06	1330.87	60.00	.00	5700.00	.00	.00	9965.00	9965.00	10025.00	10025.00
	19.691	1331.53	.00	1332.37	60.00	.00	5700.00	.00	.00	.00	9965.00	10025.00	.00
	19.691	1331.60	.07	1332.43	60.00	.00	5700.00	.00	.00	9965.00	9965.00	10025.00	10025.00
	19.742	1331.99	.00	1332.51	108.35	.78	5698.99	.24	.00	.00	9948.00	10042.00	.00
	19.742	1332.03	.04	1332.57	85.00	.00	5700.00	.00	85.00	9953.00	9948.00	10042.00	10038.00
*	19.847	1332.14	.00	1332.73	109.85	.00	5700.00	.00	.00	.00	9929.00	10062.00	.00
*	19.847	1332.14	.00	1332.81	86.00	.00	5700.00	.00	86.00	9957.00	9929.00	10062.00	10043.00
*	19.960	1332.37	.00	1334.93	86.88	38.92	5629.33	31.75	.00	.00	9958.00	10031.00	.00
*	19.960	1332.43	.05	1335.03	73.00	.00	5700.00	.00	73.00	9958.00	9958.00	10031.00	10031.00
*	19.974	1333.31	.00	1335.46	51.00	.00	5700.00	.00	.00	.00	9969.00	10020.00	.00
*	19.974	1333.67	.35	1335.66	51.00	.00	5700.00	.00	51.00	9969.00	9969.00	10020.00	10020.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	19.986	1335.25	.00	1336.73	51.00	.00	5700.00	.00	.00	.00	9969.00	10020.00	.00
	19.986	1335.72	.47	1337.08	51.00	.00	5700.00	.00	51.00	9969.00	9969.00	10020.00	10020.00
*	20.049	1338.35	.00	1341.90	53.63	.00	5700.00	.00	.00	.00	9954.00	10027.00	.00
*	20.049	1338.20	-.15	1341.96	49.93	.00	5700.00	.00	50.00	9975.00	9954.00	10027.00	10025.00
*	20.144	1343.48	.00	1345.07	83.94	.00	5588.64	111.36	.00	.00	9955.00	10025.00	.00
*	20.144	1343.38	-.11	1345.17	57.00	.00	5671.10	28.89	57.00	9972.00	9955.00	10025.00	10029.00
	20.242	1345.49	.00	1347.06	88.68	.00	5546.27	153.73	.00	.00	9953.00	10029.00	.00
	20.242	1345.51	.02	1347.16	71.00	.00	5645.34	54.66	71.00	9964.00	9953.00	10029.00	10035.00
	20.335	1347.44	.00	1348.61	88.31	31.74	5639.18	29.07	.00	.00	9958.00	10032.00	.00
	20.335	1347.54	.10	1348.79	73.00	.00	5671.99	28.01	73.00	9963.00	9958.00	10032.00	10036.00
	20.347	1347.24	.00	1349.16	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.347	1347.42	.18	1349.28	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.366	1347.97	.00	1349.64	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.366	1348.18	.22	1349.79	51.00	.00	5700.00	.00	.00	.00	9970.00	10021.00	.00
	20.423	1349.57	.00	1350.51	112.82	101.68	5266.19	332.13	.00	.00	9975.00	10045.00	.00
	20.423	1349.71	.14	1350.61	113.80	107.11	5250.90	341.99	114.00	9958.00	9975.00	10045.00	10072.00
	20.430	1349.13	.00	1351.13	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.430	1349.27	.14	1351.22	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00

	20.444	1349.92	.00	1351.64	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.444	1350.02	.10	1351.71	51.00	.00	5700.00	.00	.00	.00	9985.00	10036.00	.00
	20.529	1352.25	.00	1352.95	189.83	165.51	5398.15	136.33	.00	.00	9947.00	10055.00	.00
	20.529	1352.24	-.01	1353.01	139.00	79.85	5563.98	56.17	139.00	9930.00	9947.00	10055.00	10069.00
	20.628	1353.31	.00	1353.74	150.61	.00	5700.00	.00	.00	.00	9909.00	10076.00	.00
	20.628	1353.34	.03	1353.79	130.00	.00	5700.00	.00	130.00	9935.00	9909.00	10076.00	10065.00
*	20.725	1356.04	.00	1359.09	67.22	.00	5700.00	.00	.00	.00	9951.00	10036.00	.00
*	20.725	1355.94	-.09	1359.12	64.00	.00	5700.00	.00	64.00	9962.00	9951.00	10036.00	10026.00
*	20.737	1358.17	.00	1361.84	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.737	1358.20	.03	1361.84	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.750	1360.60	.00	1362.70	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.750	1360.60	.00	1362.70	51.00	.00	5700.00	.00	.00	.00	9968.00	10019.00	.00
*	20.819	1362.37	.00	1364.78	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.819	1362.37	.00	1364.78	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.841	1364.38	.00	1366.08	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00
*	20.841	1364.38	.00	1366.08	78.00	.00	5700.00	.00	.00	.00	9965.00	10043.00	.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	20.860	1365.98	.00	1366.67	261.14	86.17	5613.83	.00	.00	.00	9942.00	10066.00	.00
*	20.860	1365.94	-.04	1366.67	156.00	26.83	5673.17	.00	156.00	9904.00	9942.00	10066.00	10060.00
	20.942	1367.29	.00	1367.72	313.22	.00	3724.38	1975.62	.00	.00	9854.00	10024.00	.00
*	20.942	1367.23	-.06	1367.96	250.00	.00	4745.17	954.83	250.00	9860.00	9854.00	10024.00	10110.00
*	21.036	1371.95	.00	1373.07	520.10	367.07	5202.79	130.15	.00	.00	9912.00	10020.00	.00
*	21.036	1371.48	-.47	1373.10	250.00	112.48	5545.82	41.70	250.00	9810.00	9912.00	10020.00	10060.00
*	21.127	1374.75	.00	1375.74	434.39	1077.09	4622.90	.00	.00	.00	9974.00	10067.00	.00
	21.127	1374.63	-.12	1376.44	160.00	130.17	5569.82	.00	160.00	9900.00	9974.00	10067.00	10060.00
*	21.230	1380.36	.00	1381.67	304.81	508.80	4046.90	1144.30	.00	.00	9967.00	10048.00	.00
*	21.230	1380.37	.00	1381.88	221.77	251.25	4277.13	1171.62	225.00	9900.00	9967.00	10048.00	10125.00
*	21.363	1383.37	.00	1383.90	366.91	98.15	5566.19	35.65	.00	.00	9928.00	10088.00	.00
*	21.363	1383.58	.21	1384.11	166.44	.00	5684.33	15.67	200.00	9930.00	9928.00	10088.00	10130.00
*	21.484	1386.53	.00	1387.44	514.70	2045.40	3648.02	6.58	.00	.00	9932.00	10026.00	.00
*	21.484	1387.09	.57	1388.54	215.51	967.36	4674.76	57.88	225.00	9852.00	9932.00	10026.00	10077.00
*	21.576	1389.24	.00	1390.02	868.38	720.87	4008.42	970.70	.00	.00	9980.00	10087.00	.00
*	21.576	1390.18	.94	1391.06	225.00	16.47	4724.25	959.29	225.00	9940.00	9980.00	10087.00	10165.00
*	21.669	1393.38	.00	1393.98	977.37	905.25	2788.42	1806.33	.00	.00	9962.00	10031.00	.00
*	21.669	1393.89	.52	1395.24	225.00	629.54	3935.40	935.05	225.00	9890.00	9962.00	10031.00	10115.00
*	21.742	1395.18	.00	1396.38	525.85	29.14	5238.84	232.02	.00	.00	9975.00	10091.00	.00
*	21.742	1396.16	.98	1396.95	200.00	87.25	5127.94	284.80	200.00	9940.00	9975.00	10091.00	10140.00
	21.840	1398.04	.00	1398.83	437.88	945.78	4156.96	397.26	.00	.00	9946.00	10054.00	.00
*	21.840	1397.92	-.12	1399.09	200.00	625.73	4701.10	173.18	200.00	9900.00	9946.00	10054.00	10100.00
*	21.895	1399.67	.00	1400.47	596.22	1555.35	2864.44	1080.21	.00	.00	9975.00	10031.00	.00
	21.895	1399.72	.05	1401.04	245.37	1891.44	3424.05	184.51	250.00	9830.00	9975.00	10031.00	10080.00

*	21.933	1400.86	.00	1400.99	970.39	1740.18	3230.12	529.70	.00	.00	9865.00	10140.00	.00
*	21.933	1401.48	.62	1401.69	420.00	2120.38	3379.62	.00	420.00	9650.00	9865.00	10140.00	10070.00
*	21.953	1401.06	.00	1402.01	459.91	2374.60	2981.81	143.59	.00	.00	9969.00	10029.00	.00
*	21.953	1401.20	.14	1402.09	310.27	2410.71	2933.11	156.19	421.00	9630.00	9969.00	10029.00	10051.00
*	22.065	1404.08	.00	1404.25	777.84	4154.77	1273.89	71.34	.00	.00	9961.00	10028.00	.00
*	22.065	1404.48	.40	1404.84	396.88	3697.13	1792.35	10.51	410.00	9620.00	9961.00	10028.00	10030.00
	22.165	1405.25	.00	1405.46	828.27	4034.46	1433.28	32.26	.00	.00	9983.00	10018.00	.00
	22.165	1406.06	.82	1406.42	381.09	3632.26	1859.77	7.97	400.00	9620.00	9983.00	10018.00	10020.00
*	22.273	1406.66	.00	1407.38	419.21	1973.64	3526.36	.00	.00	.00	9933.00	10028.00	.00
*	22.273	1407.61	.94	1408.32	292.44	1439.28	4060.72	.00	377.00	9650.00	9933.00	10028.00	10027.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	22.410	1414.22	.00	1415.98	193.61	768.28	4585.83	145.88	.00	.00	9973.00	10027.00	.00
*	22.410	1414.09	-.14	1416.01	159.26	717.48	4672.17	110.35	180.00	9860.00	9973.00	10027.00	10040.00
*	22.483	1416.46	.00	1416.58	325.09	301.10	4551.84	647.06	.00	.00	9941.00	10105.00	.00
*	22.483	1416.74	.29	1417.04	160.00	505.09	4994.91	.00	160.00	9890.00	9941.00	10105.00	10050.00
	22.500	1416.54	.00	1416.64	482.01	.00	4408.22	1091.78	-9775.00	9775.00	9650.00	10090.00	10270.00
	22.500	1417.06	.52	1417.14	483.96	.00	4333.52	1166.48	-9775.00	9775.00	9650.00	10090.00	10270.00
*	22.578	1416.52	.00	1417.46	104.10	.13	5499.87	.00	.00	.00	9968.00	10072.00	.00
*	22.578	1416.95	.43	1417.79	96.00	.00	5500.00	.00	96.00	9968.00	9968.00	10072.00	10064.00
*	22.675	1418.10	.00	1418.23	288.30	.00	5500.00	.00	.00	.00	9736.00	10032.00	.00
*	22.675	1418.57	.48	1418.82	198.00	.00	5500.00	.00	198.00	9830.00	9736.00	10032.00	10028.00
*	22.794	1418.62	.00	1419.03	216.35	1.63	5390.72	107.65	.00	.00	9983.00	10169.00	.00
	22.794	1419.41	.79	1419.76	183.00	8.48	5491.52	.00	183.00	9977.00	9983.00	10169.00	10160.00
	22.880	1420.06	.00	1420.64	211.85	.00	5500.00	.00	.00	.00	9927.00	10167.00	.00
*	22.880	1420.49	.43	1421.29	169.00	.00	5500.00	.00	169.00	9951.00	9927.00	10167.00	10120.00
	22.990	1423.63	.00	1424.25	272.02	.00	5500.00	.00	.00	.00	9739.00	10034.00	.00
	22.990	1424.66	1.03	1425.78	136.00	.00	5500.00	.00	136.00	9890.00	9739.00	10034.00	10026.00
*	23.097	1429.89	.00	1431.46	186.83	38.72	5461.28	.00	.00	.00	9951.00	10121.00	.00
	23.097	1430.59	.71	1432.09	132.00	.00	5500.00	.00	132.00	9958.00	9951.00	10121.00	10090.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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WARNING SECNO=    17.662  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.662  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    17.783  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    17.783  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    18.042  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=    18.042  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=    18.081  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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WARNING SECNO=     18.081  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.269  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     18.445  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     18.445  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     18.445  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     18.445  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     18.445  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     18.456  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.456  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     18.545  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     18.545  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.018  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.018  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     19.117  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.117  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.117  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.117  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.117  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.117  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     19.210  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.210  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     19.283  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.283  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.283  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     19.283  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     19.283  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     19.283  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=     19.299  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=     19.299  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=     19.299  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=     19.299  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
1
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WARNING SECNO=     19.625  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.847  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.847  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.960  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.960  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=     19.974  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     19.974  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=     20.049  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.049  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.049  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=     20.049  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=     20.049  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=     20.049  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

WARNING SECNO=     20.144  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=     20.144  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
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CAUTION SECNO=      20.725  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      20.725  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      20.725  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      20.725  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      20.725  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      20.725  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      20.737  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      20.737  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      20.737  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      20.737  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      20.737  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      20.737  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      20.750  PROFILE=  1  HYDRAULIC JUMP D.S.
WARNING SECNO=      20.750  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
CAUTION SECNO=      20.750  PROFILE=  2  HYDRAULIC JUMP D.S.
WARNING SECNO=      20.750  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      20.819  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      20.819  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      20.841  PROFILE=  1  HYDRAULIC JUMP D.S.
CAUTION SECNO=      20.841  PROFILE=  2  HYDRAULIC JUMP D.S.

WARNING SECNO=      20.860  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      20.860  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      20.942  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      21.036  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.036  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
1
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CAUTION SECNO=      21.036  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      21.036  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.036  PROFILE=  2  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      21.127  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.127  PROFILE=  1  MINIMUM SPECIFIC ENERGY

CAUTION SECNO=      21.230  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.230  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      21.230  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      21.230  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.230  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      21.363  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      21.363  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      21.484  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.484  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      21.484  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      21.484  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.484  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      21.484  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      21.576  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.576  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=      21.576  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      21.669  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.669  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      21.669  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION SECNO=      21.669  PROFILE=  2  CRITICAL DEPTH ASSUMED
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CAUTION SECNO=      21.669  PROFILE=  2  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      21.669  PROFILE=  2  20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO=      21.742  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.742  PROFILE=  1  MINIMUM SPECIFIC ENERGY
WARNING SECNO=      21.742  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      21.840  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      21.895  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.895  PROFILE=  1  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      21.933  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      21.933  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      21.953  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      21.953  PROFILE=  1  PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      21.953  PROFILE=  1  20 TRIALS ATTEMPTED TO BALANCE WSEL
WARNING SECNO=      21.953  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      22.065  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      22.065  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
1
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WARNING SECNO=      22.273  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      22.273  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      22.410  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      22.410  PROFILE=  1  MINIMUM SPECIFIC ENERGY
CAUTION SECNO=      22.410  PROFILE=  2  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      22.410  PROFILE=  2  MINIMUM SPECIFIC ENERGY

WARNING SECNO=      22.483  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      22.483  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      22.578  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      22.578  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      22.675  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE
WARNING SECNO=      22.675  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      22.794  PROFILE=  1  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

WARNING SECNO=      22.880  PROFILE=  2  CONVEYANCE CHANGE OUTSIDE ACCEPTABLE RANGE

CAUTION SECNO=      23.097  PROFILE=  1  CRITICAL DEPTH ASSUMED
CAUTION SECNO=      23.097  PROFILE=  1  MINIMUM SPECIFIC ENERGY

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FLOODWAY DATA,   CAVE CREEK WASH
PROFILE NO.  2

              ------- FLOODWAY -------      WATER SURFACE ELEVATION
  STATION    WIDTH    SECTION    MEAN      WITH    WITHOUT  DIFFERENCE
                       AREA    VELOCITY  FLOODWAY  FLOODWAY


    17.588    338.      3195.     4.8     1284.7    1283.7      1.0
    17.662    250.      1988.     7.7     1284.8    1283.8      1.0
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17.783	143.	1271.	12.1	1286.4	1285.6	.8
17.932	110.	1047.	14.7	1291.4	1291.0	.4
18.042	97.	992.	15.5	1294.4	1294.3	.1
18.061	97.	1134.	13.6	1296.6	1296.4	.2
18.081	185.	2411.	6.4	1299.6	1299.5	.1
18.174	268.	3010.	5.1	1300.2	1300.2	.0
18.269	228.	2349.	6.6	1300.3	1300.2	.1
18.362	212.	2086.	7.4	1300.6	1300.5	.1
18.445	222.	1268.	12.1	1304.9	1305.4	-.5
18.456	225.	1990.	7.7	1308.5	1307.3	1.2
18.545	288.	3404.	4.5	1309.6	1308.3	1.3
18.575	290.	3436.	4.5	1309.6	1308.4	1.2
18.583	301.	3540.	4.3	1310.1	1309.5	.6
18.640	255.	2726.	5.6	1310.0	1309.4	.6
18.734	228.	2354.	6.5	1310.3	1309.7	.6
18.832	215.	2295.	6.7	1310.7	1310.2	.5
18.925	200.	2164.	7.1	1311.0	1310.6	.4
19.018	172.	1543.	10.0	1311.3	1310.9	.4
19.117	120.	1023.	15.1	1312.7	1312.5	.2
19.210	157.	1462.	10.5	1317.1	1317.2	-.1
19.283	109.	896.	16.3	1319.9	1319.9	.0
19.299	109.	1129.	12.9	1322.1	1322.1	.0
19.313	160.	1330.	11.0	1323.3	1323.3	.0
19.418	163.	1343.	10.9	1325.6	1325.6	.0
19.560	130.	1308.	11.2	1328.2	1328.2	.0
19.625	60.	741.	7.7	1330.0	1329.9	.1
19.691	60.	780.	7.3	1331.6	1331.5	.1
19.742	85.	969.	5.9	1332.0	1332.0	.0
19.847	86.	868.	6.6	1332.1	1332.1	.0
19.960	73.	441.	12.9	1332.5	1332.4	.1
19.974	51.	503.	11.3	1333.7	1333.3	.4
19.986	51.	608.	9.4	1335.8	1335.3	.5
20.049	50.	366.	15.6	1338.2	1338.4	-.2
20.144	57.	536.	10.6	1343.4	1343.5	-.1
20.242	71.	561.	10.2	1345.5	1345.5	.0
20.335	73.	640.	8.9	1347.5	1347.4	.1
20.347	51.	521.	10.9	1347.4	1347.2	.2
20.366	51.	560.	10.2	1348.2	1348.0	.2
20.423	114.	796.	7.2	1349.7	1349.6	.1
20.430	51.	509.	11.2	1349.2	1349.1	.1

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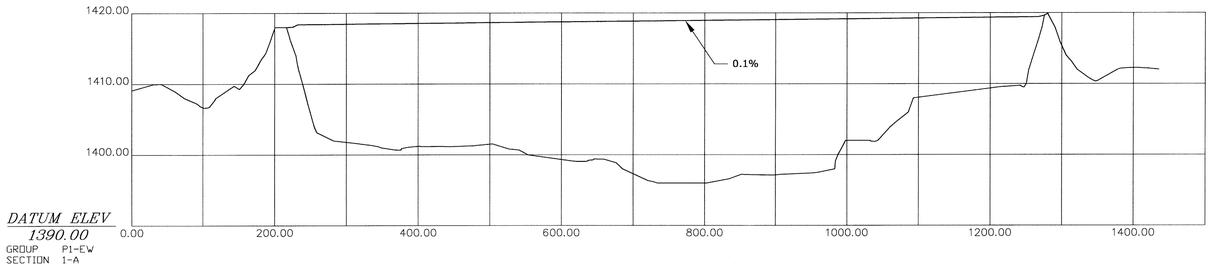
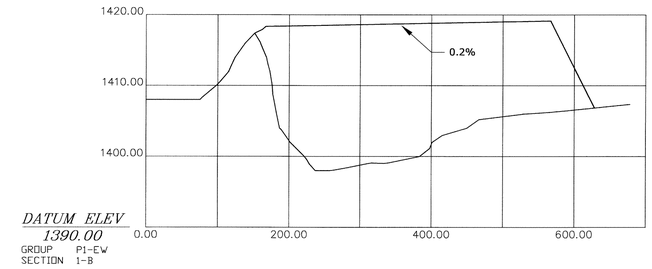
FLOODWAY DATA, CAVE CREEK WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
20.444	51.	547.	10.4	1350.0	1349.9	.1
20.529	139.	841.	6.8	1352.3	1352.3	.0
20.628	130.	1059.	5.4	1353.3	1353.3	.0
20.725	64.	398.	14.3	1355.9	1356.0	-.1
20.737	51.	372.	15.3	1358.2	1358.2	.0
20.750	51.	490.	11.6	1360.6	1360.6	.0
20.819	78.	458.	12.5	1362.4	1362.4	.0
20.841	78.	545.	10.5	1364.4	1364.4	.0
20.860	156.	852.	6.7	1366.0	1366.0	.0
20.942	250.	850.	6.7	1367.2	1367.3	-.1
21.036	250.	608.	9.4	1371.4	1371.9	-.5
21.127	160.	565.	10.1	1374.6	1374.7	-.1
21.230	225.	653.	8.7	1380.4	1380.4	.0

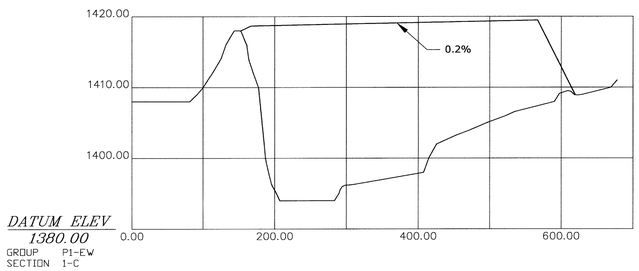
21.36[illegible]	166.	986.	5.8	1383.6	1383.4	.2
21.484	225.	647.	8.8	1387.1	1386.5	.6
21.576	225.	815.	7.0	1390.1	1389.2	.9
21.669	225.	686.	8.0	1393.9	1393.4	.5
21.742	200.	832.	6.6	1396.2	1395.2	1.0
21.840	200.	686.	8.0	1397.9	1398.0	-.1
21.895	245.	702.	7.8	1399.7	1399.7	.0
21.933	420.	1566.	3.5	1401.5	1400.9	.6
21.953	421.	812.	6.8	1401.2	1401.1	.1
22.065	410.	1165.	4.7	1404.5	1404.1	.4
22.165	400.	1253.	4.4	1406.0	1405.2	.8
22.273	377.	879.	6.3	1407.6	1406.7	.9
22.410	180.	560.	9.8	1414.1	1414.2	-.1
22.483	160.	1293.	4.3	1416.8	1416.5	.3
22.500	484.	2455.	2.2	1417.0	1416.5	.5
22.578	96.	747.	7.4	1416.9	1416.5	.4
22.675	198.	1378.	4.0	1418.6	1418.1	.5
22.794	183.	1159.	4.7	1419.4	1418.6	.8
22.880	169.	769.	7.2	1420.5	1420.1	.4
22.990	136.	645.	8.5	1424.6	1423.6	1.0
23.097	132.	560.	9.8	1430.6	1429.9	.7



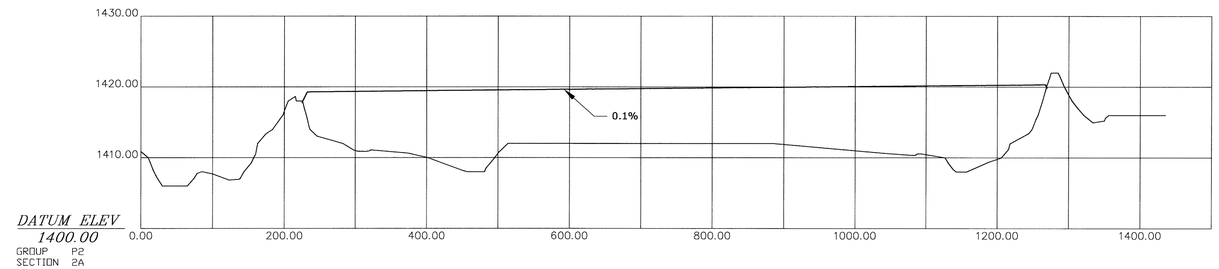
SECTION 1-A



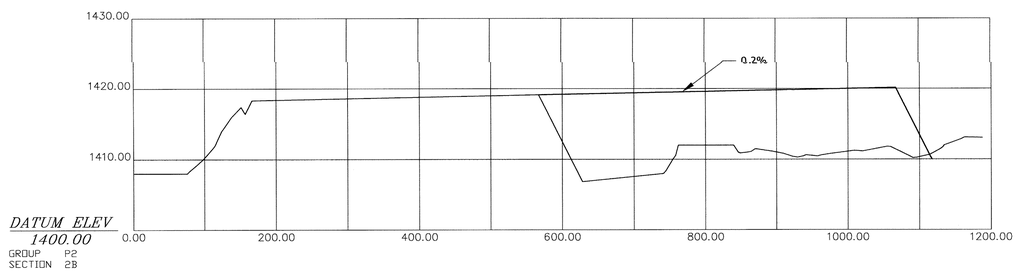
SECTION 1-B



SECTION 1-C



SECTION 2-A



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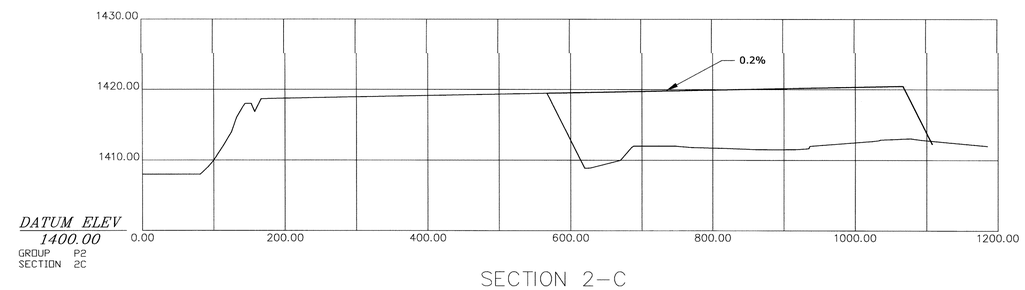

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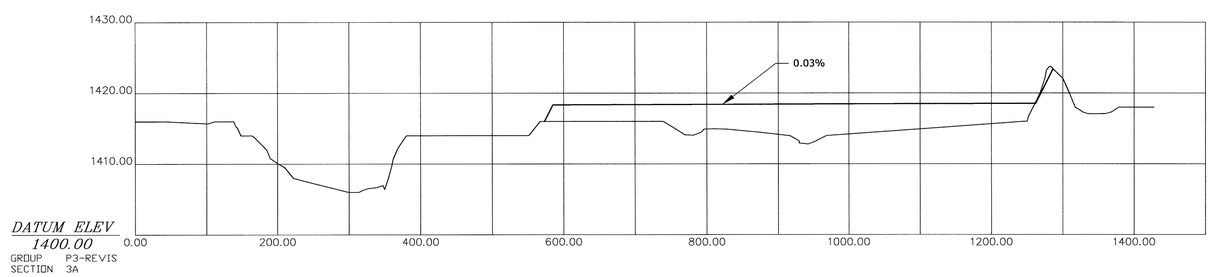


SECTION 3-A

100 0 100 200

NOTES

FILL WILL NOT INCLUDE JUNK, TRASH, TIRES, GARBAGE, WOOD OR OTHER BUOYANT MATERIALS, OR HAZARDOUS, TOXIC OR DELETERIOUS WASTE. FILL COMPACTION WILL BE A MINIMUM OF 95%.

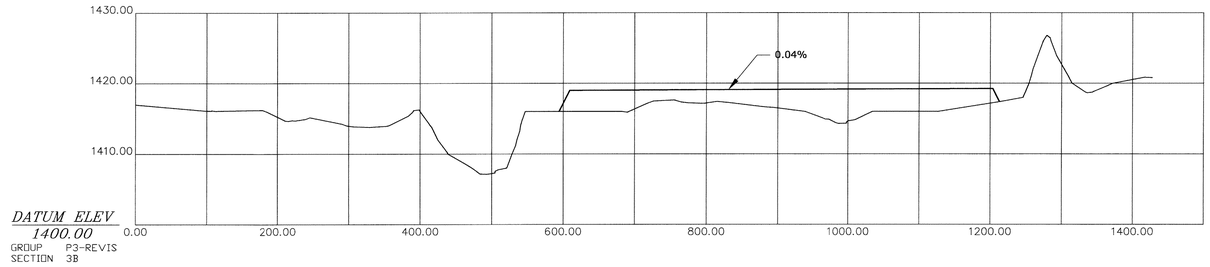
Grading Cross Sections

City of Phoenix Project No:
PW24470004
Union Hills Service Center
CLOMR

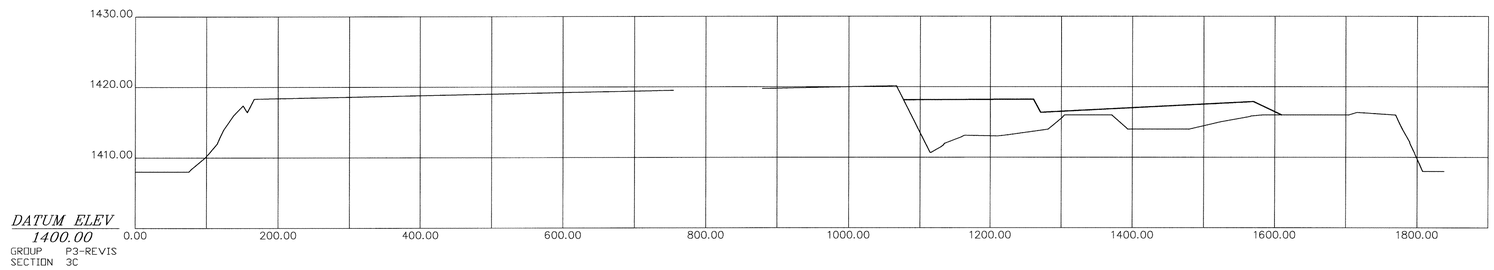
NO.	REVISION	BY	DATE
3			
2			
1			

ASPEN CONSULTING ENGINEERS

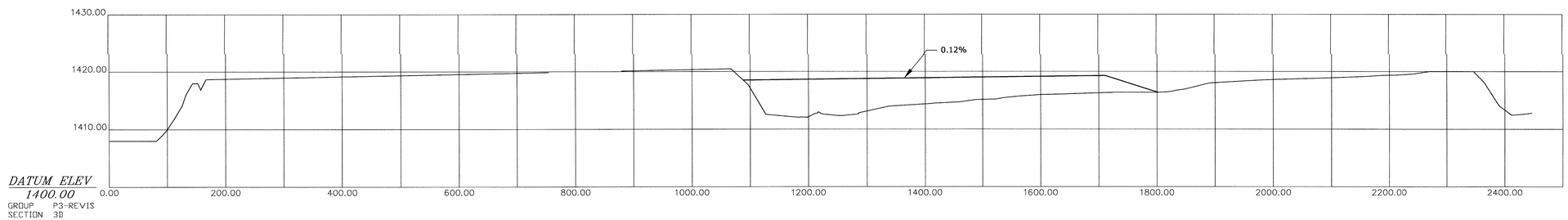
PROJECT NO.	P1002-3	
	BY	DATE
PLANS	JCS	04/21/06
PLANS CHK.	POL	04/21/06



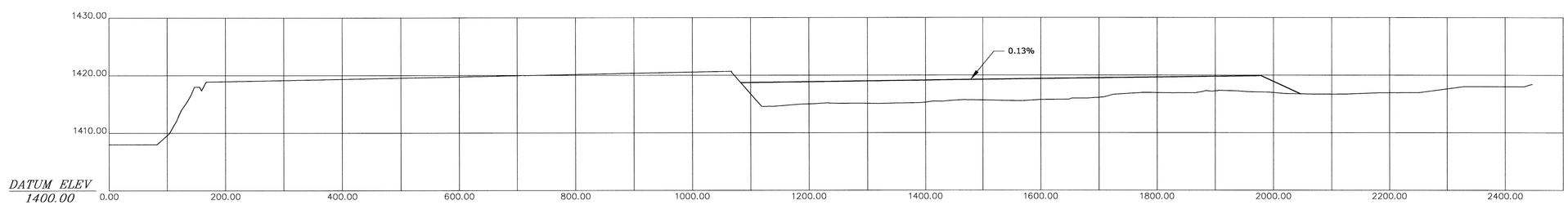
SECTION 3-B



SECTION 3-C



SECTION 3-D



SECTION 3-E

100 0 100 200

NOTES

FILL WILL NOT INCLUDE JUNK, TRASH, TIRES, GARBAGE, WOOD OR OTHER BUOYANT MATERIALS, OR HAZARDOUS, TOXIC OR DELETERIOUS WASTE. FILL COMPACTION WILL BE A MINIMUM OF 95%.

Grading Cross-Sections

City of Phoenix Project No:
PW24470004
Union Hills Service Center
CLOMR

NO.	REVISION	BY	DATE
3			
2			
1			

ASPEN CONSULTING ENGINEERS

PROJECT NO.	P1002-3	
	BY	DATE
PLANS	JCS	04/21/06
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