DESIGN ALTERNATIVES MEMORANDUM
FOR
WESTERN SEGMENT OF THE
LAS VEGAS BELTWAY
CRAIG ROAD TO HUALAPAI WAY

RECEIVED
AUG 23 2004
CLV PUBLIC WORKS
FLOOD CONTROL

451.002

July 2004

Prepared For:

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G. C. WALLACE, INC.
Engineers/Planners/Surveyors

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EXECUTIVE SUMMARY

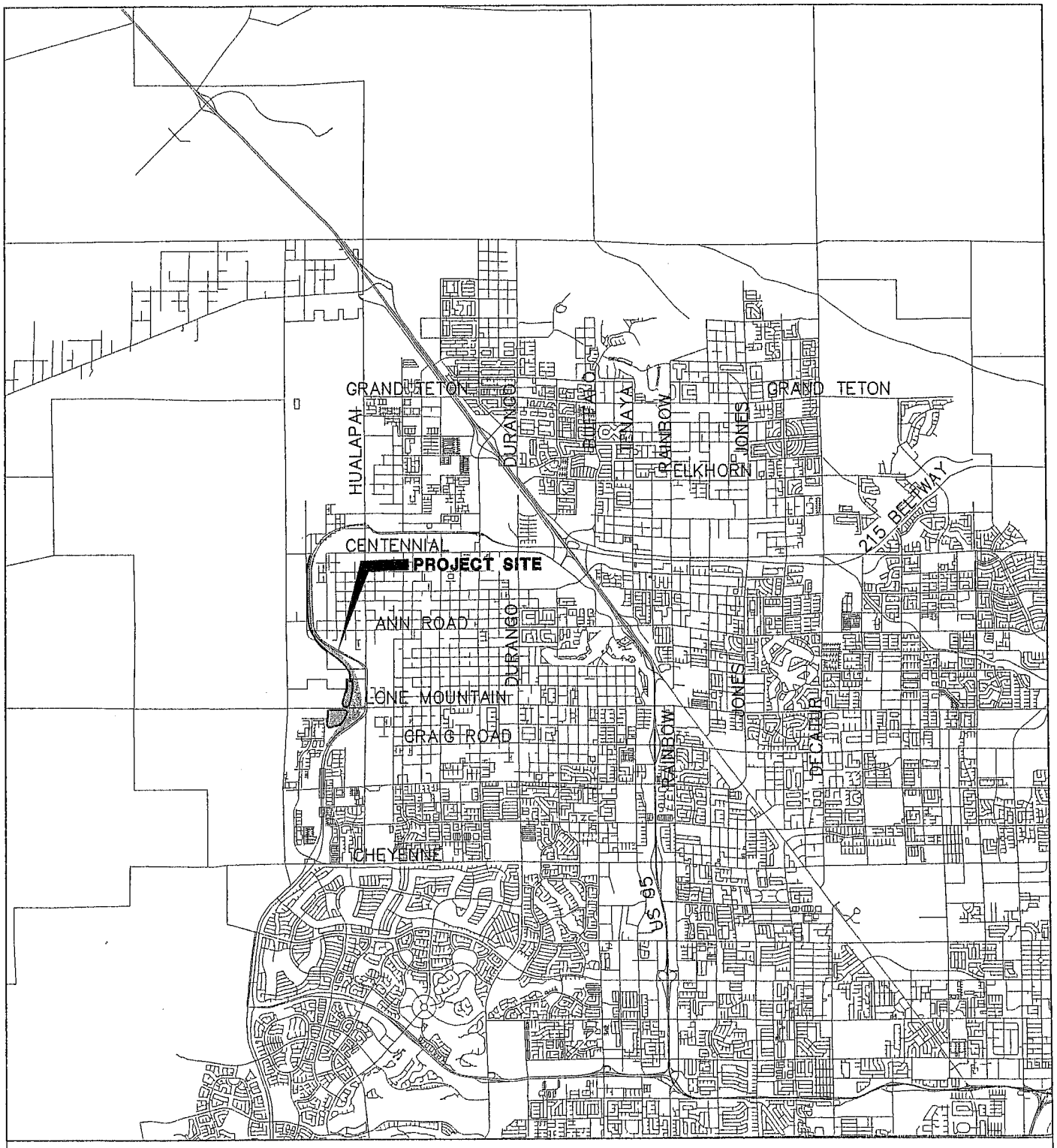
INTRODUCTION

CH2M HILL, as the prime consultant for the design of the segment of the Las Vegas Beltway from Craig Road to Hualapai Way, has contracted with G. C. Wallace, Inc. (GCW) to provide engineering and design services for the Gowan Beltway West Channel facilities from Centennial Parkway to the Lone Mountain – Beltway Detention Basins, and for the Lone Mountain - Beltway Detention Basin facilities. A vicinity map and location map showing the location of the project are included as Figures E-1 and E-2.

PURPOSE

The purpose of this Design Alternatives Memorandum is to present the results of the hydraulic modeling to address comments from Clark County Public Works (CCPW), the Clark County Regional Flood Control District (CCRFCD), and the City of Las Vegas (CLV) for the Gowan Beltway West Channel and the Lone Mountain – Beltway Detention Basins and pertinent facilities. Several comments from the review meetings and the comment memoranda for the 50% design submittal have significant impact on the ongoing design and configuration of the facilities. The intent of this submittal is to present the analyses and pertinent design modifications that were made to address the concerns so that the continuing design will achieve the desired objectives for the project. The specific design issues that are addressed in this memorandum are:

1. Updated HEC-1 models
2. The layout and hydraulic design for the energy dissipator/stilling basin in the North Detention Basin at the inlet from the Gowan Beltway Channel and design provisions to address maintenance concerns for that facility.
3. The collection of flows into the South and North Detention Basins from Lone Mountain Road.
4. The conveyance of flows into the South Detention Basin from the cul-de-sac in Peaceful Dawn and the conveyance of those flows through the detention basin.
5. The layout and hydraulic design for the impact basin in the South Detention Basin.
6. The distribution of flows between the detention basins through the balancing conduit.



GRAPHIC SCALE

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(IN FEET)

1 inch =10000 ft.

NORTH

SCALE 1" = 10,000'

WESTERN SEGMENT OF THE
LAS VEGAS BELTWAY
CRAIG ROAD TO HUALAPAI WAY

FIGURE E-1

VICINITY MAP

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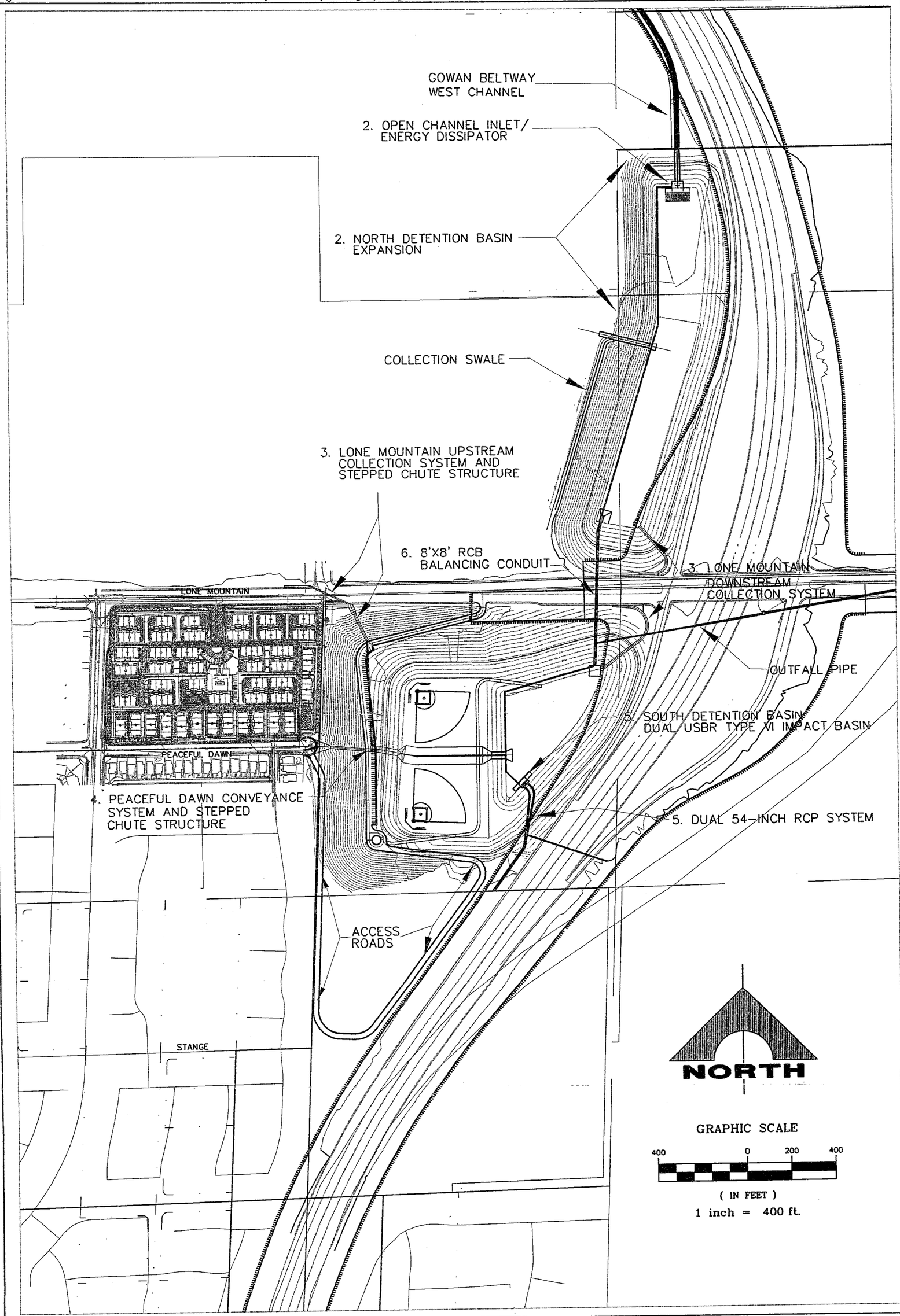

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FIG E-2

WESTERN SEGMENT OF THE LAS VEGAS BELTWAY

CRAIG ROAD TO HUALAPAI WAY

FIGURE E-2

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CONCLUSIONS AND RECOMMENDATIONS:

1. **HEC-1 models were updated to reflect minor changes in facility configuration and the peak design flows are summarized in Figure 3, which is included in Appendix A.**

2. **The North Detention Basin has been extended approximately 500 feet to the north with to provide for an open channel inlet/energy dissipator layout for the Gowan Beltway Channel.** Ramps will be constructed into the end of the stilling basin to facilitate maintenance and a 3-feet high end sill will induce a hydraulic jump and reduce erosive velocities as the flow enters the north detention basin. The extension of the detention basin provides additional storage for the northern cell of the combined detention basin system; reduces the total length of the Gowan Beltway Channel; and provides for the channel inlet to be outside the envelope of the spillway for the North Detention Basin, thereby allowing the channel inlet to the basin to be an open channel configuration. The extension of the basin fits within an existing right-of-way grant area for the Beltway and appurtenant facilities.

3. **A collection system is proposed in Lone Mountain Road to collect the majority of the flow at the upstream side of the South Basin with supplementary collection facilities at the downstream end of the detention basins.** Three alternative collection systems in Lone Mountain Road are presented in this report. Alternative #1 is the recommended collection system. In Alternative #1, depressed curb and storm drain capture a majority of the flow at the upstream end of Lone Mountain Road and convey it to the 10-foot wide stepped chute structure at the upstream end of the South Basin. The stepped chute will dissipate the energy in the flow as it descends the slope into the basin. At the end of the chute the flow will discharge to an impact basin/drop structure. An RCP storm drain conveys the flow along a maintenance road to a baffled 12-foot wide by 4-foot high RCB where it combines with the runoff from Peaceful Dawn Avenue. A supplementary collection system is proposed at the downstream side of the detention basins that consists of depressed curb inlets to 10-feet wide concrete channels and with grouted riprap chutes to convey the flows into the detention basins.

4. **At the Peaceful Dawn cul-de-sac, a 10-foot wide stepped chute structure is proposed that will dissipate the energy in the flow as it descends down the slope into the basin.** At the access road the flow will discharge to an impact

basin/drop structure. The flow is conveyed under a maintenance road via a 12-foot wide by 4-foot high RCB where it combines with the runoff from Lone Mountain Road and the flow is conveyed via riprap lined chutes and an 80-foot wide grass lined channel to the bottom of the basin.

5. **The inflow at the southeast corner of the South Detention Basin is conveyed into the basin via a dual 54-inch RCP system with a dual USBR Type VI impact basin to dissipate energy as the flow discharges into the basin.** The layout of the USBR Type VI basin is modified to include ramps at the downstream side to facilitate maintenance.

6. **The analysis of the balancing conduit for the 100-year design storm conditions shows that the proposed 8-feet wide by 8-feet high RCB performs as intended with a maximum of 1.03-feet difference in water surface elevation (WSE) occurring when the basins are approximately half full.** The difference decreases to less than 0.25-foot by the end of the 6-hour storm. The difference in WSE is negligible when the basins reach peak storage/stage.

I. INTRODUCTION

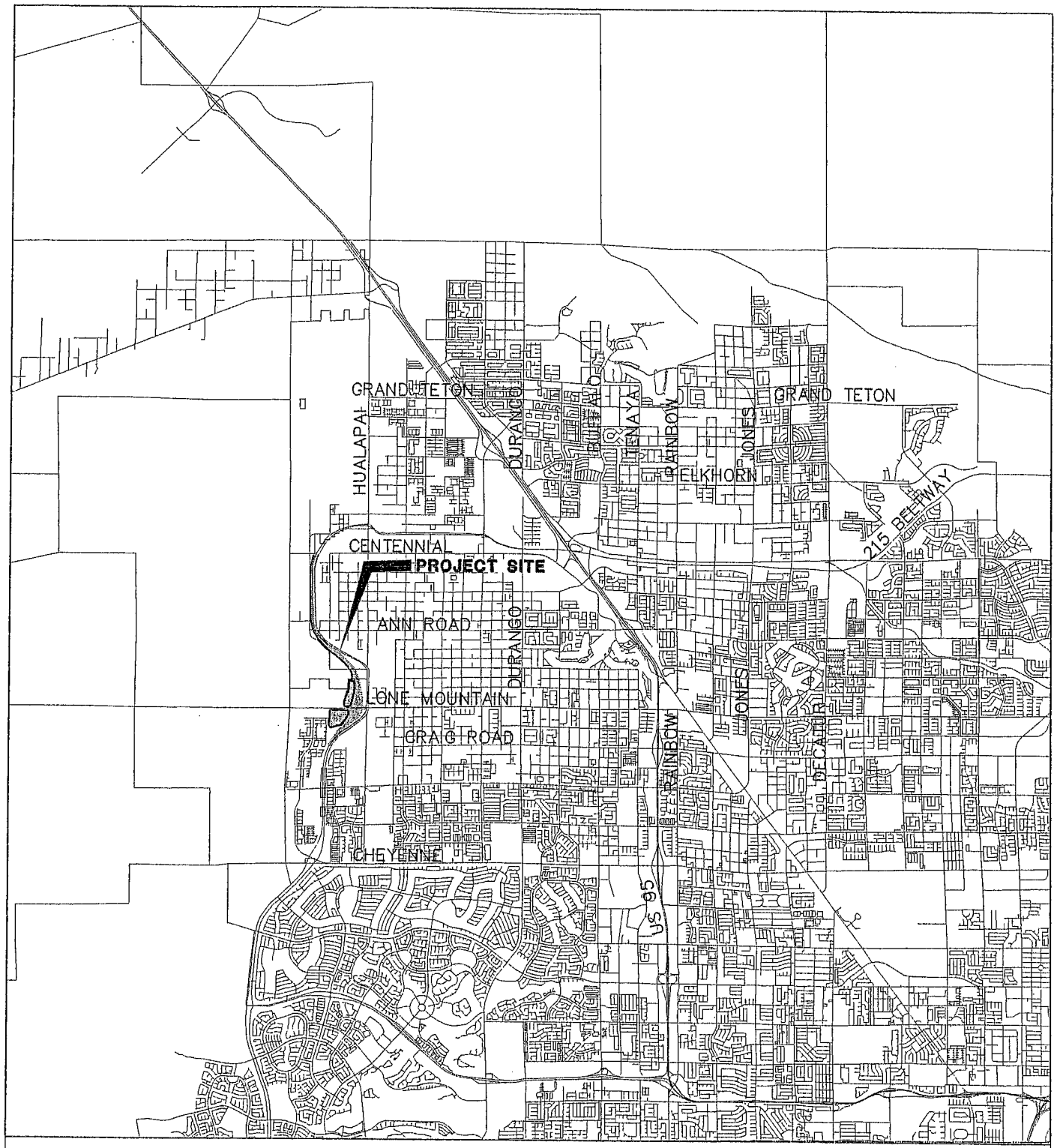
CH2M HILL, as the prime consultant for the design of the segment of the Las Vegas Beltway from Craig Road to Hualapai Way, has contracted with G. C. Wallace, Inc. (GCW) to provide engineering and design services for the Lone Mountain – Beltway Detention Basins (hereinafter referred to as the LMBW Detention Basins) and the Gowan Beltway West Channel from Centennial Parkway to the LMBW Detention Basins (hereinafter referred to as the Beltway Channel). A vicinity map and location map showing the exact location of the project are included as Figures 1 and 2.

II. OBJECTIVES

The purpose of this Design Alternatives Memorandum is to present the results of the hydraulic modeling incorporating comments from CCPW, CCRFCD, and CLV for the Gowan Beltway West Channel and the Lone Mountain – Beltway Detention Basins and pertinent facilities. The CLV comment letter, dated May 27, 2004, is included in Appendix F.

The purpose of this Design Alternatives Memorandum is to present the results of the hydraulic modeling to address comments from Clark County Public Works (CCPW), the Clark County Regional Flood Control District (CCRFCD), and the City of Las Vegas (CLV) for the Gowan Beltway West Channel and the Lone Mountain – Beltway Detention Basins and pertinent facilities. Several comments from the review meetings and the comment memoranda for the 50% design submittal have significant impact on the ongoing design and configuration of the facilities. The intent of this submittal is to present the analyses and pertinent design modifications that were made to address the concerns so that the continuing design will achieve the desired objectives for the project. The specific design issues that are addressed in this memorandum are:

1. The layout and hydraulic design for the energy dissipator/stilling basin in the North Detention Basin at the inlet from the Gowan Beltway Channel and design provisions to address maintenance concerns for that facility.
2. The collection of flows into the South and North Detention Basins from Lone Mountain Road.



GRAPHIC SCALE

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1 inch =10000 ft.

NORTH

SCALE 1" = 10,000'

WESTERN SEGMENT OF THE
LAS VEGAS BELTWAY
CRAIG ROAD TO HUALAPAI WAY

FIGURE 1

VICINITY MAP

G.C. WALLACE, INC.
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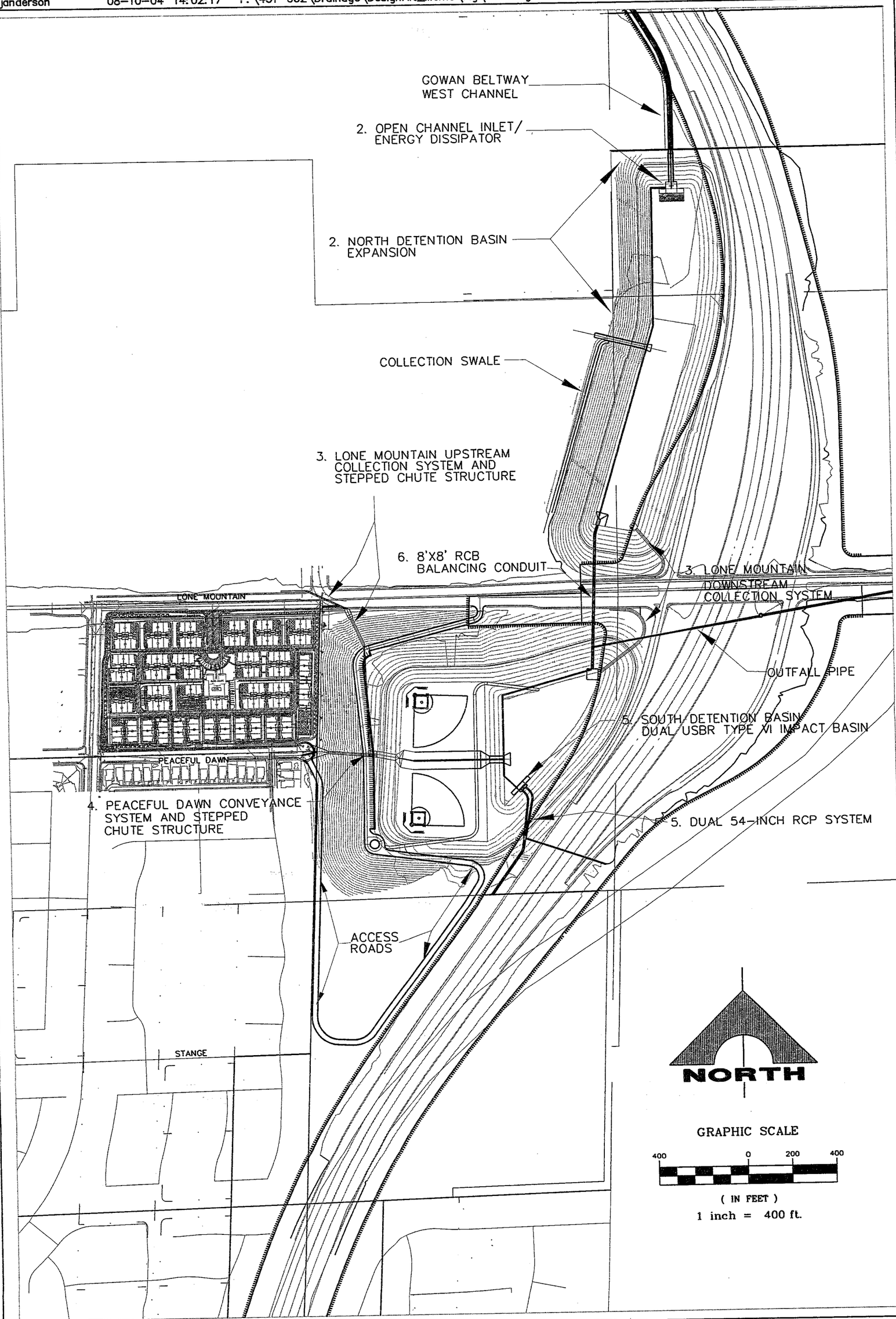

SHEET 1 OF 1 SHTS

FIG 2

WESTERN SEGMENT OF THE LAS VEGAS BELTWAY

CRAIG ROAD TO HUALAPAI WAY

FIGURE 2

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3. The conveyance of flows into the South Detention Basin from the cul-de-sac in Peaceful Dawn and the conveyance of those flows through the detention basin.
4. The hydraulic design and layout for the impact basin in the South Detention Basin.
5. The distribution of flows between the detention basins through the balancing conduit.

III. HYDROLOGY

In response to the CLV comment letter, two updated HEC-1 models have been provided in Appendix A. Model #1 is the same as the HEC-1 model in the Hydrologic Analysis submitted in March 2004, except for the following modifications: Subbasin LWBWIC (98 cfs) will be conveyed directly to the north detention basin via the north channel and is combined with Subbasin WRBW1 (309 cfs) and the flow from the Beltway channel (COM6 – 2182 cfs) at CLMDBN (2239 cfs). Runoff combining at COM8 will be routed to COM9 in the south detention basin. The north detention basin layout has been expanded approximately 500 feet to the north and the stage-discharge relationship has been updated in the HEC-1 models.

Model #2 includes the changes to Model #1 outlined above. In addition, to present a worst case scenario at the detention basins, the Box Canyon and CAM 10 detention basins were removed from the model. The flows in Lone Mountain Road increased at COM 7 (458 cfs), COM8 (582 cfs), and COM9 (905 cfs). The revised layout of the detention basins and appurtenant facilities is shown in Exhibit C-1. A HEC-1 summary table presents the most conservative flows and is included in Figure 3 Ultimate Conditions Drainage Map included in Appendix A.

IV. ENERGY DISSIPATOR IN NORTH DETENTION BASIN

As noted above, the layout of the North Detention Basin has been modified from what was shown in the 50% plan submittal. The detention basin has been extended to the north approximately 500 feet to further utilize an existing right-of-way grant area for the Beltway and appurtenant facilities. The extension of the detention basin provides additional storage for the northern cell of the combined detention basin system; reduces the total length of the Gowan Beltway Channel; and provides for the

channel inlet to be outside the envelope of the spillway for the North Detention Basin, thereby allowing the channel inlet to the basin to be an open channel configuration.

As part of the Hydraulic Analysis submitted in April 2004, a cost estimate was prepared for the proposed channel alignment and storm drain facilities. As part of this report, an updated cost estimation was prepared for the updated channel alignment and expanded north detention basin layout. The updated detention basin layout and channel alignment did not result in a significant change to the total cost of the project. The modifications to the north basin results in an increase in the available length of spillway.

The layout and hydraulic characteristics of the energy dissipator for the Gowan/Beltway Channel are similar to those of the energy dissipator for the Gilmore Channel in the Lone Mountain Detention Basin in that 1) the open channel system widens upstream of the grade break at the top of the side slope into the detention basin and the channel invert at the grade break is approximately at the proposed 100-year water surface elevation for the detention basin; 2) the flow in the channel reaches a high velocity at the toe of the slope at the bottom of the detention basin and the flow enters a stilling basin where a hydraulic jump forms to dissipate a substantial amount of the energy of the flow; and 3) the flow discharges over a grouted riprap blanket to the detention basin floor. The baffle blocks in front of the sloped channel section and the abrupt widening at the entrance to the stilling basin induce a hydraulic jump to dissipate the excess energy and to decrease the flow velocity as the flow enters the detention basin. The 3-foot high raised sill at the end of the stilling basin helps to ensure that a hydraulic jump will occur within the stilling basin.

Two analyses were done to determine the hydraulic characteristics of the flow as it enters the detention basin via the widened channel at the top of slope and proceeds through the stilling basin into the detention basin. The first is a HEC-RAS model included in Appendix B. The HEC-RAS model shows the increase in velocity from approximately 34 fps at the top of slope to approximately 52 fps at the toe of slope as the flow enters the stilling basin. A hydraulic jump is formed in the stilling basin and the flow exits the stilling basin across the grouted riprap blanket at a velocity of approximately 6 fps at the downstream side of the grouted riprap blanket. The

second analysis was done as a comparison to validate the results of the HEC-RAS model using the USBR Type III Energy Dissipator methodology. It showed similar flow characteristics for the flow through the energy dissipator. Access ramps are provided at the downstream end of the stilling basin to provide for easy access for maintenance of the facilities. The layout of the energy dissipator is shown in Appendix B.

V. LONE MOUNTAIN ROAD COLLECTION SYSTEM

The total 100-year flow in Lone Mountain Road at the west end of the South Detention Basin is 582 cfs as depicted at HEC-1 Model #2 combination point COM8. Approximately 134 cfs is conveyed within an existing 42-inch storm drain leaving approximately 448 cfs as surface flow in the street. Three alternatives have been developed to collect 100-year peak flows and convey them into the detention basins in a controlled manner. The recommended alternative is Alternative 1.

Alternative 1 – For Alternative 1, 374 cfs of the 448 cfs surface flow will be collected at the inlets at the west end of the South Detention Basin and 74 cfs will bypass and be collected at the downstream end of the detention basins immediately upstream from the Lone Mountain Road interchange. The upstream collection system will consist of 110-feet of depressed curb on the north and south sides of Lone Mountain to produce side weirs designed to collect the 374 cfs as shown in Figure D1-A (the depth of flow for 74 cfs bypass flow is 0.60 feet; therefore, the bypass flow is contained below the back of walk in as it conveys down Lone Mountain Road). An open channel collector facility behind the sidewalk collects approximately 187 cfs on either side of Lone Mountain Road into 6-foot wide by 4-foot high RCB culverts. The 187 cfs collected in the north half of Lone Mountain is conveyed under Lone Mountain Road in a 6-foot wide by 4-foot high RCB. An existing 42-inch RCP storm drain connects into the box culvert, adding 134 cfs into the 6-foot wide by 4-foot high box for a total of 321 cfs. At the south side of Lone Mountain Road a 6-foot wide by 4-foot high open channel discharges an additional 187 cfs for a total of 508 cfs in the system at the upstream end of the stepped chute structure (for a description of the stepped chute structure, see Section VI). The stepped chute structure conveys the 508 cfs down the side slope of the detention basin to a impact/drop structure that discharges into a 66-inch RCP. The 66-inch RCP extends south to a 12-foot wide by

4-foot high RCB. The velocity at the outlet of the 12-foot wide by 4-foot high RCB is 15.7 fps.

The facilities at the downstream side of the detention basin are designed to collect and route the bypass flow into the proposed detention basins. The downstream facilities consist of 40-feet of depressed curb on the north and south sides of Lone Mountain to collect 48 cfs (24 cfs from each half street) of the designed 74 cfs. Inlets approximately 3-feet in length collect approximately 4 cfs each and approximately 9 cfs is allowed to bypass the collects facilities on either side of the street (it is more reasonable and economical to allow 9 cfs per half street to remain as surface flow and be picked up by future downstream facilities where street slopes are more gradual and collection facilities can be more efficient). Collected flows are concentrated into a 10-foot wide concrete rectangular channel that convey the flows to grouted riprap chutes that convey the flows down the side slopes of the detention basins. A concrete apron is located at the toe slope.

Alternative 2 - Option 2 is similar to option 1. The depressed curb at the upstream end of Lone Mountain is extended from 110-feet to 150-feet. The resulting side weir collects 430 cfs of the total 448 cfs of surface flow in Lone Mountain with 18 cfs bypassing. The collector system combines 448 cfs from the side weirs and 134 in the 42-inch storm drain for a total of 564 cfs at the spillway. The spillway remains the same as option 1, however, the 66-inch RCP in the basin needs to be upsized to a 72-inch RCP to convey the additional flow. For this option, the downstream facility is removed from the design.

Alternative 3 – In option 3 the upstream collector facility is removed. The 448 cfs surface flow continues east in Lone Mountain to be collected in the downstream facility. Normal depth calculations indicate a depth of flow of 0.98-feet in Lone Mountain (0.38 foot above the back of sidewalk). A two-course high stem wall at the back of walk will serve to contain the flow within Lone Mountain. The originally proposed downstream facility with 140 linear feet of depressed curb and a 20-foot wide concrete flumes into the detention basins are proposed for option 3 to collect 448 cfs in Lone Mountain with minimal bypass immediately upstream of the interchange. This option will require two block high stem wall at the back of sidewalk to contain the flows within the street to the curb openings.

Cost Estimates – Preliminary cost estimates were prepared for each alternative and are included in Appendix C.

VI. CONVEYANCE SYSTEM FROM PEACEFUL DAWN CUL-DE-SAC

The flow in Peaceful Dawn will flow over the back of the cul-de-sac into a cast-in-place transition structure to a 10-foot wide stepped chute structure. The stepped chute will consist of precast concrete blocks with 2-foot step lengths and 1-foot step heights. As the flow is conveyed down the 2:1 stepped spillway to the benched recreational area of the south detention basin, energy is dissipated in the stepped chute structure and the resultant velocity at the bottom of the stepped spillway is approximately 20 fps. The flow will enter an impact basin/drop structure, which will dissipate the energy before the flow will enter a 12-foot wide by 4-foot high RCB culvert and will be conveyed under the access road/parking area. Stepped chute calculations and reference materials are included in Appendix D.

The flow will combine (Q_{100} = 905 cfs from Model #2 COM9) with the previously mentioned Lone Mountain Road runoff in the 12-foot wide by 4-foot high RCB and will be conveyed down a 30-foot wide, (4:1 slope) grouted riprap channel. A 30-foot concrete pad is proposed for erosion protection downstream of the grouted riprap section as the channel transitions to an 80-foot wide grass lined channel (slope = 1.0%, 10:1 side slopes). The grass lined channel transitions to a 30-foot wide grouted riprap channel (4:1 slope, 2:1 side slope) and discharges the flow to the bottom of the south detention basin. A 30-foot concrete pad is proposed for erosion protection at the outlet. A 36-inch RCP drain system is proposed to convey low flow from the grass lined channel section to the 36-inch RCP drain low flow system at the bottom of the detention basin. A plan and profile of the stepped chute structure, culvert, grass-lined channel, and low flow system are shown in Exhibit C-1 Alternative Design Layouts.

VII. IMPACT BASIN IN THE SOUTH DETENTION BASIN

The flow in Stange Avenue will be conveyed to the South Detention Basin via a local box culvert conveyance facility. Flows from drainage areas adjoining the RCB will be collected into the facility and the total flow will discharge into the South Detention Basin at the southeast corner of the basin. The flows will be conveyed down the slope into the basin via dual 54-inch RCP's and a USBR Type VI Impact Stilling

Basin will be used as an energy dissipator at the discharge point. The calculations and reference materials for the impact basin are contained in Appendix D. A WSPG model was done to determine the flow characteristics for the 100-year peak flow to the downstream end of the transition structure at the beginning of the dual 54-inch RCP's. The headlosses in the system downstream from the transition structure were calculated and the remaining energy head will be dissipated in a hydraulic jump that will occur within the 54-inch RCP's. The RCP's will be specified as Type V to provide additional strength for the impacts of the hydraulic jump (the 6,000 psi concrete used in the Type V pipe will also help mitigate potential abrasion due to potentially high velocities of flow). The slope of the 54-inch RCP's will be kept to a maximum of 10% to help minimize the flow velocity. Access ramps are formed into the downstream end of the impact basin for ease of maintenance and a low flow pipe will convey nuisance flows to the outfall for the detention basins.

VIII. BALANCING CONDUIT BETWEEN THE BASINS

The flow through the balancing conduit was analyzed using the 100-year design storm hydrographs for inflow into the North and South Detention Basins. The purpose of the balancing conduit calculation spreadsheet is to provide a more accurate view of the interaction of the two detention basins through the balancing conduit using standard reservoir routing methodology.

The spreadsheet analyzes each time interval established in the HEC-1 model (5 minutes) and performs the following calculation for each time interval:

1. Convert North Basin inflow (from HEC-1) to volume
2. Determine North Basin stage based on new total volume
3. Convert South Basin inflow (from HEC-1) to volume
4. Determine South Basin stage based on new total volume
5. Calculate difference between WSE of two basins
6. Calculate flow through balancing conduit based on difference in WSE
7. Calculate change in North Basin volume and stage due to flow through balancing conduit
8. Calculate change in South Basin volume and stage due to flow through balancing conduit

9. Using South Basin water surface elevation as head, calculate discharge from outfall
10. Calculate change in South Basin volume and stage based on outfall facility flow.

A rating curve was established for the balancing conduit based on HY8 models using varying tailwater conditions. The discharge from the outfall pipe is based on orifice equations using the water surface elevation in South Detention Basin for the initial and second stage outfalls. The discharge through the outflow pipe was assumed to depend on the stage in the South Detention Basin since the outfall pipe is located within the envelope of the South Detention Basin adjacent to the intake from that basin and the second stage outfall comes directly from that detention basin.

Two alternatives were investigated for the balancing conduit. The first was an 8-foot wide by 8-foot high RCB and the second was a 6-foot wide by 6-foot high RCB. The results of the balancing conduit analyses show that the maximum difference in the stages for the two basins for the 8-foot wide by 8-foot high RCB is the North Basin is 1.03 feet higher than South Basin at the time of peak inflow into the North Basin. (There is a segment of time where the WSE in the South Basin is slightly higher than the North Basin and flow through the balancing conduit is from south to north. The maximum difference in WSE is 0.21 feet for this segment of time.) The peak flow in the balancing conduit is 292 cfs from north to south and 122 cfs from south to north.

For the second alternative, the maximum difference in stages is the North Basin is 2.10 feet higher than the South Basin and the peak flow in the balancing conduit is 211 cfs. At the end of the 6-hour storm the differences in the peak stages between the basins is 0.24 foot for the 8-foot wide by 8-foot high RCB and 1.47 feet for the 6-foot wide by 6-foot high RCB. Therefore, in order to maintain a minimal difference in stages at the end of the storm, the recommended alternative is the 8-foot wide by 8-foot high RCB.

The maximum difference in stage between the two basins will occur at the time of peak difference in inflows to the basins. This occurs at or near the peak of the inflow hydrograph that occurs at approximately the midpoint in total storage for the combined basins. In this analysis the peak difference in stage occurs when the WSE in the North Basin is approximately 2722 and the peak stage in the South Basin is 2721. Therefore, there is approximately 17 feet of freeboard in the basins at that

point. The peak storage will occur when total peak inflow equals the peak outflow of 92 cfs and there will be minimal difference in the stages of the two basins.

IX. CONCLUSIONS AND RECOMMENDATIONS:

1. **HEC-1 models were updated to reflect minor changes in facility configuration and the peak design flows are summarized in Figure 3 (refer to Appendix A).**

2. **The North Detention Basin has been extended approximately 500 feet to the north with to provide for an open channel inlet/energy dissipator layout for the Gowan Beltway Channel.** Ramps will be constructed into the end of the stilling basin to facilitate maintenance and a 3-feet high end sill will induce a hydraulic jump and reduce erosive velocities as the flow enters the north detention basin. The extension of the detention basin provides additional storage for the northern cell of the combined detention basin system; reduces the total length of the Gowan Beltway Channel; and provides for the channel inlet to be outside the envelope of the spillway for the North Detention Basin, thereby allowing the channel inlet to the basin to be an open channel configuration. The extension of the basin fits within an existing right-of-way grant area for the Beltway and appurtenant facilities.

3. **A collection system is proposed in Lone Mountain Road to collect the majority of the flow at the upstream side of the South Basin with supplementary collection facilities at the downstream end of the detention basins.** Three alternative collection systems in Lone Mountain Road are presented in this report. Alternative #1 is the recommended collection system. In Alternative #1, depressed curb and storm drain capture a majority of the flow at the upstream end of Lone Mountain Road and convey it to the 10-foot wide stepped chute structure at the upstream end of the South Basin. The stepped chute will dissipate the energy in the flow as it descends the slope into the basin. At the end of the chute the flow will discharge to an impact basin/drop structure. An RCP storm drain conveys the flow along a maintenance road to a baffled 12-foot wide by 4-foot high RCB where it combines with the runoff from Peaceful Dawn Avenue. A supplementary collection system is proposed at the downstream side of the detention basins that consists of depressed curb inlets to 10-feet wide concrete channels and with grouted riprap chutes to convey the flows into the detention basins.

4. **At the Peaceful Dawn cul-de-sac, a 10-foot wide stepped chute structure is proposed that will dissipate the energy in the flow as it descends down the slope into the basin.** At the access road the flow will discharge to an impact basin/drop structure. The flow is conveyed under a maintenance road via a 12-foot wide by 4-foot high RCB where it combines with the runoff from Lone Mountain Road and the flow is conveyed via riprap lined chutes and an 80-foot wide grass lined channel to the bottom of the basin.

5. **The inflow at the southeast corner of the South Detention Basin is conveyed into the basin via a dual 54-inch RCP system with a dual USBR Type VI impact basin to dissipate energy as the flow discharges into the basin.** The layout of the USBR Type VI basin is modified to include ramps at the downstream side to facilitate maintenance.

6. **The analysis of the balancing conduit for the 100-year design storm conditions shows that the proposed 8-feet wide by 8-feet high RCB performs as intended with a maximum of 1.03-feet difference in water surface elevation (WSE) occurring when the basins are approximately half full.** The difference decreases to less than 0.25-foot by the end of the 6-hour storm. The difference in WSE is negligible when the basins reach peak storage/stage.

X. REFERENCES

1. Clark County Regional Flood Control District (CCRFCD) *Hydrologic Criteria and Drainage Design Manual.* August 1999.

2. G. C. Wallace, Inc. *Technical Memorandum – Hydrologic Analysis Western Segment of the Las Vegas Beltway – Craig Road to Hualapai Way.* March 2004.

3. G. C. Wallace, Inc. *Technical Memorandum – Initial Conditions Hydraulics Analysis Western Segment of the Las Vegas Beltway – Craig Road to Hualapai Way.* April 2004

4. L. R. Nelson, Inc. *Technical Drainage Study for Cliff Shadows Four-Plex.* December 2003.

HEC-1 Model # 1 Ultimate Conditions

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*              JUN   1998               *
*            VERSION 4.1                *
*                                       *
*  RUN DATE   22JUL04  TIME  17:24:24   *
*                                       *
*****************************************
```

```
*************************************
*                                   *
*    U.S. ARMY CORPS OF ENGINEERS   *
*    HYDROLOGIC ENGINEERING CENTER  *
*          609 SECOND STREET        *
*       DAVIS, CALIFORNIA 95616     *
*           (916) 756-1104          *
*                                   *
*************************************
```

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

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

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


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

                    *DIAGRAM
 *** FREE ***
               1    ID    NORTHERN BELTWAY ANN ROAD TO EL CAPITAN
               2    ID    DRAFT 2002 MPU MODEL BY PBS&J WAS USED AS A BASE AND MODIFIED BY
               3    ID    THE LOUIS BERGER GROUP (LBG) FOR THE PURPOSES OF THE BELTWAY CHANNEL DESIGN
               4    ID    LBG MODEL WAS FURTHER MODIFIED BY G.C. WALLACE TO INCLUDE ONLY THOSE BASINS
               5    ID    IMPACTING THE LONE MOUNTAIN DETENTION BASINS
               6    ID    HYDROLOGIC TECH MEMO MODEL WAS MODIFIED TO SHOW ROUTING CHANGE AT SOUTH DB
               7    ID    INPUT FILE = WBMOD1.DAT
               8    ID    INPUT FILE DATE = 7/16/04
               9    ID    DESIGN STORM = 100-YEAR 6-HOUR STORM
              10    ID    STORM DISTRIBUTION = SDN3
              11    ID    MODELED BY = JTL
              12    IT       5       0       0     800
              13    IO       5       0       0
              14    IN       5       0       0
                    *     AREA     0.0     0.5     1.0    1.46    2.0     4.0    6.00    8.00
              15    JR    PREC    1.00    0.98    0.97   0.952   0.93    0.91   0.900    0.88
                    *
              16    KK  CAMDK1
              17    KM   BASIN PARAMETERS TAKEN FROM CAM-10 ALTERNATIVES SUMMARY, APPENDIX A-3 BY LBG
              18    BA   0.085
              19    PB    3.25
              20    PC   0.000   0.020   0.057   0.070   0.087   0.108   0.124   0.130   0.130   0.130
              21    PC   0.130   0.130   0.130   0.133   0.140   0.142   0.148   0.158   0.172   0.181
              22    PC   0.190   0.197   0.199   0.200   0.201   0.204   0.214   0.229   0.241   0.249
              23    PC   0.251   0.256   0.270   0.278   0.281   0.283   0.295   0.322   0.352   0.409
              24    PC   0.499   0.590   0.710   0.744   0.781   0.812   0.819   0.835   0.851   0.856
              25    PC   0.860   0.868   0.876   0.888   0.910   0.926   0.937   0.950   0.970   0.976
              26    PC   0.982   0.985   0.987   0.989   0.990   0.993   0.993   0.994   0.995   0.998
              27    PC   0.998   0.999   1.000
              28    LS       0      88
              29    UD   0.205
                    *
              30    KK RCAMDK1
              31    RD    1700  0.0380   0.022       0    TRAP      60       2
                    *
              32    KK  CAMDK2
              33    KM   BASIN PARAMETERS TAKEN FROM CAM-10 ALTERNATIVES SUMMARY, APPENDIX A-3
              34    BA   0.255
              35    PB    3.28
              36    LS       0      88
              37    UD   0.242
                    *
              38    KK  COMDK2
              39    KM   COMBINE CAMDK1 AND CAMDK2
              40    HC       2
                    *
```



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

```
          41          KK RCAMDK2
          42          KM   ROUTE TO COMDK1
          43          RD    1600    0.03   0.022       0    TRAP      60       2
                      *

          44          KK  CAMDK3
          45          KM   BASIN PARAMETERS TAKEN FROM CAM-10 ALTERNATIVES SUMMARY, APPENDIX A-3
          46          BA   0.365
          47          PB    3.31
          48          LS       0      88
          49          UD   0.289
                      *

          50          KK  COMDK3
          51          KM   COMBINE CAMDK3 AND RCAMDK2
          52          HC       2
                      *

          53          KK  CAM10D
          54          KM   BASIN PARAMETERS TAKEN FROM CAM-10 ALTERNATIVES SUMMARY, APPENDIX A-3
          55          BA    .043
          56          PB    3.39
          57          LS       0    95.6
          58          UD   0.184
                      *

          59          KK  CAM10a
          60          KM   BASIN PARAMETERS TAKEN FROM CAM-10 ALTERNATIVES SUMMARY, APPENDIX A-3
          61          BA    1.67
          62          LS       0      88
          63          UD   0.461
                      *

          64          KK  CAM10b
          65          KM   BASIN PARAMETERS TAKEN FROM CAM-10 ALTERNATIVES SUMMARY, APPENDIX A-3
          66          BA    .031
          67          LS       0      88
          68          UD    0.10
                      *

          69          KK  CAM10c
          70          KM   BASIN PARAMETERS TAKEN FROM CAM-10 ALTERNATIVES SUMMARY, APPENDIX A-3
          71          BA     1.3
          72          LS       0      88
          73          UD   0.452
                      *

          74          KK  COMCAM
          75          KM   COMBINE CAM10A, CAM10B, CAM10C, CAM10D, AND COMDK3
          76          HC       5
                      *
1                                                HEC-1 INPUT                                                PAGE  3

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

          77          KKDETCAM10
          78          KM   DETENTION BASIN RATING CURVE BY LBG
          79          RS       1    STOR      -1
          80          SV     0.0     0.7     5.6    18.5    40.1    67.4    97.1   128.2   160.5   194.1
          81          SV   229.1   265.3   302.9   341.7   361.1
          82          SE    2974    2976    2978    2980    2982    2984    2986    2988    2990    2992
          83          SE    2994    2996    2998    3000    3001
          84          SQ     0.0    24.1    53.8    72.2    86.8    99.2   110.3   120.3   129.6   138.3
          85          SQ   146.4   154.1   161.4   168.5  2847.6
          86          SE    2974    2976    2978    2980    2982    2984    2986    2988    2990    2992
          87          SE    2994    2996    2998    3000    3001
                      *

          88          KK  RCAM10
          89          RD    3200    .019   0.013       0    CIRC     4.0
                      *

          90          KK  CDMNA3
          91          KM   BASIN FROM MPU
          92          PB    3.21
          93          BA   0.140
          94          LS       0    84.0
          95          UD   0.244
                      *

          96          KK  EFPOA1
          97          KM
          98          PB    3.22
          99          BA   0.311
         100          LS       0    82.1
         101          UD   0.233
                      *

         102          KK   COM1A
         103          KM   COMBINE RPOA1 AND EFPOA2 JUST SOUTH OF TROPICAL PARKWAY
         104          HC       2
                      *

         105          KK  RCOM1A
```

```
  106          RD    1600    .005   0.015       0    TRAP      10       0
               *

  107          KK  EFPOA2
  108          KM
  109          PB    3.23
  110          BA   0.227
  111          LS       0    81.8
  112          UD   0.254
               *
1                                          HEC-1 INPUT                                                    PAGE  4

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

  113          KK   COM1B
  114          KM   COMBINE RCOM1A, AND EFPOA2 JUST SOUTH OF TROPICAL PARKWAY
  115          HC       2
               *

  116          KK  RCOM1B
  117          KM   ROUTE TO EPOB1
  118          RD    1600    .005    .015       0    TRAP      12       0
               *

  119          KK  EFPOB1
  120          KM
  121          PB    3.25
  122          BA   0.238
  123          LS       0    85.6
  124          UD   0.262
               *

  125          KK    COM2
  126          KM   COMBINE RCOM1B, RCAM10, AND EFPOB1 AT WEST LA MANCHA AVENUE
  127          HC       3
               *

  128          KK   RCOM2
  129          KM   ROUTE TO ANN ROAD
  130          RD    1900    .005    .015       0    TRAP      14       0
               *

  131          KK  EFPOB2
  132          KM   BASIN BY LBG
  133          BA   0.260
  134          PB    3.28
  135          LS       0    85.6
  136          UD   0.168
               *

  137          KK    COM3
  138          KM   COMBINE RCOM2, AND EFPOB2 AT ANN ROAD
  139          HC       2
               *

  140          KK    WBCA
  141          KM   BASIN FROM CENT TO ANN
  142          BA  0.0597
  143          PB    3.20
  144          LS       0    92.0
  145          UD   0.394
               *
1                                          HEC-1 INPUT                                                    PAGE  5

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

  146          KKHLBW1-CA
  147          BA  0.3933
  148          PB    3.30
  149          LS       0    86.6
  150          UD   0.281
               *

  151          KK    COM4
  152          KM  COMBINE COM3, WBCA, AND HLBW1-CA
  153          KM  LAS VEGAS BELTWAY @ ANN ROAD
  154          HC       3
               *

  155          KK   RCOM4
  156          KM  ROUTE COM4 TO HLBW1-CB
  157          RD    1800  0.0250   0.015       0    TRAP      14       0
               *

  158          KKHLBW1-CB
  159          BA  0.1171
  160          PB    3.22
  161          LS       0    83.7
  162          UD   0.214
               *

  163          KK    COM5
  164          KM  COMBINE RCOM4 & HLBW1-CB
```

```
                165          HC       2
                             *
                166          KK   RCOM5
                167          KM  ROUTE COM5 TO WRBW1
                168          RD    2000   0.050   0.015       0    TRAP      14       0
                             *
                169          KK    WBAW
                170          BA  0.0570
                171          PB    3.20
                172          LS       0    88.0
                173          UD   0.223
                             *
                174          KK   WRBW1
                175          BA  0.2444
                176          PB    3.23
                177          LS       0    84.1
                178          UD   0.210
                             *
1                                                  HEC-1 INPUT                                                    PAGE  6

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

                179          KK    COM6
                180          KM  COMBINE RCOM5, WBAW, & WRBW1
                181          KM  LAS VEGAS BELTWAY @ WASHBURN ROAD
                182          HC       3
                             *
                183          KK   RCOM6
                184          KM  ROUTE COM6 TO CLMDBN
                185          RD    1600  0.0050   0.015       0    TRAP      14       0
                             *
                186          KK  LWBW1C
                187          BA  0.0570
                188          PB    3.20
                189          LS       0    88.3
                190          UD   0.126
                             *
                191          KK   LMDBN
                192          BA  0.0237
                193          PB    3.18
                194          LS       0    84.8
                195          UD   0.161
                             *
                196          KK  CLMDBN
                197          KM  COMBINE LMDBN AND RCOM6
                198          HC       3
                             *
                199          KKBOXCANYON
                200          BA   3.414
                201          PB    3.55
                202          LS       0    86.2
                203          UD   0.726
                             *
                204          KK DBOXDET
                205          KM  MAXIMUM DISCHARGE 15 CFS
                206          KM  FACILITY = GOWAN BOX CANYON
                207          KM  FACILITY # = GOBX 0118
                208          KM  BOX CANYON FUTURE DETENTION BASIN
                209          RS       1    STOR      -1
                210          SV       0       1     400
                211          SQ       0       1      15
                212          SE       0       1      40
                             *
                213          KK RBOXDET
                214          KM  ROUTE THRU LWBW1A
                215          KM  LONE MOUNTAIN
                216          RD    7000  0.0647   0.013       0    CIRC     5.5
                             *
1                                                  HEC-1 INPUT                                                    PAGE  7

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

                217          KK  LWBW1A
                218          BA  0.3213
                219          PB    3.31
                220          LS       0    83.0
                221          UD   0.223
                             *
                222          KK UVB1-2A
                223          BA  0.2453
                224          PB    3.30
                225          LS       0    86.4
```

```
226          UD   0.191
             *

227          KK  NDIV2A
228          KM   RATING CURVE DATA TAKEM FROM MPU
229          KM  DIVERT 288 CFS FROM UVB1-2A TO PEACEFUL DAWN
230          DT  EDIV2A
231          DI       0     290    5000
232          DQ       0     282     282
             *

233          KKRUVB1-2A
234          RD     700  0.0050   0.016       0    TRAP      80       0
             *

235          KK    COM7
236          KM  COMBINE RBOXDET, LWBW1A, AND RUVB1-2A
237          HC       3
             *

238          KK   RCOM7
239          KM  ROUTE COM7 TO COM8
240          RD    1000  0.0600   0.016       0    TRAP      80       0
             *

241          KK UVB1-2B
242          BA  0.0192
243          PB    3.23
244          LS       0    91.0
245          UD   0.100
             *

246          KK  LWBW1B
247          BA  0.0755
248          PB    3.24
249          LS       0    90.0
250          UD   0.151
             *
```



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

251          KK    COM8
252          KM  COMBINE LWBW1B, RCOM7, UVB1-2B
253          KM  LAS VEGAS BELTWAY @ LONE MOUNTAIN
254          HC       3
             *

255          KK   RCOM8
256          RD    1300  0.0500   0.015       0    CIRC       5       0
             *

257          KKRETDIV2A
258          KM  RETRIEVE DIVERSION AT PEACEFUL DAWN
259          DR  EDIV2A
             *

260          KK  RDIV2A
261          KM  ROUTE DIV2A TO CUVB1-2C
262          RD    1000  0.0700   0.016       0    TRAP      50       0
             *

263          KK UVB1-2C
264          BA  0.0323
265          PB    3.23
266          LS       0    90.0
267          UD   0.125
             *

268          KK   COM10
269          KM  COMBINE RDIV2A AND UVB1-2C
270          KM
271          HC       2
             *

272          KK    COM9
273          KM  COMBINE RCOM8 & COM10
274          HC       2
             *

275          KK UVB1-1C
276          BA  0.0185
277          PB    3.23
278          LS       0    91.0
279          UD   0.091
             *

280          KKRUVB1-1C
281          KM  ROUTE UVB1-1C TO COM11
282          RD     900   0.050   0.016       0    TRAP      50       0
             *
```



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

```
          283          KK UVB1-1B
          284          BA  0.0124
          285          PB    3.20
          286          LS       0    91.0
          287          UD   0.080
                       *

          288          KK   COM11
          289          KM  COMBINE RUVB1-1C AND UVB1-1B
          290          HC       2
                       *

          291          KK UVB1-1A
          292          BA  0.2198
          293          PB    3.28
          294          LS       0    91.0
          295          UD   0.149
                       *

          296          KKRUVB1-1A
          297          RD    1300   0.040   0.015       0    TRAP      10       0
                       *

          298          KK UVB1-1D
          299          BA  0.0355
          300          PB    3.20
          301          LS       0    91.0
          302          UD   0.100
                       *

          303          KK   COM12
          304          KM  COMBINE RUVB1-1A AND UVB1-1D
          305          HC       2
                       *

          306          KK  RCOM12
          307          KM  ROUTE COM12 TO COM13
          308          RD    1200   0.042   0.015       0    TRAP      10       0
                       *

          309          KK UVB1-1E
          310          BA  0.0280
          311          PB    3.24
          312          LS       0    91.0
          313          UD   0.100
                       *

          314          KKRUVB1-1E
          315          RD    2000   0.033   0.015       0    TRAP      10       0
                       *
1                                        HEC-1 INPUT                                                    PAGE 10

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

          316          KK   COM13
          317          KM  COMBINE RCOM11, RCOM12, & RUVB1-1E
          318          HC       3
                       *

          319          KK    WBCL
          320          BA  0.0312
          321          PB    3.21
          322          LS       0    92.0
          323          UD   0.126
                       *

          324          KK   LMBW1
          325          BA  0.0841
          326          PB    3.18
          327          LS       0    81.5
          328          UD   0.119
                       *

          329          KK   COM14
          330          KM  COMBINE LMBW1, WBCL, RCOM13
          331          HC       3
                       *

          332          KK   LMDBS
          333          BA  0.0589
          334          PB    3.20
          335          LS       0    84.8
          336          UD   0.102
                       *

          337          KK  CLMDBS
          338          KM  COMBINE COM9, COM10, COM14, & LMDBS
          339          KM  COMBINE INFLOW INTO LONE MOUNTAIN - BELTWAY DETENTION BASIN
          340          HC       3
                       *

          341          KKCLMBWCDB
```

```
            342           KM  COMBINE CLMDBS & CLMDBN
            343           KO       1
            344           HC       2
                          *

            345           KK LMBWCDB
            346           KM  LONE MOUNTAIN/BELTWAY DETENTION BASINS (COMBINED)
            347           KM  ROUTE COMBINED INFLOWS TO OUTFALL IN BALANCING CONDUIT
            348           KM  PEAK 100-YEAR DISCHARGE = 186 CFS
            349           KO       1
            350           RS       1    STOR      -1
            351           SV       0      15      37      90     170     298     416     556     654
            352           SQ       0      21      30      37      42      46      90      97     101
            353           SE       0       5      10      15      20      25      30      35      38
                          *
```



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

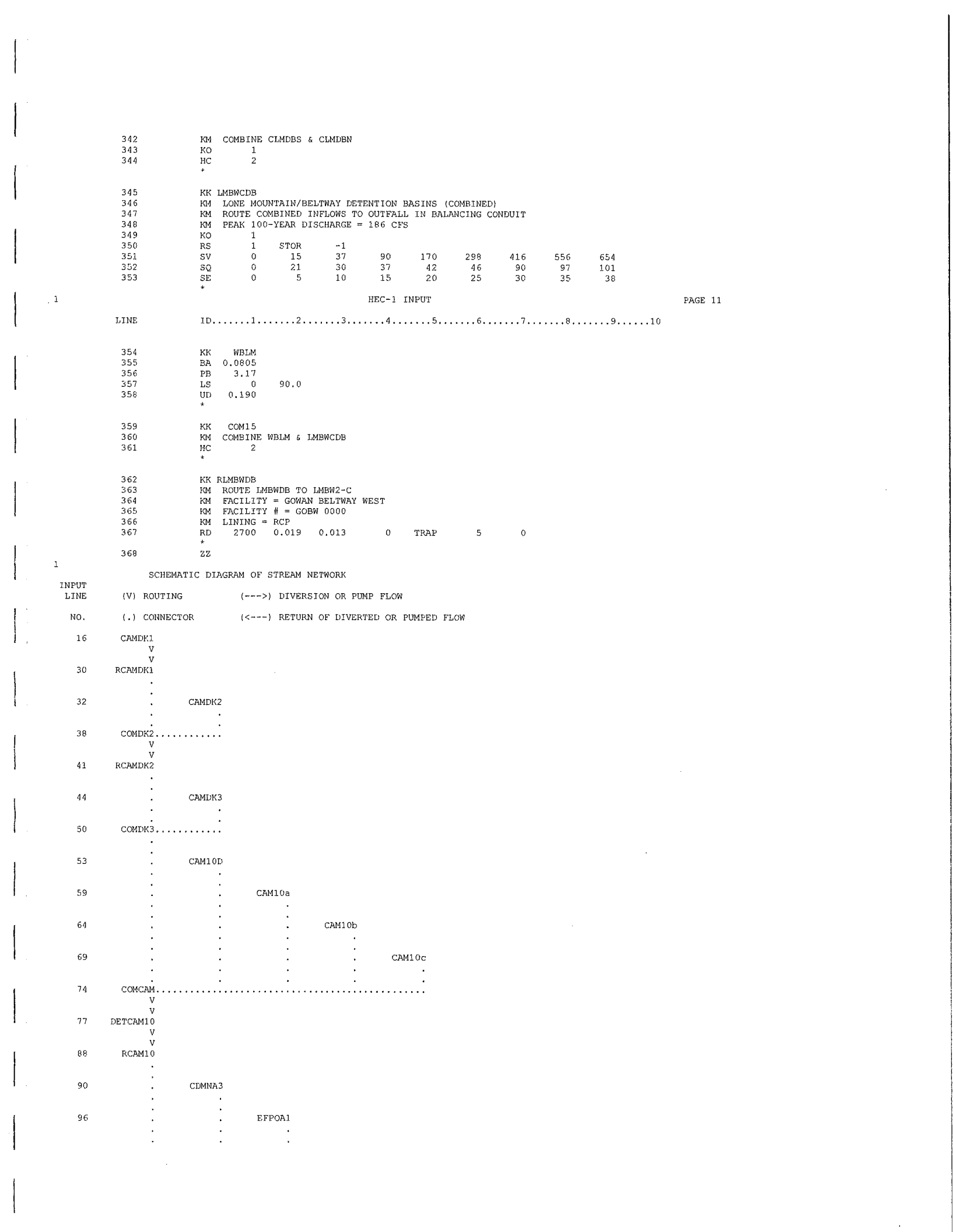
            354           KK    WBLM
            355           BA  0.0805
            356           PB    3.17
            357           LS       0    90.0
            358           UD   0.190
                          *

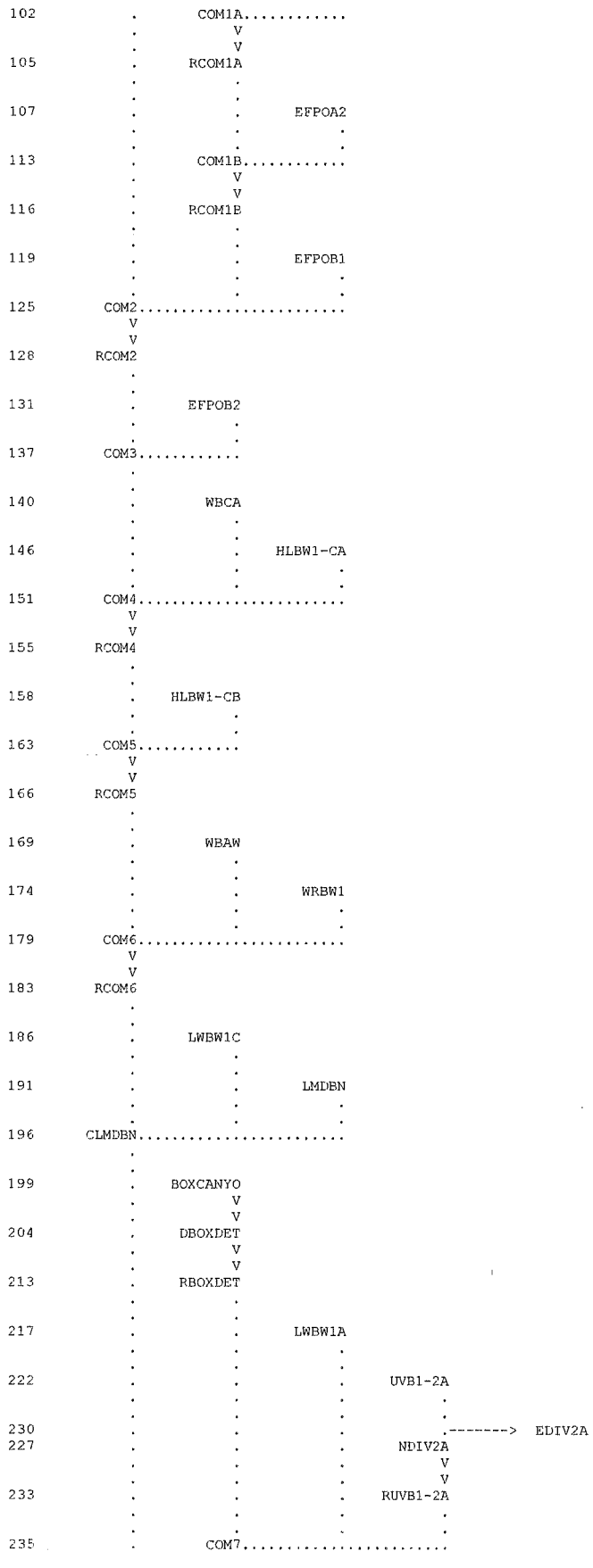
            359           KK   COM15
            360           KM  COMBINE WBLM & LMBWCDB
            361           HC       2
                          *

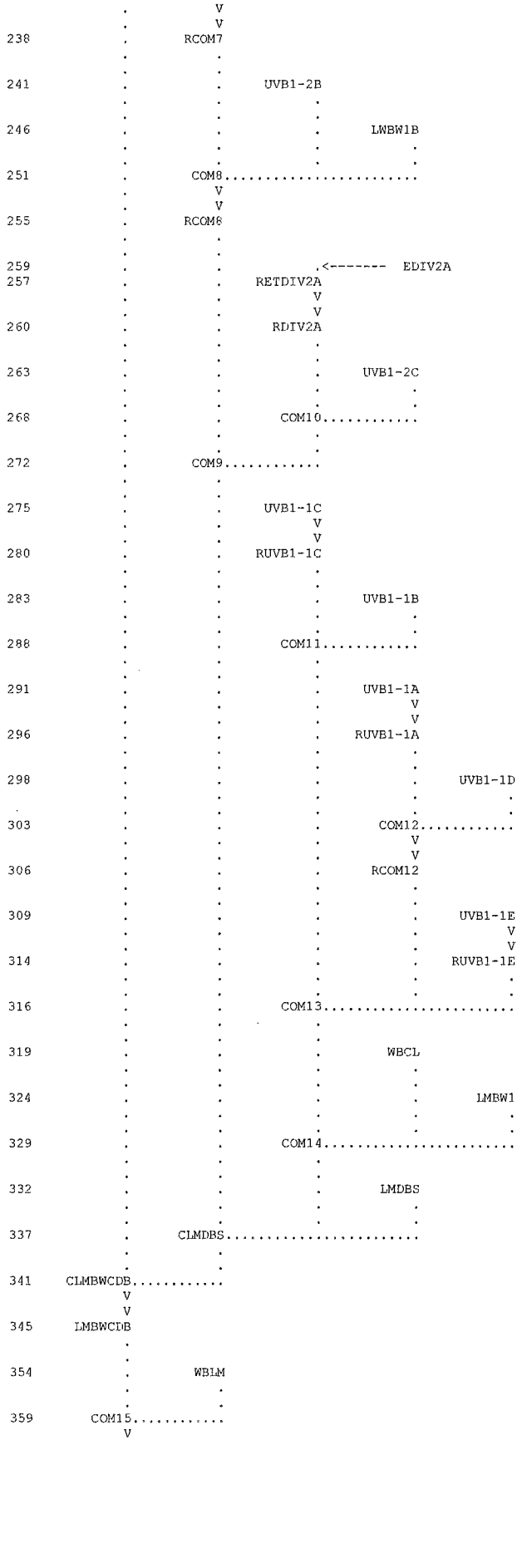
            362           KK RLMBWDB
            363           KM  ROUTE LMBWDB TO LMBW2-C
            364           KM  FACILITY = GOWAN BELTWAY WEST
            365           KM  FACILITY # = GOBW 0000
            366           KM  LINING = RCP
            367           RD    2700   0.019   0.013       0    TRAP       5       0
                          *
            368           ZZ
```

1

SCHEMATIC DIAGRAM OF STREAM NETWORK




102 COM1A
105 RCOM1A
107 EFPOA2
113 COM1B
116 RCOM1B
119 EFPOB1
125 COM2
128 RCOM2
131 EFPOB2
137 COM3
140 WBCA
146 HLBW1-CA
151 COM4
155 RCOM4
158 HLBW1-CB
163 COM5
166 RCOM5
169 WBAW
174 WRBW1
179 COM6
183 RCOM6
186 LWBW1C
191 LMDBN
196 CLMDBN
199 BOXCANYO
204 DBOXDET
213 RBOXDET
217 LWBW1A
222 UVB1-2A
230
227 NDIV2A
233 RUVB1-2A
235 COM7
EDIV2A


RCOM7
UVB1-2B
LWBW1B
COM8
RCOM8
EDIV2A
RETDIV2A
RDIV2A
UVB1-2C
COM10
COM9
UVB1-1C
RUVB1-1C
UVB1-1B
COM11
UVB1-1A
RUVB1-1A
UVB1-1D
COM12
RCOM12
UVB1-1E
RUVB1-1E
COM13
WBCL
LMBW1
COM14
LMDBS
CLMDBS
CLMBWCDB
LMBWCDB
WBLM
COM15

```
              V
  362     RLMBWDB

 (***) RUNOFF ALSO COMPUTED AT THIS LOCATION
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*               JUN   1998              *
*            VERSION 4.1                *
*                                       *
*  RUN DATE   22JUL04  TIME  17:24:24   *
*                                       *
*****************************************

                                    ************************************
                                    *                                  *
                                    *    U.S. ARMY CORPS OF ENGINEERS  *
                                    *    HYDROLOGIC ENGINEERING CENTER *
                                    *          609 SECOND STREET       *
                                    *       DAVIS, CALIFORNIA 95616    *
                                    *           (916) 756-1104         *
                                    *                                  *
                                    ************************************

                        NORTHERN BELTWAY ANN ROAD TO EL CAPITAN
                        DRAFT 2002 MPU MODEL BY PBS&J WAS USED AS A BASE AND MODIFIED BY
                        THE LOUIS BERGER GROUP (LBG) FOR THE PURPOSES OF THE BELTWAY CHANNEL DESIGN
                        LBG MODEL WAS FURTHER MODIFIED BY G.C. WALLACE TO INCLUDE ONLY THOSE BASINS
                        IMPACTING THE LONE MOUNTAIN DETENTION BASINS
                        HYDROLOGIC TECH MEMO MODEL WAS MODIFIED TO SHOW ROUTING CHANGE AT SOUTH DB
                        INPUT FILE = WBMOD1.DAT
                        INPUT FILE DATE = 7/16/04
                        DESIGN STORM = 100-YEAR 6-HOUR STORM
                        STORM DISTRIBUTION = SDN3
                        MODELED BY = JTL

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

     IT          HYDROGRAPH TIME DATA
                      NMIN           5  MINUTES IN COMPUTATION INTERVAL
                     IDATE      1    0  STARTING DATE
                     ITIME         0000  STARTING TIME
                        NQ          800  NUMBER OF HYDROGRAPH ORDINATES
                    NDDATE      3    0  ENDING DATE
                    NDTIME         1835  ENDING TIME
                     ICENT          19  CENTURY MARK

                   COMPUTATION INTERVAL      .08 HOURS
                      TOTAL TIME BASE    66.58 HOURS

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

     JP          MULTI-PLAN OPTION
                      NPLAN           1  NUMBER OF PLANS

     JR          MULTI-RATIO OPTION
                     RATIOS OF PRECIPITATION
                    1.00       .98       .97       .95       .93       .91       .90       .88


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


              **************
              *            *
 341 KK       *  CLMBWCDB  *
              *            *
              **************

 343 KO          OUTPUT CONTROL VARIABLES
                      IPRNT           1  PRINT CONTROL
                      IPLOT           0  PLOT CONTROL
                      QSCAL          0.  HYDROGRAPH PLOT SCALE

 344 HC          HYDROGRAPH COMBINATION
                      ICOMP           2  NUMBER OF HYDROGRAPHS TO COMBINE

                                                 ***

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

                                                HYDROGRAPH AT STATION CLMBWCDB
                                                     SUM OF  2 HYDROGRAPHS
                                                   PLAN 1,   RATIO =  1.00

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

                                 *                                 *                                 *
   DA MON HRMN  ORD       FLOW   *   DA MON HRMN  ORD       FLOW   *   DA MON HRMN  ORD       FLOW   *   DA MON HRMN  ORD       FLOW
                                 *                                 *                                 *
    1     0000    1         0.   *    1     1640  201        157.   *    2     0920  401        105.   *    3     0200  601         13.
```

1	0005	2	0.	*	1	1645	202	157.	*	2	0925	402	105.	*	3	0205	602	13.
1	0010	3	0.	*	1	1650	203	156.	*	2	0930	403	104.	*	3	0210	603	13.
1	0015	4	0.	*	1	1655	204	156.	*	2	0935	404	104.	*	3	0215	604	13.
1	0020	5	3.	*	1	1700	205	156.	*	2	0940	405	104.	*	3	0220	605	13.
1	0025	6	12.	*	1	1705	206	156.	*	2	0945	406	103.	*	3	0225	606	13.
1	0030	7	29.	*	1	1710	207	155.	*	2	0950	407	103.	*	3	0230	607	13.
1	0035	8	44.	*	1	1715	208	155.	*	2	0955	408	103.	*	3	0235	608	13.
1	0040	9	48.	*	1	1720	209	155.	*	2	1000	409	103.	*	3	0240	609	13.
1	0045	10	44.	*	1	1725	210	155.	*	2	1005	410	102.	*	3	0245	610	13.
1	0050	11	40.	*	1	1730	211	155.	*	2	1010	411	102.	*	3	0250	611	13.
1	0055	12	38.	*	1	1735	212	154.	*	2	1015	412	102.	*	3	0255	612	13.
1	0100	13	37.	*	1	1740	213	154.	*	2	1020	413	102.	*	3	0300	613	13.
1	0105	14	37.	*	1	1745	214	154.	*	2	1025	414	101.	*	3	0305	614	13.
1	0110	15	43.	*	1	1750	215	154.	*	2	1030	415	101.	*	3	0310	615	13.
1	0115	16	53.	*	1	1755	216	153.	*	2	1035	416	101.	*	3	0315	616	13.
1	0120	17	62.	*	1	1800	217	153.	*	2	1040	417	100.	*	3	0320	617	13.
1	0125	18	76.	*	1	1805	218	153.	*	2	1045	418	100.	*	3	0325	618	13.
1	0130	19	102.	*	1	1810	219	153.	*	2	1050	419	100.	*	3	0330	619	13.
1	0135	20	136.	*	1	1815	220	152.	*	2	1055	420	99.	*	3	0335	620	13.
1	0140	21	165.	*	1	1820	221	152.	*	2	1100	421	99.	*	3	0340	621	13.
1	0145	22	185.	*	1	1825	222	152.	*	2	1105	422	98.	*	3	0345	622	13.
1	0150	23	192.	*	1	1830	223	152.	*	2	1110	423	98.	*	3	0350	623	13.
1	0155	24	183.	*	1	1835	224	152.	*	2	1115	424	98.	*	3	0355	624	13.
1	0200	25	164.	*	1	1840	225	151.	*	2	1120	425	97.	*	3	0400	625	13.
1	0205	26	147.	*	1	1845	226	151.	*	2	1125	426	97.	*	3	0405	626	13.
1	0210	27	147.	*	1	1850	227	151.	*	2	1130	427	96.	*	3	0410	627	13.
1	0215	28	180.	*	1	1855	228	151.	*	2	1135	428	96.	*	3	0415	628	13.
1	0220	29	236.	*	1	1900	229	150.	*	2	1140	429	96.	*	3	0420	629	13.
1	0225	30	286.	*	1	1905	230	150.	*	2	1145	430	95.	*	3	0425	630	13.
1	0230	31	305.	*	1	1910	231	150.	*	2	1150	431	95.	*	3	0430	631	13.
1	0235	32	295.	*	1	1915	232	150.	*	2	1155	432	95.	*	3	0435	632	13.
1	0240	33	296.	*	1	1920	233	149.	*	2	1200	433	94.	*	3	0440	633	13.
1	0245	34	321.	*	1	1925	234	149.	*	2	1205	434	94.	*	3	0445	634	13.
1	0250	35	334.	*	1	1930	235	149.	*	2	1210	435	93.	*	3	0450	635	13.
1	0255	36	319.	*	1	1935	236	149.	*	2	1215	436	93.	*	3	0455	636	13.
1	0300	37	307.	*	1	1940	237	148.	*	2	1220	437	93.	*	3	0500	637	13.
1	0305	38	361.	*	1	1945	238	148.	*	2	1225	438	92.	*	3	0505	638	13.
1	0310	39	514.	*	1	1950	239	148.	*	2	1230	439	92.	*	3	0510	639	13.
1	0315	40	798.	*	1	1955	240	148.	*	2	1235	440	92.	*	3	0515	640	13.
1	0320	41	1348.	*	1	2000	241	147.	*	2	1240	441	91.	*	3	0520	641	13.
1	0325	42	2193.	*	1	2005	242	147.	*	2	1245	442	91.	*	3	0525	642	13.
1	0330	43	3240.	*	1	2010	243	147.	*	2	1250	443	90.	*	3	0530	643	13.
1	0335	44	4035.	*	1	2015	244	147.	*	2	1255	444	90.	*	3	0535	644	13.
1	0340	45	4200.	*	1	2020	245	146.	*	2	1300	445	90.	*	3	0540	645	13.
1	0345	46	3927.	*	1	2025	246	146.	*	2	1305	446	89.	*	3	0545	646	13.
1	0350	47	3377.	*	1	2030	247	146.	*	2	1310	447	89.	*	3	0550	647	13.
1	0355	48	2744.	*	1	2035	248	146.	*	2	1315	448	89.	*	3	0555	648	13.
1	0400	49	2230.	*	1	2040	249	145.	*	2	1320	449	88.	*	3	0600	649	13.
1	0405	50	1832.	*	1	2045	250	145.	*	2	1325	450	88.	*	3	0605	650	13.
1	0410	51	1481.	*	1	2050	251	145.	*	2	1330	451	88.	*	3	0610	651	13.
1	0415	52	1198.	*	1	2055	252	145.	*	2	1335	452	87.	*	3	0615	652	13.
1	0420	53	1007.	*	1	2100	253	144.	*	2	1340	453	87.	*	3	0620	653	13.
1	0425	54	905.	*	1	2105	254	144.	*	2	1345	454	87.	*	3	0625	654	13.
1	0430	55	915.	*	1	2110	255	144.	*	2	1350	455	86.	*	3	0630	655	13.
1	0435	56	1016.	*	1	2115	256	144.	*	2	1355	456	86.	*	3	0635	656	13.
1	0440	57	1102.	*	1	2120	257	144.	*	2	1400	457	85.	*	3	0640	657	13.
1	0445	58	1132.	*	1	2125	258	143.	*	2	1405	458	85.	*	3	0645	658	13.
1	0450	59	1160.	*	1	2130	259	143.	*	2	1410	459	84.	*	3	0650	659	13.
1	0455	60	1176.	*	1	2135	260	143.	*	2	1415	460	83.	*	3	0655	660	13.
1	0500	61	1115.	*	1	2140	261	143.	*	2	1420	461	83.	*	3	0700	661	13.
1	0505	62	1130.	*	1	2145	262	142.	*	2	1425	462	82.	*	3	0705	662	13.
1	0510	63	1302.	*	1	2150	263	142.	*	2	1430	463	81.	*	3	0710	663	13.
1	0515	64	1416.	*	1	2155	264	142.	*	2	1435	464	81.	*	3	0715	664	13.
1	0520	65	1374.	*	1	2200	265	141.	*	2	1440	465	80.	*	3	0720	665	13.
1	0525	66	1244.	*	1	2205	266	141.	*	2	1445	466	79.	*	3	0725	666	13.
1	0530	67	1090.	*	1	2210	267	141.	*	2	1450	467	79.	*	3	0730	667	13.
1	0535	68	930.	*	1	2215	268	141.	*	2	1455	468	78.	*	3	0735	668	13.
1	0540	69	784.	*	1	2220	269	140.	*	2	1500	469	78.	*	3	0740	669	13.
1	0545	70	665.	*	1	2225	270	140.	*	2	1505	470	77.	*	3	0745	670	13.
1	0550	71	571.	*	1	2230	271	140.	*	2	1510	471	76.	*	3	0750	671	13.
1	0555	72	488.	*	1	2235	272	140.	*	2	1515	472	76.	*	3	0755	672	13.
1	0600	73	418.	*	1	2240	273	139.	*	2	1520	473	75.	*	3	0800	673	13.
1	0605	74	361.	*	1	2245	274	139.	*	2	1525	474	74.	*	3	0805	674	13.
1	0610	75	309.	*	1	2250	275	139.	*	2	1530	475	74.	*	3	0810	675	13.
1	0615	76	264.	*	1	2255	276	139.	*	2	1535	476	73.	*	3	0815	676	13.
1	0620	77	231.	*	1	2300	277	138.	*	2	1540	477	73.	*	3	0820	677	13.
1	0625	78	211.	*	1	2305	278	138.	*	2	1545	478	72.	*	3	0825	678	13.
1	0630	79	200.	*	1	2310	279	138.	*	2	1550	479	71.	*	3	0830	679	13.
1	0635	80	193.	*	1	2315	280	138.	*	2	1555	480	71.	*	3	0835	680	13.
1	0640	81	189.	*	1	2320	281	137.	*	2	1600	481	70.	*	3	0840	681	13.
1	0645	82	187.	*	1	2325	282	137.	*	2	1605	482	70.	*	3	0845	682	13.
1	0650	83	185.	*	1	2330	283	137.	*	2	1610	483	69.	*	3	0850	683	13.
1	0655	84	184.	*	1	2335	284	137.	*	2	1615	484	69.	*	3	0855	684	13.
1	0700	85	183.	*	1	2340	285	136.	*	2	1620	485	68.	*	3	0900	685	13.
1	0705	86	182.	*	1	2345	286	136.	*	2	1625	486	67.	*	3	0905	686	13.
1	0710	87	182.	*	1	2350	287	136.	*	2	1630	487	66.	*	3	0910	687	13.
1	0715	88	182.	*	1	2355	288	136.	*	2	1635	488	65.	*	3	0915	688	13.
1	0720	89	181.	*	2	0000	289	135.	*	2	1640	489	63.	*	3	0920	689	13.
1	0725	90	181.	*	2	0005	290	135.	*	2	1645	490	61.	*	3	0925	690	13.
1	0730	91	181.	*	2	0010	291	135.	*	2	1650	491	59.	*	3	0930	691	13.
1	0735	92	181.	*	2	0015	292	135.	*	2	1655	492	57.	*	3	0935	692	13.
1	0740	93	180.	*	2	0020	293	134.	*	2	1700	493	55.	*	3	0940	693	13.
1	0745	94	180.	*	2	0025	294	134.	*	2	1705	494	53.	*	3	0945	694	13.
1	0750	95	180.	*	2	0030	295	134.	*	2	1710	495	52.	*	3	0950	695	13.
1	0755	96	180.	*	2	0035	296	134.	*	2	1715	496	50.	*	3	0955	696	13.

1	0800	97	180.	*	2	0040	297	133.	*	2	1720	497	49.	*	3	1000	697	13.
1	0805	98	179.	*	2	0045	298	133.	*	2	1725	498	47.	*	3	1005	698	13.
1	0810	99	179.	*	2	0050	299	133.	*	2	1730	499	46.	*	3	1010	699	13.
1	0815	100	179.	*	2	0055	300	133.	*	2	1735	500	45.	*	3	1015	700	13.
1	0820	101	179.	*	2	0100	301	132.	*	2	1740	501	43.	*	3	1020	701	13.
1	0825	102	179.	*	2	0105	302	132.	*	2	1745	502	42.	*	3	1025	702	13.
1	0830	103	178.	*	2	0110	303	132.	*	2	1750	503	41.	*	3	1030	703	13.
1	0835	104	178.	*	2	0115	304	132.	*	2	1755	504	40.	*	3	1035	704	13.
1	0840	105	178.	*	2	0120	305	131.	*	2	1800	505	39.	*	3	1040	705	13.
1	0845	106	178.	*	2	0125	306	131.	*	2	1805	506	37.	*	3	1045	706	13.
1	0850	107	178.	*	2	0130	307	131.	*	2	1810	507	34.	*	3	1050	707	13.
1	0855	108	177.	*	2	0135	308	131.	*	2	1815	508	30.	*	3	1055	708	13.
1	0900	109	177.	*	2	0140	309	130.	*	2	1820	509	27.	*	3	1100	709	13.
1	0905	110	177.	*	2	0145	310	130.	*	2	1825	510	24.	*	3	1105	710	13.
1	0910	111	177.	*	2	0150	311	130.	*	2	1830	511	22.	*	3	1110	711	13.
1	0915	112	177.	*	2	0155	312	130.	*	2	1835	512	20.	*	3	1115	712	13.
1	0920	113	176.	*	2	0200	313	129.	*	2	1840	513	19.	*	3	1120	713	13.
1	0925	114	176.	*	2	0205	314	129.	*	2	1845	514	18.	*	3	1125	714	13.
1	0930	115	176.	*	2	0210	315	129.	*	2	1850	515	17.	*	3	1130	715	13.
1	0935	116	176.	*	2	0215	316	128.	*	2	1855	516	16.	*	3	1135	716	13.
1	0940	117	175.	*	2	0220	317	128.	*	2	1900	517	15.	*	3	1140	717	13.
1	0945	118	175.	*	2	0225	318	128.	*	2	1905	518	15.	*	3	1145	718	13.
1	0950	119	175.	*	2	0230	319	128.	*	2	1910	519	15.	*	3	1150	719	13.
1	0955	120	175.	*	2	0235	320	127.	*	2	1915	520	14.	*	3	1155	720	13.
1	1000	121	175.	*	2	0240	321	127.	*	2	1920	521	14.	*	3	1200	721	13.
1	1005	122	174.	*	2	0245	322	127.	*	2	1925	522	14.	*	3	1205	722	13.
1	1010	123	174.	*	2	0250	323	127.	*	2	1930	523	14.	*	3	1210	723	13.
1	1015	124	174.	*	2	0255	324	126.	*	2	1935	524	14.	*	3	1215	724	13.
1	1020	125	174.	*	2	0300	325	126.	*	2	1940	525	14.	*	3	1220	725	13.
1	1025	126	173.	*	2	0305	326	126.	*	2	1945	526	13.	*	3	1225	726	13.
1	1030	127	173.	*	2	0310	327	126.	*	2	1950	527	13.	*	3	1230	727	13.
1	1035	128	173.	*	2	0315	328	125.	*	2	1955	528	13.	*	3	1235	728	13.
1	1040	129	173.	*	2	0320	329	125.	*	2	2000	529	13.	*	3	1240	729	13.
1	1045	130	173.	*	2	0325	330	125.	*	2	2005	530	13.	*	3	1245	730	13.
1	1050	131	172.	*	2	0330	331	125.	*	2	2010	531	13.	*	3	1250	731	13.
1	1055	132	172.	*	2	0335	332	124.	*	2	2015	532	13.	*	3	1255	732	13.
1	1100	133	172.	*	2	0340	333	124.	*	2	2020	533	13.	*	3	1300	733	13.
1	1105	134	172.	*	2	0345	334	124.	*	2	2025	534	13.	*	3	1305	734	13.
1	1110	135	172.	*	2	0350	335	124.	*	2	2030	535	13.	*	3	1310	735	13.
1	1115	136	171.	*	2	0355	336	123.	*	2	2035	536	13.	*	3	1315	736	13.
1	1120	137	171.	*	2	0400	337	123.	*	2	2040	537	13.	*	3	1320	737	13.
1	1125	138	171.	*	2	0405	338	123.	*	2	2045	538	13.	*	3	1325	738	13.
1	1130	139	171.	*	2	0410	339	122.	*	2	2050	539	13.	*	3	1330	739	13.
1	1135	140	170.	*	2	0415	340	122.	*	2	2055	540	13.	*	3	1335	740	13.
1	1140	141	170.	*	2	0420	341	122.	*	2	2100	541	13.	*	3	1340	741	13.
1	1145	142	170.	*	2	0425	342	122.	*	2	2105	542	13.	*	3	1345	742	13.
1	1150	143	170.	*	2	0430	343	121.	*	2	2110	543	13.	*	3	1350	743	12.
1	1155	144	170.	*	2	0435	344	121.	*	2	2115	544	13.	*	3	1355	744	12.
1	1200	145	169.	*	2	0440	345	121.	*	2	2120	545	13.	*	3	1400	745	12.
1	1205	146	169.	*	2	0445	346	121.	*	2	2125	546	13.	*	3	1405	746	12.
1	1210	147	169.	*	2	0450	347	120.	*	2	2130	547	13.	*	3	1410	747	12.
1	1215	148	169.	*	2	0455	348	120.	*	2	2135	548	13.	*	3	1415	748	12.
1	1220	149	169.	*	2	0500	349	120.	*	2	2140	549	13.	*	3	1420	749	12.
1	1225	150	168.	*	2	0505	350	119.	*	2	2145	550	13.	*	3	1425	750	12.
1	1230	151	168.	*	2	0510	351	119.	*	2	2150	551	13.	*	3	1430	751	12.
1	1235	152	168.	*	2	0515	352	119.	*	2	2155	552	13.	*	3	1435	752	12.
1	1240	153	168.	*	2	0520	353	119.	*	2	2200	553	13.	*	3	1440	753	12.
1	1245	154	167.	*	2	0525	354	118.	*	2	2205	554	13.	*	3	1445	754	12.
1	1250	155	167.	*	2	0530	355	118.	*	2	2210	555	13.	*	3	1450	755	12.
1	1255	156	167.	*	2	0535	356	118.	*	2	2215	556	13.	*	3	1455	756	12.
1	1300	157	167.	*	2	0540	357	118.	*	2	2220	557	13.	*	3	1500	757	12.
1	1305	158	167.	*	2	0545	358	117.	*	2	2225	558	13.	*	3	1505	758	12.
1	1310	159	166.	*	2	0550	359	117.	*	2	2230	559	13.	*	3	1510	759	12.
1	1315	160	166.	*	2	0555	360	117.	*	2	2235	560	13.	*	3	1515	760	12.
1	1320	161	166.	*	2	0600	361	116.	*	2	2240	561	13.	*	3	1520	761	12.
1	1325	162	166.	*	2	0605	362	116.	*	2	2245	562	13.	*	3	1525	762	12.
1	1330	163	165.	*	2	0610	363	116.	*	2	2250	563	13.	*	3	1530	763	12.
1	1335	164	165.	*	2	0615	364	116.	*	2	2255	564	13.	*	3	1535	764	12.
1	1340	165	165.	*	2	0620	365	115.	*	2	2300	565	13.	*	3	1540	765	12.
1	1345	166	165.	*	2	0625	366	115.	*	2	2305	566	13.	*	3	1545	766	12.
1	1350	167	165.	*	2	0630	367	115.	*	2	2310	567	13.	*	3	1550	767	12.
1	1355	168	164.	*	2	0635	368	115.	*	2	2315	568	13.	*	3	1555	768	12.
1	1400	169	164.	*	2	0640	369	114.	*	2	2320	569	13.	*	3	1600	769	12.
1	1405	170	164.	*	2	0645	370	114.	*	2	2325	570	13.	*	3	1605	770	12.
1	1410	171	164.	*	2	0650	371	114.	*	2	2330	571	13.	*	3	1610	771	12.
1	1415	172	163.	*	2	0655	372	114.	*	2	2335	572	13.	*	3	1615	772	12.
1	1420	173	163.	*	2	0700	373	113.	*	2	2340	573	13.	*	3	1620	773	12.
1	1425	174	163.	*	2	0705	374	113.	*	2	2345	574	13.	*	3	1625	774	12.
1	1430	175	163.	*	2	0710	375	113.	*	2	2350	575	13.	*	3	1630	775	12.
1	1435	176	163.	*	2	0715	376	112.	*	2	2355	576	13.	*	3	1635	776	12.
1	1440	177	162.	*	2	0720	377	112.	*	3	0000	577	13.	*	3	1640	777	12.
1	1445	178	162.	*	2	0725	378	112.	*	3	0005	578	13.	*	3	1645	778	12.
1	1450	179	162.	*	2	0730	379	111.	*	3	0010	579	13.	*	3	1650	779	12.
1	1455	180	162.	*	2	0735	380	111.	*	3	0015	580	13.	*	3	1655	780	12.
1	1500	181	161.	*	2	0740	381	111.	*	3	0020	581	13.	*	3	1700	781	12.
1	1505	182	161.	*	2	0745	382	111.	*	3	0025	582	13.	*	3	1705	782	12.
1	1510	183	161.	*	2	0750	383	110.	*	3	0030	583	13.	*	3	1710	783	12.
1	1515	184	161.	*	2	0755	384	110.	*	3	0035	584	13.	*	3	1715	784	12.
1	1520	185	161.	*	2	0800	385	110.	*	3	0040	585	13.	*	3	1720	785	12.
1	1525	186	160.	*	2	0805	386	109.	*	3	0045	586	13.	*	3	1725	786	12.
1	1530	187	160.	*	2	0810	387	109.	*	3	0050	587	13.	*	3	1730	787	12.
1	1535	188	160.	*	2	0815	388	109.	*	3	0055	588	13.	*	3	1735	788	12.
1	1540	189	160.	*	2	0820	389	108.	*	3	0100	589	13.	*	3	1740	789	12.
1	1545	190	159.	*	2	0825	390	108.	*	3	0105	590	13.	*	3	1745	790	12.
1	1550	191	159.	*	2	0830	391	108.	*	3	0110	591	13.	*	3	1750	791	12.

1	1555	192	159.	*	2	0835	392	108.	*	3	0115	592	13.	*	3	1755	792	12.
1	1600	193	159.	*	2	0840	393	107.	*	3	0120	593	13.	*	3	1800	793	12.
1	1605	194	158.	*	2	0845	394	107.	*	3	0125	594	13.	*	3	1805	794	12.
1	1610	195	158.	*	2	0850	395	107.	*	3	0130	595	13.	*	3	1810	795	12.
1	1615	196	158.	*	2	0855	396	106.	*	3	0135	596	13.	*	3	1815	796	12.
1	1620	197	158.	*	2	0900	397	106.	*	3	0140	597	13.	*	3	1820	797	12.
1	1625	198	158.	*	2	0905	398	106.	*	3	0145	598	13.	*	3	1825	798	12.
1	1630	199	157.	*	2	0910	399	105.	*	3	0150	599	13.	*	3	1830	799	12.
1	1635	200	157.	*	2	0915	400	105.	*	3	0155	600	13.	*	3	1835	800	12.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	66.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 4200.	3.67		868.	334.	151.	151.
		(INCHES)	.771	1.187	1.485	1.485
		(AC-FT)	431.	663.	829.	829.

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		1640	201	156.	*	2		0920	401	105.	*	3		0200	601	13.
1		0005	2	0.	*	1		1645	202	156.	*	2		0925	402	104.	*	3		0205	602	13.
1		0010	3	0.	*	1		1650	203	156.	*	2		0930	403	104.	*	3		0210	603	13.
1		0015	4	0.	*	1		1655	204	156.	*	2		0935	404	104.	*	3		0215	604	13.
1		0020	5	2.	*	1		1700	205	155.	*	2		0940	405	103.	*	3		0220	605	13.
1		0025	6	11.	*	1		1705	206	155.	*	2		0945	406	103.	*	3		0225	606	13.
1		0030	7	26.	*	1		1710	207	155.	*	2		0950	407	103.	*	3		0230	607	13.
1		0035	8	40.	*	1		1715	208	155.	*	2		0955	408	103.	*	3		0235	608	13.
1		0040	9	44.	*	1		1720	209	155.	*	2		1000	409	102.	*	3		0240	609	13.
1		0045	10	40.	*	1		1725	210	154.	*	2		1005	410	102.	*	3		0245	610	13.
1		0050	11	36.	*	1		1730	211	154.	*	2		1010	411	102.	*	3		0250	611	13.
1		0055	12	35.	*	1		1735	212	154.	*	2		1015	412	101.	*	3		0255	612	13.
1		0100	13	34.	*	1		1740	213	154.	*	2		1020	413	101.	*	3		0300	613	13.
1		0105	14	35.	*	1		1745	214	153.	*	2		1025	414	101.	*	3		0305	614	13.
1		0110	15	41.	*	1		1750	215	153.	*	2		1030	415	101.	*	3		0310	615	13.
1		0115	16	50.	*	1		1755	216	153.	*	2		1035	416	100.	*	3		0315	616	13.
1		0120	17	58.	*	1		1800	217	153.	*	2		1040	417	100.	*	3		0320	617	13.
1		0125	18	71.	*	1		1805	218	153.	*	2		1045	418	100.	*	3		0325	618	13.
1		0130	19	96.	*	1		1810	219	152.	*	2		1050	419	99.	*	3		0330	619	13.
1		0135	20	128.	*	1		1815	220	152.	*	2		1055	420	99.	*	3		0335	620	13.
1		0140	21	155.	*	1		1820	221	152.	*	2		1100	421	98.	*	3		0340	621	13.
1		0145	22	174.	*	1		1825	222	152.	*	2		1105	422	98.	*	3		0345	622	13.
1		0150	23	181.	*	1		1830	223	151.	*	2		1110	423	98.	*	3		0350	623	13.
1		0155	24	173.	*	1		1835	224	151.	*	2		1115	424	97.	*	3		0355	624	13.
1		0200	25	156.	*	1		1840	225	151.	*	2		1120	425	97.	*	3		0400	625	13.
1		0205	26	141.	*	1		1845	226	151.	*	2		1125	426	96.	*	3		0405	626	13.
1		0210	27	141.	*	1		1850	227	150.	*	2		1130	427	96.	*	3		0410	627	13.
1		0215	28	172.	*	1		1855	228	150.	*	2		1135	428	96.	*	3		0415	628	12.
1		0220	29	227.	*	1		1900	229	150.	*	2		1140	429	95.	*	3		0420	629	12.
1		0225	30	275.	*	1		1905	230	150.	*	2		1145	430	95.	*	3		0425	630	12.
1		0230	31	292.	*	1		1910	231	149.	*	2		1150	431	95.	*	3		0430	631	12.
1		0235	32	283.	*	1		1915	232	149.	*	2		1155	432	94.	*	3		0435	632	12.
1		0240	33	284.	*	1		1920	233	149.	*	2		1200	433	94.	*	3		0440	633	12.
1		0245	34	308.	*	1		1925	234	149.	*	2		1205	434	93.	*	3		0445	634	12.
1		0250	35	322.	*	1		1930	235	148.	*	2		1210	435	93.	*	3		0450	635	12.
1		0255	36	307.	*	1		1935	236	148.	*	2		1215	436	93.	*	3		0455	636	12.
1		0300	37	296.	*	1		1940	237	148.	*	2		1220	437	92.	*	3		0500	637	12.
1		0305	38	349.	*	1		1945	238	148.	*	2		1225	438	92.	*	3		0505	638	12.
1		0310	39	496.	*	1		1950	239	147.	*	2		1230	439	92.	*	3		0510	639	12.
1		0315	40	769.	*	1		1955	240	147.	*	2		1235	440	91.	*	3		0515	640	12.
1		0320	41	1301.	*	1		2000	241	147.	*	2		1240	441	91.	*	3		0520	641	12.
1		0325	42	2119.	*	1		2005	242	147.	*	2		1245	442	90.	*	3		0525	642	12.
1		0330	43	3142.	*	1		2010	243	146.	*	2		1250	443	90.	*	3		0530	643	12.
1		0335	44	3910.	*	1		2015	244	146.	*	2		1255	444	90.	*	3		0535	644	12.
1		0340	45	4076.	*	1		2020	245	146.	*	2		1300	445	89.	*	3		0540	645	12.
1		0345	46	3815.	*	1		2025	246	146.	*	2		1305	446	89.	*	3		0545	646	12.
1		0350	47	3281.	*	1		2030	247	146.	*	2		1310	447	89.	*	3		0550	647	12.
1		0355	48	2670.	*	1		2035	248	145.	*	2		1315	448	88.	*	3		0555	648	12.
1		0400	49	2173.	*	1		2040	249	145.	*	2		1320	449	88.	*	3		0600	649	12.
1		0405	50	1787.	*	1		2045	250	145.	*	2		1325	450	88.	*	3		0605	650	12.
1		0410	51	1445.	*	1		2050	251	145.	*	2		1330	451	87.	*	3		0610	651	12.
1		0415	52	1170.	*	1		2055	252	144.	*	2		1335	452	87.	*	3		0615	652	12.
1		0420	53	984.	*	1		2100	253	144.	*	2		1340	453	87.	*	3		0620	653	12.
1		0425	54	884.	*	1		2105	254	144.	*	2		1345	454	86.	*	3		0625	654	12.
1		0430	55	894.	*	1		2110	255	144.	*	2		1350	455	86.	*	3		0630	655	12.
1		0435	56	992.	*	1		2115	256	143.	*	2		1355	456	85.	*	3		0635	656	12.
1		0440	57	1076.	*	1		2120	257	143.	*	2		1400	457	85.	*	3		0640	657	12.
1		0445	58	1105.	*	1		2125	258	143.	*	2		1405	458	84.	*	3		0645	658	12.
1		0450	59	1133.	*	1		2130	259	143.	*	2		1410	459	84.	*	3		0650	659	12.
1		0455	60	1149.	*	1		2135	260	142.	*	2		1415	460	83.	*	3		0655	660	12.
1		0500	61	1087.	*	1		2140	261	142.	*	2		1420	461	82.	*	3		0700	661	12.
1		0505	62	973.	*	1		2145	262	142.	*	2		1425	462	82.	*	3		0705	662	12.

1	0510	63	865.	*	1	2150	263	142.	*	2	1430	463	81.	*	3	0710	663	12.
1	0515	64	909.	*	1	2155	264	141.	*	2	1435	464	80.	*	3	0715	664	12.
1	0520	65	1052.	*	1	2200	265	141.	*	2	1440	465	80.	*	3	0720	665	12.
1	0525	66	1091.	*	1	2205	266	141.	*	2	1445	466	79.	*	3	0725	666	12.
1	0530	67	1018.	*	1	2210	267	141.	*	2	1450	467	78.	*	3	0730	667	12.
1	0535	68	892.	*	1	2215	268	140.	*	2	1455	468	78.	*	3	0735	668	12.
1	0540	69	760.	*	1	2220	269	140.	*	2	1500	469	77.	*	3	0740	669	12.
1	0545	70	648.	*	1	2225	270	140.	*	2	1505	470	76.	*	3	0745	670	12.
1	0550	71	557.	*	1	2230	271	140.	*	2	1510	471	76.	*	3	0750	671	12.
1	0555	72	476.	*	1	2235	272	139.	*	2	1515	472	75.	*	3	0755	672	12.
1	0600	73	409.	*	1	2240	273	139.	*	2	1520	473	75.	*	3	0800	673	12.
1	0605	74	352.	*	1	2245	274	139.	*	2	1525	474	74.	*	3	0805	674	12.
1	0610	75	302.	*	1	2250	275	139.	*	2	1530	475	73.	*	3	0810	675	12.
1	0615	76	259.	*	1	2255	276	138.	*	2	1535	476	73.	*	3	0815	676	12.
1	0620	77	228.	*	1	2300	277	138.	*	2	1540	477	72.	*	3	0820	677	12.
1	0625	78	209.	*	1	2305	278	138.	*	2	1545	478	72.	*	3	0825	678	12.
1	0630	79	199.	*	1	2310	279	138.	*	2	1550	479	71.	*	3	0830	679	12.
1	0635	80	193.	*	1	2315	280	137.	*	2	1555	480	71.	*	3	0835	680	12.
1	0640	81	189.	*	1	2320	281	137.	*	2	1600	481	70.	*	3	0840	681	12.
1	0645	82	186.	*	1	2325	282	137.	*	2	1605	482	69.	*	3	0845	682	12.
1	0650	83	185.	*	1	2330	283	137.	*	2	1610	483	69.	*	3	0850	683	12.
1	0655	84	183.	*	1	2335	284	136.	*	2	1615	484	68.	*	3	0855	684	12.
1	0700	85	183.	*	1	2340	285	136.	*	2	1620	485	68.	*	3	0900	685	12.
1	0705	86	182.	*	1	2345	286	136.	*	2	1625	486	67.	*	3	0905	686	12.
1	0710	87	182.	*	1	2350	287	136.	*	2	1630	487	66.	*	3	0910	687	12.
1	0715	88	181.	*	1	2355	288	135.	*	2	1635	488	64.	*	3	0915	688	12.
1	0720	89	181.	*	2	0000	289	135.	*	2	1640	489	62.	*	3	0920	689	12.
1	0725	90	181.	*	2	0005	290	135.	*	2	1645	490	60.	*	3	0925	690	12.
1	0730	91	180.	*	2	0010	291	135.	*	2	1650	491	58.	*	3	0930	691	12.
1	0735	92	180.	*	2	0015	292	134.	*	2	1655	492	57.	*	3	0935	692	12.
1	0740	93	180.	*	2	0020	293	134.	*	2	1700	493	55.	*	3	0940	693	12.
1	0745	94	180.	*	2	0025	294	134.	*	2	1705	494	53.	*	3	0945	694	12.
1	0750	95	180.	*	2	0030	295	134.	*	2	1710	495	51.	*	3	0950	695	12.
1	0755	96	179.	*	2	0035	296	133.	*	2	1715	496	50.	*	3	0955	696	12.
1	0800	97	179.	*	2	0040	297	133.	*	2	1720	497	48.	*	3	1000	697	12.
1	0805	98	179.	*	2	0045	298	133.	*	2	1725	498	47.	*	3	1005	698	12.
1	0810	99	179.	*	2	0050	299	133.	*	2	1730	499	46.	*	3	1010	699	12.
1	0815	100	179.	*	2	0055	300	132.	*	2	1735	500	44.	*	3	1015	700	12.
1	0820	101	178.	*	2	0100	301	132.	*	2	1740	501	43.	*	3	1020	701	12.
1	0825	102	178.	*	2	0105	302	132.	*	2	1745	502	42.	*	3	1025	702	12.
1	0830	103	178.	*	2	0110	303	131.	*	2	1750	503	41.	*	3	1030	703	12.
1	0835	104	178.	*	2	0115	304	131.	*	2	1755	504	39.	*	3	1035	704	12.
1	0840	105	178.	*	2	0120	305	131.	*	2	1800	505	38.	*	3	1040	705	12.
1	0845	106	177.	*	2	0125	306	131.	*	2	1805	506	36.	*	3	1045	706	12.
1	0850	107	177.	*	2	0130	307	130.	*	2	1810	507	33.	*	3	1050	707	12.
1	0855	108	177.	*	2	0135	308	130.	*	2	1815	508	30.	*	3	1055	708	12.
1	0900	109	177.	*	2	0140	309	130.	*	2	1820	509	27.	*	3	1100	709	12.
1	0905	110	177.	*	2	0145	310	130.	*	2	1825	510	24.	*	3	1105	710	12.
1	0910	111	176.	*	2	0150	311	129.	*	2	1830	511	22.	*	3	1110	711	12.
1	0915	112	176.	*	2	0155	312	129.	*	2	1835	512	20.	*	3	1115	712	12.
1	0920	113	176.	*	2	0200	313	129.	*	2	1840	513	18.	*	3	1120	713	12.
1	0925	114	176.	*	2	0205	314	129.	*	2	1845	514	17.	*	3	1125	714	12.
1	0930	115	175.	*	2	0210	315	128.	*	2	1850	515	16.	*	3	1130	715	12.
1	0935	116	175.	*	2	0215	316	128.	*	2	1855	516	16.	*	3	1135	716	12.
1	0940	117	175.	*	2	0220	317	128.	*	2	1900	517	15.	*	3	1140	717	12.
1	0945	118	175.	*	2	0225	318	128.	*	2	1905	518	15.	*	3	1145	718	12.
1	0950	119	175.	*	2	0230	319	127.	*	2	1910	519	14.	*	3	1150	719	12.
1	0955	120	174.	*	2	0235	320	127.	*	2	1915	520	14.	*	3	1155	720	12.
1	1000	121	174.	*	2	0240	321	127.	*	2	1920	521	14.	*	3	1200	721	12.
1	1005	122	174.	*	2	0245	322	127.	*	2	1925	522	14.	*	3	1205	722	12.
1	1010	123	174.	*	2	0250	323	126.	*	2	1930	523	13.	*	3	1210	723	12.
1	1015	124	174.	*	2	0255	324	126.	*	2	1935	524	13.	*	3	1215	724	12.
1	1020	125	173.	*	2	0300	325	126.	*	2	1940	525	13.	*	3	1220	725	12.
1	1025	126	173.	*	2	0305	326	126.	*	2	1945	526	13.	*	3	1225	726	12.
1	1030	127	173.	*	2	0310	327	125.	*	2	1950	527	13.	*	3	1230	727	12.
1	1035	128	173.	*	2	0315	328	125.	*	2	1955	528	13.	*	3	1235	728	12.
1	1040	129	172.	*	2	0320	329	125.	*	2	2000	529	13.	*	3	1240	729	12.
1	1045	130	172.	*	2	0325	330	125.	*	2	2005	530	13.	*	3	1245	730	12.
1	1050	131	172.	*	2	0330	331	124.	*	2	2010	531	13.	*	3	1250	731	12.
1	1055	132	172.	*	2	0335	332	124.	*	2	2015	532	13.	*	3	1255	732	12.
1	1100	133	172.	*	2	0340	333	124.	*	2	2020	533	13.	*	3	1300	733	12.
1	1105	134	171.	*	2	0345	334	123.	*	2	2025	534	13.	*	3	1305	734	12.
1	1110	135	171.	*	2	0350	335	123.	*	2	2030	535	13.	*	3	1310	735	12.
1	1115	136	171.	*	2	0355	336	123.	*	2	2035	536	13.	*	3	1315	736	12.
1	1120	137	171.	*	2	0400	337	123.	*	2	2040	537	13.	*	3	1320	737	12.
1	1125	138	171.	*	2	0405	338	122.	*	2	2045	538	13.	*	3	1325	738	12.
1	1130	139	170.	*	2	0410	339	122.	*	2	2050	539	13.	*	3	1330	739	12.
1	1135	140	170.	*	2	0415	340	122.	*	2	2055	540	13.	*	3	1335	740	12.
1	1140	141	170.	*	2	0420	341	122.	*	2	2100	541	13.	*	3	1340	741	12.
1	1145	142	170.	*	2	0425	342	121.	*	2	2105	542	13.	*	3	1345	742	12.
1	1150	143	169.	*	2	0430	343	121.	*	2	2110	543	13.	*	3	1350	743	12.
1	1155	144	169.	*	2	0435	344	121.	*	2	2115	544	13.	*	3	1355	744	12.
1	1200	145	169.	*	2	0440	345	120.	*	2	2120	545	13.	*	3	1400	745	12.
1	1205	146	169.	*	2	0445	346	120.	*	2	2125	546	13.	*	3	1405	746	12.
1	1210	147	169.	*	2	0450	347	120.	*	2	2130	547	13.	*	3	1410	747	12.
1	1215	148	168.	*	2	0455	348	120.	*	2	2135	548	13.	*	3	1415	748	12.
1	1220	149	168.	*	2	0500	349	119.	*	2	2140	549	13.	*	3	1420	749	12.
1	1225	150	168.	*	2	0505	350	119.	*	2	2145	550	13.	*	3	1425	750	12.
1	1230	151	168.	*	2	0510	351	119.	*	2	2150	551	13.	*	3	1430	751	12.
1	1235	152	168.	*	2	0515	352	118.	*	2	2155	552	13.	*	3	1435	752	12.
1	1240	153	167.	*	2	0520	353	118.	*	2	2200	553	13.	*	3	1440	753	12.
1	1245	154	167.	*	2	0525	354	118.	*	2	2205	554	13.	*	3	1445	754	12.
1	1250	155	167.	*	2	0530	355	118.	*	2	2210	555	13.	*	3	1450	755	12.
1	1255	156	167.	*	2	0535	356	117.	*	2	2215	556	13.	*	3	1455	756	12.
1	1300	157	166.	*	2	0540	357	117.	*	2	2220	557	13.	*	3	1500	757	12.

1	1305	158	166.	*	2	0545	358	117.	*	2	2225	558	13.	*	3	1505	758	12.
1	1310	159	166.	*	2	0550	359	117.	*	2	2230	559	13.	*	3	1510	759	12.
1	1315	160	166.	*	2	0555	360	116.	*	2	2235	560	13.	*	3	1515	760	12.
1	1320	161	165.	*	2	0600	361	116.	*	2	2240	561	13.	*	3	1520	761	12.
1	1325	162	165.	*	2	0605	362	116.	*	2	2245	562	13.	*	3	1525	762	12.
1	1330	163	165.	*	2	0610	363	115.	*	2	2250	563	13.	*	3	1530	763	12.
1	1335	164	165.	*	2	0615	364	115.	*	2	2255	564	13.	*	3	1535	764	12.
1	1340	165	165.	*	2	0620	365	115.	*	2	2300	565	13.	*	3	1540	765	12.
1	1345	166	164.	*	2	0625	366	115.	*	2	2305	566	13.	*	3	1545	766	12.
1	1350	167	164.	*	2	0630	367	114.	*	2	2310	567	13.	*	3	1550	767	12.
1	1355	168	164.	*	2	0635	368	114.	*	2	2315	568	13.	*	3	1555	768	12.
1	1400	169	164.	*	2	0640	369	114.	*	2	2320	569	13.	*	3	1600	769	12.
1	1405	170	163.	*	2	0645	370	114.	*	2	2325	570	13.	*	3	1605	770	12.
1	1410	171	163.	*	2	0650	371	113.	*	2	2330	571	13.	*	3	1610	771	12.
1	1415	172	163.	*	2	0655	372	113.	*	2	2335	572	13.	*	3	1615	772	12.
1	1420	173	163.	*	2	0700	373	113.	*	2	2340	573	13.	*	3	1620	773	12.
1	1425	174	163.	*	2	0705	374	113.	*	2	2345	574	13.	*	3	1625	774	12.
1	1430	175	162.	*	2	0710	375	112.	*	2	2350	575	13.	*	3	1630	775	12.
1	1435	176	162.	*	2	0715	376	112.	*	2	2355	576	13.	*	3	1635	776	12.
1	1440	177	162.	*	2	0720	377	112.	*	3	0000	577	13.	*	3	1640	777	12.
1	1445	178	162.	*	2	0725	378	111.	*	3	0005	578	13.	*	3	1645	778	12.
1	1450	179	161.	*	2	0730	379	111.	*	3	0010	579	13.	*	3	1650	779	12.
1	1455	180	161.	*	2	0735	380	111.	*	3	0015	580	13.	*	3	1655	780	12.
1	1500	181	161.	*	2	0740	381	110.	*	3	0020	581	13.	*	3	1700	781	12.
1	1505	182	161.	*	2	0745	382	110.	*	3	0025	582	13.	*	3	1705	782	12.
1	1510	183	161.	*	2	0750	383	110.	*	3	0030	583	13.	*	3	1710	783	12.
1	1515	184	160.	*	2	0755	384	110.	*	3	0035	584	13.	*	3	1715	784	12.
1	1520	185	160.	*	2	0800	385	109.	*	3	0040	585	13.	*	3	1720	785	12.
1	1525	186	160.	*	2	0805	386	109.	*	3	0045	586	13.	*	3	1725	786	12.
1	1530	187	160.	*	2	0810	387	109.	*	3	0050	587	13.	*	3	1730	787	12.
1	1535	188	159.	*	2	0815	388	108.	*	3	0055	588	13.	*	3	1735	788	12.
1	1540	189	159.	*	2	0820	389	108.	*	3	0100	589	13.	*	3	1740	789	12.
1	1545	190	159.	*	2	0825	390	108.	*	3	0105	590	13.	*	3	1745	790	12.
1	1550	191	159.	*	2	0830	391	107.	*	3	0110	591	13.	*	3	1750	791	12.
1	1555	192	158.	*	2	0835	392	107.	*	3	0115	592	13.	*	3	1755	792	12.
1	1600	193	158.	*	2	0840	393	107.	*	3	0120	593	13.	*	3	1800	793	12.
1	1605	194	158.	*	2	0845	394	107.	*	3	0125	594	13.	*	3	1805	794	12.
1	1610	195	158.	*	2	0850	395	106.	*	3	0130	595	13.	*	3	1810	795	12.
1	1615	196	158.	*	2	0855	396	106.	*	3	0135	596	13.	*	3	1815	796	12.
1	1620	197	157.	*	2	0900	397	106.	*	3	0140	597	13.	*	3	1820	797	12.
1	1625	198	157.	*	2	0905	398	105.	*	3	0145	598	13.	*	3	1825	798	12.
1	1630	199	157.	*	2	0910	399	105.	*	3	0150	599	13.	*	3	1830	799	12.
1	1635	200	157.	*	2	0915	400	105.	*	3	0155	600	13.	*	3	1835	800	12.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	66.58-HR
(CFS)	(HR)				
		(CFS)			
4076.	3.67	825.	323.	146.	146.
		(INCHES) .733	1.147	1.442	1.442
		(AC-FT) 409.	640.	805.	805.

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .97

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		1640	201	156.	2		0920	401	104.	3		0200	601	12.
1		0005	2	0.	1		1645	202	156.	2		0925	402	104.	3		0205	602	12.
1		0010	3	0.	1		1650	203	156.	2		0930	403	104.	3		0210	603	12.
1		0015	4	0.	1		1655	204	156.	2		0935	404	103.	3		0215	604	12.
1		0020	5	2.	1		1700	205	155.	2		0940	405	103.	3		0220	605	12.
1		0025	6	10.	1		1705	206	155.	2		0945	406	103.	3		0225	606	12.
1		0030	7	25.	1		1710	207	155.	2		0950	407	103.	3		0230	607	12.
1		0035	8	39.	1		1715	208	155.	2		0955	408	102.	3		0235	608	12.
1		0040	9	42.	1		1720	209	154.	2		1000	409	102.	3		0240	609	12.
1		0045	10	38.	1		1725	210	154.	2		1005	410	102.	3		0245	610	12.
1		0050	11	34.	1		1730	211	154.	2		1010	411	101.	3		0250	611	12.
1		0055	12	33.	1		1735	212	154.	2		1015	412	101.	3		0255	612	12.
1		0100	13	33.	1		1740	213	153.	2		1020	413	101.	3		0300	613	12.
1		0105	14	34.	1		1745	214	153.	2		1025	414	101.	3		0305	614	12.
1		0110	15	40.	1		1750	215	153.	2		1030	415	100.	3		0310	615	12.
1		0115	16	49.	1		1755	216	153.	2		1035	416	100.	3		0315	616	12.
1		0120	17	57.	1		1800	217	153.	2		1040	417	100.	3		0320	617	12.
1		0125	18	69.	1		1805	218	152.	2		1045	418	99.	3		0325	618	12.
1		0130	19	93.	1		1810	219	152.	2		1050	419	99.	3		0330	619	12.
1		0135	20	124.	1		1815	220	152.	2		1055	420	99.	3		0335	620	12.
1		0140	21	150.	1		1820	221	152.	2		1100	421	98.	3		0340	621	12.
1		0145	22	169.	1		1825	222	151.	2		1105	422	98.	3		0345	622	12.
1		0150	23	176.	1		1830	223	151.	2		1110	423	97.	3		0350	623	12.
1		0155	24	167.	1		1835	224	151.	2		1115	424	97.	3		0355	624	12.
1		0200	25	151.	1		1840	225	151.	2		1120	425	97.	3		0400	625	12.
1		0205	26	137.	1		1845	226	150.	2		1125	426	96.	3		0405	626	12.
1		0210	27	138.	1		1850	227	150.	2		1130	427	96.	3		0410	627	12.
1		0215	28	169.	1		1855	228	150.	2		1135	428	95.	3		0415	628	12.

1	0220	29	222.	*	1	1900	229	150.	*	2	1140	429	95.	*	3	0420	629	12.
1	0225	30	269.	*	1	1905	230	149.	*	2	1145	430	95.	*	3	0425	630	12.
1	0230	31	286.	*	1	1910	231	149.	*	2	1150	431	94.	*	3	0430	631	12.
1	0235	32	277.	*	1	1915	232	149.	*	2	1155	432	94.	*	3	0435	632	12.
1	0240	33	279.	*	1	1920	233	149.	*	2	1200	433	94.	*	3	0440	633	12.
1	0245	34	302.	*	1	1925	234	148.	*	2	1205	434	93.	*	3	0445	634	12.
1	0250	35	315.	*	1	1930	235	148.	*	2	1210	435	93.	*	3	0450	635	12.
1	0255	36	302.	*	1	1935	236	148.	*	2	1215	436	92.	*	3	0455	636	12.
1	0300	37	291.	*	1	1940	237	148.	*	2	1220	437	92.	*	3	0500	637	12.
1	0305	38	343.	*	1	1945	238	147.	*	2	1225	438	92.	*	3	0505	638	12.
1	0310	39	487.	*	1	1950	239	147.	*	2	1230	439	91.	*	3	0510	639	12.
1	0315	40	755.	*	1	1955	240	147.	*	2	1235	440	91.	*	3	0515	640	12.
1	0320	41	1277.	*	1	2000	241	147.	*	2	1240	441	91.	*	3	0520	641	12.
1	0325	42	2081.	*	1	2005	242	146.	*	2	1245	442	90.	*	3	0525	642	12.
1	0330	43	3090.	*	1	2010	243	146.	*	2	1250	443	90.	*	3	0530	643	12.
1	0335	44	3853.	*	1	2015	244	146.	*	2	1255	444	90.	*	3	0535	644	12.
1	0340	45	4017.	*	1	2020	245	146.	*	2	1300	445	89.	*	3	0540	645	12.
1	0345	46	3760.	*	1	2025	246	146.	*	2	1305	446	89.	*	3	0545	646	12.
1	0350	47	3236.	*	1	2030	247	145.	*	2	1310	447	88.	*	3	0550	647	12.
1	0355	48	2634.	*	1	2035	248	145.	*	2	1315	448	88.	*	3	0555	648	12.
1	0400	49	2144.	*	1	2040	249	145.	*	2	1320	449	88.	*	3	0600	649	12.
1	0405	50	1764.	*	1	2045	250	145.	*	2	1325	450	87.	*	3	0605	650	12.
1	0410	51	1427.	*	1	2050	251	144.	*	2	1330	451	87.	*	3	0610	651	12.
1	0415	52	1156.	*	1	2055	252	144.	*	2	1335	452	87.	*	3	0615	652	12.
1	0420	53	973.	*	1	2100	253	144.	*	2	1340	453	86.	*	3	0620	653	12.
1	0425	54	874.	*	1	2105	254	144.	*	2	1345	454	86.	*	3	0625	654	12.
1	0430	55	883.	*	1	2110	255	143.	*	2	1350	455	86.	*	3	0630	655	12.
1	0435	56	981.	*	1	2115	256	143.	*	2	1355	456	85.	*	3	0635	656	12.
1	0440	57	1063.	*	1	2120	257	143.	*	2	1400	457	85.	*	3	0640	657	12.
1	0445	58	1092.	*	1	2125	258	143.	*	2	1405	458	84.	*	3	0645	658	12.
1	0450	59	1120.	*	1	2130	259	142.	*	2	1410	459	84.	*	3	0650	659	12.
1	0455	60	1135.	*	1	2135	260	142.	*	2	1415	460	83.	*	3	0655	660	12.
1	0500	61	1075.	*	1	2140	261	142.	*	2	1420	461	82.	*	3	0700	661	12.
1	0505	62	961.	*	1	2145	262	142.	*	2	1425	462	81.	*	3	0705	662	12.
1	0510	63	824.	*	1	2150	263	141.	*	2	1430	463	81.	*	3	0710	663	12.
1	0515	64	730.	*	1	2155	264	141.	*	2	1435	464	80.	*	3	0715	664	12.
1	0520	65	778.	*	1	2200	265	141.	*	2	1440	465	79.	*	3	0720	665	12.
1	0525	66	897.	*	1	2205	266	141.	*	2	1445	466	79.	*	3	0725	666	12.
1	0530	67	926.	*	1	2210	267	140.	*	2	1450	467	78.	*	3	0730	667	12.
1	0535	68	852.	*	1	2215	268	140.	*	2	1455	468	78.	*	3	0735	668	12.
1	0540	69	740.	*	1	2220	269	140.	*	2	1500	469	77.	*	3	0740	669	12.
1	0545	70	636.	*	1	2225	270	140.	*	2	1505	470	76.	*	3	0745	670	12.
1	0550	71	549.	*	1	2230	271	139.	*	2	1510	471	76.	*	3	0750	671	12.
1	0555	72	470.	*	1	2235	272	139.	*	2	1515	472	75.	*	3	0755	672	12.
1	0600	73	404.	*	1	2240	273	139.	*	2	1520	473	74.	*	3	0800	673	12.
1	0605	74	348.	*	1	2245	274	139.	*	2	1525	474	74.	*	3	0805	674	12.
1	0610	75	298.	*	1	2250	275	138.	*	2	1530	475	73.	*	3	0810	675	12.
1	0615	76	256.	*	1	2255	276	138.	*	2	1535	476	73.	*	3	0815	676	12.
1	0620	77	226.	*	1	2300	277	138.	*	2	1540	477	72.	*	3	0820	677	12.
1	0625	78	208.	*	1	2305	278	138.	*	2	1545	478	71.	*	3	0825	678	12.
1	0630	79	198.	*	1	2310	279	137.	*	2	1550	479	71.	*	3	0830	679	12.
1	0635	80	192.	*	1	2315	280	137.	*	2	1555	480	70.	*	3	0835	680	12.
1	0640	81	189.	*	1	2320	281	137.	*	2	1600	481	70.	*	3	0840	681	12.
1	0645	82	186.	*	1	2325	282	137.	*	2	1605	482	69.	*	3	0845	682	12.
1	0650	83	184.	*	1	2330	283	136.	*	2	1610	483	69.	*	3	0850	683	12.
1	0655	84	183.	*	1	2335	284	136.	*	2	1615	484	68.	*	3	0855	684	12.
1	0700	85	182.	*	1	2340	285	136.	*	2	1620	485	68.	*	3	0900	685	12.
1	0705	86	182.	*	1	2345	286	136.	*	2	1625	486	67.	*	3	0905	686	12.
1	0710	87	181.	*	1	2350	287	135.	*	2	1630	487	66.	*	3	0910	687	12.
1	0715	88	181.	*	1	2355	288	135.	*	2	1635	488	64.	*	3	0915	688	12.
1	0720	89	181.	*	2	0000	289	135.	*	2	1640	489	62.	*	3	0920	689	12.
1	0725	90	181.	*	2	0005	290	135.	*	2	1645	490	60.	*	3	0925	690	12.
1	0730	91	180.	*	2	0010	291	134.	*	2	1650	491	58.	*	3	0930	691	12.
1	0735	92	180.	*	2	0015	292	134.	*	2	1655	492	56.	*	3	0935	692	12.
1	0740	93	180.	*	2	0020	293	134.	*	2	1700	493	54.	*	3	0940	693	12.
1	0745	94	180.	*	2	0025	294	134.	*	2	1705	494	53.	*	3	0945	694	12.
1	0750	95	179.	*	2	0030	295	133.	*	2	1710	495	51.	*	3	0950	695	12.
1	0755	96	179.	*	2	0035	296	133.	*	2	1715	496	50.	*	3	0955	696	12.
1	0800	97	179.	*	2	0040	297	133.	*	2	1720	497	48.	*	3	1000	697	12.
1	0805	98	179.	*	2	0045	298	133.	*	2	1725	498	47.	*	3	1005	698	12.
1	0810	99	179.	*	2	0050	299	132.	*	2	1730	499	45.	*	3	1010	699	12.
1	0815	100	178.	*	2	0055	300	132.	*	2	1735	500	44.	*	3	1015	700	12.
1	0820	101	178.	*	2	0100	301	132.	*	2	1740	501	43.	*	3	1020	701	12.
1	0825	102	178.	*	2	0105	302	132.	*	2	1745	502	41.	*	3	1025	702	12.
1	0830	103	178.	*	2	0110	303	131.	*	2	1750	503	40.	*	3	1030	703	12.
1	0835	104	178.	*	2	0115	304	131.	*	2	1755	504	39.	*	3	1035	704	12.
1	0840	105	177.	*	2	0120	305	131.	*	2	1800	505	38.	*	3	1040	705	12.
1	0845	106	177.	*	2	0125	306	130.	*	2	1805	506	36.	*	3	1045	706	12.
1	0850	107	177.	*	2	0130	307	130.	*	2	1810	507	33.	*	3	1050	707	12.
1	0855	108	177.	*	2	0135	308	130.	*	2	1815	508	29.	*	3	1055	708	12.
1	0900	109	177.	*	2	0140	309	130.	*	2	1820	509	26.	*	3	1100	709	12.
1	0905	110	176.	*	2	0145	310	129.	*	2	1825	510	23.	*	3	1105	710	12.
1	0910	111	176.	*	2	0150	311	129.	*	2	1830	511	21.	*	3	1110	711	12.
1	0915	112	176.	*	2	0155	312	129.	*	2	1835	512	19.	*	3	1115	712	12.
1	0920	113	176.	*	2	0200	313	129.	*	2	1840	513	18.	*	3	1120	713	12.
1	0925	114	175.	*	2	0205	314	128.	*	2	1845	514	17.	*	3	1125	714	12.
1	0930	115	175.	*	2	0210	315	128.	*	2	1850	515	16.	*	3	1130	715	12.
1	0935	116	175.	*	2	0215	316	128.	*	2	1855	516	15.	*	3	1135	716	12.
1	0940	117	175.	*	2	0220	317	128.	*	2	1900	517	15.	*	3	1140	717	12.
1	0945	118	175.	*	2	0225	318	127.	*	2	1905	518	14.	*	3	1145	718	12.
1	0950	119	174.	*	2	0230	319	127.	*	2	1910	519	14.	*	3	1150	719	12.
1	0955	120	174.	*	2	0235	320	127.	*	2	1915	520	14.	*	3	1155	720	12.
1	1000	121	174.	*	2	0240	321	127.	*	2	1920	521	14.	*	3	1200	721	12.
1	1005	122	174.	*	2	0245	322	126.	*	2	1925	522	13.	*	3	1205	722	12.
1	1010	123	174.	*	2	0250	323	126.	*	2	1930	523	13.	*	3	1210	723	12.

1	1015	124	173.	*	2	0255	324	126.	*	2	1935	524	13.	*	3	1215	724	12.
1	1020	125	173.	*	2	0300	325	126.	*	2	1940	525	13.	*	3	1220	725	12.
1	1025	126	173.	*	2	0305	326	125.	*	2	1945	526	13.	*	3	1225	726	12.
1	1030	127	173.	*	2	0310	327	125.	*	2	1950	527	13.	*	3	1230	727	12.
1	1035	128	172.	*	2	0315	328	125.	*	2	1955	528	13.	*	3	1235	728	12.
1	1040	129	172.	*	2	0320	329	125.	*	2	2000	529	13.	*	3	1240	729	12.
1	1045	130	172.	*	2	0325	330	124.	*	2	2005	530	13.	*	3	1245	730	12.
1	1050	131	172.	*	2	0330	331	124.	*	2	2010	531	13.	*	3	1250	731	12.
1	1055	132	172.	*	2	0335	332	124.	*	2	2015	532	13.	*	3	1255	732	12.
1	1100	133	171.	*	2	0340	333	124.	*	2	2020	533	13.	*	3	1300	733	12.
1	1105	134	171.	*	2	0345	334	123.	*	2	2025	534	13.	*	3	1305	734	12.
1	1110	135	171.	*	2	0350	335	123.	*	2	2030	535	13.	*	3	1310	735	12.
1	1115	136	171.	*	2	0355	336	123.	*	2	2035	536	13.	*	3	1315	736	12.
1	1120	137	171.	*	2	0400	337	122.	*	2	2040	537	13.	*	3	1320	737	12.
1	1125	138	170.	*	2	0405	338	122.	*	2	2045	538	13.	*	3	1325	738	12.
1	1130	139	170.	*	2	0410	339	122.	*	2	2050	539	13.	*	3	1330	739	12.
1	1135	140	170.	*	2	0415	340	122.	*	2	2055	540	13.	*	3	1335	740	12.
1	1140	141	170.	*	2	0420	341	121.	*	2	2100	541	13.	*	3	1340	741	12.
1	1145	142	169.	*	2	0425	342	121.	*	2	2105	542	13.	*	3	1345	742	12.
1	1150	143	169.	*	2	0430	343	121.	*	2	2110	543	13.	*	3	1350	743	12.
1	1155	144	169.	*	2	0435	344	120.	*	2	2115	544	13.	*	3	1355	744	12.
1	1200	145	169.	*	2	0440	345	120.	*	2	2120	545	13.	*	3	1400	745	12.
1	1205	146	169.	*	2	0445	346	120.	*	2	2125	546	13.	*	3	1405	746	12.
1	1210	147	168.	*	2	0450	347	120.	*	2	2130	547	13.	*	3	1410	747	12.
1	1215	148	168.	*	2	0455	348	119.	*	2	2135	548	13.	*	3	1415	748	12.
1	1220	149	168.	*	2	0500	349	119.	*	2	2140	549	13.	*	3	1420	749	12.
1	1225	150	168.	*	2	0505	350	119.	*	2	2145	550	13.	*	3	1425	750	12.
1	1230	151	168.	*	2	0510	351	119.	*	2	2150	551	13.	*	3	1430	751	12.
1	1235	152	167.	*	2	0515	352	118.	*	2	2155	552	13.	*	3	1435	752	12.
1	1240	153	167.	*	2	0520	353	118.	*	2	2200	553	13.	*	3	1440	753	12.
1	1245	154	167.	*	2	0525	354	118.	*	2	2205	554	13.	*	3	1445	754	12.
1	1250	155	167.	*	2	0530	355	117.	*	2	2210	555	13.	*	3	1450	755	12.
1	1255	156	166.	*	2	0535	356	117.	*	2	2215	556	13.	*	3	1455	756	12.
1	1300	157	166.	*	2	0540	357	117.	*	2	2220	557	13.	*	3	1500	757	12.
1	1305	158	166.	*	2	0545	358	117.	*	2	2225	558	13.	*	3	1505	758	12.
1	1310	159	166.	*	2	0550	359	116.	*	2	2230	559	13.	*	3	1510	759	12.
1	1315	160	165.	*	2	0555	360	116.	*	2	2235	560	13.	*	3	1515	760	12.
1	1320	161	165.	*	2	0600	361	116.	*	2	2240	561	13.	*	3	1520	761	12.
1	1325	162	165.	*	2	0605	362	116.	*	2	2245	562	13.	*	3	1525	762	12.
1	1330	163	165.	*	2	0610	363	115.	*	2	2250	563	13.	*	3	1530	763	12.
1	1335	164	165.	*	2	0615	364	115.	*	2	2255	564	13.	*	3	1535	764	12.
1	1340	165	164.	*	2	0620	365	115.	*	2	2300	565	13.	*	3	1540	765	12.
1	1345	166	164.	*	2	0625	366	115.	*	2	2305	566	13.	*	3	1545	766	12.
1	1350	167	164.	*	2	0630	367	114.	*	2	2310	567	13.	*	3	1550	767	12.
1	1355	168	164.	*	2	0635	368	114.	*	2	2315	568	13.	*	3	1555	768	12.
1	1400	169	163.	*	2	0640	369	114.	*	2	2320	569	13.	*	3	1600	769	12.
1	1405	170	163.	*	2	0645	370	113.	*	2	2325	570	12.	*	3	1605	770	12.
1	1410	171	163.	*	2	0650	371	113.	*	2	2330	571	12.	*	3	1610	771	12.
1	1415	172	163.	*	2	0655	372	113.	*	2	2335	572	12.	*	3	1615	772	12.
1	1420	173	163.	*	2	0700	373	113.	*	2	2340	573	12.	*	3	1620	773	12.
1	1425	174	162.	*	2	0705	374	112.	*	2	2345	574	12.	*	3	1625	774	12.
1	1430	175	162.	*	2	0710	375	112.	*	2	2350	575	12.	*	3	1630	775	12.
1	1435	176	162.	*	2	0715	376	112.	*	2	2355	576	12.	*	3	1635	776	12.
1	1440	177	162.	*	2	0720	377	112.	*	3	0000	577	12.	*	3	1640	777	12.
1	1445	178	161.	*	2	0725	378	111.	*	3	0005	578	12.	*	3	1645	778	12.
1	1450	179	161.	*	2	0730	379	111.	*	3	0010	579	12.	*	3	1650	779	12.
1	1455	180	161.	*	2	0735	380	111.	*	3	0015	580	12.	*	3	1655	780	12.
1	1500	181	161.	*	2	0740	381	110.	*	3	0020	581	12.	*	3	1700	781	12.
1	1505	182	161.	*	2	0745	382	110.	*	3	0025	582	12.	*	3	1705	782	12.
1	1510	183	160.	*	2	0750	383	110.	*	3	0030	583	12.	*	3	1710	783	12.
1	1515	184	160.	*	2	0755	384	109.	*	3	0035	584	12.	*	3	1715	784	12.
1	1520	185	160.	*	2	0800	385	109.	*	3	0040	585	12.	*	3	1720	785	12.
1	1525	186	160.	*	2	0805	386	109.	*	3	0045	586	12.	*	3	1725	786	12.
1	1530	187	159.	*	2	0810	387	108.	*	3	0050	587	12.	*	3	1730	787	12.
1	1535	188	159.	*	2	0815	388	108.	*	3	0055	588	12.	*	3	1735	788	12.
1	1540	189	159.	*	2	0820	389	108.	*	3	0100	589	12.	*	3	1740	789	12.
1	1545	190	159.	*	2	0825	390	108.	*	3	0105	590	12.	*	3	1745	790	12.
1	1550	191	159.	*	2	0830	391	107.	*	3	0110	591	12.	*	3	1750	791	12.
1	1555	192	158.	*	2	0835	392	107.	*	3	0115	592	12.	*	3	1755	792	12.
1	1600	193	158.	*	2	0840	393	107.	*	3	0120	593	12.	*	3	1800	793	12.
1	1605	194	158.	*	2	0845	394	106.	*	3	0125	594	12.	*	3	1805	794	12.
1	1610	195	158.	*	2	0850	395	106.	*	3	0130	595	12.	*	3	1810	795	12.
1	1615	196	157.	*	2	0855	396	106.	*	3	0135	596	12.	*	3	1815	796	12.
1	1620	197	157.	*	2	0900	397	105.	*	3	0140	597	12.	*	3	1820	797	12.
1	1625	198	157.	*	2	0905	398	105.	*	3	0145	598	12.	*	3	1825	798	12.
1	1630	199	157.	*	2	0910	399	105.	*	3	0150	599	12.	*	3	1830	799	12.
1	1635	200	156.	*	2	0915	400	105.	*	3	0155	600	12.	*	3	1835	800	12.
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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	66.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 4017.	3.67		804.	317.	144.	144.
		(INCHES)	.714	1.127	1.420	1.420
		(AC-FT)	399.	629.	793.	793.

CUMULATIVE AREA = 10.47 SQ MI

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HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS

PLAN 1, RATIO = .95

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		1640	201	156.	2		0920	401	104.	3		0200	601	12.
1		0005	2	0.	1		1645	202	156.	2		0925	402	104.	3		0205	602	12.
1		0010	3	0.	1		1650	203	155.	2		0930	403	103.	3		0210	603	12.
1		0015	4	0.	1		1655	204	155.	2		0935	404	103.	3		0215	604	12.
1		0020	5	2.	1		1700	205	155.	2		0940	405	103.	3		0220	605	12.
1		0025	6	9.	1		1705	206	155.	2		0945	406	103.	3		0225	606	12.
1		0030	7	22.	1		1710	207	154.	2		0950	407	102.	3		0230	607	12.
1		0035	8	35.	1		1715	208	154.	2		0955	408	102.	3		0235	608	12.
1		0040	9	37.	1		1720	209	154.	2		1000	409	102.	3		0240	609	12.
1		0045	10	33.	1		1725	210	154.	2		1005	410	101.	3		0245	610	12.
1		0050	11	30.	1		1730	211	154.	2		1010	411	101.	3		0250	611	12.
1		0055	12	29.	1		1735	212	153.	2		1015	412	101.	3		0255	612	12.
1		0100	13	30.	1		1740	213	153.	2		1020	413	101.	3		0300	613	12.
1		0105	14	32.	1		1745	214	153.	2		1025	414	100.	3		0305	614	12.
1		0110	15	38.	1		1750	215	153.	2		1030	415	100.	3		0310	615	12.
1		0115	16	46.	1		1755	216	152.	2		1035	416	100.	3		0315	616	12.
1		0120	17	53.	1		1800	217	152.	2		1040	417	99.	3		0320	617	12.
1		0125	18	64.	1		1805	218	152.	2		1045	418	99.	3		0325	618	12.
1		0130	19	86.	1		1810	219	152.	2		1050	419	99.	3		0330	619	12.
1		0135	20	115.	1		1815	220	152.	2		1055	420	98.	3		0335	620	12.
1		0140	21	139.	1		1820	221	151.	2		1100	421	98.	3		0340	621	12.
1		0145	22	157.	1		1825	222	151.	2		1105	422	98.	3		0345	622	12.
1		0150	23	164.	1		1830	223	151.	2		1110	423	97.	3		0350	623	12.
1		0155	24	157.	1		1835	224	151.	2		1115	424	97.	3		0355	624	12.
1		0200	25	143.	1		1840	225	150.	2		1120	425	96.	3		0400	625	12.
1		0205	26	131.	1		1845	226	150.	2		1125	426	96.	3		0405	626	12.
1		0210	27	133.	1		1850	227	150.	2		1130	427	96.	3		0410	627	12.
1		0215	28	161.	1		1855	228	150.	2		1135	428	95.	3		0415	628	12.
1		0220	29	210.	1		1900	229	149.	2		1140	429	95.	3		0420	629	12.
1		0225	30	254.	1		1905	230	149.	2		1145	430	94.	3		0425	630	12.
1		0230	31	272.	1		1910	231	149.	2		1150	431	94.	3		0430	631	12.
1		0235	32	266.	1		1915	232	149.	2		1155	432	94.	3		0435	632	12.
1		0240	33	268.	1		1920	233	148.	2		1200	433	93.	3		0440	633	12.
1		0245	34	290.	1		1925	234	148.	2		1205	434	93.	3		0445	634	12.
1		0250	35	303.	1		1930	235	148.	2		1210	435	93.	3		0450	635	12.
1		0255	36	291.	1		1935	236	148.	2		1215	436	92.	3		0455	636	12.
1		0300	37	282.	1		1940	237	147.	2		1220	437	92.	3		0500	637	12.
1		0305	38	330.	1		1945	238	147.	2		1225	438	91.	3		0505	638	12.
1		0310	39	467.	1		1950	239	147.	2		1230	439	91.	3		0510	639	12.
1		0315	40	724.	1		1955	240	147.	2		1235	440	91.	3		0515	640	12.
1		0320	41	1233.	1		2000	241	146.	2		1240	441	90.	3		0520	641	12.
1		0325	42	2016.	1		2005	242	146.	2		1245	442	90.	3		0525	642	12.
1		0330	43	2997.	1		2010	243	146.	2		1250	443	90.	3		0530	643	12.
1		0335	44	3747.	1		2015	244	146.	2		1255	444	89.	3		0535	644	12.
1		0340	45	3905.	1		2020	245	145.	2		1300	445	89.	3		0540	645	12.
1		0345	46	3656.	1		2025	246	145.	2		1305	446	89.	3		0545	646	12.
1		0350	47	3153.	1		2030	247	145.	2		1310	447	88.	3		0550	647	12.
1		0355	48	2570.	1		2035	248	145.	2		1315	448	88.	3		0555	648	12.
1		0400	49	2094.	1		2040	249	144.	2		1320	449	87.	3		0600	649	12.
1		0405	50	1723.	1		2045	250	144.	2		1325	450	87.	3		0605	650	12.
1		0410	51	1396.	1		2050	251	144.	2		1330	451	87.	3		0610	651	12.
1		0415	52	1131.	1		2055	252	144.	2		1335	452	86.	3		0615	652	12.
1		0420	53	952.	1		2100	253	144.	2		1340	453	86.	3		0620	653	12.
1		0425	54	856.	1		2105	254	143.	2		1345	454	86.	3		0625	654	12.
1		0430	55	865.	1		2110	255	143.	2		1350	455	85.	3		0630	655	12.
1		0435	56	959.	1		2115	256	143.	2		1355	456	85.	3		0635	656	12.
1		0440	57	1039.	1		2120	257	143.	2		1400	457	85.	3		0640	657	12.
1		0445	58	1068.	1		2125	258	142.	2		1405	458	84.	3		0645	658	12.
1		0450	59	1095.	1		2130	259	142.	2		1410	459	83.	3		0650	659	12.
1		0455	60	1111.	1		2135	260	142.	2		1415	460	83.	3		0655	660	12.
1		0500	61	1052.	1		2140	261	142.	2		1420	461	82.	3		0700	661	12.
1		0505	62	941.	1		2145	262	141.	2		1425	462	81.	3		0705	662	12.
1		0510	63	807.	1		2150	263	141.	2		1430	463	81.	3		0710	663	12.
1		0515	64	676.	1		2155	264	141.	2		1435	464	80.	3		0715	664	12.
1		0520	65	564.	1		2200	265	141.	2		1440	465	79.	3		0720	665	12.
1		0525	66	497.	1		2205	266	140.	2		1445	466	79.	3		0725	666	12.
1		0530	67	523.	1		2210	267	140.	2		1450	467	78.	3		0730	667	12.
1		0535	68	600.	1		2215	268	140.	2		1455	468	77.	3		0735	668	12.
1		0540	69	623.	1		2220	269	140.	2		1500	469	77.	3		0740	669	12.
1		0545	70	586.	1		2225	270	139.	2		1505	470	76.	3		0745	670	12.
1		0550	71	525.	1		2230	271	139.	2		1510	471	75.	3		0750	671	12.
1		0555	72	458.	1		2235	272	139.	2		1515	472	75.	3		0755	672	12.
1		0600	73	396.	1		2240	273	139.	2		1520	473	74.	3		0800	673	12.
1		0605	74	343.	1		2245	274	138.	2		1525	474	74.	3		0805	674	12.
1		0610	75	295.	1		2250	275	138.	2		1530	475	73.	3		0810	675	12.
1		0615	76	254.	1		2255	276	138.	2		1535	476	72.	3		0815	676	12.
1		0620	77	225.	1		2300	277	138.	2		1540	477	72.	3		0820	677	12.
1		0625	78	208.	1		2305	278	137.	2		1545	478	71.	3		0825	678	12.
1		0630	79	198.	1		2310	279	137.	2		1550	479	71.	3		0830	679	12.
1		0635	80	192.	1		2315	280	137.	2		1555	480	70.	3		0835	680	12.
1		0640	81	188.	1		2320	281	137.	2		1600	481	69.	3		0840	681	12.
1		0645	82	186.	1		2325	282	136.	2		1605	482	69.	3		0845	682	12.
1		0650	83	184.	1		2330	283	136.	2		1610	483	68.	3		0850	683	12.
1		0655	84	183.	1		2335	284	136.	2		1615	484	68.	3		0855	684	12.
1		0700	85	182.	1		2340	285	136.	2		1620	485	67.	3		0900	685	12.
1		0705	86	182.	1		2345	286	135.	2		1625	486	67.	3		0905	686	12.
1		0710	87	181.	1		2350	287	135.	2		1630	487	65.	3		0910	687	12.
1		0715	88	181.	1		2355	288	135.	2		1635	488	64.	3		0915	688	12.
1		0720	89	180.	2		0000	289	135.	2		1640	489	62.	3		0920	689	12.

1	0725	90	180.	*	2	0005	290	134.	*	2	1645	490	60.	*	3	0925	690	12.
1	0730	91	180.	*	2	0010	291	134.	*	2	1650	491	58.	*	3	0930	691	12.
1	0735	92	180.	*	2	0015	292	134.	*	2	1655	492	56.	*	3	0935	692	12.
1	0740	93	179.	*	2	0020	293	134.	*	2	1700	493	54.	*	3	0940	693	12.
1	0745	94	179.	*	2	0025	294	133.	*	2	1705	494	53.	*	3	0945	694	12.
1	0750	95	179.	*	2	0030	295	133.	*	2	1710	495	51.	*	3	0950	695	12.
1	0755	96	179.	*	2	0035	296	133.	*	2	1715	496	49.	*	3	0955	696	12.
1	0800	97	179.	*	2	0040	297	133.	*	2	1720	497	48.	*	3	1000	697	12.
1	0805	98	178.	*	2	0045	298	132.	*	2	1725	498	47.	*	3	1005	698	12.
1	0810	99	178.	*	2	0050	299	132.	*	2	1730	499	45.	*	3	1010	699	12.
1	0815	100	178.	*	2	0055	300	132.	*	2	1735	500	44.	*	3	1015	700	12.
1	0820	101	178.	*	2	0100	301	131.	*	2	1740	501	43.	*	3	1020	701	12.
1	0825	102	178.	*	2	0105	302	131.	*	2	1745	502	41.	*	3	1025	702	12.
1	0830	103	177.	*	2	0110	303	131.	*	2	1750	503	40.	*	3	1030	703	12.
1	0835	104	177.	*	2	0115	304	131.	*	2	1755	504	39.	*	3	1035	704	12.
1	0840	105	177.	*	2	0120	305	130.	*	2	1800	505	38.	*	3	1040	705	12.
1	0845	106	177.	*	2	0125	306	130.	*	2	1805	506	36.	*	3	1045	706	12.
1	0850	107	177.	*	2	0130	307	130.	*	2	1810	507	33.	*	3	1050	707	12.
1	0855	108	176.	*	2	0135	308	130.	*	2	1815	508	30.	*	3	1055	708	12.
1	0900	109	176.	*	2	0140	309	129.	*	2	1820	509	26.	*	3	1100	709	12.
1	0905	110	176.	*	2	0145	310	129.	*	2	1825	510	24.	*	3	1105	710	12.
1	0910	111	176.	*	2	0150	311	129.	*	2	1830	511	21.	*	3	1110	711	12.
1	0915	112	176.	*	2	0155	312	129.	*	2	1835	512	20.	*	3	1115	712	12.
1	0920	113	175.	*	2	0200	313	128.	*	2	1840	513	18.	*	3	1120	713	12.
1	0925	114	175.	*	2	0205	314	128.	*	2	1845	514	17.	*	3	1125	714	12.
1	0930	115	175.	*	2	0210	315	128.	*	2	1850	515	16.	*	3	1130	715	12.
1	0935	116	175.	*	2	0215	316	128.	*	2	1855	516	15.	*	3	1135	716	12.
1	0940	117	174.	*	2	0220	317	127.	*	2	1900	517	15.	*	3	1140	717	12.
1	0945	118	174.	*	2	0225	318	127.	*	2	1905	518	14.	*	3	1145	718	12.
1	0950	119	174.	*	2	0230	319	127.	*	2	1910	519	14.	*	3	1150	719	12.
1	0955	120	174.	*	2	0235	320	127.	*	2	1915	520	13.	*	3	1155	720	12.
1	1000	121	174.	*	2	0240	321	126.	*	2	1920	521	13.	*	3	1200	721	12.
1	1005	122	173.	*	2	0245	322	126.	*	2	1925	522	13.	*	3	1205	722	12.
1	1010	123	173.	*	2	0250	323	126.	*	2	1930	523	13.	*	3	1210	723	12.
1	1015	124	173.	*	2	0255	324	126.	*	2	1935	524	13.	*	3	1215	724	12.
1	1020	125	173.	*	2	0300	325	125.	*	2	1940	525	13.	*	3	1220	725	12.
1	1025	126	173.	*	2	0305	326	125.	*	2	1945	526	13.	*	3	1225	726	12.
1	1030	127	172.	*	2	0310	327	125.	*	2	1950	527	13.	*	3	1230	727	12.
1	1035	128	172.	*	2	0315	328	125.	*	2	1955	528	12.	*	3	1235	728	12.
1	1040	129	172.	*	2	0320	329	124.	*	2	2000	529	12.	*	3	1240	729	12.
1	1045	130	172.	*	2	0325	330	124.	*	2	2005	530	12.	*	3	1245	730	12.
1	1050	131	171.	*	2	0330	331	124.	*	2	2010	531	12.	*	3	1250	731	12.
1	1055	132	171.	*	2	0335	332	124.	*	2	2015	532	12.	*	3	1255	732	12.
1	1100	133	171.	*	2	0340	333	123.	*	2	2020	533	12.	*	3	1300	733	12.
1	1105	134	171.	*	2	0345	334	123.	*	2	2025	534	12.	*	3	1305	734	12.
1	1110	135	171.	*	2	0350	335	123.	*	2	2030	535	12.	*	3	1310	735	12.
1	1115	136	170.	*	2	0355	336	122.	*	2	2035	536	12.	*	3	1315	736	12.
1	1120	137	170.	*	2	0400	337	122.	*	2	2040	537	12.	*	3	1320	737	12.
1	1125	138	170.	*	2	0405	338	122.	*	2	2045	538	12.	*	3	1325	738	12.
1	1130	139	170.	*	2	0410	339	122.	*	2	2050	539	12.	*	3	1330	739	12.
1	1135	140	170.	*	2	0415	340	121.	*	2	2055	540	12.	*	3	1335	740	12.
1	1140	141	169.	*	2	0420	341	121.	*	2	2100	541	12.	*	3	1340	741	12.
1	1145	142	169.	*	2	0425	342	121.	*	2	2105	542	12.	*	3	1345	742	12.
1	1150	143	169.	*	2	0430	343	120.	*	2	2110	543	12.	*	3	1350	743	12.
1	1155	144	169.	*	2	0435	344	120.	*	2	2115	544	12.	*	3	1355	744	12.
1	1200	145	168.	*	2	0440	345	120.	*	2	2120	545	12.	*	3	1400	745	12.
1	1205	146	168.	*	2	0445	346	120.	*	2	2125	546	12.	*	3	1405	746	12.
1	1210	147	168.	*	2	0450	347	119.	*	2	2130	547	12.	*	3	1410	747	12.
1	1215	148	168.	*	2	0455	348	119.	*	2	2135	548	12.	*	3	1415	748	12.
1	1220	149	168.	*	2	0500	349	119.	*	2	2140	549	12.	*	3	1420	749	12.
1	1225	150	167.	*	2	0505	350	119.	*	2	2145	550	12.	*	3	1425	750	12.
1	1230	151	167.	*	2	0510	351	118.	*	2	2150	551	12.	*	3	1430	751	12.
1	1235	152	167.	*	2	0515	352	118.	*	2	2155	552	12.	*	3	1435	752	12.
1	1240	153	167.	*	2	0520	353	118.	*	2	2200	553	12.	*	3	1440	753	12.
1	1245	154	166.	*	2	0525	354	117.	*	2	2205	554	12.	*	3	1445	754	12.
1	1250	155	166.	*	2	0530	355	117.	*	2	2210	555	12.	*	3	1450	755	12.
1	1255	156	166.	*	2	0535	356	117.	*	2	2215	556	12.	*	3	1455	756	12.
1	1300	157	166.	*	2	0540	357	117.	*	2	2220	557	12.	*	3	1500	757	12.
1	1305	158	166.	*	2	0545	358	116.	*	2	2225	558	12.	*	3	1505	758	12.
1	1310	159	165.	*	2	0550	359	116.	*	2	2230	559	12.	*	3	1510	759	12.
1	1315	160	165.	*	2	0555	360	116.	*	2	2235	560	12.	*	3	1515	760	12.
1	1320	161	165.	*	2	0600	361	116.	*	2	2240	561	12.	*	3	1520	761	12.
1	1325	162	165.	*	2	0605	362	115.	*	2	2245	562	12.	*	3	1525	762	12.
1	1330	163	164.	*	2	0610	363	115.	*	2	2250	563	12.	*	3	1530	763	12.
1	1335	164	164.	*	2	0615	364	115.	*	2	2255	564	12.	*	3	1535	764	12.
1	1340	165	164.	*	2	0620	365	114.	*	2	2300	565	12.	*	3	1540	765	12.
1	1345	166	164.	*	2	0625	366	114.	*	2	2305	566	12.	*	3	1545	766	12.
1	1350	167	164.	*	2	0630	367	114.	*	2	2310	567	12.	*	3	1550	767	12.
1	1355	168	163.	*	2	0635	368	114.	*	2	2315	568	12.	*	3	1555	768	12.
1	1400	169	163.	*	2	0640	369	113.	*	2	2320	569	12.	*	3	1600	769	12.
1	1405	170	163.	*	2	0645	370	113.	*	2	2325	570	12.	*	3	1605	770	12.
1	1410	171	163.	*	2	0650	371	113.	*	2	2330	571	12.	*	3	1610	771	12.
1	1415	172	162.	*	2	0655	372	113.	*	2	2335	572	12.	*	3	1615	772	12.
1	1420	173	162.	*	2	0700	373	112.	*	2	2340	573	12.	*	3	1620	773	12.
1	1425	174	162.	*	2	0705	374	112.	*	2	2345	574	12.	*	3	1625	774	12.
1	1430	175	162.	*	2	0710	375	112.	*	2	2350	575	12.	*	3	1630	775	12.
1	1435	176	162.	*	2	0715	376	112.	*	2	2355	576	12.	*	3	1635	776	12.
1	1440	177	161.	*	2	0720	377	111.	*	3	0000	577	12.	*	3	1640	777	12.
1	1445	178	161.	*	2	0725	378	111.	*	3	0005	578	12.	*	3	1645	778	12.
1	1450	179	161.	*	2	0730	379	111.	*	3	0010	579	12.	*	3	1650	779	12.
1	1455	180	161.	*	2	0735	380	110.	*	3	0015	580	12.	*	3	1655	780	12.
1	1500	181	160.	*	2	0740	381	110.	*	3	0020	581	12.	*	3	1700	781	12.
1	1505	182	160.	*	2	0745	382	110.	*	3	0025	582	12.	*	3	1705	782	12.
1	1510	183	160.	*	2	0750	383	109.	*	3	0030	583	12.	*	3	1710	783	12.
1	1515	184	160.	*	2	0755	384	109.	*	3	0035	584	12.	*	3	1715	784	12.

1	1520	185	160.	*	2	0800	385	109.	*	3	0040	585	12.	*	3	1720	785	12.
1	1525	186	159.	*	2	0805	386	108.	*	3	0045	586	12.	*	3	1725	786	12.
1	1530	187	159.	*	2	0810	387	108.	*	3	0050	587	12.	*	3	1730	787	12.
1	1535	188	159.	*	2	0815	388	108.	*	3	0055	588	12.	*	3	1735	788	12.
1	1540	189	159.	*	2	0820	389	108.	*	3	0100	589	12.	*	3	1740	789	12.
1	1545	190	158.	*	2	0825	390	107.	*	3	0105	590	12.	*	3	1745	790	12.
1	1550	191	158.	*	2	0830	391	107.	*	3	0110	591	12.	*	3	1750	791	12.
1	1555	192	158.	*	2	0835	392	107.	*	3	0115	592	12.	*	3	1755	792	12.
1	1600	193	158.	*	2	0840	393	106.	*	3	0120	593	12.	*	3	1800	793	12.
1	1605	194	157.	*	2	0845	394	106.	*	3	0125	594	12.	*	3	1805	794	12.
1	1610	195	157.	*	2	0850	395	106.	*	3	0130	595	12.	*	3	1810	795	12.
1	1615	196	157.	*	2	0855	396	105.	*	3	0135	596	12.	*	3	1815	796	12.
1	1620	197	157.	*	2	0900	397	105.	*	3	0140	597	12.	*	3	1820	797	12.
1	1625	198	157.	*	2	0905	398	105.	*	3	0145	598	12.	*	3	1825	798	12.
1	1630	199	156.	*	2	0910	399	105.	*	3	0150	599	12.	*	3	1830	799	12.
1	1635	200	156.	*	2	0915	400	104.	*	3	0155	600	12.	*	3	1835	800	12.
				*					*					*				

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	66.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 3905.	3.67		765.	307.	140.	140.
		(INCHES)	.679	1.091	1.382	1.382
		(AC-FT)	379.	609.	772.	772.

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		1640	201	155.	*	2		0920	401	103.	*	3		0200	601	12.
1		0005	2	0.	*	1		1645	202	155.	*	2		0925	402	103.	*	3		0205	602	12.
1		0010	3	0.	*	1		1650	203	155.	*	2		0930	403	103.	*	3		0210	603	12.
1		0015	4	0.	*	1		1655	204	154.	*	2		0935	404	102.	*	3		0215	604	12.
1		0020	5	1.	*	1		1700	205	154.	*	2		0940	405	102.	*	3		0220	605	12.
1		0025	6	8.	*	1		1705	206	154.	*	2		0945	406	102.	*	3		0225	606	12.
1		0030	7	20.	*	1		1710	207	154.	*	2		0950	407	102.	*	3		0230	607	12.
1		0035	8	31.	*	1		1715	208	154.	*	2		0955	408	101.	*	3		0235	608	12.
1		0040	9	33.	*	1		1720	209	153.	*	2		1000	409	101.	*	3		0240	609	12.
1		0045	10	29.	*	1		1725	210	153.	*	2		1005	410	101.	*	3		0245	610	12.
1		0050	11	26.	*	1		1730	211	153.	*	2		1010	411	100.	*	3		0250	611	12.
1		0055	12	26.	*	1		1735	212	153.	*	2		1015	412	100.	*	3		0255	612	12.
1		0100	13	27.	*	1		1740	213	152.	*	2		1020	413	100.	*	3		0300	613	12.
1		0105	14	30.	*	1		1745	214	152.	*	2		1025	414	100.	*	3		0305	614	12.
1		0110	15	35.	*	1		1750	215	152.	*	2		1030	415	99.	*	3		0310	615	12.
1		0115	16	43.	*	1		1755	216	152.	*	2		1035	416	99.	*	3		0315	616	12.
1		0120	17	49.	*	1		1800	217	152.	*	2		1040	417	99.	*	3		0320	617	12.
1		0125	18	59.	*	1		1805	218	151.	*	2		1045	418	98.	*	3		0325	618	12.
1		0130	19	80.	*	1		1810	219	151.	*	2		1050	419	98.	*	3		0330	619	12.
1		0135	20	106.	*	1		1815	220	151.	*	2		1055	420	97.	*	3		0335	620	12.
1		0140	21	129.	*	1		1820	221	151.	*	2		1100	421	97.	*	3		0340	621	12.
1		0145	22	145.	*	1		1825	222	150.	*	2		1105	422	97.	*	3		0345	622	12.
1		0150	23	152.	*	1		1830	223	150.	*	2		1110	423	96.	*	3		0350	623	12.
1		0155	24	146.	*	1		1835	224	150.	*	2		1115	424	96.	*	3		0355	624	12.
1		0200	25	134.	*	1		1840	225	150.	*	2		1120	425	95.	*	3		0400	625	12.
1		0205	26	123.	*	1		1845	226	149.	*	2		1125	426	95.	*	3		0405	626	12.
1		0210	27	126.	*	1		1850	227	149.	*	2		1130	427	95.	*	3		0410	627	12.
1		0215	28	154.	*	1		1855	228	149.	*	2		1135	428	94.	*	3		0415	628	12.
1		0220	29	200.	*	1		1900	229	149.	*	2		1140	429	94.	*	3		0420	629	12.
1		0225	30	242.	*	1		1905	230	148.	*	2		1145	430	94.	*	3		0425	630	12.
1		0230	31	259.	*	1		1910	231	148.	*	2		1150	431	93.	*	3		0430	631	12.
1		0235	32	253.	*	1		1915	232	148.	*	2		1155	432	93.	*	3		0435	632	12.
1		0240	33	255.	*	1		1920	233	148.	*	2		1200	433	92.	*	3		0440	633	12.
1		0245	34	277.	*	1		1925	234	147.	*	2		1205	434	92.	*	3		0445	634	12.
1		0250	35	289.	*	1		1930	235	147.	*	2		1210	435	92.	*	3		0450	635	12.
1		0255	36	278.	*	1		1935	236	147.	*	2		1215	436	91.	*	3		0455	636	12.
1		0300	37	270.	*	1		1940	237	147.	*	2		1220	437	91.	*	3		0500	637	12.
1		0305	38	317.	*	1		1945	238	146.	*	2		1225	438	91.	*	3		0505	638	12.
1		0310	39	447.	*	1		1950	239	146.	*	2		1230	439	90.	*	3		0510	639	12.
1		0315	40	694.	*	1		1955	240	146.	*	2		1235	440	90.	*	3		0515	640	12.
1		0320	41	1181.	*	1		2000	241	146.	*	2		1240	441	89.	*	3		0520	641	12.
1		0325	42	1936.	*	1		2005	242	145.	*	2		1245	442	89.	*	3		0525	642	12.
1		0330	43	2884.	*	1		2010	243	145.	*	2		1250	443	89.	*	3		0530	643	12.
1		0335	44	3615.	*	1		2015	244	145.	*	2		1255	444	88.	*	3		0535	644	12.
1		0340	45	3771.	*	1		2020	245	145.	*	2		1300	445	88.	*	3		0540	645	12.
1		0345	46	3530.	*	1		2025	246	144.	*	2		1305	446	88.	*	3		0545	646	12.
1		0350	47	3053.	*	1		2030	247	144.	*	2		1310	447	87.	*	3		0550	647	12.
1		0355	48	2491.	*	1		2035	248	144.	*	2		1315	448	87.	*	3		0555	648	12.
1		0400	49	2031.	*	1		2040	249	144.	*	2		1320	449	87.	*	3		0600	649	12.
1		0405	50	1673.	*	1		2045	250	144.	*	2		1325	450	86.	*	3		0605	650	12.
1		0410	51	1356.	*	1		2050	251	143.	*	2		1330	451	86.	*	3		0610	651	12.
1		0415	52	1100.	*	1		2055	252	143.	*	2		1335	452	86.	*	3		0615	652	12.
1		0420	53	926.	*	1		2100	253	143.	*	2		1340	453	85.	*	3		0620	653	12.
1		0425	54	833.	*	1		2105	254	143.	*	2		1345	454	85.	*	3		0625	654	12.
1		0430	55	842.	*	1		2110	255	142.	*	2		1350	455	84.	*	3		0630	655	12.

1	0435	56	933.	*	1	2115	256	142.	*	2	1355	456	84.	*	3	0635	656	12.
1	0440	57	1011.	*	1	2120	257	142.	*	2	1400	457	83.	*	3	0640	657	12.
1	0445	58	1039.	*	1	2125	258	142.	*	2	1405	458	83.	*	3	0645	658	12.
1	0450	59	1066.	*	1	2130	259	141.	*	2	1410	459	82.	*	3	0650	659	12.
1	0455	60	1081.	*	1	2135	260	141.	*	2	1415	460	81.	*	3	0655	660	12.
1	0500	61	1024.	*	1	2140	261	141.	*	2	1420	461	81.	*	3	0700	661	12.
1	0505	62	917.	*	1	2145	262	141.	*	2	1425	462	80.	*	3	0705	662	12.
1	0510	63	787.	*	1	2150	263	140.	*	2	1430	463	79.	*	3	0710	663	12.
1	0515	64	660.	*	1	2155	264	140.	*	2	1435	464	79.	*	3	0715	664	12.
1	0520	65	551.	*	1	2200	265	140.	*	2	1440	465	78.	*	3	0720	665	12.
1	0525	66	468.	*	1	2205	266	140.	*	2	1445	466	77.	*	3	0725	666	12.
1	0530	67	409.	*	1	2210	267	139.	*	2	1450	467	77.	*	3	0730	667	12.
1	0535	68	360.	*	1	2215	268	139.	*	2	1455	468	76.	*	3	0735	668	12.
1	0540	69	323.	*	1	2220	269	139.	*	2	1500	469	75.	*	3	0740	669	12.
1	0545	70	302.	*	1	2225	270	139.	*	2	1505	470	75.	*	3	0745	670	12.
1	0550	71	292.	*	1	2230	271	138.	*	2	1510	471	74.	*	3	0750	671	12.
1	0555	72	281.	*	1	2235	272	138.	*	2	1515	472	74.	*	3	0755	672	12.
1	0600	73	270.	*	1	2240	273	138.	*	2	1520	473	73.	*	3	0800	673	12.
1	0605	74	259.	*	1	2245	274	138.	*	2	1525	474	72.	*	3	0805	674	11.
1	0610	75	245.	*	1	2250	275	137.	*	2	1530	475	72.	*	3	0810	675	11.
1	0615	76	230.	*	1	2255	276	137.	*	2	1535	476	71.	*	3	0815	676	11.
1	0620	77	216.	*	1	2300	277	137.	*	2	1540	477	71.	*	3	0820	677	11.
1	0625	78	205.	*	1	2305	278	137.	*	2	1545	478	70.	*	3	0825	678	11.
1	0630	79	197.	*	1	2310	279	136.	*	2	1550	479	69.	*	3	0830	679	11.
1	0635	80	191.	*	1	2315	280	136.	*	2	1555	480	69.	*	3	0835	680	11.
1	0640	81	188.	*	1	2320	281	136.	*	2	1600	481	68.	*	3	0840	681	11.
1	0645	82	185.	*	1	2325	282	136.	*	2	1605	482	68.	*	3	0845	682	11.
1	0650	83	183.	*	1	2330	283	135.	*	2	1610	483	67.	*	3	0850	683	11.
1	0655	84	182.	*	1	2335	284	135.	*	2	1615	484	67.	*	3	0855	684	11.
1	0700	85	181.	*	1	2340	285	135.	*	2	1620	485	66.	*	3	0900	685	11.
1	0705	86	181.	*	1	2345	286	135.	*	2	1625	486	65.	*	3	0905	686	11.
1	0710	87	180.	*	1	2350	287	134.	*	2	1630	487	63.	*	3	0910	687	11.
1	0715	88	180.	*	1	2355	288	134.	*	2	1635	488	61.	*	3	0915	688	11.
1	0720	89	180.	*	2	0000	289	134.	*	2	1640	489	59.	*	3	0920	689	11.
1	0725	90	179.	*	2	0005	290	134.	*	2	1645	490	57.	*	3	0925	690	11.
1	0730	91	179.	*	2	0010	291	133.	*	2	1650	491	55.	*	3	0930	691	11.
1	0735	92	179.	*	2	0015	292	133.	*	2	1655	492	53.	*	3	0935	692	11.
1	0740	93	179.	*	2	0020	293	133.	*	2	1700	493	52.	*	3	0940	693	11.
1	0745	94	179.	*	2	0025	294	133.	*	2	1705	494	50.	*	3	0945	694	11.
1	0750	95	178.	*	2	0030	295	132.	*	2	1710	495	49.	*	3	0950	695	11.
1	0755	96	178.	*	2	0035	296	132.	*	2	1715	496	47.	*	3	0955	696	11.
1	0800	97	178.	*	2	0040	297	132.	*	2	1720	497	46.	*	3	1000	697	11.
1	0805	98	178.	*	2	0045	298	132.	*	2	1725	498	44.	*	3	1005	698	11.
1	0810	99	178.	*	2	0050	299	131.	*	2	1730	499	43.	*	3	1010	699	11.
1	0815	100	177.	*	2	0055	300	131.	*	2	1735	500	42.	*	3	1015	700	11.
1	0820	101	177.	*	2	0100	301	131.	*	2	1740	501	41.	*	3	1020	701	11.
1	0825	102	177.	*	2	0105	302	130.	*	2	1745	502	39.	*	3	1025	702	11.
1	0830	103	177.	*	2	0110	303	130.	*	2	1750	503	38.	*	3	1030	703	11.
1	0835	104	176.	*	2	0115	304	130.	*	2	1755	504	37.	*	3	1035	704	11.
1	0840	105	176.	*	2	0120	305	130.	*	2	1800	505	35.	*	3	1040	705	11.
1	0845	106	176.	*	2	0125	306	129.	*	2	1805	506	32.	*	3	1045	706	11.
1	0850	107	176.	*	2	0130	307	129.	*	2	1810	507	28.	*	3	1050	707	11.
1	0855	108	176.	*	2	0135	308	129.	*	2	1815	508	25.	*	3	1055	708	11.
1	0900	109	175.	*	2	0140	309	129.	*	2	1820	509	22.	*	3	1100	709	11.
1	0905	110	175.	*	2	0145	310	128.	*	2	1825	510	20.	*	3	1105	710	11.
1	0910	111	175.	*	2	0150	311	128.	*	2	1830	511	19.	*	3	1110	711	11.
1	0915	112	175.	*	2	0155	312	128.	*	2	1835	512	17.	*	3	1115	712	11.
1	0920	113	175.	*	2	0200	313	128.	*	2	1840	513	16.	*	3	1120	713	11.
1	0925	114	174.	*	2	0205	314	127.	*	2	1845	514	15.	*	3	1125	714	11.
1	0930	115	174.	*	2	0210	315	127.	*	2	1850	515	15.	*	3	1130	715	11.
1	0935	116	174.	*	2	0215	316	127.	*	2	1855	516	14.	*	3	1135	716	11.
1	0940	117	174.	*	2	0220	317	127.	*	2	1900	517	14.	*	3	1140	717	11.
1	0945	118	174.	*	2	0225	318	126.	*	2	1905	518	13.	*	3	1145	718	11.
1	0950	119	173.	*	2	0230	319	126.	*	2	1910	519	13.	*	3	1150	719	11.
1	0955	120	173.	*	2	0235	320	126.	*	2	1915	520	13.	*	3	1155	720	11.
1	1000	121	173.	*	2	0240	321	126.	*	2	1920	521	13.	*	3	1200	721	11.
1	1005	122	173.	*	2	0245	322	125.	*	2	1925	522	12.	*	3	1205	722	11.
1	1010	123	172.	*	2	0250	323	125.	*	2	1930	523	12.	*	3	1210	723	11.
1	1015	124	172.	*	2	0255	324	125.	*	2	1935	524	12.	*	3	1215	724	11.
1	1020	125	172.	*	2	0300	325	125.	*	2	1940	525	12.	*	3	1220	725	11.
1	1025	126	172.	*	2	0305	326	124.	*	2	1945	526	12.	*	3	1225	726	11.
1	1030	127	172.	*	2	0310	327	124.	*	2	1950	527	12.	*	3	1230	727	11.
1	1035	128	171.	*	2	0315	328	124.	*	2	1955	528	12.	*	3	1235	728	11.
1	1040	129	171.	*	2	0320	329	124.	*	2	2000	529	12.	*	3	1240	729	11.
1	1045	130	171.	*	2	0325	330	123.	*	2	2005	530	12.	*	3	1245	730	11.
1	1050	131	171.	*	2	0330	331	123.	*	2	2010	531	12.	*	3	1250	731	11.
1	1055	132	171.	*	2	0335	332	123.	*	2	2015	532	12.	*	3	1255	732	11.
1	1100	133	170.	*	2	0340	333	122.	*	2	2020	533	12.	*	3	1300	733	11.
1	1105	134	170.	*	2	0345	334	122.	*	2	2025	534	12.	*	3	1305	734	11.
1	1110	135	170.	*	2	0350	335	122.	*	2	2030	535	12.	*	3	1310	735	11.
1	1115	136	170.	*	2	0355	336	122.	*	2	2035	536	12.	*	3	1315	736	11.
1	1120	137	169.	*	2	0400	337	121.	*	2	2040	537	12.	*	3	1320	737	11.
1	1125	138	169.	*	2	0405	338	121.	*	2	2045	538	12.	*	3	1325	738	11.
1	1130	139	169.	*	2	0410	339	121.	*	2	2050	539	12.	*	3	1330	739	11.
1	1135	140	169.	*	2	0415	340	121.	*	2	2055	540	12.	*	3	1335	740	11.
1	1140	141	169.	*	2	0420	341	120.	*	2	2100	541	12.	*	3	1340	741	11.
1	1145	142	168.	*	2	0425	342	120.	*	2	2105	542	12.	*	3	1345	742	11.
1	1150	143	168.	*	2	0430	343	120.	*	2	2110	543	12.	*	3	1350	743	11.
1	1155	144	168.	*	2	0435	344	119.	*	2	2115	544	12.	*	3	1355	744	11.
1	1200	145	168.	*	2	0440	345	119.	*	2	2120	545	12.	*	3	1400	745	11.
1	1205	146	168.	*	2	0445	346	119.	*	2	2125	546	12.	*	3	1405	746	11.
1	1210	147	167.	*	2	0450	347	119.	*	2	2130	547	12.	*	3	1410	747	11.
1	1215	148	167.	*	2	0455	348	118.	*	2	2135	548	12.	*	3	1415	748	11.
1	1220	149	167.	*	2	0500	349	118.	*	2	2140	549	12.	*	3	1420	749	11.
1	1225	150	167.	*	2	0505	350	118.	*	2	2145	550	12.	*	3	1425	750	11.

1	1230	151	166.	*	2	0510	351	117.	*	2	2150	551	12.	*	3	1430	751	11.
1	1235	152	166.	*	2	0515	352	117.	*	2	2155	552	12.	*	3	1435	752	11.
1	1240	153	166.	*	2	0520	353	117.	*	2	2200	553	12.	*	3	1440	753	11.
1	1245	154	166.	*	2	0525	354	117.	*	2	2205	554	12.	*	3	1445	754	11.
1	1250	155	166.	*	2	0530	355	116.	*	2	2210	555	12.	*	3	1450	755	11.
1	1255	156	165.	*	2	0535	356	116.	*	2	2215	556	12.	*	3	1455	756	11.
1	1300	157	165.	*	2	0540	357	116.	*	2	2220	557	12.	*	3	1500	757	11.
1	1305	158	165.	*	2	0545	358	116.	*	2	2225	558	12.	*	3	1505	758	11.
1	1310	159	165.	*	2	0550	359	115.	*	2	2230	559	12.	*	3	1510	759	11.
1	1315	160	164.	*	2	0555	360	115.	*	2	2235	560	12.	*	3	1515	760	11.
1	1320	161	164.	*	2	0600	361	115.	*	2	2240	561	12.	*	3	1520	761	11.
1	1325	162	164.	*	2	0605	362	115.	*	2	2245	562	12.	*	3	1525	762	11.
1	1330	163	164.	*	2	0610	363	114.	*	2	2250	563	12.	*	3	1530	763	11.
1	1335	164	164.	*	2	0615	364	114.	*	2	2255	564	12.	*	3	1535	764	11.
1	1340	165	163.	*	2	0620	365	114.	*	2	2300	565	12.	*	3	1540	765	11.
1	1345	166	163.	*	2	0625	366	113.	*	2	2305	566	12.	*	3	1545	766	11.
1	1350	167	163.	*	2	0630	367	113.	*	2	2310	567	12.	*	3	1550	767	11.
1	1355	168	163.	*	2	0635	368	113.	*	2	2315	568	12.	*	3	1555	768	11.
1	1400	169	162.	*	2	0640	369	113.	*	2	2320	569	12.	*	3	1600	769	11.
1	1405	170	162.	*	2	0645	370	112.	*	2	2325	570	12.	*	3	1605	770	11.
1	1410	171	162.	*	2	0650	371	112.	*	2	2330	571	12.	*	3	1610	771	11.
1	1415	172	162.	*	2	0655	372	112.	*	2	2335	572	12.	*	3	1615	772	11.
1	1420	173	162.	*	2	0700	373	112.	*	2	2340	573	12.	*	3	1620	773	11.
1	1425	174	161.	*	2	0705	374	111.	*	2	2345	574	12.	*	3	1625	774	11.
1	1430	175	161.	*	2	0710	375	111.	*	2	2350	575	12.	*	3	1630	775	11.
1	1435	176	161.	*	2	0715	376	111.	*	2	2355	576	12.	*	3	1635	776	11.
1	1440	177	161.	*	2	0720	377	110.	*	3	0000	577	12.	*	3	1640	777	11.
1	1445	178	160.	*	2	0725	378	110.	*	3	0005	578	12.	*	3	1645	778	11.
1	1450	179	160.	*	2	0730	379	110.	*	3	0010	579	12.	*	3	1650	779	11.
1	1455	180	160.	*	2	0735	380	109.	*	3	0015	580	12.	*	3	1655	780	11.
1	1500	181	160.	*	2	0740	381	109.	*	3	0020	581	12.	*	3	1700	781	11.
1	1505	182	160.	*	2	0745	382	109.	*	3	0025	582	12.	*	3	1705	782	11.
1	1510	183	159.	*	2	0750	383	109.	*	3	0030	583	12.	*	3	1710	783	11.
1	1515	184	159.	*	2	0755	384	108.	*	3	0035	584	12.	*	3	1715	784	11.
1	1520	185	159.	*	2	0800	385	108.	*	3	0040	585	12.	*	3	1720	785	11.
1	1525	186	159.	*	2	0805	386	108.	*	3	0045	586	12.	*	3	1725	786	11.
1	1530	187	158.	*	2	0810	387	107.	*	3	0050	587	12.	*	3	1730	787	11.
1	1535	188	158.	*	2	0815	388	107.	*	3	0055	588	12.	*	3	1735	788	11.
1	1540	189	158.	*	2	0820	389	107.	*	3	0100	589	12.	*	3	1740	789	11.
1	1545	190	158.	*	2	0825	390	106.	*	3	0105	590	12.	*	3	1745	790	11.
1	1550	191	157.	*	2	0830	391	106.	*	3	0110	591	12.	*	3	1750	791	11.
1	1555	192	157.	*	2	0835	392	106.	*	3	0115	592	12.	*	3	1755	792	11.
1	1600	193	157.	*	2	0840	393	106.	*	3	0120	593	12.	*	3	1800	793	11.
1	1605	194	157.	*	2	0845	394	105.	*	3	0125	594	12.	*	3	1805	794	11.
1	1610	195	157.	*	2	0850	395	105.	*	3	0130	595	12.	*	3	1810	795	11.
1	1615	196	156.	*	2	0855	396	105.	*	3	0135	596	12.	*	3	1815	796	11.
1	1620	197	156.	*	2	0900	397	104.	*	3	0140	597	12.	*	3	1820	797	11.
1	1625	198	156.	*	2	0905	398	104.	*	3	0145	598	12.	*	3	1825	798	11.
1	1630	199	156.	*	2	0910	399	104.	*	3	0150	599	12.	*	3	1830	799	11.
1	1635	200	155.	*	2	0915	400	104.	*	3	0155	600	12.	*	3	1835	800	11.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	66.58-HR
+ (CFS)	(HR)				
		(CFS)			
+ 3771.	3.67	721.	295.	135.	135.
		(INCHES) .640	1.049	1.335	1.335
		(AC-FT) 358.	586.	746.	746.

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		1640	201	153.	*	2		0920	401	100.	*	3		0200	601	11.
1		0005	2	0.	*	1		1645	202	152.	*	2		0925	402	100.	*	3		0205	602	11.
1		0010	3	0.	*	1		1650	203	152.	*	2		0930	403	100.	*	3		0210	603	11.
1		0015	4	0.	*	1		1655	204	152.	*	2		0935	404	99.	*	3		0215	604	11.
1		0020	5	1.	*	1		1700	205	152.	*	2		0940	405	99.	*	3		0220	605	11.
1		0025	6	7.	*	1		1705	206	151.	*	2		0945	406	99.	*	3		0225	606	11.
1		0030	7	18.	*	1		1710	207	151.	*	2		0950	407	98.	*	3		0230	607	11.
1		0035	8	28.	*	1		1715	208	151.	*	2		0955	408	98.	*	3		0235	608	11.
1		0040	9	30.	*	1		1720	209	151.	*	2		1000	409	98.	*	3		0240	609	11.
1		0045	10	26.	*	1		1725	210	151.	*	2		1005	410	97.	*	3		0245	610	11.
1		0050	11	23.	*	1		1730	211	150.	*	2		1010	411	97.	*	3		0250	611	11.
1		0055	12	23.	*	1		1735	212	150.	*	2		1015	412	96.	*	3		0255	612	11.
1		0100	13	24.	*	1		1740	213	150.	*	2		1020	413	96.	*	3		0300	613	11.
1		0105	14	27.	*	1		1745	214	150.	*	2		1025	414	96.	*	3		0305	614	11.
1		0110	15	33.	*	1		1750	215	149.	*	2		1030	415	95.	*	3		0310	615	11.
1		0115	16	41.	*	1		1755	216	149.	*	2		1035	416	95.	*	3		0315	616	11.
1		0120	17	46.	*	1		1800	217	149.	*	2		1040	417	94.	*	3		0320	617	11.
1		0125	18	55.	*	1		1805	218	149.	*	2		1045	418	94.	*	3		0325	618	11.
1		0130	19	74.	*	1		1810	219	148.	*	2		1050	419	94.	*	3		0330	619	11.
1		0135	20	99.	*	1		1815	220	148.	*	2		1055	420	93.	*	3		0335	620	11.
1		0140	21	120.	*	1		1820	221	148.	*	2		1100	421	93.	*	3		0340	621	11.

1	0145	22	136.	*	1	1825	222	148.	*	2	1105	422	93.	*	3	0345	622	11.
1	0150	23	142.	*	1	1830	223	147.	*	2	1110	423	92.	*	3	0350	623	11.
1	0155	24	137.	*	1	1835	224	147.	*	2	1115	424	92.	*	3	0355	624	11.
1	0200	25	125.	*	1	1840	225	147.	*	2	1120	425	91.	*	3	0400	625	11.
1	0205	26	115.	*	1	1845	226	147.	*	2	1125	426	91.	*	3	0405	626	11.
1	0210	27	118.	*	1	1850	227	146.	*	2	1130	427	91.	*	3	0410	627	11.
1	0215	28	146.	*	1	1855	228	146.	*	2	1135	428	90.	*	3	0415	628	11.
1	0220	29	191.	*	1	1900	229	146.	*	2	1140	429	90.	*	3	0420	629	11.
1	0225	30	231.	*	1	1905	230	146.	*	2	1145	430	90.	*	3	0425	630	11.
1	0230	31	247.	*	1	1910	231	145.	*	2	1150	431	89.	*	3	0430	631	11.
1	0235	32	242.	*	1	1915	232	145.	*	2	1155	432	89.	*	3	0435	632	11.
1	0240	33	244.	*	1	1920	233	145.	*	2	1200	433	88.	*	3	0440	633	11.
1	0245	34	265.	*	1	1925	234	145.	*	2	1205	434	88.	*	3	0445	634	11.
1	0250	35	277.	*	1	1930	235	144.	*	2	1210	435	88.	*	3	0450	635	11.
1	0255	36	267.	*	1	1935	236	144.	*	2	1215	436	87.	*	3	0455	636	11.
1	0300	37	259.	*	1	1940	237	144.	*	2	1220	437	87.	*	3	0500	637	11.
1	0305	38	304.	*	1	1945	238	144.	*	2	1225	438	87.	*	3	0505	638	11.
1	0310	39	429.	*	1	1950	239	143.	*	2	1230	439	86.	*	3	0510	639	11.
1	0315	40	666.	*	1	1955	240	143.	*	2	1235	440	86.	*	3	0515	640	11.
1	0320	41	1135.	*	1	2000	241	143.	*	2	1240	441	86.	*	3	0520	641	11.
1	0325	42	1864.	*	1	2005	242	143.	*	2	1245	442	85.	*	3	0525	642	11.
1	0330	43	2783.	*	1	2010	243	143.	*	2	1250	443	85.	*	3	0530	643	11.
1	0335	44	3500.	*	1	2015	244	142.	*	2	1255	444	85.	*	3	0535	644	11.
1	0340	45	3652.	*	1	2020	245	142.	*	2	1300	445	84.	*	3	0540	645	11.
1	0345	46	3416.	*	1	2025	246	142.	*	2	1305	446	84.	*	3	0545	646	11.
1	0350	47	2959.	*	1	2030	247	142.	*	2	1310	447	83.	*	3	0550	647	11.
1	0355	48	2418.	*	1	2035	248	141.	*	2	1315	448	82.	*	3	0555	648	11.
1	0400	49	1974.	*	1	2040	249	141.	*	2	1320	449	82.	*	3	0600	649	11.
1	0405	50	1628.	*	1	2045	250	141.	*	2	1325	450	81.	*	3	0605	650	11.
1	0410	51	1320.	*	1	2050	251	141.	*	2	1330	451	80.	*	3	0610	651	11.
1	0415	52	1072.	*	1	2055	252	140.	*	2	1335	452	80.	*	3	0615	652	11.
1	0420	53	903.	*	1	2100	253	140.	*	2	1340	453	79.	*	3	0620	653	11.
1	0425	54	813.	*	1	2105	254	140.	*	2	1345	454	78.	*	3	0625	654	11.
1	0430	55	821.	*	1	2110	255	139.	*	2	1350	455	78.	*	3	0630	655	11.
1	0435	56	909.	*	1	2115	256	139.	*	2	1355	456	77.	*	3	0635	656	11.
1	0440	57	985.	*	1	2120	257	139.	*	2	1400	457	76.	*	3	0640	657	11.
1	0445	58	1013.	*	1	2125	258	139.	*	2	1405	458	76.	*	3	0645	658	11.
1	0450	59	1039.	*	1	2130	259	138.	*	2	1410	459	75.	*	3	0650	659	11.
1	0455	60	1054.	*	1	2135	260	138.	*	2	1415	460	75.	*	3	0655	660	11.
1	0500	61	999.	*	1	2140	261	138.	*	2	1420	461	74.	*	3	0700	661	11.
1	0505	62	895.	*	1	2145	262	138.	*	2	1425	462	73.	*	3	0705	662	11.
1	0510	63	769.	*	1	2150	263	137.	*	2	1430	463	73.	*	3	0710	663	11.
1	0515	64	645.	*	1	2155	264	137.	*	2	1435	464	72.	*	3	0715	664	11.
1	0520	65	539.	*	1	2200	265	137.	*	2	1440	465	72.	*	3	0720	665	11.
1	0525	66	459.	*	1	2205	266	137.	*	2	1445	466	71.	*	3	0725	666	11.
1	0530	67	401.	*	1	2210	267	136.	*	2	1450	467	70.	*	3	0730	667	11.
1	0535	68	353.	*	1	2215	268	136.	*	2	1455	468	70.	*	3	0735	668	11.
1	0540	69	317.	*	1	2220	269	136.	*	2	1500	469	69.	*	3	0740	669	11.
1	0545	70	296.	*	1	2225	270	136.	*	2	1505	470	69.	*	3	0745	670	11.
1	0550	71	287.	*	1	2230	271	135.	*	2	1510	471	68.	*	3	0750	671	11.
1	0555	72	276.	*	1	2235	272	135.	*	2	1515	472	68.	*	3	0755	672	11.
1	0600	73	265.	*	1	2240	273	135.	*	2	1520	473	67.	*	3	0800	673	11.
1	0605	74	254.	*	1	2245	274	135.	*	2	1525	474	66.	*	3	0805	674	11.
1	0610	75	241.	*	1	2250	275	134.	*	2	1530	475	66.	*	3	0810	675	11.
1	0615	76	226.	*	1	2255	276	134.	*	2	1535	476	65.	*	3	0815	676	11.
1	0620	77	213.	*	1	2300	277	134.	*	2	1540	477	63.	*	3	0820	677	11.
1	0625	78	202.	*	1	2305	278	134.	*	2	1545	478	61.	*	3	0825	678	11.
1	0630	79	194.	*	1	2310	279	134.	*	2	1550	479	59.	*	3	0830	679	11.
1	0635	80	189.	*	1	2315	280	133.	*	2	1555	480	57.	*	3	0835	680	11.
1	0640	81	185.	*	1	2320	281	133.	*	2	1600	481	55.	*	3	0840	681	11.
1	0645	82	182.	*	1	2325	282	133.	*	2	1605	482	53.	*	3	0845	682	11.
1	0650	83	181.	*	1	2330	283	133.	*	2	1610	483	52.	*	3	0850	683	11.
1	0655	84	180.	*	1	2335	284	132.	*	2	1615	484	50.	*	3	0855	684	11.
1	0700	85	179.	*	1	2340	285	132.	*	2	1620	485	49.	*	3	0900	685	11.
1	0705	86	178.	*	1	2345	286	132.	*	2	1625	486	47.	*	3	0905	686	11.
1	0710	87	178.	*	1	2350	287	131.	*	2	1630	487	46.	*	3	0910	687	11.
1	0715	88	178.	*	1	2355	288	131.	*	2	1635	488	44.	*	3	0915	688	11.
1	0720	89	177.	*	2	0000	289	131.	*	2	1640	489	43.	*	3	0920	689	11.
1	0725	90	177.	*	2	0005	290	131.	*	2	1645	490	42.	*	3	0925	690	11.
1	0730	91	177.	*	2	0010	291	130.	*	2	1650	491	40.	*	3	0930	691	11.
1	0735	92	177.	*	2	0015	292	130.	*	2	1655	492	39.	*	3	0935	692	11.
1	0740	93	176.	*	2	0020	293	130.	*	2	1700	493	38.	*	3	0940	693	11.
1	0745	94	176.	*	2	0025	294	130.	*	2	1705	494	37.	*	3	0945	694	11.
1	0750	95	176.	*	2	0030	295	129.	*	2	1710	495	35.	*	3	0950	695	11.
1	0755	96	176.	*	2	0035	296	129.	*	2	1715	496	32.	*	3	0955	696	11.
1	0800	97	176.	*	2	0040	297	129.	*	2	1720	497	29.	*	3	1000	697	11.
1	0805	98	175.	*	2	0045	298	129.	*	2	1725	498	25.	*	3	1005	698	11.
1	0810	99	175.	*	2	0050	299	128.	*	2	1730	499	23.	*	3	1010	699	11.
1	0815	100	175.	*	2	0055	300	128.	*	2	1735	500	20.	*	3	1015	700	11.
1	0820	101	175.	*	2	0100	301	128.	*	2	1740	501	19.	*	3	1020	701	11.
1	0825	102	175.	*	2	0105	302	128.	*	2	1745	502	17.	*	3	1025	702	11.
1	0830	103	174.	*	2	0110	303	127.	*	2	1750	503	16.	*	3	1030	703	11.
1	0835	104	174.	*	2	0115	304	127.	*	2	1755	504	15.	*	3	1035	704	11.
1	0840	105	174.	*	2	0120	305	127.	*	2	1800	505	15.	*	3	1040	705	11.
1	0845	106	174.	*	2	0125	306	127.	*	2	1805	506	14.	*	3	1045	706	11.
1	0850	107	173.	*	2	0130	307	126.	*	2	1810	507	13.	*	3	1050	707	11.
1	0855	108	173.	*	2	0135	308	126.	*	2	1815	508	13.	*	3	1055	708	11.
1	0900	109	173.	*	2	0140	309	126.	*	2	1820	509	13.	*	3	1100	709	11.
1	0905	110	173.	*	2	0145	310	125.	*	2	1825	510	13.	*	3	1105	710	11.
1	0910	111	173.	*	2	0150	311	125.	*	2	1830	511	12.	*	3	1110	711	11.
1	0915	112	172.	*	2	0155	312	125.	*	2	1835	512	12.	*	3	1115	712	11.
1	0920	113	172.	*	2	0200	313	125.	*	2	1840	513	12.	*	3	1120	713	11.
1	0925	114	172.	*	2	0205	314	124.	*	2	1845	514	12.	*	3	1125	714	11.
1	0930	115	172.	*	2	0210	315	124.	*	2	1850	515	12.	*	3	1130	715	11.
1	0935	116	171.	*	2	0215	316	124.	*	2	1855	516	12.	*	3	1135	716	11.

1	0940	117	171.	*	2	0220	317	124.	*	2	1900	517	12.	*	3	1140	717	11.
1	0945	118	171.	*	2	0225	318	123.	*	2	1905	518	12.	*	3	1145	718	11.
1	0950	119	171.	*	2	0230	319	123.	*	2	1910	519	12.	*	3	1150	719	11.
1	0955	120	171.	*	2	0235	320	123.	*	2	1915	520	12.	*	3	1155	720	11.
1	1000	121	170.	*	2	0240	321	123.	*	2	1920	521	12.	*	3	1200	721	11.
1	1005	122	170.	*	2	0245	322	122.	*	2	1925	522	12.	*	3	1205	722	11.
1	1010	123	170.	*	2	0250	323	122.	*	2	1930	523	12.	*	3	1210	723	11.
1	1015	124	170.	*	2	0255	324	122.	*	2	1935	524	12.	*	3	1215	724	11.
1	1020	125	170.	*	2	0300	325	122.	*	2	1940	525	12.	*	3	1220	725	11.
1	1025	126	169.	*	2	0305	326	121.	*	2	1945	526	12.	*	3	1225	726	11.
1	1030	127	169.	*	2	0310	327	121.	*	2	1950	527	12.	*	3	1230	727	11.
1	1035	128	169.	*	2	0315	328	121.	*	2	1955	528	12.	*	3	1235	728	11.
1	1040	129	169.	*	2	0320	329	121.	*	2	2000	529	12.	*	3	1240	729	11.
1	1045	130	169.	*	2	0325	330	120.	*	2	2005	530	12.	*	3	1245	730	11.
1	1050	131	168.	*	2	0330	331	120.	*	2	2010	531	12.	*	3	1250	731	11.
1	1055	132	168.	*	2	0335	332	120.	*	2	2015	532	12.	*	3	1255	732	11.
1	1100	133	168.	*	2	0340	333	119.	*	2	2020	533	12.	*	3	1300	733	11.
1	1105	134	168.	*	2	0345	334	119.	*	2	2025	534	12.	*	3	1305	734	11.
1	1110	135	167.	*	2	0350	335	119.	*	2	2030	535	12.	*	3	1310	735	11.
1	1115	136	167.	*	2	0355	336	119.	*	2	2035	536	12.	*	3	1315	736	11.
1	1120	137	167.	*	2	0400	337	118.	*	2	2040	537	12.	*	3	1320	737	11.
1	1125	138	167.	*	2	0405	338	118.	*	2	2045	538	12.	*	3	1325	738	11.
1	1130	139	167.	*	2	0410	339	118.	*	2	2050	539	12.	*	3	1330	739	11.
1	1135	140	166.	*	2	0415	340	117.	*	2	2055	540	12.	*	3	1335	740	11.
1	1140	141	166.	*	2	0420	341	117.	*	2	2100	541	12.	*	3	1340	741	11.
1	1145	142	166.	*	2	0425	342	117.	*	2	2105	542	12.	*	3	1345	742	11.
1	1150	143	166.	*	2	0430	343	117.	*	2	2110	543	12.	*	3	1350	743	11.
1	1155	144	165.	*	2	0435	344	116.	*	2	2115	544	12.	*	3	1355	744	11.
1	1200	145	165.	*	2	0440	345	116.	*	2	2120	545	12.	*	3	1400	745	11.
1	1205	146	165.	*	2	0445	346	116.	*	2	2125	546	12.	*	3	1405	746	11.
1	1210	147	165.	*	2	0450	347	116.	*	2	2130	547	12.	*	3	1410	747	11.
1	1215	148	165.	*	2	0455	348	115.	*	2	2135	548	12.	*	3	1415	748	11.
1	1220	149	164.	*	2	0500	349	115.	*	2	2140	549	11.	*	3	1420	749	11.
1	1225	150	164.	*	2	0505	350	115.	*	2	2145	550	11.	*	3	1425	750	11.
1	1230	151	164.	*	2	0510	351	114.	*	2	2150	551	11.	*	3	1430	751	11.
1	1235	152	164.	*	2	0515	352	114.	*	2	2155	552	11.	*	3	1435	752	11.
1	1240	153	163.	*	2	0520	353	114.	*	2	2200	553	11.	*	3	1440	753	11.
1	1245	154	163.	*	2	0525	354	114.	*	2	2205	554	11.	*	3	1445	754	11.
1	1250	155	163.	*	2	0530	355	113.	*	2	2210	555	11.	*	3	1450	755	11.
1	1255	156	163.	*	2	0535	356	113.	*	2	2215	556	11.	*	3	1455	756	11.
1	1300	157	163.	*	2	0540	357	113.	*	2	2220	557	11.	*	3	1500	757	11.
1	1305	158	162.	*	2	0545	358	113.	*	2	2225	558	11.	*	3	1505	758	11.
1	1310	159	162.	*	2	0550	359	112.	*	2	2230	559	11.	*	3	1510	759	11.
1	1315	160	162.	*	2	0555	360	112.	*	2	2235	560	11.	*	3	1515	760	11.
1	1320	161	162.	*	2	0600	361	112.	*	2	2240	561	11.	*	3	1520	761	11.
1	1325	162	161.	*	2	0605	362	112.	*	2	2245	562	11.	*	3	1525	762	11.
1	1330	163	161.	*	2	0610	363	111.	*	2	2250	563	11.	*	3	1530	763	11.
1	1335	164	161.	*	2	0615	364	111.	*	2	2255	564	11.	*	3	1535	764	11.
1	1340	165	161.	*	2	0620	365	111.	*	2	2300	565	11.	*	3	1540	765	11.
1	1345	166	161.	*	2	0625	366	110.	*	2	2305	566	11.	*	3	1545	766	11.
1	1350	167	160.	*	2	0630	367	110.	*	2	2310	567	11.	*	3	1550	767	11.
1	1355	168	160.	*	2	0635	368	110.	*	2	2315	568	11.	*	3	1555	768	11.
1	1400	169	160.	*	2	0640	369	109.	*	2	2320	569	11.	*	3	1600	769	11.
1	1405	170	160.	*	2	0645	370	109.	*	2	2325	570	11.	*	3	1605	770	11.
1	1410	171	159.	*	2	0650	371	109.	*	2	2330	571	11.	*	3	1610	771	11.
1	1415	172	159.	*	2	0655	372	109.	*	2	2335	572	11.	*	3	1615	772	11.
1	1420	173	159.	*	2	0700	373	108.	*	2	2340	573	11.	*	3	1620	773	11.
1	1425	174	159.	*	2	0705	374	108.	*	2	2345	574	11.	*	3	1625	774	11.
1	1430	175	159.	*	2	0710	375	108.	*	2	2350	575	11.	*	3	1630	775	11.
1	1435	176	158.	*	2	0715	376	107.	*	2	2355	576	11.	*	3	1635	776	11.
1	1440	177	158.	*	2	0720	377	107.	*	3	0000	577	11.	*	3	1640	777	11.
1	1445	178	158.	*	2	0725	378	107.	*	3	0005	578	11.	*	3	1645	778	11.
1	1450	179	158.	*	2	0730	379	106.	*	3	0010	579	11.	*	3	1650	779	11.
1	1455	180	157.	*	2	0735	380	106.	*	3	0015	580	11.	*	3	1655	780	11.
1	1500	181	157.	*	2	0740	381	106.	*	3	0020	581	11.	*	3	1700	781	11.
1	1505	182	157.	*	2	0745	382	106.	*	3	0025	582	11.	*	3	1705	782	11.
1	1510	183	157.	*	2	0750	383	105.	*	3	0030	583	11.	*	3	1710	783	11.
1	1515	184	156.	*	2	0755	384	105.	*	3	0035	584	11.	*	3	1715	784	11.
1	1520	185	156.	*	2	0800	385	105.	*	3	0040	585	11.	*	3	1720	785	11.
1	1525	186	156.	*	2	0805	386	104.	*	3	0045	586	11.	*	3	1725	786	11.
1	1530	187	156.	*	2	0810	387	104.	*	3	0050	587	11.	*	3	1730	787	11.
1	1535	188	156.	*	2	0815	388	104.	*	3	0055	588	11.	*	3	1735	788	11.
1	1540	189	155.	*	2	0820	389	104.	*	3	0100	589	11.	*	3	1740	789	11.
1	1545	190	155.	*	2	0825	390	103.	*	3	0105	590	11.	*	3	1745	790	11.
1	1550	191	155.	*	2	0830	391	103.	*	3	0110	591	11.	*	3	1750	791	11.
1	1555	192	155.	*	2	0835	392	103.	*	3	0115	592	11.	*	3	1755	792	11.
1	1600	193	154.	*	2	0840	393	102.	*	3	0120	593	11.	*	3	1800	793	11.
1	1605	194	154.	*	2	0845	394	102.	*	3	0125	594	11.	*	3	1805	794	11.
1	1610	195	154.	*	2	0850	395	102.	*	3	0130	595	11.	*	3	1810	795	11.
1	1615	196	154.	*	2	0855	396	102.	*	3	0135	596	11.	*	3	1815	796	11.
1	1620	197	153.	*	2	0900	397	101.	*	3	0140	597	11.	*	3	1820	797	11.
1	1625	198	153.	*	2	0905	398	101.	*	3	0145	598	11.	*	3	1825	798	11.
1	1630	199	153.	*	2	0910	399	101.	*	3	0150	599	11.	*	3	1830	799	11.
1	1635	200	153.	*	2	0915	400	100.	*	3	0155	600	11.	*	3	1835	800	11.

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	66.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 3652.	3.67		701.	288.	131.	131.
		(INCHES)	.622	1.023	1.292	1.292
		(AC-FT)	347.	571.	722.	722.

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		1640	201	151.	2		0920	401	99.	3		0200	601	11.
1		0005	2	0.	1		1645	202	151.	2		0925	402	98.	3		0205	602	11.
1		0010	3	0.	1		1650	203	151.	2		0930	403	98.	3		0210	603	11.
1		0015	4	0.	1		1655	204	151.	2		0935	404	97.	3		0215	604	11.
1		0020	5	1.	1		1700	205	150.	2		0940	405	97.	3		0220	605	11.
1		0025	6	6.	1		1705	206	150.	2		0945	406	97.	3		0225	606	11.
1		0030	7	17.	1		1710	207	150.	2		0950	407	96.	3		0230	607	11.
1		0035	8	27.	1		1715	208	150.	2		0955	408	96.	3		0235	608	11.
1		0040	9	29.	1		1720	209	149.	2		1000	409	95.	3		0240	609	11.
1		0045	10	25.	1		1725	210	149.	2		1005	410	95.	3		0245	610	11.
1		0050	11	22.	1		1730	211	149.	2		1010	411	95.	3		0250	611	11.
1		0055	12	21.	1		1735	212	149.	2		1015	412	94.	3		0255	612	11.
1		0100	13	23.	1		1740	213	148.	2		1020	413	94.	3		0300	613	11.
1		0105	14	26.	1		1745	214	148.	2		1025	414	94.	3		0305	614	11.
1		0110	15	32.	1		1750	215	148.	2		1030	415	93.	3		0310	615	11.
1		0115	16	39.	1		1755	216	148.	2		1035	416	93.	3		0315	616	11.
1		0120	17	45.	1		1800	217	147.	2		1040	417	92.	3		0320	617	11.
1		0125	18	54.	1		1805	218	147.	2		1045	418	92.	3		0325	618	11.
1		0130	19	72.	1		1810	219	147.	2		1050	419	92.	3		0330	619	11.
1		0135	20	95.	1		1815	220	147.	2		1055	420	91.	3		0335	620	11.
1		0140	21	116.	1		1820	221	146.	2		1100	421	91.	3		0340	621	11.
1		0145	22	131.	1		1825	222	146.	2		1105	422	91.	3		0345	622	11.
1		0150	23	137.	1		1830	223	146.	2		1110	423	90.	3		0350	623	11.
1		0155	24	132.	1		1835	224	146.	2		1115	424	90.	3		0355	624	11.
1		0200	25	121.	1		1840	225	145.	2		1120	425	89.	3		0400	625	11.
1		0205	26	111.	1		1845	226	145.	2		1125	426	89.	3		0405	626	11.
1		0210	27	115.	1		1850	227	145.	2		1130	427	89.	3		0410	627	11.
1		0215	28	142.	1		1855	228	145.	2		1135	428	88.	3		0415	628	11.
1		0220	29	187.	1		1900	229	145.	2		1140	429	88.	3		0420	629	11.
1		0225	30	226.	1		1905	230	144.	2		1145	430	88.	3		0425	630	11.
1		0230	31	242.	1		1910	231	144.	2		1150	431	87.	3		0430	631	11.
1		0235	32	236.	1		1915	232	144.	2		1155	432	87.	3		0435	632	11.
1		0240	33	239.	1		1920	233	144.	2		1200	433	87.	3		0440	633	11.
1		0245	34	259.	1		1925	234	143.	2		1205	434	86.	3		0445	634	11.
1		0250	35	271.	1		1930	235	143.	2		1210	435	86.	3		0450	635	11.
1		0255	36	261.	1		1935	236	143.	2		1215	436	86.	3		0455	636	11.
1		0300	37	253.	1		1940	237	143.	2		1220	437	85.	3		0500	637	11.
1		0305	38	298.	1		1945	238	142.	2		1225	438	85.	3		0505	638	11.
1		0310	39	420.	1		1950	239	142.	2		1230	439	84.	3		0510	639	11.
1		0315	40	652.	1		1955	240	142.	2		1235	440	84.	3		0515	640	11.
1		0320	41	1113.	1		2000	241	142.	2		1240	441	84.	3		0520	641	11.
1		0325	42	1827.	1		2005	242	141.	2		1245	442	83.	3		0525	642	11.
1		0330	43	2732.	1		2010	243	141.	2		1250	443	82.	3		0530	643	11.
1		0335	44	3441.	1		2015	244	141.	2		1255	444	82.	3		0535	644	11.
1		0340	45	3591.	1		2020	245	141.	2		1300	445	81.	3		0540	645	11.
1		0345	46	3361.	1		2025	246	140.	2		1305	446	80.	3		0545	646	11.
1		0350	47	2912.	1		2030	247	140.	2		1310	447	80.	3		0550	647	11.
1		0355	48	2383.	1		2035	248	140.	2		1315	448	79.	3		0555	648	11.
1		0400	49	1946.	1		2040	249	140.	2		1320	449	78.	3		0600	649	11.
1		0405	50	1605.	1		2045	250	139.	2		1325	450	78.	3		0605	650	11.
1		0410	51	1302.	1		2050	251	139.	2		1330	451	77.	3		0610	651	11.
1		0415	52	1058.	1		2055	252	139.	2		1335	452	76.	3		0615	652	11.
1		0420	53	892.	1		2100	253	139.	2		1340	453	76.	3		0620	653	11.
1		0425	54	802.	1		2105	254	138.	2		1345	454	75.	3		0625	654	11.
1		0430	55	810.	1		2110	255	138.	2		1350	455	75.	3		0630	655	11.
1		0435	56	897.	1		2115	256	138.	2		1355	456	74.	3		0635	656	11.
1		0440	57	972.	1		2120	257	138.	2		1400	457	73.	3		0640	657	11.
1		0445	58	999.	1		2125	258	137.	2		1405	458	73.	3		0645	658	11.
1		0450	59	1025.	1		2130	259	137.	2		1410	459	72.	3		0650	659	11.
1		0455	60	1040.	1		2135	260	137.	2		1415	460	71.	3		0655	660	11.
1		0500	61	986.	1		2140	261	137.	2		1420	461	71.	3		0700	661	11.
1		0505	62	884.	1		2145	262	136.	2		1425	462	70.	3		0705	662	11.
1		0510	63	760.	1		2150	263	136.	2		1430	463	70.	3		0710	663	11.
1		0515	64	638.	1		2155	264	136.	2		1435	464	69.	3		0715	664	11.
1		0520	65	533.	1		2200	265	136.	2		1440	465	69.	3		0720	665	11.
1		0525	66	454.	1		2205	266	135.	2		1445	466	68.	3		0725	666	11.
1		0530	67	397.	1		2210	267	135.	2		1450	467	67.	3		0730	667	11.
1		0535	68	350.	1		2215	268	135.	2		1455	468	67.	3		0735	668	11.
1		0540	69	314.	1		2220	269	135.	2		1500	469	66.	3		0740	669	11.
1		0545	70	294.	1		2225	270	134.	2		1505	470	66.	3		0745	670	11.
1		0550	71	284.	1		2230	271	134.	2		1510	471	65.	3		0750	671	11.
1		0555	72	273.	1		2235	272	134.	2		1515	472	63.	3		0755	672	11.
1		0600	73	263.	1		2240	273	134.	2		1520	473	61.	3		0800	673	11.
1		0605	74	252.	1		2245	274	133.	2		1525	474	59.	3		0805	674	11.
1		0610	75	239.	1		2250	275	133.	2		1530	475	57.	3		0810	675	11.
1		0615	76	225.	1		2255	276	133.	2		1535	476	55.	3		0815	676	11.
1		0620	77	211.	1		2300	277	133.	2		1540	477	54.	3		0820	677	11.
1		0625	78	201.	1		2305	278	132.	2		1545	478	52.	3		0825	678	11.
1		0630	79	193.	1		2310	279	132.	2		1550	479	50.	3		0830	679	11.
1		0635	80	187.	1		2315	280	132.	2		1555	480	49.	3		0835	680	11.
1		0640	81	184.	1		2320	281	132.	2		1600	481	47.	3		0840	681	11.
1		0645	82	181.	1		2325	282	131.	2		1605	482	46.	3		0845	682	11.

1	0650	83	180.	*	1	2330	283	131.	*	2	1610	483	44.	*	3	0850	683	11.
1	0655	84	178.	*	1	2335	284	131.	*	2	1615	484	43.	*	3	0855	684	11.
1	0700	85	178.	*	1	2340	285	131.	*	2	1620	485	42.	*	3	0900	685	11.
1	0705	86	177.	*	1	2345	286	130.	*	2	1625	486	40.	*	3	0905	686	11.
1	0710	87	177.	*	1	2350	287	130.	*	2	1630	487	39.	*	3	0910	687	11.
1	0715	88	176.	*	1	2355	288	130.	*	2	1635	488	38.	*	3	0915	688	11.
1	0720	89	176.	*	2	0000	289	129.	*	2	1640	489	37.	*	3	0920	689	11.
1	0725	90	176.	*	2	0005	290	129.	*	2	1645	490	35.	*	3	0925	690	11.
1	0730	91	176.	*	2	0010	291	129.	*	2	1650	491	32.	*	3	0930	691	11.
1	0735	92	175.	*	2	0015	292	129.	*	2	1655	492	29.	*	3	0935	692	11.
1	0740	93	175.	*	2	0020	293	128.	*	2	1700	493	26.	*	3	0940	693	11.
1	0745	94	175.	*	2	0025	294	128.	*	2	1705	494	23.	*	3	0945	694	11.
1	0750	95	175.	*	2	0030	295	128.	*	2	1710	495	21.	*	3	0950	695	11.
1	0755	96	175.	*	2	0035	296	128.	*	2	1715	496	19.	*	3	0955	696	11.
1	0800	97	174.	*	2	0040	297	127.	*	2	1720	497	17.	*	3	1000	697	11.
1	0805	98	174.	*	2	0045	298	127.	*	2	1725	498	16.	*	3	1005	698	11.
1	0810	99	174.	*	2	0050	299	127.	*	2	1730	499	15.	*	3	1010	699	11.
1	0815	100	174.	*	2	0055	300	127.	*	2	1735	500	14.	*	3	1015	700	11.
1	0820	101	174.	*	2	0100	301	126.	*	2	1740	501	14.	*	3	1020	701	11.
1	0825	102	173.	*	2	0105	302	126.	*	2	1745	502	13.	*	3	1025	702	11.
1	0830	103	173.	*	2	0110	303	126.	*	2	1750	503	13.	*	3	1030	703	11.
1	0835	104	173.	*	2	0115	304	126.	*	2	1755	504	13.	*	3	1035	704	11.
1	0840	105	173.	*	2	0120	305	125.	*	2	1800	505	12.	*	3	1040	705	11.
1	0845	106	172.	*	2	0125	306	125.	*	2	1805	506	12.	*	3	1045	706	11.
1	0850	107	172.	*	2	0130	307	125.	*	2	1810	507	12.	*	3	1050	707	11.
1	0855	108	172.	*	2	0135	308	125.	*	2	1815	508	12.	*	3	1055	708	11.
1	0900	109	172.	*	2	0140	309	124.	*	2	1820	509	12.	*	3	1100	709	11.
1	0905	110	172.	*	2	0145	310	124.	*	2	1825	510	12.	*	3	1105	710	11.
1	0910	111	171.	*	2	0150	311	124.	*	2	1830	511	12.	*	3	1110	711	11.
1	0915	112	171.	*	2	0155	312	124.	*	2	1835	512	12.	*	3	1115	712	11.
1	0920	113	171.	*	2	0200	313	123.	*	2	1840	513	12.	*	3	1120	713	11.
1	0925	114	171.	*	2	0205	314	123.	*	2	1845	514	12.	*	3	1125	714	11.
1	0930	115	170.	*	2	0210	315	123.	*	2	1850	515	12.	*	3	1130	715	11.
1	0935	116	170.	*	2	0215	316	123.	*	2	1855	516	11.	*	3	1135	716	11.
1	0940	117	170.	*	2	0220	317	122.	*	2	1900	517	11.	*	3	1140	717	11.
1	0945	118	170.	*	2	0225	318	122.	*	2	1905	518	11.	*	3	1145	718	11.
1	0950	119	170.	*	2	0230	319	122.	*	2	1910	519	11.	*	3	1150	719	11.
1	0955	120	169.	*	2	0235	320	122.	*	2	1915	520	11.	*	3	1155	720	11.
1	1000	121	169.	*	2	0240	321	121.	*	2	1920	521	11.	*	3	1200	721	11.
1	1005	122	169.	*	2	0245	322	121.	*	2	1925	522	11.	*	3	1205	722	11.
1	1010	123	169.	*	2	0250	323	121.	*	2	1930	523	11.	*	3	1210	723	11.
1	1015	124	169.	*	2	0255	324	120.	*	2	1935	524	11.	*	3	1215	724	11.
1	1020	125	168.	*	2	0300	325	120.	*	2	1940	525	11.	*	3	1220	725	11.
1	1025	126	168.	*	2	0305	326	120.	*	2	1945	526	11.	*	3	1225	726	11.
1	1030	127	168.	*	2	0310	327	120.	*	2	1950	527	11.	*	3	1230	727	11.
1	1035	128	168.	*	2	0315	328	119.	*	2	1955	528	11.	*	3	1235	728	11.
1	1040	129	168.	*	2	0320	329	119.	*	2	2000	529	11.	*	3	1240	729	11.
1	1045	130	167.	*	2	0325	330	119.	*	2	2005	530	11.	*	3	1245	730	11.
1	1050	131	167.	*	2	0330	331	118.	*	2	2010	531	11.	*	3	1250	731	11.
1	1055	132	167.	*	2	0335	332	118.	*	2	2015	532	11.	*	3	1255	732	11.
1	1100	133	167.	*	2	0340	333	118.	*	2	2020	533	11.	*	3	1300	733	11.
1	1105	134	166.	*	2	0345	334	118.	*	2	2025	534	11.	*	3	1305	734	11.
1	1110	135	166.	*	2	0350	335	117.	*	2	2030	535	11.	*	3	1310	735	11.
1	1115	136	166.	*	2	0355	336	117.	*	2	2035	536	11.	*	3	1315	736	11.
1	1120	137	166.	*	2	0400	337	117.	*	2	2040	537	11.	*	3	1320	737	11.
1	1125	138	166.	*	2	0405	338	117.	*	2	2045	538	11.	*	3	1325	738	11.
1	1130	139	165.	*	2	0410	339	116.	*	2	2050	539	11.	*	3	1330	739	11.
1	1135	140	165.	*	2	0415	340	116.	*	2	2055	540	11.	*	3	1335	740	11.
1	1140	141	165.	*	2	0420	341	116.	*	2	2100	541	11.	*	3	1340	741	11.
1	1145	142	165.	*	2	0425	342	115.	*	2	2105	542	11.	*	3	1345	742	11.
1	1150	143	164.	*	2	0430	343	115.	*	2	2110	543	11.	*	3	1350	743	11.
1	1155	144	164.	*	2	0435	344	115.	*	2	2115	544	11.	*	3	1355	744	11.
1	1200	145	164.	*	2	0440	345	115.	*	2	2120	545	11.	*	3	1400	745	11.
1	1205	146	164.	*	2	0445	346	114.	*	2	2125	546	11.	*	3	1405	746	11.
1	1210	147	164.	*	2	0450	347	114.	*	2	2130	547	11.	*	3	1410	747	11.
1	1215	148	163.	*	2	0455	348	114.	*	2	2135	548	11.	*	3	1415	748	11.
1	1220	149	163.	*	2	0500	349	114.	*	2	2140	549	11.	*	3	1420	749	11.
1	1225	150	163.	*	2	0505	350	113.	*	2	2145	550	11.	*	3	1425	750	11.
1	1230	151	163.	*	2	0510	351	113.	*	2	2150	551	11.	*	3	1430	751	11.
1	1235	152	162.	*	2	0515	352	113.	*	2	2155	552	11.	*	3	1435	752	11.
1	1240	153	162.	*	2	0520	353	113.	*	2	2200	553	11.	*	3	1440	753	11.
1	1245	154	162.	*	2	0525	354	112.	*	2	2205	554	11.	*	3	1445	754	11.
1	1250	155	162.	*	2	0530	355	112.	*	2	2210	555	11.	*	3	1450	755	11.
1	1255	156	162.	*	2	0535	356	112.	*	2	2215	556	11.	*	3	1455	756	11.
1	1300	157	161.	*	2	0540	357	111.	*	2	2220	557	11.	*	3	1500	757	11.
1	1305	158	161.	*	2	0545	358	111.	*	2	2225	558	11.	*	3	1505	758	11.
1	1310	159	161.	*	2	0550	359	111.	*	2	2230	559	11.	*	3	1510	759	11.
1	1315	160	161.	*	2	0555	360	111.	*	2	2235	560	11.	*	3	1515	760	11.
1	1320	161	160.	*	2	0600	361	110.	*	2	2240	561	11.	*	3	1520	761	11.
1	1325	162	160.	*	2	0605	362	110.	*	2	2245	562	11.	*	3	1525	762	11.
1	1330	163	160.	*	2	0610	363	110.	*	2	2250	563	11.	*	3	1530	763	11.
1	1335	164	160.	*	2	0615	364	109.	*	2	2255	564	11.	*	3	1535	764	11.
1	1340	165	160.	*	2	0620	365	109.	*	2	2300	565	11.	*	3	1540	765	11.
1	1345	166	159.	*	2	0625	366	109.	*	2	2305	566	11.	*	3	1545	766	11.
1	1350	167	159.	*	2	0630	367	108.	*	2	2310	567	11.	*	3	1550	767	11.
1	1355	168	159.	*	2	0635	368	108.	*	2	2315	568	11.	*	3	1555	768	11.
1	1400	169	159.	*	2	0640	369	108.	*	2	2320	569	11.	*	3	1600	769	11.
1	1405	170	158.	*	2	0645	370	108.	*	2	2325	570	11.	*	3	1605	770	11.
1	1410	171	158.	*	2	0650	371	107.	*	2	2330	571	11.	*	3	1610	771	11.
1	1415	172	158.	*	2	0655	372	107.	*	2	2335	572	11.	*	3	1615	772	11.
1	1420	173	158.	*	2	0700	373	107.	*	2	2340	573	11.	*	3	1620	773	11.
1	1425	174	157.	*	2	0705	374	106.	*	2	2345	574	11.	*	3	1625	774	11.
1	1430	175	157.	*	2	0710	375	106.	*	2	2350	575	11.	*	3	1630	775	11.
1	1435	176	157.	*	2	0715	376	106.	*	2	2355	576	11.	*	3	1635	776	11.
1	1440	177	157.	*	2	0720	377	105.	*	3	0000	577	11.	*	3	1640	777	11.

1	1445	178	157.	*	2	0725	378	105.	*	3	0005	578	11.	*	3	1645	778	11.
1	1450	179	156.	*	2	0730	379	105.	*	3	0010	579	11.	*	3	1650	779	11.
1	1455	180	156.	*	2	0735	380	105.	*	3	0015	580	11.	*	3	1655	780	11.
1	1500	181	156.	*	2	0740	381	104.	*	3	0020	581	11.	*	3	1700	781	11.
1	1505	182	156.	*	2	0745	382	104.	*	3	0025	582	11.	*	3	1705	782	11.
1	1510	183	155.	*	2	0750	383	104.	*	3	0030	583	11.	*	3	1710	783	11.
1	1515	184	155.	*	2	0755	384	103.	*	3	0035	584	11.	*	3	1715	784	11.
1	1520	185	155.	*	2	0800	385	103.	*	3	0040	585	11.	*	3	1720	785	11.
1	1525	186	155.	*	2	0805	386	103.	*	3	0045	586	11.	*	3	1725	786	11.
1	1530	187	154.	*	2	0810	387	103.	*	3	0050	587	11.	*	3	1730	787	11.
1	1535	188	154.	*	2	0815	388	102.	*	3	0055	588	11.	*	3	1735	788	11.
1	1540	189	154.	*	2	0820	389	102.	*	3	0100	589	11.	*	3	1740	789	11.
1	1545	190	154.	*	2	0825	390	102.	*	3	0105	590	11.	*	3	1745	790	11.
1	1550	191	154.	*	2	0830	391	101.	*	3	0110	591	11.	*	3	1750	791	11.
1	1555	192	153.	*	2	0835	392	101.	*	3	0115	592	11.	*	3	1755	792	11.
1	1600	193	153.	*	2	0840	393	101.	*	3	0120	593	11.	*	3	1800	793	11.
1	1605	194	153.	*	2	0845	394	101.	*	3	0125	594	11.	*	3	1805	794	11.
1	1610	195	153.	*	2	0850	395	100.	*	3	0130	595	11.	*	3	1810	795	11.
1	1615	196	152.	*	2	0855	396	100.	*	3	0135	596	11.	*	3	1815	796	11.
1	1620	197	152.	*	2	0900	397	100.	*	3	0140	597	11.	*	3	1820	797	11.
1	1625	198	152.	*	2	0905	398	99.	*	3	0145	598	11.	*	3	1825	798	11.
1	1630	199	152.	*	2	0910	399	99.	*	3	0150	599	11.	*	3	1830	799	11.
1	1635	200	152.	*	2	0915	400	99.	*	3	0155	600	11.	*	3	1835	800	11.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	66.58-HR
(CFS)	(HR)					
		(CFS)				
3591.	3.67		690.	284.	129.	129.
		(INCHES)	.613	1.010	1.271	1.271
		(AC-FT)	342.	564.	710.	710.

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		1640	201	149.	*	2		0920	401	94.	*	3		0200	601	11.
1		0005	2	0.	*	1		1645	202	148.	*	2		0925	402	94.	*	3		0205	602	11.
1		0010	3	0.	*	1		1650	203	148.	*	2		0930	403	94.	*	3		0210	603	11.
1		0015	4	0.	*	1		1655	204	148.	*	2		0935	404	93.	*	3		0215	604	11.
1		0020	5	1.	*	1		1700	205	148.	*	2		0940	405	93.	*	3		0220	605	11.
1		0025	6	5.	*	1		1705	206	147.	*	2		0945	406	92.	*	3		0225	606	11.
1		0030	7	15.	*	1		1710	207	147.	*	2		0950	407	92.	*	3		0230	607	11.
1		0035	8	24.	*	1		1715	208	147.	*	2		0955	408	92.	*	3		0235	608	11.
1		0040	9	26.	*	1		1720	209	147.	*	2		1000	409	91.	*	3		0240	609	11.
1		0045	10	22.	*	1		1725	210	146.	*	2		1005	410	91.	*	3		0245	610	11.
1		0050	11	19.	*	1		1730	211	146.	*	2		1010	411	91.	*	3		0250	611	11.
1		0055	12	18.	*	1		1735	212	146.	*	2		1015	412	90.	*	3		0255	612	11.
1		0100	13	20.	*	1		1740	213	146.	*	2		1020	413	90.	*	3		0300	613	11.
1		0105	14	22.	*	1		1745	214	145.	*	2		1025	414	89.	*	3		0305	614	11.
1		0110	15	29.	*	1		1750	215	145.	*	2		1030	415	89.	*	3		0310	615	11.
1		0115	16	36.	*	1		1755	216	145.	*	2		1035	416	89.	*	3		0315	616	11.
1		0120	17	42.	*	1		1800	217	145.	*	2		1040	417	88.	*	3		0320	617	11.
1		0125	18	50.	*	1		1805	218	144.	*	2		1045	418	88.	*	3		0325	618	11.
1		0130	19	66.	*	1		1810	219	144.	*	2		1050	419	88.	*	3		0330	619	11.
1		0135	20	89.	*	1		1815	220	144.	*	2		1055	420	87.	*	3		0335	620	11.
1		0140	21	108.	*	1		1820	221	144.	*	2		1100	421	87.	*	3		0340	621	11.
1		0145	22	122.	*	1		1825	222	143.	*	2		1105	422	87.	*	3		0345	622	11.
1		0150	23	128.	*	1		1830	223	143.	*	2		1110	423	86.	*	3		0350	623	11.
1		0155	24	123.	*	1		1835	224	143.	*	2		1115	424	86.	*	3		0355	624	11.
1		0200	25	112.	*	1		1840	225	143.	*	2		1120	425	86.	*	3		0400	625	11.
1		0205	26	104.	*	1		1845	226	143.	*	2		1125	426	85.	*	3		0405	626	11.
1		0210	27	108.	*	1		1850	227	142.	*	2		1130	427	85.	*	3		0410	627	11.
1		0215	28	134.	*	1		1855	228	142.	*	2		1135	428	85.	*	3		0415	628	11.
1		0220	29	177.	*	1		1900	229	142.	*	2		1140	429	84.	*	3		0420	629	11.
1		0225	30	215.	*	1		1905	230	142.	*	2		1145	430	84.	*	3		0425	630	11.
1		0230	31	230.	*	1		1910	231	141.	*	2		1150	431	83.	*	3		0430	631	11.
1		0235	32	225.	*	1		1915	232	141.	*	2		1155	432	83.	*	3		0435	632	11.
1		0240	33	228.	*	1		1920	233	141.	*	2		1200	433	82.	*	3		0440	633	11.
1		0245	34	248.	*	1		1925	234	141.	*	2		1205	434	81.	*	3		0445	634	11.
1		0250	35	259.	*	1		1930	235	140.	*	2		1210	435	81.	*	3		0450	635	11.
1		0255	36	250.	*	1		1935	236	140.	*	2		1215	436	80.	*	3		0455	636	11.
1		0300	37	243.	*	1		1940	237	140.	*	2		1220	437	79.	*	3		0500	637	11.
1		0305	38	285.	*	1		1945	238	140.	*	2		1225	438	79.	*	3		0505	638	11.
1		0310	39	402.	*	1		1950	239	139.	*	2		1230	439	78.	*	3		0510	639	11.
1		0315	40	625.	*	1		1955	240	139.	*	2		1235	440	77.	*	3		0515	640	11.
1		0320	41	1067.	*	1		2000	241	139.	*	2		1240	441	77.	*	3		0520	641	11.
1		0325	42	1756.	*	1		2005	242	139.	*	2		1245	442	76.	*	3		0525	642	11.
1		0330	43	2631.	*	1		2010	243	138.	*	2		1250	443	76.	*	3		0530	643	11.
1		0335	44	3328.	*	1		2015	244	138.	*	2		1255	444	75.	*	3		0535	644	11.
1		0340	45	3471.	*	1		2020	245	138.	*	2		1300	445	74.	*	3		0540	645	11.
1		0345	46	3249.	*	1		2025	246	138.	*	2		1305	446	74.	*	3		0545	646	11.
1		0350	47	2818.	*	1		2030	247	137.	*	2		1310	447	73.	*	3		0550	647	11.
1		0355	48	2310.	*	1		2035	248	137.	*	2		1315	448	72.	*	3		0555	648	11.

1	0400	49	1889.	*	1	2040	249	137.	*	2	1320	449	72.	*	3	0600	649	11.
1	0405	50	1559.	*	1	2045	250	137.	*	2	1325	450	71.	*	3	0605	650	11.
1	0410	51	1266.	*	1	2050	251	136.	*	2	1330	451	71.	*	3	0610	651	11.
1	0415	52	1029.	*	1	2055	252	136.	*	2	1335	452	70.	*	3	0615	652	11.
1	0420	53	869.	*	1	2100	253	136.	*	2	1340	453	69.	*	3	0620	653	11.
1	0425	54	782.	*	1	2105	254	136.	*	2	1345	454	69.	*	3	0625	654	11.
1	0430	55	789.	*	1	2110	255	135.	*	2	1350	455	68.	*	3	0630	655	11.
1	0435	56	873.	*	1	2115	256	135.	*	2	1355	456	68.	*	3	0635	656	11.
1	0440	57	946.	*	1	2120	257	135.	*	2	1400	457	67.	*	3	0640	657	11.
1	0445	58	973.	*	1	2125	258	135.	*	2	1405	458	67.	*	3	0645	658	11.
1	0450	59	998.	*	1	2130	259	134.	*	2	1410	459	66.	*	3	0650	659	11.
1	0455	60	1013.	*	1	2135	260	134.	*	2	1415	460	65.	*	3	0655	660	11.
1	0500	61	961.	*	1	2140	261	134.	*	2	1420	461	64.	*	3	0700	661	11.
1	0505	62	862.	*	1	2145	262	134.	*	2	1425	462	63.	*	3	0705	662	11.
1	0510	63	741.	*	1	2150	263	133.	*	2	1430	463	61.	*	3	0710	663	11.
1	0515	64	623.	*	1	2155	264	133.	*	2	1435	464	59.	*	3	0715	664	11.
1	0520	65	521.	*	1	2200	265	133.	*	2	1440	465	57.	*	3	0720	665	11.
1	0525	66	444.	*	1	2205	266	133.	*	2	1445	466	55.	*	3	0725	666	11.
1	0530	67	389.	*	1	2210	267	132.	*	2	1450	467	53.	*	3	0730	667	11.
1	0535	68	343.	*	1	2215	268	132.	*	2	1455	468	52.	*	3	0735	668	11.
1	0540	69	308.	*	1	2220	269	132.	*	2	1500	469	50.	*	3	0740	669	11.
1	0545	70	288.	*	1	2225	270	132.	*	2	1505	470	48.	*	3	0745	670	11.
1	0550	71	279.	*	1	2230	271	131.	*	2	1510	471	47.	*	3	0750	671	11.
1	0555	72	268.	*	1	2235	272	131.	*	2	1515	472	46.	*	3	0755	672	11.
1	0600	73	258.	*	1	2240	273	131.	*	2	1520	473	44.	*	3	0800	673	11.
1	0605	74	248.	*	1	2245	274	130.	*	2	1525	474	43.	*	3	0805	674	11.
1	0610	75	235.	*	1	2250	275	130.	*	2	1530	475	42.	*	3	0810	675	11.
1	0615	76	221.	*	1	2255	276	130.	*	2	1535	476	40.	*	3	0815	676	11.
1	0620	77	208.	*	1	2300	277	130.	*	2	1540	477	39.	*	3	0820	677	11.
1	0625	78	198.	*	1	2305	278	129.	*	2	1545	478	38.	*	3	0825	678	11.
1	0630	79	190.	*	1	2310	279	129.	*	2	1550	479	37.	*	3	0830	679	11.
1	0635	80	185.	*	1	2315	280	129.	*	2	1555	480	35.	*	3	0835	680	11.
1	0640	81	181.	*	1	2320	281	129.	*	2	1600	481	32.	*	3	0840	681	11.
1	0645	82	179.	*	1	2325	282	128.	*	2	1605	482	29.	*	3	0845	682	11.
1	0650	83	177.	*	1	2330	283	128.	*	2	1610	483	26.	*	3	0850	683	11.
1	0655	84	176.	*	1	2335	284	128.	*	2	1615	484	23.	*	3	0855	684	11.
1	0700	85	175.	*	1	2340	285	128.	*	2	1620	485	20.	*	3	0900	685	11.
1	0705	86	175.	*	1	2345	286	127.	*	2	1625	486	19.	*	3	0905	686	11.
1	0710	87	174.	*	1	2350	287	127.	*	2	1630	487	17.	*	3	0910	687	11.
1	0715	88	174.	*	1	2355	288	127.	*	2	1635	488	16.	*	3	0915	688	11.
1	0720	89	174.	*	2	0000	289	127.	*	2	1640	489	15.	*	3	0920	689	11.
1	0725	90	173.	*	2	0005	290	126.	*	2	1645	490	14.	*	3	0925	690	11.
1	0730	91	173.	*	2	0010	291	126.	*	2	1650	491	14.	*	3	0930	691	11.
1	0735	92	173.	*	2	0015	292	126.	*	2	1655	492	13.	*	3	0935	692	11.
1	0740	93	173.	*	2	0020	293	126.	*	2	1700	493	13.	*	3	0940	693	11.
1	0745	94	172.	*	2	0025	294	125.	*	2	1705	494	12.	*	3	0945	694	11.
1	0750	95	172.	*	2	0030	295	125.	*	2	1710	495	12.	*	3	0950	695	11.
1	0755	96	172.	*	2	0035	296	125.	*	2	1715	496	12.	*	3	0955	696	11.
1	0800	97	172.	*	2	0040	297	125.	*	2	1720	497	12.	*	3	1000	697	11.
1	0805	98	172.	*	2	0045	298	124.	*	2	1725	498	12.	*	3	1005	698	11.
1	0810	99	171.	*	2	0050	299	124.	*	2	1730	499	12.	*	3	1010	699	11.
1	0815	100	171.	*	2	0055	300	124.	*	2	1735	500	11.	*	3	1015	700	11.
1	0820	101	171.	*	2	0100	301	124.	*	2	1740	501	11.	*	3	1020	701	11.
1	0825	102	171.	*	2	0105	302	123.	*	2	1745	502	11.	*	3	1025	702	11.
1	0830	103	171.	*	2	0110	303	123.	*	2	1750	503	11.	*	3	1030	703	11.
1	0835	104	170.	*	2	0115	304	123.	*	2	1755	504	11.	*	3	1035	704	11.
1	0840	105	170.	*	2	0120	305	123.	*	2	1800	505	11.	*	3	1040	705	11.
1	0845	106	170.	*	2	0125	306	122.	*	2	1805	506	11.	*	3	1045	706	11.
1	0850	107	170.	*	2	0130	307	122.	*	2	1810	507	11.	*	3	1050	707	11.
1	0855	108	170.	*	2	0135	308	122.	*	2	1815	508	11.	*	3	1055	708	11.
1	0900	109	169.	*	2	0140	309	121.	*	2	1820	509	11.	*	3	1100	709	11.
1	0905	110	169.	*	2	0145	310	121.	*	2	1825	510	11.	*	3	1105	710	11.
1	0910	111	169.	*	2	0150	311	121.	*	2	1830	511	11.	*	3	1110	711	11.
1	0915	112	169.	*	2	0155	312	121.	*	2	1835	512	11.	*	3	1115	712	11.
1	0920	113	168.	*	2	0200	313	120.	*	2	1840	513	11.	*	3	1120	713	11.
1	0925	114	168.	*	2	0205	314	120.	*	2	1845	514	11.	*	3	1125	714	11.
1	0930	115	168.	*	2	0210	315	120.	*	2	1850	515	11.	*	3	1130	715	11.
1	0935	116	168.	*	2	0215	316	120.	*	2	1855	516	11.	*	3	1135	716	11.
1	0940	117	168.	*	2	0220	317	119.	*	2	1900	517	11.	*	3	1140	717	11.
1	0945	118	167.	*	2	0225	318	119.	*	2	1905	518	11.	*	3	1145	718	11.
1	0950	119	167.	*	2	0230	319	119.	*	2	1910	519	11.	*	3	1150	719	11.
1	0955	120	167.	*	2	0235	320	118.	*	2	1915	520	11.	*	3	1155	720	11.
1	1000	121	167.	*	2	0240	321	118.	*	2	1920	521	11.	*	3	1200	721	11.
1	1005	122	167.	*	2	0245	322	118.	*	2	1925	522	11.	*	3	1205	722	11.
1	1010	123	166.	*	2	0250	323	118.	*	2	1930	523	11.	*	3	1210	723	11.
1	1015	124	166.	*	2	0255	324	117.	*	2	1935	524	11.	*	3	1215	724	11.
1	1020	125	166.	*	2	0300	325	117.	*	2	1940	525	11.	*	3	1220	725	11.
1	1025	126	166.	*	2	0305	326	117.	*	2	1945	526	11.	*	3	1225	726	11.
1	1030	127	165.	*	2	0310	327	116.	*	2	1950	527	11.	*	3	1230	727	11.
1	1035	128	165.	*	2	0315	328	116.	*	2	1955	528	11.	*	3	1235	728	11.
1	1040	129	165.	*	2	0320	329	116.	*	2	2000	529	11.	*	3	1240	729	11.
1	1045	130	165.	*	2	0325	330	116.	*	2	2005	530	11.	*	3	1245	730	11.
1	1050	131	165.	*	2	0330	331	115.	*	2	2010	531	11.	*	3	1250	731	11.
1	1055	132	164.	*	2	0335	332	115.	*	2	2015	532	11.	*	3	1255	732	10.
1	1100	133	164.	*	2	0340	333	115.	*	2	2020	533	11.	*	3	1300	733	10.
1	1105	134	164.	*	2	0345	334	115.	*	2	2025	534	11.	*	3	1305	734	10.
1	1110	135	164.	*	2	0350	335	114.	*	2	2030	535	11.	*	3	1310	735	10.
1	1115	136	163.	*	2	0355	336	114.	*	2	2035	536	11.	*	3	1315	736	10.
1	1120	137	163.	*	2	0400	337	114.	*	2	2040	537	11.	*	3	1320	737	10.
1	1125	138	163.	*	2	0405	338	114.	*	2	2045	538	11.	*	3	1325	738	10.
1	1130	139	163.	*	2	0410	339	113.	*	2	2050	539	11.	*	3	1330	739	10.
1	1135	140	163.	*	2	0415	340	113.	*	2	2055	540	11.	*	3	1335	740	10.
1	1140	141	162.	*	2	0420	341	113.	*	2	2100	541	11.	*	3	1340	741	10.
1	1145	142	162.	*	2	0425	342	112.	*	2	2105	542	11.	*	3	1345	742	10.
1	1150	143	162.	*	2	0430	343	112.	*	2	2110	543	11.	*	3	1350	743	10.

1	1155	144	162.	*	2	0435	344	112.	*	2	2115	544	11.	*	3	1355	744	10.
1	1200	145	161.	*	2	0440	345	112.	*	2	2120	545	11.	*	3	1400	745	10.
1	1205	146	161.	*	2	0445	346	111.	*	2	2125	546	11.	*	3	1405	746	10.
1	1210	147	161.	*	2	0450	347	111.	*	2	2130	547	11.	*	3	1410	747	10.
1	1215	148	161.	*	2	0455	348	111.	*	2	2135	548	11.	*	3	1415	748	10.
1	1220	149	161.	*	2	0500	349	111.	*	2	2140	549	11.	*	3	1420	749	10.
1	1225	150	160.	*	2	0505	350	110.	*	2	2145	550	11.	*	3	1425	750	10.
1	1230	151	160.	*	2	0510	351	110.	*	2	2150	551	11.	*	3	1430	751	10.
1	1235	152	160.	*	2	0515	352	110.	*	2	2155	552	11.	*	3	1435	752	10.
1	1240	153	160.	*	2	0520	353	109.	*	2	2200	553	11.	*	3	1440	753	10.
1	1245	154	159.	*	2	0525	354	109.	*	2	2205	554	11.	*	3	1445	754	10.
1	1250	155	159.	*	2	0530	355	109.	*	2	2210	555	11.	*	3	1450	755	10.
1	1255	156	159.	*	2	0535	356	108.	*	2	2215	556	11.	*	3	1455	756	10.
1	1300	157	159.	*	2	0540	357	108.	*	2	2220	557	11.	*	3	1500	757	10.
1	1305	158	159.	*	2	0545	358	108.	*	2	2225	558	11.	*	3	1505	758	10.
1	1310	159	158.	*	2	0550	359	108.	*	2	2230	559	11.	*	3	1510	759	10.
1	1315	160	158.	*	2	0555	360	107.	*	2	2235	560	11.	*	3	1515	760	10.
1	1320	161	158.	*	2	0600	361	107.	*	2	2240	561	11.	*	3	1520	761	10.
1	1325	162	158.	*	2	0605	362	107.	*	2	2245	562	11.	*	3	1525	762	10.
1	1330	163	157.	*	2	0610	363	106.	*	2	2250	563	11.	*	3	1530	763	10.
1	1335	164	157.	*	2	0615	364	106.	*	2	2255	564	11.	*	3	1535	764	10.
1	1340	165	157.	*	2	0620	365	106.	*	2	2300	565	11.	*	3	1540	765	10.
1	1345	166	157.	*	2	0625	366	105.	*	2	2305	566	11.	*	3	1545	766	10.
1	1350	167	156.	*	2	0630	367	105.	*	2	2310	567	11.	*	3	1550	767	10.
1	1355	168	156.	*	2	0635	368	105.	*	2	2315	568	11.	*	3	1555	768	10.
1	1400	169	156.	*	2	0640	369	105.	*	2	2320	569	11.	*	3	1600	769	10.
1	1405	170	156.	*	2	0645	370	104.	*	2	2325	570	11.	*	3	1605	770	10.
1	1410	171	156.	*	2	0650	371	104.	*	2	2330	571	11.	*	3	1610	771	10.
1	1415	172	155.	*	2	0655	372	104.	*	2	2335	572	11.	*	3	1615	772	10.
1	1420	173	155.	*	2	0700	373	103.	*	2	2340	573	11.	*	3	1620	773	10.
1	1425	174	155.	*	2	0705	374	103.	*	2	2345	574	11.	*	3	1625	774	10.
1	1430	175	155.	*	2	0710	375	103.	*	2	2350	575	11.	*	3	1630	775	10.
1	1435	176	154.	*	2	0715	376	103.	*	2	2355	576	11.	*	3	1635	776	10.
1	1440	177	154.	*	2	0720	377	102.	*	3	0000	577	11.	*	3	1640	777	10.
1	1445	178	154.	*	2	0725	378	102.	*	3	0005	578	11.	*	3	1645	778	10.
1	1450	179	154.	*	2	0730	379	102.	*	3	0010	579	11.	*	3	1650	779	10.
1	1455	180	153.	*	2	0735	380	101.	*	3	0015	580	11.	*	3	1655	780	10.
1	1500	181	153.	*	2	0740	381	101.	*	3	0020	581	11.	*	3	1700	781	10.
1	1505	182	153.	*	2	0745	382	101.	*	3	0025	582	11.	*	3	1705	782	10.
1	1510	183	153.	*	2	0750	383	101.	*	3	0030	583	11.	*	3	1710	783	10.
1	1515	184	153.	*	2	0755	384	100.	*	3	0035	584	11.	*	3	1715	784	10.
1	1520	185	152.	*	2	0800	385	100.	*	3	0040	585	11.	*	3	1720	785	10.
1	1525	186	152.	*	2	0805	386	100.	*	3	0045	586	11.	*	3	1725	786	10.
1	1530	187	152.	*	2	0810	387	99.	*	3	0050	587	11.	*	3	1730	787	10.
1	1535	188	152.	*	2	0815	388	99.	*	3	0055	588	11.	*	3	1735	788	10.
1	1540	189	151.	*	2	0820	389	99.	*	3	0100	589	11.	*	3	1740	789	10.
1	1545	190	151.	*	2	0825	390	99.	*	3	0105	590	11.	*	3	1745	790	10.
1	1550	191	151.	*	2	0830	391	98.	*	3	0110	591	11.	*	3	1750	791	10.
1	1555	192	151.	*	2	0835	392	98.	*	3	0115	592	11.	*	3	1755	792	10.
1	1600	193	151.	*	2	0840	393	98.	*	3	0120	593	11.	*	3	1800	793	10.
1	1605	194	150.	*	2	0845	394	97.	*	3	0125	594	11.	*	3	1805	794	10.
1	1610	195	150.	*	2	0850	395	97.	*	3	0130	595	11.	*	3	1810	795	10.
1	1615	196	150.	*	2	0855	396	96.	*	3	0135	596	11.	*	3	1815	796	10.
1	1620	197	150.	*	2	0900	397	96.	*	3	0140	597	11.	*	3	1820	797	10.
1	1625	198	149.	*	2	0905	398	96.	*	3	0145	598	11.	*	3	1825	798	10.
1	1630	199	149.	*	2	0910	399	95.	*	3	0150	599	11.	*	3	1830	799	10.
1	1635	200	149.	*	2	0915	400	95.	*	3	0155	600	11.	*	3	1835	800	10.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	66.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 3471.	3.67		670.	277.	125.	125.
		(INCHES)	.595	.985	1.229	1.229
		(AC-FT)	332.	550.	687.	687.

CUMULATIVE AREA = 10.47 SQ MI

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            *            *
345 KK      *   LMBWCDB  *
            *            *
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349 KO          OUTPUT CONTROL VARIABLES
                     IPRNT          1  PRINT CONTROL
                     IPLOT          0  PLOT CONTROL
                     QSCAL          0.  HYDROGRAPH PLOT SCALE

                HYDROGRAPH ROUTING DATA

350 RS          STORAGE ROUTING
                     NSTPS          1  NUMBER OF SUBREACHES
                      ITYP       STOR  TYPE OF INITIAL CONDITION
                     RSVRIC      -1.00  INITIAL CONDITION
                         X         .00 WORKING R AND D COEFFICIENT
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351 SV	STORAGE	.0	15.0	37.0	90.0	170.0	298.0	416.0	556.0	654.0
352 SQ	DISCHARGE	0.	21.	30.	37.	42.	46.	90.	97.	101.
353 SE	ELEVATION	.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00	38.00

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HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = 1.00

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		2215	268	94.	493.1	32.8	2		2030	535	94.	494.4	32.8
1		0005	2	0.	.0	.0	1		2220	269	94.	493.5	32.8	2		2035	536	94.	493.9	32.8
1		0010	3	0.	.0	.0	1		2225	270	94.	493.8	32.8	2		2040	537	94.	493.3	32.8
1		0015	4	0.	.0	.0	1		2230	271	94.	494.1	32.8	2		2045	538	94.	492.7	32.7
1		0020	5	0.	.0	.0	1		2235	272	94.	494.4	32.8	2		2050	539	94.	492.2	32.7
1		0025	6	0.	.1	.0	1		2240	273	94.	494.7	32.8	2		2055	540	94.	491.6	32.7
1		0030	7	0.	.2	.1	1		2245	274	94.	495.0	32.8	2		2100	541	94.	491.1	32.7
1		0035	8	1.	.4	.1	1		2250	275	94.	495.3	32.8	2		2105	542	94.	490.5	32.7
1		0040	9	1.	.8	.3	1		2255	276	94.	495.7	32.8	2		2110	543	94.	490.0	32.6
1		0045	10	2.	1.1	.4	1		2300	277	94.	496.0	32.9	2		2115	544	94.	489.4	32.6
1		0050	11	2.	1.4	.5	1		2305	278	94.	496.3	32.9	2		2120	545	94.	488.9	32.6
1		0055	12	2.	1.6	.5	1		2310	279	94.	496.6	32.9	2		2125	546	94.	488.3	32.6
1		0100	13	3.	1.9	.6	1		2315	280	94.	496.9	32.9	2		2130	547	94.	487.8	32.6
1		0105	14	3.	2.1	.7	1		2320	281	94.	497.2	32.9	2		2135	548	94.	487.2	32.5
1		0110	15	3.	2.3	.8	1		2325	282	94.	497.5	32.9	2		2140	549	94.	486.6	32.5
1		0115	16	4.	2.6	.9	1		2330	283	94.	497.8	32.9	2		2145	550	94.	486.1	32.5
1		0120	17	4.	3.0	1.0	1		2335	284	94.	498.1	32.9	2		2150	551	93.	485.5	32.5
1		0125	18	5.	3.5	1.2	1		2340	285	94.	498.4	32.9	2		2155	552	93.	485.0	32.5
1		0130	19	6.	4.0	1.3	1		2345	286	94.	498.6	33.0	2		2200	553	93.	484.4	32.4
1		0135	20	7.	4.8	1.6	1		2350	287	94.	498.9	33.0	2		2205	554	93.	483.9	32.4
1		0140	21	8.	5.8	1.9	1		2355	288	94.	499.2	33.0	2		2210	555	93.	483.3	32.4
1		0145	22	10.	6.9	2.3	2		0000	289	94.	499.5	33.0	2		2215	556	93.	482.8	32.4
1		0150	23	11.	8.2	2.7	2		0005	290	94.	499.8	33.0	2		2220	557	93.	482.2	32.4
1		0155	24	13.	9.4	3.1	2		0010	291	94.	500.1	33.0	2		2225	558	93.	481.7	32.3
1		0200	25	15.	10.5	3.5	2		0015	292	94.	500.4	33.0	2		2230	559	93.	481.1	32.3
1		0205	26	16.	11.5	3.8	2		0020	293	94.	500.6	33.0	2		2235	560	93.	480.6	32.3
1		0210	27	17.	12.3	4.1	2		0025	294	94.	500.9	33.0	2		2240	561	93.	480.0	32.3
1		0215	28	19.	13.3	4.4	2		0030	295	94.	501.2	33.0	2		2245	562	93.	479.5	32.3
1		0220	29	21.	14.6	4.9	2		0035	296	94.	501.5	33.1	2		2250	563	93.	478.9	32.2
1		0225	30	22.	16.3	5.3	2		0040	297	94.	501.7	33.1	2		2255	564	93.	478.4	32.2
1		0230	31	22.	18.2	5.7	2		0045	298	94.	502.0	33.1	2		2300	565	93.	477.8	32.2
1		0235	32	23.	20.1	6.2	2		0050	299	94.	502.3	33.1	2		2305	566	93.	477.3	32.2
1		0240	33	24.	22.0	6.6	2		0055	300	94.	502.5	33.1	2		2310	567	93.	476.7	32.2
1		0245	34	25.	23.9	7.0	2		0100	301	94.	502.8	33.1	2		2315	568	93.	476.1	32.1
1		0250	35	26.	26.0	7.5	2		0105	302	94.	503.1	33.1	2		2320	569	93.	475.6	32.1
1		0255	36	26.	28.1	8.0	2		0110	303	94.	503.3	33.1	2		2325	570	93.	475.0	32.1
1		0300	37	27.	30.0	8.4	2		0115	304	94.	503.6	33.1	2		2330	571	93.	474.5	32.1
1		0305	38	28.	32.2	8.9	2		0120	305	94.	503.8	33.1	2		2335	572	93.	473.9	32.1
1		0310	39	29.	35.0	9.5	2		0125	306	94.	504.1	33.1	2		2340	573	93.	473.4	32.0
1		0315	40	30.	39.3	10.2	2		0130	307	94.	504.3	33.2	2		2345	574	93.	472.8	32.0
1		0320	41	31.	46.5	10.9	2		0135	308	94.	504.6	33.2	2		2350	575	93.	472.3	32.0
1		0325	42	33.	58.4	12.0	2		0140	309	94.	504.8	33.2	2		2355	576	93.	471.7	32.0
1		0330	43	35.	76.9	13.8	2		0145	310	94.	505.1	33.2	3		0000	577	93.	471.2	32.0
1		0335	44	38.	101.7	15.7	2		0150	311	94.	505.3	33.2	3		0005	578	93.	470.6	32.0
1		0340	45	39.	129.8	17.5	2		0155	312	94.	505.6	33.2	3		0010	579	93.	470.1	31.9
1		0345	46	41.	157.5	19.2	2		0200	313	94.	505.8	33.2	3		0015	580	93.	469.6	31.9
1		0350	47	42.	182.4	20.5	2		0205	314	95.	506.0	33.2	3		0020	581	93.	469.0	31.9
1		0355	48	43.	203.2	21.3	2		0210	315	95.	506.3	33.2	3		0025	582	93.	468.5	31.9
1		0400	49	44.	220.0	22.0	2		0215	316	95.	506.5	33.2	3		0030	583	93.	467.9	31.9
1		0405	50	44.	233.7	22.5	2		0220	317	95.	506.7	33.2	3		0035	584	93.	467.4	31.8
1		0410	51	44.	244.8	22.9	2		0225	318	95.	507.0	33.2	3		0040	585	93.	466.8	31.8
1		0415	52	45.	253.7	23.3	2		0230	319	95.	507.2	33.3	3		0045	586	93.	466.3	31.8
1		0420	53	45.	261.0	23.6	2		0235	320	95.	507.4	33.3	3		0050	587	92.	465.7	31.8
1		0425	54	45.	267.3	23.8	2		0240	321	95.	507.7	33.3	3		0055	588	92.	465.2	31.8
1		0430	55	45.	273.2	24.0	2		0245	322	95.	507.9	33.3	3		0100	589	92.	464.6	31.7
1		0435	56	45.	279.5	24.3	2		0250	323	95.	508.1	33.3	3		0105	590	92.	464.1	31.7
1		0440	57	46.	286.5	24.6	2		0255	324	95.	508.3	33.3	3		0110	591	92.	463.5	31.7
1		0445	58	46.	293.9	24.8	2		0300	325	95.	508.5	33.3	3		0115	592	92.	463.0	31.7
1		0450	59	47.	301.5	25.1	2		0305	326	95.	508.8	33.3	3		0120	593	92.	462.4	31.7
1		0455	60	50.	309.2	25.5	2		0310	327	95.	509.0	33.3	3		0125	594	92.	461.9	31.6
1		0500	61	53.	316.7	25.8	2		0315	328	95.	509.2	33.3	3		0130	595	92.	461.3	31.6
1		0505	62	56.	324.1	26.1	2		0320	329	95.	509.4	33.3	3		0135	596	92.	460.8	31.6
1		0510	63	59.	332.0	26.4	2		0325	330	95.	509.6	33.3	3		0140	597	92.	460.2	31.6
1		0515	64	62.	341.0	26.8	2		0330	331	95.	509.8	33.4	3		0145	598	92.	459.7	31.6
1		0520	65	65.	350.2	27.2	2		0335	332	95.	510.0	33.4	3		0150	599	92.	459.2	31.5
1		0525	66	69.	358.7	27.6	2		0340	333	95.	510.2	33.4	3		0155	600	92.	458.6	31.5
1		0530	67	71.	366.3	27.9	2		0345	334	95.	510.4	33.4	3		0200	601	92.	458.1	31.5
1		0535	68	74.	372.7	28.2	2		0350	335	95.	510.6	33.4	3		0205	602	92.	457.5	31.5
1		0540	69	76.	378.1	28.4	2		0355	336	95.	510.8	33.4	3		0210	603	92.	457.0	31.5
1		0545	70	78.	382.6	28.6	2		0400	337	95.	511.0	33.4	3		0215	604	92.	456.4	31.4
1		0550	71	79.	386.3	28.7	2		0405	338	95.	511.2	33.4	3		0220	605	92.	455.9	31.4
1		0555	72	80.	389.4	28.9	2		0410	339	95.	511.4	33.4	3		0225	606	92.	455.3	31.4
1		0600	73	81.	391.9	29.0	2		0415	340	95.	511.6	33.4	3		0230	607	92.	454.8	31.4
1		0605	74	82.	394.1	29.1	2		0420	341	95.	511.8	33.4	3		0235	608	92.	454.3	31.4
1		0610	75	82.	395.8	29.1	2		0425	342	95.	512.0	33.4	3		0240	609	92.	453.7	31.3
1		0615	76	83.	397.2	29.2	2		0430	343	95.	512.1	33.4	3		0245	610	92.	453.2	31.3
1		0620	77	83.	398.3	29.3	2		0435	344	95.	512.3	33.4	3		0250	611	92.	452.6	31.3
1		0625	78	84.	399.3	29.3	2		0440	345	95.	512.5	33.4	3		0255	612	92.	452.1	31.3

1	0630	79	84.	400.1	29.3 *	2	0445	346	95.	512.7	33.5 *	3	0300	613	92.	451.5	31.3
1	0635	80	84.	400.9	29.4 *	2	0450	347	95.	512.9	33.5 *	3	0305	614	92.	451.0	31.2
1	0640	81	85.	401.6	29.4 *	2	0455	348	95.	513.0	33.5 *	3	0310	615	92.	450.4	31.2
1	0645	82	85.	402.3	29.4 *	2	0500	349	95.	513.2	33.5 *	3	0315	616	92.	449.9	31.2
1	0650	83	85.	403.0	29.5 *	2	0505	350	95.	513.4	33.5 *	3	0320	617	92.	449.4	31.2
1	0655	84	85.	403.7	29.5 *	2	0510	351	95.	513.5	33.5 *	3	0325	618	92.	448.8	31.2
1	0700	85	86.	404.4	29.5 *	2	0515	352	95.	513.7	33.5 *	3	0330	619	92.	448.3	31.2
1	0705	86	86.	405.1	29.5 *	2	0520	353	95.	513.9	33.5 *	3	0335	620	92.	447.7	31.1
1	0710	87	86.	405.7	29.6 *	2	0525	354	95.	514.0	33.5 *	3	0340	621	92.	447.2	31.1
1	0715	88	86.	406.4	29.6 *	2	0530	355	95.	514.2	33.5 *	3	0345	622	92.	446.7	31.1
1	0720	89	87.	407.0	29.6 *	2	0535	356	95.	514.4	33.5 *	3	0350	623	92.	446.1	31.1
1	0725	90	87.	407.7	29.6 *	2	0540	357	95.	514.5	33.5 *	3	0355	624	91.	445.6	31.1
1	0730	91	87.	408.3	29.7 *	2	0545	358	95.	514.7	33.5 *	3	0400	625	91.	445.0	31.0
1	0735	92	87.	409.0	29.7 *	2	0550	359	95.	514.8	33.5 *	3	0405	626	91.	444.5	31.0
1	0740	93	88.	409.6	29.7 *	2	0555	360	95.	515.0	33.5 *	3	0410	627	91.	443.9	31.0
1	0745	94	88.	410.3	29.8 *	2	0600	361	95.	515.1	33.5 *	3	0415	628	91.	443.4	31.0
1	0750	95	88.	410.9	29.8 *	2	0605	362	95.	515.3	33.5 *	3	0420	629	91.	442.9	31.0
1	0755	96	88.	411.5	29.8 *	2	0610	363	95.	515.4	33.6 *	3	0425	630	91.	442.3	30.9
1	0800	97	89.	412.2	29.8 *	2	0615	364	95.	515.6	33.6 *	3	0430	631	91.	441.8	30.9
1	0805	98	89.	412.8	29.9 *	2	0620	365	95.	515.7	33.6 *	3	0435	632	91.	441.2	30.9
1	0810	99	89.	413.4	29.9 *	2	0625	366	95.	515.8	33.6 *	3	0440	633	91.	440.7	30.9
1	0815	100	89.	414.0	29.9 *	2	0630	367	95.	516.0	33.6 *	3	0445	634	91.	440.2	30.9
1	0820	101	89.	414.6	29.9 *	2	0635	368	95.	516.1	33.6 *	3	0450	635	91.	439.6	30.8
1	0825	102	90.	415.3	30.0 *	2	0640	369	95.	516.2	33.6 *	3	0455	636	91.	439.1	30.8
1	0830	103	90.	415.9	30.0 *	2	0645	370	95.	516.4	33.6 *	3	0500	637	91.	438.5	30.8
1	0835	104	90.	416.5	30.0 *	2	0650	371	95.	516.5	33.6 *	3	0505	638	91.	438.0	30.8
1	0840	105	90.	417.1	30.0 *	2	0655	372	95.	516.6	33.6 *	3	0510	639	91.	437.5	30.8
1	0845	106	90.	417.7	30.1 *	2	0700	373	95.	516.8	33.6 *	3	0515	640	91.	436.9	30.7
1	0850	107	90.	418.3	30.1 *	2	0705	374	95.	516.9	33.6 *	3	0520	641	91.	436.4	30.7
1	0855	108	90.	418.9	30.1 *	2	0710	375	95.	517.0	33.6 *	3	0525	642	91.	435.8	30.7
1	0900	109	90.	419.5	30.1 *	2	0715	376	95.	517.1	33.6 *	3	0530	643	91.	435.3	30.7
1	0905	110	90.	420.1	30.1 *	2	0720	377	95.	517.2	33.6 *	3	0535	644	91.	434.8	30.7
1	0910	111	90.	420.7	30.2 *	2	0725	378	95.	517.4	33.6 *	3	0540	645	91.	434.2	30.7
1	0915	112	90.	421.3	30.2 *	2	0730	379	95.	517.5	33.6 *	3	0545	646	91.	433.7	30.6
1	0920	113	90.	421.9	30.2 *	2	0735	380	95.	517.6	33.6 *	3	0550	647	91.	433.2	30.6
1	0925	114	90.	422.5	30.2 *	2	0740	381	95.	517.7	33.6 *	3	0555	648	91.	432.6	30.6
1	0930	115	90.	423.0	30.3 *	2	0745	382	95.	517.8	33.6 *	3	0600	649	91.	432.1	30.6
1	0935	116	90.	423.6	30.3 *	2	0750	383	95.	517.9	33.6 *	3	0605	650	91.	431.5	30.6
1	0940	117	90.	424.2	30.3 *	2	0755	384	95.	518.0	33.6 *	3	0610	651	91.	431.0	30.5
1	0945	118	90.	424.8	30.3 *	2	0800	385	95.	518.1	33.6 *	3	0615	652	91.	430.5	30.5
1	0950	119	90.	425.4	30.3 *	2	0805	386	95.	518.2	33.7 *	3	0620	653	91.	429.9	30.5
1	0955	120	90.	426.0	30.4 *	2	0810	387	95.	518.3	33.7 *	3	0625	654	91.	429.4	30.5
1	1000	121	91.	426.6	30.4 *	2	0815	388	95.	518.4	33.7 *	3	0630	655	91.	428.9	30.5
1	1005	122	91.	427.1	30.4 *	2	0820	389	95.	518.5	33.7 *	3	0635	656	91.	428.3	30.4
1	1010	123	91.	427.7	30.4 *	2	0825	390	95.	518.6	33.7 *	3	0640	657	91.	427.8	30.4
1	1015	124	91.	428.3	30.4 *	2	0830	391	95.	518.7	33.7 *	3	0645	658	91.	427.3	30.4
1	1020	125	91.	428.9	30.5 *	2	0835	392	95.	518.8	33.7 *	3	0650	659	91.	426.7	30.4
1	1025	126	91.	429.4	30.5 *	2	0840	393	95.	518.9	33.7 *	3	0655	660	91.	426.2	30.4
1	1030	127	91.	430.0	30.5 *	2	0845	394	95.	518.9	33.7 *	3	0700	661	90.	425.6	30.3
1	1035	128	91.	430.6	30.5 *	2	0850	395	95.	519.0	33.7 *	3	0705	662	90.	425.1	30.3
1	1040	129	91.	431.1	30.5 *	2	0855	396	95.	519.1	33.7 *	3	0710	663	90.	424.6	30.3
1	1045	130	91.	431.7	30.6 *	2	0900	397	95.	519.2	33.7 *	3	0715	664	90.	424.0	30.3
1	1050	131	91.	432.3	30.6 *	2	0905	398	95.	519.2	33.7 *	3	0720	665	90.	423.5	30.3
1	1055	132	91.	432.8	30.6 *	2	0910	399	95.	519.3	33.7 *	3	0725	666	90.	423.0	30.2
1	1100	133	91.	433.4	30.6 *	2	0915	400	95.	519.4	33.7 *	3	0730	667	90.	422.4	30.2
1	1105	134	91.	433.9	30.6 *	2	0920	401	95.	519.5	33.7 *	3	0735	668	90.	421.9	30.2
1	1110	135	91.	434.5	30.7 *	2	0925	402	95.	519.5	33.7 *	3	0740	669	90.	421.4	30.2
1	1115	136	91.	435.0	30.7 *	2	0930	403	95.	519.6	33.7 *	3	0745	670	90.	420.8	30.2
1	1120	137	91.	435.6	30.7 *	2	0935	404	95.	519.6	33.7 *	3	0750	671	90.	420.3	30.2
1	1125	138	91.	436.2	30.7 *	2	0940	405	95.	519.7	33.7 *	3	0755	672	90.	419.8	30.1
1	1130	139	91.	436.7	30.7 *	2	0945	406	95.	519.8	33.7 *	3	0800	673	90.	419.2	30.1
1	1135	140	91.	437.2	30.8 *	2	0950	407	95.	519.8	33.7 *	3	0805	674	90.	418.7	30.1
1	1140	141	91.	437.8	30.8 *	2	0955	408	95.	519.9	33.7 *	3	0810	675	90.	418.2	30.1
1	1145	142	91.	438.3	30.8 *	2	1000	409	95.	519.9	33.7 *	3	0815	676	90.	417.6	30.1
1	1150	143	91.	438.9	30.8 *	2	1005	410	95.	520.0	33.7 *	3	0820	677	90.	417.1	30.0
1	1155	144	91.	439.4	30.8 *	2	1010	411	95.	520.0	33.7 *	3	0825	678	90.	416.6	30.0
1	1200	145	91.	440.0	30.9 *	2	1015	412	95.	520.1	33.7 *	3	0830	679	90.	416.0	30.0
1	1205	146	91.	440.5	30.9 *	2	1020	413	95.	520.1	33.7 *	3	0835	680	90.	415.5	30.0
1	1210	147	91.	441.0	30.9 *	2	1025	414	95.	520.2	33.7 *	3	0840	681	90.	415.0	30.0
1	1215	148	91.	441.6	30.9 *	2	1030	415	95.	520.2	33.7 *	3	0845	682	89.	414.4	29.9
1	1220	149	91.	442.1	30.9 *	2	1035	416	95.	520.2	33.7 *	3	0850	683	89.	413.9	29.9
1	1225	150	91.	442.6	31.0 *	2	1040	417	95.	520.3	33.7 *	3	0855	684	89.	413.4	29.9
1	1230	151	91.	443.2	31.0 *	2	1045	418	95.	520.3	33.7 *	3	0900	685	89.	412.9	29.9
1	1235	152	91.	443.7	31.0 *	2	1050	419	95.	520.3	33.7 *	3	0905	686	89.	412.3	29.8
1	1240	153	91.	444.2	31.0 *	2	1055	420	95.	520.4	33.7 *	3	0910	687	88.	411.8	29.8
1	1245	154	91.	444.7	31.0 *	2	1100	421	95.	520.4	33.7 *	3	0915	688	88.	411.3	29.8
1	1250	155	91.	445.3	31.0 *	2	1105	422	95.	520.4	33.7 *	3	0920	689	88.	410.8	29.8
1	1255	156	91.	445.8	31.1 *	2	1110	423	95.	520.4	33.7 *	3	0925	690	88.	410.3	29.8
1	1300	157	92.	446.3	31.1 *	2	1115	424	95.	520.5	33.7 *	3	0930	691	88.	409.7	29.7
1	1305	158	92.	446.8	31.1 *	2	1120	425	95.	520.5	33.7 *	3	0935	692	87.	409.2	29.7
1	1310	159	92.	447.3	31.1 *	2	1125	426	95.	520.5	33.7 *	3	0940	693	87.	408.7	29.7
1	1315	160	92.	447.9	31.1 *	2	1130	427	95.	520.5	33.7 *	3	0945	694	87.	408.2	29.7
1	1320	161	92.	448.4	31.2 *	2	1135	428	95.	520.5	33.7 *	3	0950	695	87.	407.7	29.6
1	1325	162	92.	448.9	31.2 *	2	1140	429	95.	520.5	33.7 *	3	0955	696	87.	407.2	29.6
1	1330	163	92.	449.4	31.2 *	2	1145	430	95.	520.5	33.7 *	3	1000	697	87.	406.7	29.6
1	1335	164	92.	449.9	31.2 *	2	1150	431	95.	520.5	33.7 *	3	1005	698	86.	406.2	29.6
1	1340	165	92.	450.4	31.2 *	2	1155	432	95.	520.5	33.7 *	3	1010	699	86.	405.7	29.6
1	1345	166	92.	450.9	31.2 *	2	1200	433	95.	520.5	33.7 *	3	1015	700	86.	405.1	29.5
1	1350	167	92.	451.4	31.3 *	2	1205	434	95.	520.5	33.7 *	3	1020	701	86.	404.6	29.5
1	1355	168	92.	451.9	31.3 *	2	1210	435	95.	520.5	33.7 *	3	1025	702	86.	404.1	29.5
1	1400	169	92.	452.4	31.3 *	2	1215	436	95.	520.5	33.7 *	3	1030	703	85.	403.6	29.5
1	1405	170	92.	452.9	31.3 *	2	1220	437	95.	520.5	33.7 *	3	1035	704	85.	403.1	29.5
1	1410	171	92.	453.4	31.3 *	2	1225	438	95.	520.4	33.7 *	3	1040	705	85.	402.6	29.4
1	1415	172	92.	453.9	31.4 *	2	1230	439	95.	520.4	33.7 *	3	1045	706	85.	402.1	29.4
1	1420	173	92.	454.4	31.4 *	2	1235	440	95.	520.4	33.7 *	3	1050	707	85.	401.6	29.4

1	1425	174	92.	454.9	31.4	*	2	1240	441	95.	520.4	33.7	*	3	1055	708	84.	401.1	29.4
1	1430	175	92.	455.4	31.4	*	2	1245	442	95.	520.3	33.7	*	3	1100	709	84.	400.7	29.3
1	1435	176	92.	455.8	31.4	*	2	1250	443	95.	520.3	33.7	*	3	1105	710	84.	400.2	29.3
1	1440	177	92.	456.3	31.4	*	2	1255	444	95.	520.3	33.7	*	3	1110	711	84.	399.7	29.3
1	1445	178	92.	456.8	31.5	*	2	1300	445	95.	520.2	33.7	*	3	1115	712	84.	399.2	29.3
1	1450	179	92.	457.3	31.5	*	2	1305	446	95.	520.2	33.7	*	3	1120	713	84.	398.7	29.3
1	1455	180	92.	457.8	31.5	*	2	1310	447	95.	520.2	33.7	*	3	1125	714	83.	398.2	29.2
1	1500	181	92.	458.3	31.5	*	2	1315	448	95.	520.1	33.7	*	3	1130	715	83.	397.7	29.2
1	1505	182	92.	458.7	31.5	*	2	1320	449	95.	520.1	33.7	*	3	1135	716	83.	397.2	29.2
1	1510	183	92.	459.2	31.5	*	2	1325	450	95.	520.0	33.7	*	3	1140	717	83.	396.7	29.2
1	1515	184	92.	459.7	31.6	*	2	1330	451	95.	520.0	33.7	*	3	1145	718	83.	396.3	29.2
1	1520	185	92.	460.1	31.6	*	2	1335	452	95.	519.9	33.7	*	3	1150	719	82.	395.8	29.1
1	1525	186	92.	460.6	31.6	*	2	1340	453	95.	519.9	33.7	*	3	1155	720	82.	395.3	29.1
1	1530	187	92.	461.1	31.6	*	2	1345	454	95.	519.8	33.7	*	3	1200	721	82.	394.8	29.1
1	1535	188	92.	461.6	31.6	*	2	1350	455	95.	519.7	33.7	*	3	1205	722	82.	394.3	29.1
1	1540	189	92.	462.0	31.6	*	2	1355	456	95.	519.7	33.7	*	3	1210	723	82.	393.9	29.1
1	1545	190	92.	462.5	31.7	*	2	1400	457	95.	519.6	33.7	*	3	1215	724	82.	393.4	29.0
1	1550	191	92.	462.9	31.7	*	2	1405	458	95.	519.5	33.7	*	3	1220	725	81.	392.9	29.0
1	1555	192	92.	463.4	31.7	*	2	1410	459	95.	519.5	33.7	*	3	1225	726	81.	392.4	29.0
1	1600	193	92.	463.9	31.7	*	2	1415	460	95.	519.4	33.7	*	3	1230	727	81.	392.0	29.0
1	1605	194	92.	464.3	31.7	*	2	1420	461	95.	519.3	33.7	*	3	1235	728	81.	391.5	29.0
1	1610	195	92.	464.8	31.7	*	2	1425	462	95.	519.2	33.7	*	3	1240	729	81.	391.0	28.9
1	1615	196	92.	465.2	31.8	*	2	1430	463	95.	519.1	33.7	*	3	1245	730	81.	390.6	28.9
1	1620	197	92.	465.7	31.8	*	2	1435	464	95.	519.0	33.7	*	3	1250	731	80.	390.1	28.9
1	1625	198	93.	466.1	31.8	*	2	1440	465	95.	518.9	33.7	*	3	1255	732	80.	389.6	28.9
1	1630	199	93.	466.6	31.8	*	2	1445	466	95.	518.8	33.7	*	3	1300	733	80.	389.2	28.9
1	1635	200	93.	467.0	31.8	*	2	1450	467	95.	518.7	33.7	*	3	1305	734	80.	388.7	28.8
1	1640	201	93.	467.5	31.8	*	2	1455	468	95.	518.6	33.7	*	3	1310	735	80.	388.2	28.8
1	1645	202	93.	467.9	31.9	*	2	1500	469	95.	518.5	33.7	*	3	1315	736	79.	387.8	28.8
1	1650	203	93.	468.3	31.9	*	2	1505	470	95.	518.3	33.7	*	3	1320	737	79.	387.3	28.8
1	1655	204	93.	468.8	31.9	*	2	1510	471	95.	518.2	33.7	*	3	1325	738	79.	386.8	28.8
1	1700	205	93.	469.2	31.9	*	2	1515	472	95.	518.1	33.6	*	3	1330	739	79.	386.4	28.7
1	1705	206	93.	469.6	31.9	*	2	1520	473	95.	518.0	33.6	*	3	1335	740	79.	385.9	28.7
1	1710	207	93.	470.1	31.9	*	2	1525	474	95.	517.8	33.6	*	3	1340	741	79.	385.5	28.7
1	1715	208	93.	470.5	31.9	*	2	1530	475	95.	517.7	33.6	*	3	1345	742	78.	385.0	28.7
1	1720	209	93.	470.9	32.0	*	2	1535	476	95.	517.5	33.6	*	3	1350	743	78.	384.6	28.7
1	1725	210	93.	471.4	32.0	*	2	1540	477	95.	517.4	33.6	*	3	1355	744	78.	384.1	28.6
1	1730	211	93.	471.8	32.0	*	2	1545	478	95.	517.2	33.6	*	3	1400	745	78.	383.7	28.6
1	1735	212	93.	472.2	32.0	*	2	1550	479	95.	517.1	33.6	*	3	1405	746	78.	383.2	28.6
1	1740	213	93.	472.6	32.0	*	2	1555	480	95.	516.9	33.6	*	3	1410	747	78.	382.8	28.6
1	1745	214	93.	473.1	32.0	*	2	1600	481	95.	516.7	33.6	*	3	1415	748	77.	382.3	28.6
1	1750	215	93.	473.5	32.1	*	2	1605	482	95.	516.5	33.6	*	3	1420	749	77.	381.9	28.6
1	1755	216	93.	473.9	32.1	*	2	1610	483	95.	516.4	33.6	*	3	1425	750	77.	381.4	28.5
1	1800	217	93.	474.3	32.1	*	2	1615	484	95.	516.2	33.6	*	3	1430	751	77.	381.0	28.5
1	1805	218	93.	474.7	32.1	*	2	1620	485	95.	516.0	33.6	*	3	1435	752	77.	380.5	28.5
1	1810	219	93.	475.1	32.1	*	2	1625	486	95.	515.8	33.6	*	3	1440	753	77.	380.1	28.5
1	1815	220	93.	475.5	32.1	*	2	1630	487	95.	515.6	33.6	*	3	1445	754	76.	379.7	28.5
1	1820	221	93.	476.0	32.1	*	2	1635	488	95.	515.4	33.6	*	3	1450	755	76.	379.2	28.4
1	1825	222	93.	476.4	32.2	*	2	1640	489	95.	515.2	33.5	*	3	1455	756	76.	378.8	28.4
1	1830	223	93.	476.8	32.2	*	2	1645	490	95.	515.0	33.5	*	3	1500	757	76.	378.3	28.4
1	1835	224	93.	477.2	32.2	*	2	1650	491	95.	514.7	33.5	*	3	1505	758	76.	377.9	28.4
1	1840	225	93.	477.6	32.2	*	2	1655	492	95.	514.5	33.5	*	3	1510	759	76.	377.5	28.4
1	1845	226	93.	478.0	32.2	*	2	1700	493	95.	514.2	33.5	*	3	1515	760	75.	377.0	28.3
1	1850	227	93.	478.4	32.2	*	2	1705	494	95.	513.9	33.5	*	3	1520	761	75.	376.6	28.3
1	1855	228	93.	478.8	32.2	*	2	1710	495	95.	513.6	33.5	*	3	1525	762	75.	376.2	28.3
1	1900	229	93.	479.2	32.3	*	2	1715	496	95.	513.3	33.5	*	3	1530	763	75.	375.7	28.3
1	1905	230	93.	479.6	32.3	*	2	1720	497	95.	513.0	33.5	*	3	1535	764	75.	375.3	28.3
1	1910	231	93.	479.9	32.3	*	2	1725	498	95.	512.7	33.5	*	3	1540	765	75.	374.9	28.3
1	1915	232	93.	480.3	32.3	*	2	1730	499	95.	512.4	33.4	*	3	1545	766	75.	374.4	28.2
1	1920	233	93.	480.7	32.3	*	2	1735	500	95.	512.0	33.4	*	3	1550	767	74.	374.0	28.2
1	1925	234	93.	481.1	32.3	*	2	1740	501	95.	511.7	33.4	*	3	1555	768	74.	373.6	28.2
1	1930	235	93.	481.5	32.3	*	2	1745	502	95.	511.3	33.4	*	3	1600	769	74.	373.2	28.2
1	1935	236	93.	481.9	32.4	*	2	1750	503	95.	511.0	33.4	*	3	1605	770	74.	372.7	28.2
1	1940	237	93.	482.3	32.4	*	2	1755	504	95.	510.6	33.4	*	3	1610	771	74.	372.3	28.1
1	1945	238	93.	482.6	32.4	*	2	1800	505	95.	510.2	33.4	*	3	1615	772	74.	371.9	28.1
1	1950	239	93.	483.0	32.4	*	2	1805	506	95.	509.8	33.4	*	3	1620	773	73.	371.5	28.1
1	1955	240	93.	483.4	32.4	*	2	1810	507	95.	509.4	33.3	*	3	1625	774	73.	371.1	28.1
1	2000	241	93.	483.8	32.4	*	2	1815	508	95.	509.0	33.3	*	3	1630	775	73.	370.6	28.1
1	2005	242	93.	484.1	32.4	*	2	1820	509	95.	508.5	33.3	*	3	1635	776	73.	370.2	28.1
1	2010	243	93.	484.5	32.4	*	2	1825	510	95.	508.0	33.3	*	3	1640	777	73.	369.8	28.0
1	2015	244	93.	484.9	32.5	*	2	1830	511	95.	507.6	33.3	*	3	1645	778	73.	369.4	28.0
1	2020	245	93.	485.2	32.5	*	2	1835	512	95.	507.0	33.3	*	3	1650	779	72.	369.0	28.0
1	2025	246	93.	485.6	32.5	*	2	1840	513	95.	506.5	33.2	*	3	1655	780	72.	368.6	28.0
1	2030	247	93.	486.0	32.5	*	2	1845	514	95.	506.0	33.2	*	3	1700	781	72.	368.2	28.0
1	2035	248	94.	486.3	32.5	*	2	1850	515	94.	505.5	33.2	*	3	1705	782	72.	367.7	28.0
1	2040	249	94.	486.7	32.5	*	2	1855	516	94.	504.9	33.2	*	3	1710	783	72.	367.3	27.9
1	2045	250	94.	487.0	32.5	*	2	1900	517	94.	504.4	33.2	*	3	1715	784	72.	366.9	27.9
1	2050	251	94.	487.4	32.5	*	2	1905	518	94.	503.8	33.1	*	3	1720	785	72.	366.5	27.9
1	2055	252	94.	487.7	32.6	*	2	1910	519	94.	503.3	33.1	*	3	1725	786	71.	366.1	27.9
1	2100	253	94.	488.1	32.6	*	2	1915	520	94.	502.7	33.1	*	3	1730	787	71.	365.7	27.9
1	2105	254	94.	488.4	32.6	*	2	1920	521	94.	502.2	33.1	*	3	1735	788	71.	365.3	27.9
1	2110	255	94.	488.8	32.6	*	2	1925	522	94.	501.6	33.1	*	3	1740	789	71.	364.9	27.8
1	2115	256	94.	489.1	32.6	*	2	1930	523	94.	501.1	33.0	*	3	1745	790	71.	364.5	27.8
1	2120	257	94.	489.5	32.6	*	2	1935	524	94.	500.5	33.0	*	3	1750	791	71.	364.1	27.8
1	2125	258	94.	489.8	32.6	*	2	1940	525	94.	500.0	33.0	*	3	1755	792	70.	363.7	27.8
1	2130	259	94.	490.2	32.6	*	2	1945	526	94.	499.4	33.0	*	3	1800	793	70.	363.3	27.8
1	2135	260	94.	490.5	32.7	*	2	1950	527	94.	498.9	33.0	*	3	1805	794	70.	362.9	27.7
1	2140	261	94.	490.8	32.7	*	2	1955	528	94.	498.3	32.9	*	3	1810	795	70.	362.5	27.7
1	2145	262	94.	491.2	32.7	*	2	2000	529	94.	497.8	32.9	*	3	1815	796	70.	362.1	27.7
1	2150	263	94.	491.5	32.7	*	2	2005	530	94.	497.2	32.9	*	3	1820	797	70.	361.7	27.7
1	2155	264	94.	491.8	32.7	*	2	2010	531	94.	496.6	32.9	*	3	1825	798	70.	361.3	27.7
1	2200	265	94.	492.2	32.7	*	2	2015	532	94.	496.1	32.9	*	3	1830	799	69.	360.9	27.7
1	2205	266	94.	492.5	32.7	*	2	2020	533	94.	495.5	32.8	*	3	1835	800	69.	360.5	27.6
1	2210	267	94.	492.8	32.7	*	2	2025	534	94.	495.0	32.8	*						

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	66.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 95.	35.50		95.	95.	85.	85.
		(INCHES)	.085	.336	.839	.839
		(AC-FT)	47.	188.	469.	469.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	66.58-HR
+ (AC-FT)	(HR)				
521.	35.75	520.	510.	433.	433.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	66.58-HR
+ (FEET)	(HR)				
33.73	35.75	33.71	33.37	29.91	29.91

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		2215	268	93.	474.6	32.1	2		2030	535	93.	476.8	32.2
1		0005	2	0.	.0	.0	1		2220	269	93.	474.9	32.1	2		2035	536	93.	476.2	32.2
1		0010	3	0.	.0	.0	1		2225	270	93.	475.2	32.1	2		2040	537	93.	475.7	32.1
1		0015	4	0.	.0	.0	1		2230	271	93.	475.5	32.1	2		2045	538	93.	475.1	32.1
1		0020	5	0.	.0	.0	1		2235	272	93.	475.9	32.1	2		2050	539	93.	474.6	32.1
1		0025	6	0.	.1	.0	1		2240	273	93.	476.2	32.1	2		2055	540	93.	474.0	32.1
1		0030	7	0.	.2	.1	1		2245	274	93.	476.5	32.2	2		2100	541	93.	473.5	32.1
1		0035	8	1.	.4	.1	1		2250	275	93.	476.8	32.2	2		2105	542	93.	472.9	32.0
1		0040	9	1.	.7	.2	1		2255	276	93.	477.1	32.2	2		2110	543	93.	472.4	32.0
1		0045	10	1.	1.0	.3	1		2300	277	93.	477.4	32.2	2		2115	544	93.	471.8	32.0
1		0050	11	2.	1.2	.4	1		2305	278	93.	477.7	32.2	2		2120	545	93.	471.3	32.0
1		0055	12	2.	1.5	.5	1		2310	279	93.	478.1	32.2	2		2125	546	93.	470.7	32.0
1		0100	13	2.	1.7	.6	1		2315	280	93.	478.4	32.2	2		2130	547	93.	470.2	31.9
1		0105	14	3.	1.9	.6	1		2320	281	93.	478.7	32.2	2		2135	548	93.	469.6	31.9
1		0110	15	3.	2.1	.7	1		2325	282	93.	479.0	32.2	2		2140	549	93.	469.1	31.9
1		0115	16	3.	2.4	.8	1		2330	283	93.	479.3	32.3	2		2145	550	93.	468.5	31.9
1		0120	17	4.	2.8	.9	1		2335	284	93.	479.6	32.3	2		2150	551	93.	467.9	31.9
1		0125	18	4.	3.2	1.1	1		2340	285	93.	479.9	32.3	2		2155	552	93.	467.4	31.8
1		0130	19	5.	3.7	1.2	1		2345	286	93.	480.1	32.3	2		2200	553	93.	466.9	31.8
1		0135	20	6.	4.5	1.5	1		2350	287	93.	480.4	32.3	2		2205	554	93.	466.3	31.8
1		0140	21	8.	5.4	1.8	1		2355	288	93.	480.7	32.3	2		2210	555	92.	465.8	31.8
1		0145	22	9.	6.5	2.2	2		0000	289	93.	481.0	32.3	2		2215	556	92.	465.2	31.8
1		0150	23	11.	7.6	2.5	2		0005	290	93.	481.3	32.3	2		2220	557	92.	464.7	31.7
1		0155	24	12.	8.8	2.9	2		0010	291	93.	481.6	32.3	2		2225	558	92.	464.1	31.7
1		0200	25	14.	9.8	3.3	2		0015	292	93.	481.9	32.4	2		2230	559	92.	463.6	31.7
1		0205	26	15.	10.7	3.6	2		0020	293	93.	482.2	32.4	2		2235	560	92.	463.0	31.7
1		0210	27	16.	11.6	3.9	2		0025	294	93.	482.4	32.4	2		2240	561	92.	462.5	31.7
1		0215	28	18.	12.6	4.2	2		0030	295	93.	482.7	32.4	2		2245	562	92.	461.9	31.6
1		0220	29	19.	13.8	4.6	2		0035	296	93.	483.0	32.4	2		2250	563	92.	461.4	31.6
1		0225	30	21.	15.4	5.1	2		0040	297	93.	483.3	32.4	2		2255	564	92.	460.8	31.6
1		0230	31	22.	17.2	5.5	2		0045	298	93.	483.5	32.4	2		2300	565	92.	460.3	31.6
1		0235	32	23.	19.0	5.9	2		0050	299	93.	483.8	32.4	2		2305	566	92.	459.7	31.6
1		0240	33	23.	20.8	6.3	2		0055	300	93.	484.1	32.4	2		2310	567	92.	459.2	31.5
1		0245	34	24.	22.7	6.7	2		0100	301	93.	484.3	32.4	2		2315	568	92.	458.6	31.5
1		0250	35	25.	24.7	7.2	2		0105	302	93.	484.6	32.5	2		2320	569	92.	458.1	31.5
1		0255	36	26.	26.7	7.7	2		0110	303	93.	484.9	32.5	2		2325	570	92.	457.5	31.5
1		0300	37	27.	28.6	8.1	2		0115	304	93.	485.1	32.5	2		2330	571	92.	457.0	31.5
1		0305	38	27.	30.6	8.5	2		0120	305	93.	485.4	32.5	2		2335	572	92.	456.4	31.4
1		0310	39	29.	33.3	9.2	2		0125	306	93.	485.6	32.5	2		2340	573	92.	455.9	31.4
1		0315	40	30.	37.5	10.0	2		0130	307	93.	485.9	32.5	2		2345	574	92.	455.3	31.4
1		0320	41	31.	44.4	10.7	2		0135	308	94.	486.2	32.5	2		2350	575	92.	454.8	31.4
1		0325	42	33.	56.0	11.8	2		0140	309	94.	486.4	32.5	2		2355	576	92.	454.3	31.4
1		0330	43	35.	73.9	13.5	2		0145	310	94.	486.7	32.5	3		0000	577	92.	453.7	31.3
1		0335	44	37.	97.9	15.5	2		0150	311	94.	486.9	32.5	3		0005	578	92.	453.2	31.3
1		0340	45	39.	125.1	17.2	2		0155	312	94.	487.2	32.5	3		0010	579	92.	452.6	31.3
1		0345	46	41.	152.0	18.9	2		0200	313	94.	487.4	32.5	3		0015	580	92.	452.1	31.3
1		0350	47	42.	176.2	20.2	2		0205	314	94.	487.6	32.6	3		0020	581	92.	451.5	31.3
1		0355	48	43.	196.4	21.0	2		0210	315	94.	487.9	32.6	3		0025	582	92.	451.0	31.2
1		0400	49	43.	212.8	21.7	2		0215	316	94.	488.1	32.6	3		0030	583	92.	450.4	31.2
1		0405	50	44.	226.1	22.2	2		0220	317	94.	488.4	32.6	3		0035	584	92.	449.9	31.2
1		0410	51	44.	236.9	22.6	2		0225	318	94.	488.6	32.6	3		0040	585	92.	449.3	31.2
1		0415	52	44.	245.6	23.0	2		0230	319	94.	488.8	32.6	3		0045	586	92.	448.8	31.2
1		0420	53	45.	252.7	23.2	2		0235	320	94.	489.1	32.6	3		0050	587	92.	448.3	31.2
1		0425	54	45.	258.9	23.5	2		0240	321	94.	489.3	32.6	3		0055	588	92.	447.7	31.1
1		0430	55	45.	264.7	23.7	2		0245	322	94.	489.5	32.6	3		0100	589	92.	447.2	31.1
1		0435	56	45.	270.9	23.9	2		0250	323	94.	489.7	32.6	3		0105	590	92.	446.6	31.1
1		0440	57	45.	277.7	24.2	2		0255	324	94.	490.0	32.6	3		0110	591	92.	446.1	31.1
1		0445	58	46.	284.9	24.5	2		0300	325	94.	490.2	32.6	3		0115	592	91.	445.5	31.1
1		0450	59	46.	292.3	24.8	2		0305	326	94.	490.4	32.7	3		0120	593	91.	445.0	31.0
1		0455	60	47.	299.8	25.1	2		0310	327	94.	490.6	32.7	3		0125	594	91.	444.5	31.0
1		0500	61	49.	307.2	25.4	2		0315	328	94.	490.8	32.7	3		0130	595	91.	443.9	31.0
1		0505	62	52.	313.9	25.7	2		0320	329	94.	491.0	32.7	3		0135	596	91.	443.4	31.0
1		0510	63	54.	319.9	25.9	2		0325	330	94.	491.3	32.7	3		0140	597	91.	442.8	31.0

1	0515	64	56.	325.6	26.2 *	2	0330	331	94.	491.5	32.7 *	3	0145	598	91.	442.3	30.9
1	0520	65	59.	332.0	26.4 *	2	0335	332	94.	491.7	32.7 *	3	0150	599	91.	441.7	30.9
1	0525	66	61.	338.9	26.7 *	2	0340	333	94.	491.9	32.7 *	3	0155	600	91.	441.2	30.9
1	0530	67	64.	345.8	27.0 *	2	0345	334	94.	492.1	32.7 *	3	0200	601	91.	440.7	30.9
1	0535	68	66.	351.9	27.3 *	2	0350	335	94.	492.3	32.7 *	3	0205	602	91.	440.1	30.9
1	0540	69	68.	357.1	27.5 *	2	0355	336	94.	492.5	32.7 *	3	0210	603	91.	439.6	30.8
1	0545	70	70.	361.5	27.7 *	2	0400	337	94.	492.7	32.7 *	3	0215	604	91.	439.0	30.8
1	0550	71	71.	365.2	27.8 *	2	0405	338	94.	492.9	32.7 *	3	0220	605	91.	438.5	30.8
1	0555	72	72.	368.2	28.0 *	2	0410	339	94.	493.1	32.8 *	3	0225	606	91.	438.0	30.8
1	0600	73	73.	370.8	28.1 *	2	0415	340	94.	493.3	32.8 *	3	0230	607	91.	437.4	30.8
1	0605	74	74.	372.9	28.2 *	2	0420	341	94.	493.5	32.8 *	3	0235	608	91.	436.9	30.7
1	0610	75	75.	374.6	28.2 *	2	0425	342	94.	493.7	32.8 *	3	0240	609	91.	436.3	30.7
1	0615	76	75.	376.0	28.3 *	2	0430	343	94.	493.9	32.8 *	3	0245	610	91.	435.8	30.7
1	0620	77	76.	377.2	28.4 *	2	0435	344	94.	494.0	32.8 *	3	0250	611	91.	435.2	30.7
1	0625	78	76.	378.2	28.4 *	2	0440	345	94.	494.2	32.8 *	3	0255	612	91.	434.7	30.7
1	0630	79	76.	379.1	28.4 *	2	0445	346	94.	494.4	32.8 *	3	0300	613	91.	434.2	30.6
1	0635	80	77.	379.9	28.5 *	2	0450	347	94.	494.6	32.8 *	3	0305	614	91.	433.6	30.6
1	0640	81	77.	380.7	28.5 *	2	0455	348	94.	494.8	32.8 *	3	0310	615	91.	433.1	30.6
1	0645	82	77.	381.4	28.5 *	2	0500	349	94.	494.9	32.8 *	3	0315	616	91.	432.6	30.6
1	0650	83	77.	382.2	28.6 *	2	0505	350	94.	495.1	32.8 *	3	0320	617	91.	432.0	30.6
1	0655	84	78.	382.9	28.6 *	2	0510	351	94.	495.3	32.8 *	3	0325	618	91.	431.5	30.6
1	0700	85	78.	383.6	28.6 *	2	0515	352	94.	495.4	32.8 *	3	0330	619	91.	430.9	30.5
1	0705	86	78.	384.3	28.7 *	2	0520	353	94.	495.6	32.8 *	3	0335	620	91.	430.4	30.5
1	0710	87	78.	385.1	28.7 *	2	0525	354	94.	495.8	32.8 *	3	0340	621	91.	429.9	30.5
1	0715	88	79.	385.8	28.7 *	2	0530	355	94.	495.9	32.9 *	3	0345	622	91.	429.3	30.5
1	0720	89	79.	386.5	28.7 *	2	0535	356	94.	496.1	32.9 *	3	0350	623	91.	428.8	30.5
1	0725	90	79.	387.2	28.8 *	2	0540	357	94.	496.3	32.9 *	3	0355	624	91.	428.2	30.4
1	0730	91	80.	387.9	28.8 *	2	0545	358	94.	496.4	32.9 *	3	0400	625	91.	427.7	30.4
1	0735	92	80.	388.6	28.8 *	2	0550	359	94.	496.6	32.9 *	3	0405	626	91.	427.2	30.4
1	0740	93	80.	389.3	28.9 *	2	0555	360	94.	496.7	32.9 *	3	0410	627	91.	426.6	30.4
1	0745	94	80.	389.9	28.9 *	2	0600	361	94.	496.9	32.9 *	3	0415	628	91.	426.1	30.4
1	0750	95	81.	390.6	28.9 *	2	0605	362	94.	497.0	32.9 *	3	0420	629	90.	425.6	30.3
1	0755	96	81.	391.3	29.0 *	2	0610	363	94.	497.2	32.9 *	3	0425	630	90.	425.0	30.3
1	0800	97	81.	392.0	29.0 *	2	0615	364	94.	497.3	32.9 *	3	0430	631	90.	424.5	30.3
1	0805	98	81.	392.7	29.0 *	2	0620	365	94.	497.5	32.9 *	3	0435	632	90.	423.9	30.3
1	0810	99	82.	393.3	29.0 *	2	0625	366	94.	497.6	32.9 *	3	0440	633	90.	423.4	30.3
1	0815	100	82.	394.0	29.1 *	2	0630	367	94.	497.8	32.9 *	3	0445	634	90.	422.9	30.2
1	0820	101	82.	394.7	29.1 *	2	0635	368	94.	497.9	32.9 *	3	0450	635	90.	422.3	30.2
1	0825	102	82.	395.3	29.1 *	2	0640	369	94.	498.0	32.9 *	3	0455	636	90.	421.8	30.2
1	0830	103	83.	396.0	29.2 *	2	0645	370	94.	498.2	32.9 *	3	0500	637	90.	421.3	30.2
1	0835	104	83.	396.6	29.2 *	2	0650	371	94.	498.3	32.9 *	3	0505	638	90.	420.7	30.2
1	0840	105	83.	397.3	29.2 *	2	0655	372	94.	498.4	32.9 *	3	0510	639	90.	420.2	30.1
1	0845	106	83.	397.9	29.2 *	2	0700	373	94.	498.6	32.9 *	3	0515	640	90.	419.7	30.1
1	0850	107	84.	398.6	29.3 *	2	0705	374	94.	498.7	33.0 *	3	0520	641	90.	419.1	30.1
1	0855	108	84.	399.2	29.3 *	2	0710	375	94.	498.8	33.0 *	3	0525	642	90.	418.6	30.1
1	0900	109	84.	399.9	29.3 *	2	0715	376	94.	498.9	33.0 *	3	0530	643	90.	418.1	30.1
1	0905	110	84.	400.5	29.3 *	2	0720	377	94.	499.1	33.0 *	3	0535	644	90.	417.5	30.1
1	0910	111	84.	401.1	29.4 *	2	0725	378	94.	499.2	33.0 *	3	0540	645	90.	417.0	30.0
1	0915	112	85.	401.8	29.4 *	2	0730	379	94.	499.3	33.0 *	3	0545	646	90.	416.4	30.0
1	0920	113	85.	402.4	29.4 *	2	0735	380	94.	499.4	33.0 *	3	0550	647	90.	415.9	30.0
1	0925	114	85.	403.0	29.5 *	2	0740	381	94.	499.5	33.0 *	3	0555	648	90.	415.4	30.0
1	0930	115	85.	403.6	29.5 *	2	0745	382	94.	499.6	33.0 *	3	0600	649	90.	414.8	30.0
1	0935	116	86.	404.3	29.5 *	2	0750	383	94.	499.8	33.0 *	3	0605	650	89.	414.3	29.9
1	0940	117	86.	404.9	29.5 *	2	0755	384	94.	499.9	33.0 *	3	0610	651	89.	413.8	29.9
1	0945	118	86.	405.5	29.6 *	2	0800	385	94.	500.0	33.0 *	3	0615	652	89.	413.3	29.9
1	0950	119	86.	406.1	29.6 *	2	0805	386	94.	500.1	33.0 *	3	0620	653	89.	412.7	29.9
1	0955	120	87.	406.7	29.6 *	2	0810	387	94.	500.2	33.0 *	3	0625	654	89.	412.2	29.8
1	1000	121	87.	407.3	29.6 *	2	0815	388	94.	500.3	33.0 *	3	0630	655	88.	411.7	29.8
1	1005	122	87.	407.9	29.7 *	2	0820	389	94.	500.4	33.0 *	3	0635	656	88.	411.2	29.8
1	1010	123	87.	408.5	29.7 *	2	0825	390	94.	500.5	33.0 *	3	0640	657	88.	410.6	29.8
1	1015	124	87.	409.1	29.7 *	2	0830	391	94.	500.6	33.0 *	3	0645	658	88.	410.1	29.8
1	1020	125	88.	409.7	29.7 *	2	0835	392	94.	500.6	33.0 *	3	0650	659	88.	409.6	29.7
1	1025	126	88.	410.3	29.8 *	2	0840	393	94.	500.7	33.0 *	3	0655	660	87.	409.1	29.7
1	1030	127	88.	410.9	29.8 *	2	0845	394	94.	500.8	33.0 *	3	0700	661	87.	408.6	29.7
1	1035	128	88.	411.5	29.8 *	2	0850	395	94.	500.9	33.0 *	3	0705	662	87.	408.1	29.7
1	1040	129	89.	412.0	29.8 *	2	0855	396	94.	501.0	33.0 *	3	0710	663	87.	407.5	29.6
1	1045	130	89.	412.6	29.9 *	2	0900	397	94.	501.1	33.0 *	3	0715	664	87.	407.0	29.6
1	1050	131	89.	413.2	29.9 *	2	0905	398	94.	501.1	33.0 *	3	0720	665	86.	406.5	29.6
1	1055	132	89.	413.8	29.9 *	2	0910	399	94.	501.2	33.0 *	3	0725	666	86.	406.0	29.6
1	1100	133	89.	414.3	29.9 *	2	0915	400	94.	501.3	33.0 *	3	0730	667	86.	405.5	29.6
1	1105	134	90.	414.9	30.0 *	2	0920	401	94.	501.4	33.0 *	3	0735	668	86.	405.0	29.5
1	1110	135	90.	415.4	30.0 *	2	0925	402	94.	501.4	33.1 *	3	0740	669	86.	404.5	29.5
1	1115	136	90.	416.0	30.0 *	2	0930	403	94.	501.5	33.1 *	3	0745	670	86.	404.0	29.5
1	1120	137	90.	416.6	30.0 *	2	0935	404	94.	501.6	33.1 *	3	0750	671	85.	403.5	29.5
1	1125	138	90.	417.1	30.0 *	2	0940	405	94.	501.6	33.1 *	3	0755	672	85.	403.0	29.4
1	1130	139	90.	417.7	30.1 *	2	0945	406	94.	501.7	33.1 *	3	0800	673	85.	402.5	29.4
1	1135	140	90.	418.2	30.1 *	2	0950	407	94.	501.7	33.1 *	3	0805	674	85.	402.0	29.4
1	1140	141	90.	418.8	30.1 *	2	0955	408	94.	501.8	33.1 *	3	0810	675	85.	401.5	29.4
1	1145	142	90.	419.3	30.1 *	2	1000	409	94.	501.9	33.1 *	3	0815	676	84.	401.0	29.4
1	1150	143	90.	419.9	30.1 *	2	1005	410	94.	501.9	33.1 *	3	0820	677	84.	400.5	29.3
1	1155	144	90.	420.4	30.2 *	2	1010	411	94.	502.0	33.1 *	3	0825	678	84.	400.0	29.3
1	1200	145	90.	421.0	30.2 *	2	1015	412	94.	502.0	33.1 *	3	0830	679	84.	399.5	29.3
1	1205	146	90.	421.5	30.2 *	2	1020	413	94.	502.1	33.1 *	3	0835	680	84.	399.0	29.3
1	1210	147	90.	422.0	30.2 *	2	1025	414	94.	502.1	33.1 *	3	0840	681	83.	398.5	29.3
1	1215	148	90.	422.6	30.2 *	2	1030	415	94.	502.2	33.1 *	3	0845	682	83.	398.0	29.2
1	1220	149	90.	423.1	30.3 *	2	1035	416	94.	502.2	33.1 *	3	0850	683	83.	397.5	29.2
1	1225	150	90.	423.6	30.3 *	2	1040	417	94.	502.2	33.1 *	3	0855	684	83.	397.1	29.2
1	1230	151	90.	424.2	30.3 *	2	1045	418	94.	502.3	33.1 *	3	0900	685	83.	396.6	29.2
1	1235	152	90.	424.7	30.3 *	2	1050	419	94.	502.3	33.1 *	3	0905	686	83.	396.1	29.2
1	1240	153	90.	425.2	30.3 *	2	1055	420	94.	502.3	33.1 *	3	0910	687	82.	395.6	29.1
1	1245	154	90.	425.8	30.3 *	2	1100	421	94.	502.4	33.1 *	3	0915	688	82.	395.1	29.1
1	1250	155	91.	426.3	30.4 *	2	1105	422	94.	502.4	33.1 *	3	0920	689	82.	394.6	29.1
1	1255	156	91.	426.8	30.4 *	2	1110	423	94.	502.4	33.1 *	3	0925	690	82.	394.2	29.1
1	1300	157	91.	427.3	30.4 *	2	1115	424	94.	502.4	33.1 *	3	0930	691	82.	393.7	29.1
1	1305	158	91.	427.9	30.4 *	2	1120	425	94.	502.5	33.1 *	3	0935	692	81.	393.2	29.0

1	2105	254	93.	469.8	31.9	2	1920	521	93.	484.5	32.4	3	1735	788	66.	352.6	27.3		
1	2110	255	93.	470.2	31.9	2	1925	522	93.	484.0	32.4	3	1740	789	66.	352.2	27.3		
1	2115	256	93.	470.5	31.9	2	1930	523	93.	483.4	32.4	3	1745	790	66.	351.8	27.3		
1	2120	257	93.	470.9	32.0	2	1935	524	93.	482.8	32.4	3	1750	791	66.	351.5	27.3		
1	2125	258	93.	471.2	32.0	2	1940	525	93.	482.3	32.4	3	1755	792	66.	351.1	27.2		
1	2130	259	93.	471.6	32.0	2	1945	526	93.	481.7	32.3	3	1800	793	66.	350.7	27.2		
1	2135	260	93.	471.9	32.0	2	1950	527	93.	481.2	32.3	3	1805	794	66.	350.3	27.2		
1	2140	261	93.	472.2	32.0	2	1955	528	93.	480.6	32.3	3	1810	795	65.	350.0	27.2		
1	2145	262	93.	472.6	32.0	2	2000	529	93.	480.1	32.3	3	1815	796	65.	349.6	27.2		
1	2150	263	93.	472.9	32.0	2	2005	530	93.	479.5	32.3	3	1820	797	65.	349.2	27.2		
1	2155	264	93.	473.3	32.0	2	2010	531	93.	479.0	32.2	3	1825	798	65.	348.9	27.2		
1	2200	265	93.	473.6	32.1	2	2015	532	93.	478.4	32.2	3	1830	799	65.	348.5	27.1		
1	2205	266	93.	473.9	32.1	2	2020	533	93.	477.9	32.2	3	1835	800	65.	348.2	27.1		
1	2210	267	93.	474.2	32.1	2	2025	534	93.	477.3	32.2								

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	66.58-HR
(CFS)	(HR)					
		(CFS)				
94.	35.58		94.	94.	83.	83.
		(INCHES)	.084	.333	.818	.818
		(AC-FT)	47.	186.	457.	457.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	66.58-HR
(AC-FT)	(HR)					
503.	35.83		502.	492.	416.	416.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	66.58-HR
(FEET)	(HR)					
33.09	35.83		33.07	32.73	29.29	29.29

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = .97

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		2215	268	92.	465.8	31.8	2		2030	535	93.	468.4	31.9
1		0005	2	0.	.0	.0	1		2220	269	93.	466.1	31.8	2		2035	536	93.	467.8	31.9
1		0010	3	0.	.0	.0	1		2225	270	93.	466.5	31.8	2		2040	537	93.	467.3	31.8
1		0015	4	0.	.0	.0	1		2230	271	93.	466.8	31.8	2		2045	538	93.	466.7	31.8
1		0020	5	0.	.0	.0	1		2235	272	93.	467.1	31.8	2		2050	539	93.	466.2	31.8
1		0025	6	0.	.1	.0	1		2240	273	93.	467.4	31.8	2		2055	540	92.	465.6	31.8
1		0030	7	0.	.2	.1	1		2245	274	93.	467.7	31.8	2		2100	541	92.	465.1	31.8
1		0035	8	1.	.4	.1	1		2250	275	93.	468.1	31.9	2		2105	542	92.	464.5	31.7
1		0040	9	1.	.7	.2	1		2255	276	93.	468.4	31.9	2		2110	543	92.	464.0	31.7
1		0045	10	1.	.9	.3	1		2300	277	93.	468.7	31.9	2		2115	544	92.	463.4	31.7
1		0050	11	2.	1.2	.4	1		2305	278	93.	469.0	31.9	2		2120	545	92.	462.9	31.7
1		0055	12	2.	1.4	.5	1		2310	279	93.	469.3	31.9	2		2125	546	92.	462.3	31.7
1		0100	13	2.	1.6	.5	1		2315	280	93.	469.6	31.9	2		2130	547	92.	461.8	31.6
1		0105	14	3.	1.8	.6	1		2320	281	93.	469.9	31.9	2		2135	548	92.	461.2	31.6
1		0110	15	3.	2.0	.7	1		2325	282	93.	470.2	31.9	2		2140	549	92.	460.7	31.6
1		0115	16	3.	2.3	.8	1		2330	283	93.	470.5	31.9	2		2145	550	92.	460.1	31.6
1		0120	17	4.	2.7	.9	1		2335	284	93.	470.8	32.0	2		2150	551	92.	459.6	31.6
1		0125	18	4.	3.1	1.0	1		2340	285	93.	471.1	32.0	2		2155	552	92.	459.0	31.5
1		0130	19	5.	3.6	1.2	1		2345	286	93.	471.4	32.0	2		2200	553	92.	458.5	31.5
1		0135	20	6.	4.3	1.4	1		2350	287	93.	471.7	32.0	2		2205	554	92.	458.0	31.5
1		0140	21	7.	5.2	1.7	1		2355	288	93.	472.0	32.0	2		2210	555	92.	457.4	31.5
1		0145	22	9.	6.2	2.1	2		0000	289	93.	472.3	32.0	2		2215	556	92.	456.9	31.5
1		0150	23	10.	7.4	2.5	2		0005	290	93.	472.6	32.0	2		2220	557	92.	456.3	31.4
1		0155	24	12.	8.5	2.8	2		0010	291	93.	472.9	32.0	2		2225	558	92.	455.8	31.4
1		0200	25	13.	9.5	3.2	2		0015	292	93.	473.1	32.0	2		2230	559	92.	455.2	31.4
1		0205	26	15.	10.4	3.5	2		0020	293	93.	473.4	32.1	2		2235	560	92.	454.7	31.4
1		0210	27	16.	11.2	3.7	2		0025	294	93.	473.7	32.1	2		2240	561	92.	454.1	31.4
1		0215	28	17.	12.2	4.1	2		0030	295	93.	474.0	32.1	2		2245	562	92.	453.6	31.3
1		0220	29	19.	13.4	4.5	2		0035	296	93.	474.3	32.1	2		2250	563	92.	453.0	31.3
1		0225	30	21.	14.9	5.0	2		0040	297	93.	474.5	32.1	2		2255	564	92.	452.5	31.3
1		0230	31	22.	16.7	5.4	2		0045	298	93.	474.8	32.1	2		2300	565	92.	451.9	31.3
1		0235	32	22.	18.5	5.8	2		0050	299	93.	475.1	32.1	2		2305	566	92.	451.4	31.3
1		0240	33	23.	20.3	6.2	2		0055	300	93.	475.4	32.1	2		2310	567	92.	450.8	31.2
1		0245	34	24.	22.1	6.6	2		0100	301	93.	475.6	32.1	2		2315	568	92.	450.3	31.2
1		0250	35	25.	24.0	7.1	2		0105	302	93.	475.9	32.1	2		2320	569	92.	449.8	31.2
1		0255	36	25.	26.0	7.5	2		0110	303	93.	476.2	32.1	2		2325	570	92.	449.2	31.2
1		0300	37	26.	27.9	7.9	2		0115	304	93.	476.4	32.2	2		2330	571	92.	448.7	31.2
1		0305	38	27.	29.9	8.4	2		0120	305	93.	476.7	32.2	2		2335	572	92.	448.1	31.1
1		0310	39	28.	32.5	9.0	2		0125	306	93.	476.9	32.2	2		2340	573	92.	447.6	31.1
1		0315	40	30.	36.6	9.9	2		0130	307	93.	477.2	32.2	2		2345	574	92.	447.0	31.1
1		0320	41	31.	43.4	10.6	2		0135	308	93.	477.4	32.2	2		2350	575	92.	446.5	31.1
1		0325	42	32.	54.7	11.7	2		0140	309	93.	477.7	32.2	2		2355	576	91.	445.9	31.1
1		0330	43	35.	72.3	13.3	2		0145	310	93.	478.0	32.2	3		0000	577	91.	445.4	31.0
1		0335	44	37.	96.0	15.4	2		0150	311	93.	478.2	32.2	3		0005	578	91.	444.8	31.0
1		0340	45	39.	122.8	17.1	2		0155	312	93.	478.4	32.2	3		0010	579	91.	444.3	31.0
1		0345	46	41.	149.3	18.7	2		0200	313	93.	478.7	32.2	3		0015	580	91.	443.8	31.0
1		0350	47	42.	173.1	20.1	2		0205	314	93.	478.9	32.2	3		0020	581	91.	443.2	31.0
1		0355	48	43.	193.1	20.9	2		0210	315	93.	479.2	32.3	3		0025	582	91.	442.7	31.0

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1	1155 144	88.	411.4	29.8 *	2	1010 411	94.	493.4	32.8 *	3	0825 678	81.	392.5	29.0
1	1200 145	88.	411.9	29.8 *	2	1015 412	94.	493.5	32.8 *	3	0830 679	81.	392.0	29.0
1	1205 146	89.	412.5	29.9 *	2	1020 413	94.	493.5	32.8 *	3	0835 680	81.	391.6	29.0
1	1210 147	89.	413.0	29.9 *	2	1025 414	94.	493.6	32.8 *	3	0840 681	81.	391.1	28.9
1	1215 148	89.	413.6	29.9 *	2	1030 415	94.	493.6	32.8 *	3	0845 682	81.	390.6	28.9
1	1220 149	89.	414.1	29.9 *	2	1035 416	94.	493.7	32.8 *	3	0850 683	80.	390.2	28.9
1	1225 150	90.	414.7	29.9 *	2	1040 417	94.	493.7	32.8 *	3	0855 684	80.	389.7	28.9
1	1230 151	90.	415.2	30.0 *	2	1045 418	94.	493.7	32.8 *	3	0900 685	80.	389.2	28.9
1	1235 152	90.	415.7	30.0 *	2	1050 419	94.	493.8	32.8 *	3	0905 686	80.	388.8	28.8
1	1240 153	90.	416.3	30.0 *	2	1055 420	94.	493.8	32.8 *	3	0910 687	80.	388.3	28.8
1	1245 154	90.	416.8	30.0 *	2	1100 421	94.	493.8	32.8 *	3	0915 688	79.	387.8	28.8
1	1250 155	90.	417.3	30.0 *	2	1105 422	94.	493.9	32.8 *	3	0920 689	79.	387.4	28.8
1	1255 156	90.	417.9	30.1 *	2	1110 423	94.	493.9	32.8 *	3	0925 690	79.	386.9	28.8
1	1300 157	90.	418.4	30.1 *	2	1115 424	94.	493.9	32.8 *	3	0930 691	79.	386.4	28.7
1	1305 158	90.	418.9	30.1 *	2	1120 425	94.	493.9	32.8 *	3	0935 692	79.	386.0	28.7
1	1310 159	90.	419.4	30.1 *	2	1125 426	94.	494.0	32.8 *	3	0940 693	79.	385.5	28.7
1	1315 160	90.	420.0	30.1 *	2	1130 427	94.	494.0	32.8 *	3	0945 694	78.	385.1	28.7
1	1320 161	90.	420.5	30.2 *	2	1135 428	94.	494.0	32.8 *	3	0950 695	78.	384.6	28.7
1	1325 162	90.	421.0	30.2 *	2	1140 429	94.	494.0	32.8 *	3	0955 696	78.	384.1	28.7
1	1330 163	90.	421.5	30.2 *	2	1145 430	94.	494.0	32.8 *	3	1000 697	78.	383.7	28.6
1	1335 164	90.	422.0	30.2 *	2	1150 431	94.	494.0	32.8 *	3	1005 698	78.	383.2	28.6
1	1340 165	90.	422.5	30.2 *	2	1155 432	94.	494.0	32.8 *	3	1010 699	78.	382.8	28.6
1	1345 166	90.	423.0	30.3 *	2	1200 433	94.	494.0	32.8 *	3	1015 700	77.	382.3	28.6
1	1350 167	90.	423.5	30.3 *	2	1205 434	94.	494.0	32.8 *	3	1020 701	77.	381.9	28.6
1	1355 168	90.	424.0	30.3 *	2	1210 435	94.	494.0	32.8 *	3	1025 702	77.	381.4	28.5
1	1400 169	90.	424.5	30.3 *	2	1215 436	94.	494.0	32.8 *	3	1030 703	77.	381.0	28.5
1	1405 170	90.	425.1	30.3 *	2	1220 437	94.	494.0	32.8 *	3	1035 704	77.	380.5	28.5
1	1410 171	90.	425.6	30.3 *	2	1225 438	94.	494.0	32.8 *	3	1040 705	77.	380.1	28.5
1	1415 172	91.	426.1	30.4 *	2	1230 439	94.	493.9	32.8 *	3	1045 706	76.	379.7	28.5
1	1420 173	91.	426.5	30.4 *	2	1235 440	94.	493.9	32.8 *	3	1050 707	76.	379.2	28.4
1	1425 174	91.	427.0	30.4 *	2	1240 441	94.	493.9	32.8 *	3	1055 708	76.	378.8	28.4
1	1430 175	91.	427.5	30.4 *	2	1245 442	94.	493.9	32.8 *	3	1100 709	76.	378.3	28.4
1	1435 176	91.	428.0	30.4 *	2	1250 443	94.	493.9	32.8 *	3	1105 710	76.	377.9	28.4
1	1440 177	91.	428.5	30.4 *	2	1255 444	94.	493.8	32.8 *	3	1110 711	76.	377.5	28.4
1	1445 178	91.	429.0	30.5 *	2	1300 445	94.	493.8	32.8 *	3	1115 712	75.	377.0	28.3
1	1450 179	91.	429.5	30.5 *	2	1305 446	94.	493.8	32.8 *	3	1120 713	75.	376.6	28.3
1	1455 180	91.	430.0	30.5 *	2	1310 447	94.	493.7	32.8 *	3	1125 714	75.	376.1	28.3
1	1500 181	91.	430.5	30.5 *	2	1315 448	94.	493.7	32.8 *	3	1130 715	75.	375.7	28.3
1	1505 182	91.	430.9	30.5 *	2	1320 449	94.	493.6	32.8 *	3	1135 716	75.	375.3	28.3
1	1510 183	91.	431.4	30.6 *	2	1325 450	94.	493.6	32.8 *	3	1140 717	75.	374.9	28.3
1	1515 184	91.	431.9	30.6 *	2	1330 451	94.	493.6	32.8 *	3	1145 718	74.	374.4	28.2
1	1520 185	91.	432.4	30.6 *	2	1335 452	94.	493.5	32.8 *	3	1150 719	74.	374.0	28.2
1	1525 186	91.	432.9	30.6 *	2	1340 453	94.	493.5	32.8 *	3	1155 720	74.	373.6	28.2
1	1530 187	91.	433.3	30.6 *	2	1345 454	94.	493.4	32.8 *	3	1200 721	74.	373.1	28.2
1	1535 188	91.	433.8	30.6 *	2	1350 455	94.	493.3	32.8 *	3	1205 722	74.	372.7	28.2
1	1540 189	91.	434.3	30.7 *	2	1355 456	94.	493.3	32.8 *	3	1210 723	74.	372.3	28.1
1	1545 190	91.	434.7	30.7 *	2	1400 457	94.	493.2	32.8 *	3	1215 724	74.	371.9	28.1
1	1550 191	91.	435.2	30.7 *	2	1405 458	94.	493.2	32.8 *	3	1220 725	73.	371.4	28.1
1	1555 192	91.	435.7	30.7 *	2	1410 459	94.	493.1	32.8 *	3	1225 726	73.	371.0	28.1
1	1600 193	91.	436.1	30.7 *	2	1415 460	94.	493.0	32.8 *	3	1230 727	73.	370.6	28.1
1	1605 194	91.	436.6	30.7 *	2	1420 461	94.	492.9	32.7 *	3	1235 728	73.	370.2	28.1
1	1610 195	91.	437.1	30.8 *	2	1425 462	94.	492.9	32.7 *	3	1240 729	73.	369.8	28.0
1	1615 196	91.	437.5	30.8 *	2	1430 463	94.	492.8	32.7 *	3	1245 730	73.	369.3	28.0
1	1620 197	91.	438.0	30.8 *	2	1435 464	94.	492.7	32.7 *	3	1250 731	72.	368.9	28.0
1	1625 198	91.	438.4	30.8 *	2	1440 465	94.	492.6	32.7 *	3	1255 732	72.	368.5	28.0
1	1630 199	91.	438.9	30.8 *	2	1445 466	94.	492.5	32.7 *	3	1300 733	72.	368.1	28.0
1	1635 200	91.	439.3	30.8 *	2	1450 467	94.	492.4	32.7 *	3	1305 734	72.	367.7	28.0
1	1640 201	91.	439.8	30.8 *	2	1455 468	94.	492.3	32.7 *	3	1310 735	72.	367.3	27.9
1	1645 202	91.	440.2	30.9 *	2	1500 469	94.	492.2	32.7 *	3	1315 736	72.	366.9	27.9
1	1650 203	91.	440.7	30.9 *	2	1505 470	94.	492.0	32.7 *	3	1320 737	72.	366.4	27.9
1	1655 204	91.	441.1	30.9 *	2	1510 471	94.	491.9	32.7 *	3	1325 738	71.	366.0	27.9
1	1700 205	91.	441.5	30.9 *	2	1515 472	94.	491.8	32.7 *	3	1330 739	71.	365.6	27.9
1	1705 206	91.	442.0	30.9 *	2	1520 473	94.	491.7	32.7 *	3	1335 740	71.	365.2	27.8
1	1710 207	91.	442.4	30.9 *	2	1525 474	94.	491.5	32.7 *	3	1340 741	71.	364.8	27.8
1	1715 208	91.	442.9	31.0 *	2	1530 475	94.	491.4	32.7 *	3	1345 742	71.	364.4	27.8
1	1720 209	91.	443.3	31.0 *	2	1535 476	94.	491.2	32.7 *	3	1350 743	71.	364.0	27.8
1	1725 210	91.	443.7	31.0 *	2	1540 477	94.	491.1	32.7 *	3	1355 744	70.	363.6	27.8
1	1730 211	91.	444.2	31.0 *	2	1545 478	94.	490.9	32.7 *	3	1400 745	70.	363.2	27.8
1	1735 212	91.	444.6	31.0 *	2	1550 479	94.	490.8	32.7 *	3	1405 746	70.	362.8	27.7
1	1740 213	91.	445.0	31.0 *	2	1555 480	94.	490.6	32.7 *	3	1410 747	70.	362.4	27.7
1	1745 214	91.	445.4	31.1 *	2	1600 481	94.	490.5	32.7 *	3	1415 748	70.	362.0	27.7
1	1750 215	91.	445.9	31.1 *	2	1605 482	94.	490.3	32.7 *	3	1420 749	70.	361.6	27.7
1	1755 216	92.	446.3	31.1 *	2	1610 483	94.	490.1	32.6 *	3	1425 750	70.	361.2	27.7
1	1800 217	92.	446.7	31.1 *	2	1615 484	94.	489.9	32.6 *	3	1430 751	69.	360.8	27.7
1	1805 218	92.	447.1	31.1 *	2	1620 485	94.	489.8	32.6 *	3	1435 752	69.	360.4	27.6
1	1810 219	92.	447.5	31.1 *	2	1625 486	94.	489.6	32.6 *	3	1440 753	69.	360.0	27.6
1	1815 220	92.	448.0	31.1 *	2	1630 487	94.	489.4	32.6 *	3	1445 754	69.	359.6	27.6
1	1820 221	92.	448.4	31.2 *	2	1635 488	94.	489.2	32.6 *	3	1450 755	69.	359.2	27.6
1	1825 222	92.	448.8	31.2 *	2	1640 489	94.	489.0	32.6 *	3	1455 756	69.	358.8	27.6
1	1830 223	92.	449.2	31.2 *	2	1645 490	94.	488.8	32.6 *	3	1500 757	69.	358.4	27.6
1	1835 224	92.	449.6	31.2 *	2	1650 491	94.	488.5	32.6 *	3	1505 758	68.	358.1	27.5
1	1840 225	92.	450.0	31.2 *	2	1655 492	94.	488.3	32.6 *	3	1510 759	68.	357.7	27.5
1	1845 226	92.	450.4	31.2 *	2	1700 493	94.	488.0	32.6 *	3	1515 760	68.	357.3	27.5
1	1850 227	92.	450.8	31.2 *	2	1705 494	94.	487.7	32.6 *	3	1520 761	68.	356.9	27.5
1	1855 228	92.	451.2	31.3 *	2	1710 495	94.	487.4	32.6 *	3	1525 762	68.	356.5	27.5
1	1900 229	92.	451.6	31.3 *	2	1715 496	94.	487.1	32.5 *	3	1530 763	68.	356.1	27.5
1	1905 230	92.	452.0	31.3 *	2	1720 497	94.	486.8	32.5 *	3	1535 764	68.	355.7	27.4
1	1910 231	92.	452.4	31.3 *	2	1725 498	94.	486.5	32.5 *	3	1540 765	67.	355.4	27.4
1	1915 232	92.	452.8	31.3 *	2	1730 499	94.	486.2	32.5 *	3	1545 766	67.	355.0	27.4
1	1920 233	92.	453.2	31.3 *	2	1735 500	93.	485.9	32.5 *	3	1550 767	67.	354.6	27.4
1	1925 234	92.	453.6	31.3 *	2	1740 501	93.	485.5	32.5 *	3	1555 768	67.	354.2	27.4
1	1930 235	92.	454.0	31.4 *	2	1745 502	93.	485.2	32.5 *	3	1600 769	67.	353.8	27.4
1	1935 236	92.	454.4	31.4 *	2	1750 503	93.	484.8	32.5 *	3	1605 770	67.	353.5	27.4
1	1940 237	92.	454.8	31.4 *	2	1755 504	93.	484.4	32.4 *	3	1610 771	67.	353.1	27.3
1	1945 238	92.	455.1	31.4 *	2	1800 505	93.	484.0	32.4 *	3	1615 772	66.	352.7	27.3

1	1950 239	92.	455.5	31.4	2	1805 506	93.	483.7	32.4	3	1620 773	66.	352.3	27.3
1	1955 240	92.	455.9	31.4	2	1810 507	93.	483.2	32.4	3	1625 774	66.	352.0	27.3
1	2000 241	92.	456.3	31.4	2	1815 508	93.	482.8	32.4	3	1630 775	66.	351.6	27.3
1	2005 242	92.	456.7	31.5	2	1820 509	93.	482.4	32.4	3	1635 776	66.	351.2	27.3
1	2010 243	92.	457.0	31.5	2	1825 510	93.	481.9	32.4	3	1640 777	66.	350.8	27.2
1	2015 244	92.	457.4	31.5	2	1830 511	93.	481.4	32.3	3	1645 778	66.	350.5	27.2
1	2020 245	92.	457.8	31.5	2	1835 512	93.	480.9	32.3	3	1650 779	65.	350.1	27.2
1	2025 246	92.	458.1	31.5	2	1840 513	93.	480.4	32.3	3	1655 780	65.	349.7	27.2
1	2030 247	92.	458.5	31.5	2	1845 514	93.	479.9	32.3	3	1700 781	65.	349.4	27.2
1	2035 248	92.	458.9	31.5	2	1850 515	93.	479.3	32.3	3	1705 782	65.	349.0	27.2
1	2040 249	92.	459.2	31.5	2	1855 516	93.	478.8	32.2	3	1710 783	65.	348.6	27.1
1	2045 250	92.	459.6	31.6	2	1900 517	93.	478.3	32.2	3	1715 784	65.	348.3	27.1
1	2050 251	92.	460.0	31.6	2	1905 518	93.	477.7	32.2	3	1720 785	65.	347.9	27.1
1	2055 252	92.	460.3	31.6	2	1910 519	93.	477.2	32.2	3	1725 786	64.	347.5	27.1
1	2100 253	92.	460.7	31.6	2	1915 520	93.	476.6	32.2	3	1730 787	64.	347.2	27.1
1	2105 254	92.	461.0	31.6	2	1920 521	93.	476.1	32.1	3	1735 788	64.	346.8	27.1
1	2110 255	92.	461.4	31.6	2	1925 522	93.	475.5	32.1	3	1740 789	64.	346.5	27.1
1	2115 256	92.	461.7	31.6	2	1930 523	93.	475.0	32.1	3	1745 790	64.	346.1	27.0
1	2120 257	92.	462.1	31.6	2	1935 524	93.	474.4	32.1	3	1750 791	64.	345.7	27.0
1	2125 258	92.	462.4	31.7	2	1940 525	93.	473.9	32.1	3	1755 792	64.	345.4	27.0
1	2130 259	92.	462.8	31.7	2	1945 526	93.	473.3	32.0	3	1800 793	64.	345.0	27.0
1	2135 260	92.	463.1	31.7	2	1950 527	93.	472.8	32.0	3	1805 794	63.	344.7	27.0
1	2140 261	92.	463.5	31.7	2	1955 528	93.	472.2	32.0	3	1810 795	63.	344.3	27.0
1	2145 262	92.	463.8	31.7	2	2000 529	93.	471.7	32.0	3	1815 796	63.	344.0	26.9
1	2150 263	92.	464.1	31.7	2	2005 530	93.	471.1	32.0	3	1820 797	63.	343.6	26.9
1	2155 264	92.	464.5	31.7	2	2010 531	93.	470.6	31.9	3	1825 798	63.	343.3	26.9
1	2200 265	92.	464.8	31.7	2	2015 532	93.	470.0	31.9	3	1830 799	63.	342.9	26.9
1	2205 266	92.	465.1	31.8	2	2020 533	93.	469.5	31.9	3	1835 800	63.	342.6	26.9
1	2210 267	92.	465.5	31.8	2	2025 534	93.	468.9	31.9					

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	66.58-HR
(CFS)	(HR)					
		(CFS)				
94.	35.67		94.	93.	82.	82.
		(INCHES)	.083	.332	.807	.807
		(AC-FT)	47.	185.	451.	451.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	66.58-HR
(AC-FT)	(HR)				
494.	35.92	493.	484.	409.	409.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	66.58-HR
(FEET)	(HR)				
32.79	35.92	32.77	32.42	28.99	28.99

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = .95

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		2215	268	92.	450.7	31.2	2		2030	535	92.	454.2	31.4
1		0005	2	0.	.0	.0	1		2220	269	92.	451.1	31.3	2		2035	536	92.	453.6	31.3
1		0010	3	0.	.0	.0	1		2225	270	92.	451.4	31.3	2		2040	537	92.	453.1	31.3
1		0015	4	0.	.0	.0	1		2230	271	92.	451.7	31.3	2		2045	538	92.	452.5	31.3
1		0020	5	0.	.0	.0	1		2235	272	92.	452.0	31.3	2		2050	539	92.	452.0	31.3
1		0025	6	0.	.0	.0	1		2240	273	92.	452.4	31.3	2		2055	540	92.	451.4	31.3
1		0030	7	0.	.1	.0	1		2245	274	92.	452.7	31.3	2		2100	541	92.	450.9	31.2
1		0035	8	0.	.3	.1	1		2250	275	92.	453.0	31.3	2		2105	542	92.	450.3	31.2
1		0040	9	1.	.6	.2	1		2255	276	92.	453.3	31.3	2		2110	543	92.	449.8	31.2
1		0045	10	1.	.8	.3	1		2300	277	92.	453.6	31.3	2		2115	544	92.	449.3	31.2
1		0050	11	1.	1.0	.3	1		2305	278	92.	453.9	31.4	2		2120	545	92.	448.7	31.2
1		0055	12	2.	1.2	.4	1		2310	279	92.	454.2	31.4	2		2125	546	92.	448.2	31.1
1		0100	13	2.	1.4	.5	1		2315	280	92.	454.6	31.4	2		2130	547	92.	447.6	31.1
1		0105	14	2.	1.6	.5	1		2320	281	92.	454.9	31.4	2		2135	548	92.	447.1	31.1
1		0110	15	3.	1.8	.6	1		2325	282	92.	455.2	31.4	2		2140	549	92.	446.5	31.1
1		0115	16	3.	2.1	.7	1		2330	283	92.	455.5	31.4	2		2145	550	91.	446.0	31.1
1		0120	17	3.	2.4	.8	1		2335	284	92.	455.8	31.4	2		2150	551	91.	445.4	31.1
1		0125	18	4.	2.8	.9	1		2340	285	92.	456.1	31.4	2		2155	552	91.	444.9	31.0
1		0130	19	5.	3.3	1.1	1		2345	286	92.	456.4	31.4	2		2200	553	91.	444.3	31.0
1		0135	20	6.	3.9	1.3	1		2350	287	92.	456.7	31.5	2		2205	554	91.	443.8	31.0
1		0140	21	7.	4.8	1.6	1		2355	288	92.	457.0	31.5	2		2210	555	91.	443.2	31.0
1		0145	22	8.	5.7	1.9	2		0000	289	92.	457.3	31.5	2		2215	556	91.	442.7	31.0
1		0150	23	9.	6.8	2.3	2		0005	290	92.	457.6	31.5	2		2220	557	91.	442.2	30.9
1		0155	24	11.	7.8	2.6	2		0010	291	92.	457.8	31.5	2		2225	558	91.	441.6	30.9
1		0200	25	12.	8.8	2.9	2		0015	292	92.	458.1	31.5	2		2230	559	91.	441.1	30.9
1		0205	26	13.	9.6	3.2	2		0020	293	92.	458.4	31.5	2		2235	560	91.	440.5	30.9
1		0210	27	15.	10.4	3.5	2		0025	294	92.	458.7	31.5	2		2240	561	91.	440.0	30.9
1		0215	28	16.	11.4	3.8	2		0030	295	92.	459.0	31.5	2		2245	562	91.	439.4	30.8
1		0220	29	18.	12.5	4.2	2		0035	296	92.	459.3	31.5	2		2250	563	91.	438.9	30.8
1		0225	30	20.	14.0	4.7	2		0040	297	92.	459.5	31.6	2		2255	564	91.	438.3	30.8
1		0230	31	21.	15.7	5.2	2		0045	298	92.	459.8	31.6	2		2300	565	91.	437.8	30.8
1		0235	32	22.	17.4	5.5	2		0050	299	92.	460.1	31.6	2		2305	566	91.	437.3	30.8
1		0240	33	23.	19.0	5.9	2		0055	300	92.	460.4	31.6	2		2310	567	91.	436.7	30.7

1	0245	34	23.	20.8	6.3	*	2	0100	301	92.	460.6	31.6	*	2	2315	568	91.	436.2	30.7
1	0250	35	24.	22.7	6.7	*	2	0105	302	92.	460.9	31.6	*	2	2320	569	91.	435.6	30.7
1	0255	36	25.	24.6	7.2	*	2	0110	303	92.	461.2	31.6	*	2	2325	570	91.	435.1	30.7
1	0300	37	26.	26.4	7.6	*	2	0115	304	92.	461.4	31.6	*	2	2330	571	91.	434.5	30.7
1	0305	38	26.	28.3	8.0	*	2	0120	305	92.	461.7	31.6	*	2	2335	572	91.	434.0	30.6
1	0310	39	27.	30.9	8.6	*	2	0125	306	92.	462.0	31.6	*	2	2340	573	91.	433.5	30.6
1	0315	40	29.	34.8	9.5	*	2	0130	307	92.	462.2	31.7	*	2	2345	574	91.	432.9	30.6
1	0320	41	31.	41.3	10.4	*	2	0135	308	92.	462.5	31.7	*	2	2350	575	91.	432.4	30.6
1	0325	42	32.	52.3	11.4	*	2	0140	309	92.	462.7	31.7	*	2	2355	576	91.	431.8	30.6
1	0330	43	34.	69.3	13.0	*	2	0145	310	92.	463.0	31.7	*	3	0000	577	91.	431.3	30.5
1	0335	44	37.	92.3	15.1	*	2	0150	311	92.	463.3	31.7	*	3	0005	578	91.	430.8	30.5
1	0340	45	39.	118.4	16.8	*	2	0155	312	92.	463.5	31.7	*	3	0010	579	91.	430.2	30.5
1	0345	46	40.	144.1	18.4	*	2	0200	313	92.	463.7	31.7	*	3	0015	580	91.	429.7	30.5
1	0350	47	42.	167.3	19.8	*	2	0205	314	92.	464.0	31.7	*	3	0020	581	91.	429.1	30.5
1	0355	48	43.	186.7	20.7	*	2	0210	315	92.	464.2	31.7	*	3	0025	582	91.	428.6	30.4
1	0400	49	43.	202.5	21.3	*	2	0215	316	92.	464.5	31.7	*	3	0030	583	91.	428.1	30.4
1	0405	50	43.	215.3	21.8	*	2	0220	317	92.	464.7	31.7	*	3	0035	584	91.	427.5	30.4
1	0410	51	44.	225.8	22.2	*	2	0225	318	92.	465.0	31.7	*	3	0040	585	91.	427.0	30.4
1	0415	52	44.	234.2	22.5	*	2	0230	319	92.	465.2	31.8	*	3	0045	586	91.	426.4	30.4
1	0420	53	44.	241.0	22.8	*	2	0235	320	92.	465.4	31.8	*	3	0050	587	90.	425.9	30.4
1	0425	54	44.	246.9	23.0	*	2	0240	321	92.	465.7	31.8	*	3	0055	588	90.	425.4	30.3
1	0430	55	45.	252.6	23.2	*	2	0245	322	92.	465.9	31.8	*	3	0100	589	90.	424.8	30.3
1	0435	56	45.	258.5	23.5	*	2	0250	323	93.	466.1	31.8	*	3	0105	590	90.	424.3	30.3
1	0440	57	45.	265.1	23.7	*	2	0255	324	93.	466.4	31.8	*	3	0110	591	90.	423.7	30.3
1	0445	58	45.	272.1	24.0	*	2	0300	325	93.	466.6	31.8	*	3	0115	592	90.	423.2	30.3
1	0450	59	45.	279.2	24.3	*	2	0305	326	93.	466.8	31.8	*	3	0120	593	90.	422.7	30.2
1	0455	60	46.	286.5	24.5	*	2	0310	327	93.	467.0	31.8	*	3	0125	594	90.	422.1	30.2
1	0500	61	46.	293.6	24.8	*	2	0315	328	93.	467.3	31.8	*	3	0130	595	90.	421.6	30.2
1	0505	62	47.	300.2	25.1	*	2	0320	329	93.	467.5	31.8	*	3	0135	596	90.	421.0	30.2
1	0510	63	49.	305.8	25.3	*	2	0325	330	93.	467.7	31.8	*	3	0140	597	90.	420.5	30.2
1	0515	64	51.	310.6	25.5	*	2	0330	331	93.	467.9	31.9	*	3	0145	598	90.	420.0	30.1
1	0520	65	52.	314.5	25.7	*	2	0335	332	93.	468.1	31.9	*	3	0150	599	90.	419.4	30.1
1	0525	66	53.	317.8	25.8	*	2	0340	333	93.	468.3	31.9	*	3	0155	600	90.	418.9	30.1
1	0530	67	55.	321.0	26.0	*	2	0345	334	93.	468.5	31.9	*	3	0200	601	90.	418.4	30.1
1	0535	68	56.	324.4	26.1	*	2	0350	335	93.	468.8	31.9	*	3	0205	602	90.	417.8	30.1
1	0540	69	57.	328.3	26.3	*	2	0355	336	93.	469.0	31.9	*	3	0210	603	90.	417.3	30.0
1	0545	70	59.	332.0	26.4	*	2	0400	337	93.	469.2	31.9	*	3	0215	604	90.	416.7	30.0
1	0550	71	60.	335.4	26.6	*	2	0405	338	93.	469.4	31.9	*	3	0220	605	90.	416.2	30.0
1	0555	72	61.	338.4	26.7	*	2	0410	339	93.	469.6	31.9	*	3	0225	606	90.	415.7	30.0
1	0600	73	62.	340.9	26.8	*	2	0415	340	93.	469.8	31.9	*	3	0230	607	90.	415.1	30.0
1	0605	74	63.	343.0	26.9	*	2	0420	341	93.	470.0	31.9	*	3	0235	608	89.	414.6	29.9
1	0610	75	63.	344.8	27.0	*	2	0425	342	93.	470.2	31.9	*	3	0240	609	89.	414.1	29.9
1	0615	76	64.	346.3	27.0	*	2	0430	343	93.	470.3	31.9	*	3	0245	610	89.	413.5	29.9
1	0620	77	64.	347.5	27.1	*	2	0435	344	93.	470.5	31.9	*	3	0250	611	89.	413.0	29.9
1	0625	78	65.	348.5	27.1	*	2	0440	345	93.	470.7	32.0	*	3	0255	612	89.	412.5	29.9
1	0630	79	65.	349.5	27.2	*	2	0445	346	93.	470.9	32.0	*	3	0300	613	88.	411.9	29.8
1	0635	80	66.	350.4	27.2	*	2	0450	347	93.	471.1	32.0	*	3	0305	614	88.	411.4	29.8
1	0640	81	66.	351.2	27.3	*	2	0455	348	93.	471.3	32.0	*	3	0310	615	88.	410.9	29.8
1	0645	82	66.	352.1	27.3	*	2	0500	349	93.	471.5	32.0	*	3	0315	616	88.	410.4	29.8
1	0650	83	66.	352.9	27.3	*	2	0505	350	93.	471.6	32.0	*	3	0320	617	88.	409.9	29.7
1	0655	84	67.	353.7	27.4	*	2	0510	351	93.	471.8	32.0	*	3	0325	618	88.	409.3	29.7
1	0700	85	67.	354.5	27.4	*	2	0515	352	93.	472.0	32.0	*	3	0330	619	87.	408.8	29.7
1	0705	86	67.	355.3	27.4	*	2	0520	353	93.	472.2	32.0	*	3	0335	620	87.	408.3	29.7
1	0710	87	68.	356.0	27.5	*	2	0525	354	93.	472.3	32.0	*	3	0340	621	87.	407.8	29.7
1	0715	88	68.	356.8	27.5	*	2	0530	355	93.	472.5	32.0	*	3	0345	622	87.	407.3	29.6
1	0720	89	68.	357.6	27.5	*	2	0535	356	93.	472.7	32.0	*	3	0350	623	87.	406.8	29.6
1	0725	90	69.	358.4	27.6	*	2	0540	357	93.	472.8	32.0	*	3	0355	624	86.	406.2	29.6
1	0730	91	69.	359.1	27.6	*	2	0545	358	93.	473.0	32.0	*	3	0400	625	86.	405.7	29.6
1	0735	92	69.	359.9	27.6	*	2	0550	359	93.	473.1	32.0	*	3	0405	626	86.	405.2	29.5
1	0740	93	69.	360.7	27.7	*	2	0555	360	93.	473.3	32.0	*	3	0410	627	86.	404.7	29.5
1	0745	94	70.	361.4	27.7	*	2	0600	361	93.	473.5	32.1	*	3	0415	628	86.	404.2	29.5
1	0750	95	70.	362.2	27.7	*	2	0605	362	93.	473.6	32.1	*	3	0420	629	85.	403.7	29.5
1	0755	96	70.	362.9	27.8	*	2	0610	363	93.	473.8	32.1	*	3	0425	630	85.	403.2	29.5
1	0800	97	70.	363.7	27.8	*	2	0615	364	93.	473.9	32.1	*	3	0430	631	85.	402.7	29.4
1	0805	98	71.	364.4	27.8	*	2	0620	365	93.	474.1	32.1	*	3	0435	632	85.	402.2	29.4
1	0810	99	71.	365.2	27.8	*	2	0625	366	93.	474.2	32.1	*	3	0440	633	85.	401.7	29.4
1	0815	100	71.	365.9	27.9	*	2	0630	367	93.	474.4	32.1	*	3	0445	634	84.	401.2	29.4
1	0820	101	72.	366.6	27.9	*	2	0635	368	93.	474.5	32.1	*	3	0450	635	84.	400.7	29.4
1	0825	102	72.	367.4	27.9	*	2	0640	369	93.	474.7	32.1	*	3	0455	636	84.	400.2	29.3
1	0830	103	72.	368.1	28.0	*	2	0645	370	93.	474.8	32.1	*	3	0500	637	84.	399.7	29.3
1	0835	104	72.	368.8	28.0	*	2	0650	371	93.	474.9	32.1	*	3	0505	638	84.	399.2	29.3
1	0840	105	73.	369.5	28.0	*	2	0655	372	93.	475.1	32.1	*	3	0510	639	84.	398.7	29.3
1	0845	106	73.	370.2	28.1	*	2	0700	373	93.	475.2	32.1	*	3	0515	640	83.	398.2	29.2
1	0850	107	73.	371.0	28.1	*	2	0705	374	93.	475.3	32.1	*	3	0520	641	83.	397.7	29.2
1	0855	108	73.	371.7	28.1	*	2	0710	375	93.	475.5	32.1	*	3	0525	642	83.	397.2	29.2
1	0900	109	74.	372.4	28.2	*	2	0715	376	93.	475.6	32.1	*	3	0530	643	83.	396.7	29.2
1	0905	110	74.	373.1	28.2	*	2	0720	377	93.	475.7	32.1	*	3	0535	644	83.	396.3	29.2
1	0910	111	74.	373.8	28.2	*	2	0725	378	93.	475.8	32.1	*	3	0540	645	82.	395.8	29.1
1	0915	112	75.	374.5	28.2	*	2	0730	379	93.	476.0	32.1	*	3	0545	646	82.	395.3	29.1
1	0920	113	75.	375.2	28.3	*	2	0735	380	93.	476.1	32.1	*	3	0550	647	82.	394.8	29.1
1	0925	114	75.	375.9	28.3	*	2	0740	381	93.	476.2	32.2	*	3	0555	648	82.	394.3	29.1
1	0930	115	75.	376.5	28.3	*	2	0745	382	93.	476.3	32.2	*	3	0600	649	82.	393.8	29.1
1	0935	116	76.	377.2	28.4	*	2	0750	383	93.	476.4	32.2	*	3	0605	650	82.	393.4	29.0
1	0940	117	76.	377.9	28.4	*	2	0755	384	93.	476.5	32.2	*	3	0610	651	81.	392.9	29.0
1	0945	118	76.	378.6	28.4	*	2	0800	385	93.	476.7	32.2	*	3	0615	652	81.	392.4	29.0
1	0950	119	76.	379.3	28.4	*	2	0805	386	93.	476.8	32.2	*	3	0620	653	81.	391.9	29.0
1	0955	120	77.	379.9	28.5	*	2	0810	387	93.	476.9	32.2	*	3	0625	654	81.	391.4	29.0
1	1000	121	77.	380.6	28.5	*	2	0815	388	93.	477.0	32.2	*	3	0630	655	81.	391.0	28.9
1	1005	122	77.	381.3	28.5	*	2	0820	389	93.	477.1	32.2	*	3	0635	656	80.	390.5	28.9
1	1010	123	77.	381.9	28.6	*	2	0825	390	93.	477.2	32.2	*	3	0640	657	80.	390.0	28.9
1	1015	124	78.	382.6	28.6	*	2	0830	391	93.	477.3	32.2	*	3	0645	658	80.	389.6	28.9
1	1020	125	78.	383.2	28.6	*	2	0835	392	93.	477.4	32.2	*	3	0650	659	80.	389.1	28.9
1	1025	126	78.	383.9	28.6	*	2	0840	393	93.	477.5	32.2	*	3	0655	660	80.	388.6	28.8
1	1030	127	78.	384.5	28.7	*	2	0845	394	93.	477.5	32.2	*	3	0700	661	80.	388.2	28.8
1	1035	128	79.	385.2	28.7	*	2	0850	395	93.	477.6	32.2	*	3	0705	662	79.	387.7	28.8

1	1040 129	79.	385.8	28.7 *	2	0855 396	93.	477.7	32.2 *	3	0710 663	79.	387.2	28.8
1	1045 130	79.	386.5	28.7 *	2	0900 397	93.	477.8	32.2 *	3	0715 664	79.	386.8	28.8
1	1050 131	79.	387.1	28.8 *	2	0905 398	93.	477.9	32.2 *	3	0720 665	79.	386.3	28.7
1	1055 132	79.	387.7	28.8 *	2	0910 399	93.	478.0	32.2 *	3	0725 666	79.	385.8	28.7
1	1100 133	80.	388.4	28.8 *	2	0915 400	93.	478.0	32.2 *	3	0730 667	79.	385.4	28.7
1	1105 134	80.	389.0	28.9 *	2	0920 401	93.	478.1	32.2 *	3	0735 668	78.	384.9	28.7
1	1110 135	80.	389.6	28.9 *	2	0925 402	93.	478.2	32.2 *	3	0740 669	78.	384.5	28.7
1	1115 136	80.	390.3	28.9 *	2	0930 403	93.	478.3	32.2 *	3	0745 670	78.	384.0	28.6
1	1120 137	81.	390.9	28.9 *	2	0935 404	93.	478.3	32.2 *	3	0750 671	78.	383.5	28.6
1	1125 138	81.	391.5	29.0 *	2	0940 405	93.	478.4	32.2 *	3	0755 672	78.	383.1	28.6
1	1130 139	81.	392.1	29.0 *	2	0945 406	93.	478.5	32.2 *	3	0800 673	78.	382.6	28.6
1	1135 140	81.	392.7	29.0 *	2	0950 407	93.	478.5	32.2 *	3	0805 674	77.	382.2	28.6
1	1140 141	82.	393.3	29.0 *	2	0955 408	93.	478.6	32.2 *	3	0810 675	77.	381.7	28.5
1	1145 142	82.	393.9	29.1 *	2	1000 409	93.	478.7	32.2 *	3	0815 676	77.	381.3	28.5
1	1150 143	82.	394.5	29.1 *	2	1005 410	93.	478.7	32.2 *	3	0820 677	77.	380.8	28.5
1	1155 144	82.	395.1	29.1 *	2	1010 411	93.	478.8	32.2 *	3	0825 678	77.	380.4	28.5
1	1200 145	82.	395.7	29.1 *	2	1015 412	93.	478.8	32.2 *	3	0830 679	77.	379.9	28.5
1	1205 146	83.	396.3	29.2 *	2	1020 413	93.	478.9	32.2 *	3	0835 680	76.	379.5	28.5
1	1210 147	83.	396.9	29.2 *	2	1025 414	93.	478.9	32.2 *	3	0840 681	76.	379.1	28.4
1	1215 148	83.	397.5	29.2 *	2	1030 415	93.	479.0	32.2 *	3	0845 682	76.	378.6	28.4
1	1220 149	83.	398.1	29.2 *	2	1035 416	93.	479.0	32.3 *	3	0850 683	76.	378.2	28.4
1	1225 150	84.	398.6	29.3 *	2	1040 417	93.	479.1	32.3 *	3	0855 684	76.	377.7	28.4
1	1230 151	84.	399.2	29.3 *	2	1045 418	93.	479.1	32.3 *	3	0900 685	76.	377.3	28.4
1	1235 152	84.	399.8	29.3 *	2	1050 419	93.	479.2	32.3 *	3	0905 686	75.	376.9	28.3
1	1240 153	84.	400.4	29.3 *	2	1055 420	93.	479.2	32.3 *	3	0910 687	75.	376.4	28.3
1	1245 154	84.	400.9	29.4 *	2	1100 421	93.	479.2	32.3 *	3	0915 688	75.	376.0	28.3
1	1250 155	85.	401.5	29.4 *	2	1105 422	93.	479.3	32.3 *	3	0920 689	75.	375.5	28.3
1	1255 156	85.	402.0	29.4 *	2	1110 423	93.	479.3	32.3 *	3	0925 690	75.	375.1	28.3
1	1300 157	85.	402.6	29.4 *	2	1115 424	93.	479.3	32.3 *	3	0930 691	75.	374.7	28.2
1	1305 158	85.	403.2	29.5 *	2	1120 425	93.	479.3	32.3 *	3	0935 692	74.	374.3	28.2
1	1310 159	85.	403.7	29.5 *	2	1125 426	93.	479.4	32.3 *	3	0940 693	74.	373.8	28.2
1	1315 160	86.	404.3	29.5 *	2	1130 427	93.	479.4	32.3 *	3	0945 694	74.	373.4	28.2
1	1320 161	86.	404.8	29.5 *	2	1135 428	93.	479.4	32.3 *	3	0950 695	74.	373.0	28.2
1	1325 162	86.	405.3	29.5 *	2	1140 429	93.	479.4	32.3 *	3	0955 696	74.	372.5	28.2
1	1330 163	86.	405.9	29.6 *	2	1145 430	93.	479.4	32.3 *	3	1000 697	74.	372.1	28.1
1	1335 164	86.	406.4	29.6 *	2	1150 431	93.	479.4	32.3 *	3	1005 698	73.	371.7	28.1
1	1340 165	87.	407.0	29.6 *	2	1155 432	93.	479.4	32.3 *	3	1010 699	73.	371.3	28.1
1	1345 166	87.	407.5	29.6 *	2	1200 433	93.	479.4	32.3 *	3	1015 700	73.	370.8	28.1
1	1350 167	87.	408.0	29.7 *	2	1205 434	93.	479.4	32.3 *	3	1020 701	73.	370.4	28.1
1	1355 168	87.	408.5	29.7 *	2	1210 435	93.	479.4	32.3 *	3	1025 702	73.	370.0	28.1
1	1400 169	87.	409.1	29.7 *	2	1215 436	93.	479.4	32.3 *	3	1030 703	73.	369.6	28.0
1	1405 170	88.	409.6	29.7 *	2	1220 437	93.	479.4	32.3 *	3	1035 704	73.	369.2	28.0
1	1410 171	88.	410.1	29.8 *	2	1225 438	93.	479.4	32.3 *	3	1040 705	72.	368.7	28.0
1	1415 172	88.	410.6	29.8 *	2	1230 439	93.	479.4	32.3 *	3	1045 706	72.	368.3	28.0
1	1420 173	88.	411.1	29.8 *	2	1235 440	93.	479.4	32.3 *	3	1050 707	72.	367.9	28.0
1	1425 174	88.	411.6	29.8 *	2	1240 441	93.	479.3	32.3 *	3	1055 708	72.	367.5	27.9
1	1430 175	89.	412.1	29.8 *	2	1245 442	93.	479.3	32.3 *	3	1100 709	72.	367.1	27.9
1	1435 176	89.	412.6	29.9 *	2	1250 443	93.	479.3	32.3 *	3	1105 710	72.	366.7	27.9
1	1440 177	89.	413.1	29.9 *	2	1255 444	93.	479.3	32.3 *	3	1110 711	71.	366.3	27.9
1	1445 178	89.	413.6	29.9 *	2	1300 445	93.	479.2	32.3 *	3	1115 712	71.	365.8	27.9
1	1450 179	89.	414.1	29.9 *	2	1305 446	93.	479.2	32.3 *	3	1120 713	71.	365.4	27.9
1	1455 180	89.	414.6	29.9 *	2	1310 447	93.	479.2	32.3 *	3	1125 714	71.	365.0	27.8
1	1500 181	90.	415.1	30.0 *	2	1315 448	93.	479.1	32.3 *	3	1130 715	71.	364.6	27.8
1	1505 182	90.	415.6	30.0 *	2	1320 449	93.	479.1	32.3 *	3	1135 716	71.	364.2	27.8
1	1510 183	90.	416.1	30.0 *	2	1325 450	93.	479.1	32.3 *	3	1140 717	71.	363.8	27.8
1	1515 184	90.	416.6	30.0 *	2	1330 451	93.	479.0	32.3 *	3	1145 718	70.	363.4	27.8
1	1520 185	90.	417.1	30.0 *	2	1335 452	93.	479.0	32.2 *	3	1150 719	70.	363.0	27.8
1	1525 186	90.	417.5	30.1 *	2	1340 453	93.	478.9	32.2 *	3	1155 720	70.	362.6	27.7
1	1530 187	90.	418.0	30.1 *	2	1345 454	93.	478.9	32.2 *	3	1200 721	70.	362.2	27.7
1	1535 188	90.	418.5	30.1 *	2	1350 455	93.	478.8	32.2 *	3	1205 722	70.	361.8	27.7
1	1540 189	90.	419.0	30.1 *	2	1355 456	93.	478.8	32.2 *	3	1210 723	70.	361.4	27.7
1	1545 190	90.	419.4	30.1 *	2	1400 457	93.	478.7	32.2 *	3	1215 724	69.	361.0	27.7
1	1550 191	90.	419.9	30.1 *	2	1405 458	93.	478.7	32.2 *	3	1220 725	69.	360.6	27.7
1	1555 192	90.	420.4	30.2 *	2	1410 459	93.	478.6	32.2 *	3	1225 726	69.	360.2	27.6
1	1600 193	90.	420.8	30.2 *	2	1415 460	93.	478.5	32.2 *	3	1230 727	69.	359.8	27.6
1	1605 194	90.	421.3	30.2 *	2	1420 461	93.	478.4	32.2 *	3	1235 728	69.	359.4	27.6
1	1610 195	90.	421.8	30.2 *	2	1425 462	93.	478.4	32.2 *	3	1240 729	69.	359.0	27.6
1	1615 196	90.	422.2	30.2 *	2	1430 463	93.	478.3	32.2 *	3	1245 730	69.	358.6	27.6
1	1620 197	90.	422.7	30.2 *	2	1435 464	93.	478.2	32.2 *	3	1250 731	68.	358.2	27.6
1	1625 198	90.	423.1	30.3 *	2	1440 465	93.	478.1	32.2 *	3	1255 732	68.	357.8	27.5
1	1630 199	90.	423.6	30.3 *	2	1445 466	93.	478.0	32.2 *	3	1300 733	68.	357.5	27.5
1	1635 200	90.	424.0	30.3 *	2	1450 467	93.	477.9	32.2 *	3	1305 734	68.	357.1	27.5
1	1640 201	90.	424.5	30.3 *	2	1455 468	93.	477.8	32.2 *	3	1310 735	68.	356.7	27.5
1	1645 202	90.	424.9	30.3 *	2	1500 469	93.	477.7	32.2 *	3	1315 736	68.	356.3	27.5
1	1650 203	90.	425.4	30.3 *	2	1505 470	93.	477.6	32.2 *	3	1320 737	68.	355.9	27.5
1	1655 204	90.	425.8	30.4 *	2	1510 471	93.	477.4	32.2 *	3	1325 738	67.	355.5	27.4
1	1700 205	91.	426.3	30.4 *	2	1515 472	93.	477.3	32.2 *	3	1330 739	67.	355.1	27.4
1	1705 206	91.	426.7	30.4 *	2	1520 473	93.	477.2	32.2 *	3	1335 740	67.	354.8	27.4
1	1710 207	91.	427.2	30.4 *	2	1525 474	93.	477.1	32.2 *	3	1340 741	67.	354.4	27.4
1	1715 208	91.	427.6	30.4 *	2	1530 475	93.	476.9	32.2 *	3	1345 742	67.	354.0	27.4
1	1720 209	91.	428.0	30.4 *	2	1535 476	93.	476.8	32.2 *	3	1350 743	67.	353.6	27.4
1	1725 210	91.	428.5	30.4 *	2	1540 477	93.	476.6	32.2 *	3	1355 744	67.	353.2	27.3
1	1730 211	91.	428.9	30.5 *	2	1545 478	93.	476.5	32.2 *	3	1400 745	66.	352.9	27.3
1	1735 212	91.	429.3	30.5 *	2	1550 479	93.	476.3	32.2 *	3	1405 746	66.	352.5	27.3
1	1740 213	91.	429.8	30.5 *	2	1555 480	93.	476.2	32.1 *	3	1410 747	66.	352.1	27.3
1	1745 214	91.	430.2	30.5 *	2	1600 481	93.	476.0	32.1 *	3	1415 748	66.	351.7	27.3
1	1750 215	91.	430.6	30.5 *	2	1605 482	93.	475.9	32.1 *	3	1420 749	66.	351.4	27.3
1	1755 216	91.	431.1	30.5 *	2	1610 483	93.	475.7	32.1 *	3	1425 750	66.	351.0	27.2
1	1800 217	91.	431.5	30.6 *	2	1615 484	93.	475.5	32.1 *	3	1430 751	66.	350.6	27.2
1	1805 218	91.	431.9	30.6 *	2	1620 485	93.	475.3	32.1 *	3	1435 752	65.	350.2	27.2
1	1810 219	91.	432.3	30.6 *	2	1625 486	93.	475.2	32.1 *	3	1440 753	65.	349.9	27.2
1	1815 220	91.	432.7	30.6 *	2	1630 487	93.	475.0	32.1 *	3	1445 754	65.	349.5	27.2
1	1820 221	91.	433.2	30.6 *	2	1635 488	93.	474.8	32.1 *	3	1450 755	65.	349.1	27.2
1	1825 222	91.	433.6	30.6 *	2	1640 489	93.	474.6	32.1 *	3	1455 756	65.	348.8	27.2
1	1830 223	91.	434.0	30.6 *	2	1645 490	93.	474.4	32.1 *	3	1500 757	65.	348.4	27.1

1	1835	224	91.	434.4	30.7	*	2	1650	491	93.	474.1	32.1	*	3	1505	758	65.	348.0	27.1
1	1840	225	91.	434.8	30.7	*	2	1655	492	93.	473.9	32.1	*	3	1510	759	65.	347.7	27.1
1	1845	226	91.	435.2	30.7	*	2	1700	493	93.	473.6	32.1	*	3	1515	760	64.	347.3	27.1
1	1850	227	91.	435.6	30.7	*	2	1705	494	93.	473.4	32.0	*	3	1520	761	64.	346.9	27.1
1	1855	228	91.	436.0	30.7	*	2	1710	495	93.	473.1	32.0	*	3	1525	762	64.	346.6	27.1
1	1900	229	91.	436.4	30.7	*	2	1715	496	93.	472.8	32.0	*	3	1530	763	64.	346.2	27.0
1	1905	230	91.	436.8	30.7	*	2	1720	497	93.	472.5	32.0	*	3	1535	764	64.	345.9	27.0
1	1910	231	91.	437.2	30.8	*	2	1725	498	93.	472.2	32.0	*	3	1540	765	64.	345.5	27.0
1	1915	232	91.	437.6	30.8	*	2	1730	499	93.	471.8	32.0	*	3	1545	766	64.	345.1	27.0
1	1920	233	91.	438.0	30.8	*	2	1735	500	93.	471.5	32.0	*	3	1550	767	63.	344.8	27.0
1	1925	234	91.	438.4	30.8	*	2	1740	501	93.	471.2	32.0	*	3	1555	768	63.	344.4	27.0
1	1930	235	91.	438.8	30.8	*	2	1745	502	93.	470.8	32.0	*	3	1600	769	63.	344.1	27.0
1	1935	236	91.	439.2	30.8	*	2	1750	503	93.	470.5	31.9	*	3	1605	770	63.	343.7	26.9
1	1940	237	91.	439.6	30.8	*	2	1755	504	93.	470.1	31.9	*	3	1610	771	63.	343.4	26.9
1	1945	238	91.	440.0	30.9	*	2	1800	505	93.	469.7	31.9	*	3	1615	772	63.	343.0	26.9
1	1950	239	91.	440.4	30.9	*	2	1805	506	93.	469.3	31.9	*	3	1620	773	63.	342.7	26.9
1	1955	240	91.	440.7	30.9	*	2	1810	507	93.	468.9	31.9	*	3	1625	774	63.	342.3	26.9
1	2000	241	91.	441.1	30.9	*	2	1815	508	93.	468.5	31.9	*	3	1630	775	62.	342.0	26.9
1	2005	242	91.	441.5	30.9	*	2	1820	509	93.	468.1	31.9	*	3	1635	776	62.	341.6	26.8
1	2010	243	91.	441.9	30.9	*	2	1825	510	93.	467.6	31.8	*	3	1640	777	62.	341.3	26.8
1	2015	244	91.	442.2	30.9	*	2	1830	511	93.	467.1	31.8	*	3	1645	778	62.	340.9	26.8
1	2020	245	91.	442.6	31.0	*	2	1835	512	93.	466.6	31.8	*	3	1650	779	62.	340.6	26.8
1	2025	246	91.	443.0	31.0	*	2	1840	513	93.	466.1	31.8	*	3	1655	780	62.	340.2	26.8
1	2030	247	91.	443.4	31.0	*	2	1845	514	92.	465.6	31.8	*	3	1700	781	62.	339.9	26.8
1	2035	248	91.	443.7	31.0	*	2	1850	515	92.	465.1	31.8	*	3	1705	782	61.	339.5	26.8
1	2040	249	91.	444.1	31.0	*	2	1855	516	92.	464.5	31.7	*	3	1710	783	61.	339.2	26.7
1	2045	250	91.	444.5	31.0	*	2	1900	517	92.	464.0	31.7	*	3	1715	784	61.	338.8	26.7
1	2050	251	91.	444.8	31.0	*	2	1905	518	92.	463.5	31.7	*	3	1720	785	61.	338.5	26.7
1	2055	252	91.	445.2	31.0	*	2	1910	519	92.	462.9	31.7	*	3	1725	786	61.	338.2	26.7
1	2100	253	91.	445.5	31.1	*	2	1915	520	92.	462.4	31.7	*	3	1730	787	61.	337.8	26.7
1	2105	254	91.	445.9	31.1	*	2	1920	521	92.	461.8	31.6	*	3	1735	788	61.	337.5	26.7
1	2110	255	92.	446.3	31.1	*	2	1925	522	92.	461.3	31.6	*	3	1740	789	61.	337.1	26.7
1	2115	256	92.	446.6	31.1	*	2	1930	523	92.	460.8	31.6	*	3	1745	790	60.	336.8	26.6
1	2120	257	92.	447.0	31.1	*	2	1935	524	92.	460.2	31.6	*	3	1750	791	60.	336.5	26.6
1	2125	258	92.	447.3	31.1	*	2	1940	525	92.	459.7	31.6	*	3	1755	792	60.	336.1	26.6
1	2130	259	92.	447.7	31.1	*	2	1945	526	92.	459.1	31.5	*	3	1800	793	60.	335.8	26.6
1	2135	260	92.	448.0	31.1	*	2	1950	527	92.	458.6	31.5	*	3	1805	794	60.	335.5	26.6
1	2140	261	92.	448.4	31.2	*	2	1955	528	92.	458.0	31.5	*	3	1810	795	60.	335.1	26.6
1	2145	262	92.	448.7	31.2	*	2	2000	529	92.	457.5	31.5	*	3	1815	796	60.	334.8	26.6
1	2150	263	92.	449.0	31.2	*	2	2005	530	92.	456.9	31.5	*	3	1820	797	60.	334.5	26.5
1	2155	264	92.	449.4	31.2	*	2	2010	531	92.	456.4	31.4	*	3	1825	798	59.	334.1	26.5
1	2200	265	92.	449.7	31.2	*	2	2015	532	92.	455.8	31.4	*	3	1830	799	59.	333.8	26.5
1	2205	266	92.	450.1	31.2	*	2	2020	533	92.	455.3	31.4	*	3	1835	800	59.	333.5	26.5
1	2210	267	92.	450.4	31.2	*	2	2025	534	92.	454.7	31.4	*						

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	66.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 93.	35.75		93.	93.	80.	80.
		(INCHES)	.083	.329	.785	.785
		(AC-FT)	46.	184.	438.	438.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	66.58-HR
+ (AC-FT)	(HR)					
479.	36.00		479.	469.	395.	395.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	66.58-HR
+ (FEET)	(HR)					
32.27	36.00		32.25	31.90	28.47	28.47

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE		DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	.0	*	1	2215		268	91.	434.3	30.7	*	2	2030		535	91.	437.3	30.8
1	0005		2	0.	.0	.0	*	1	2220		269	91.	434.6	30.7	*	2	2035		536	91.	436.8	30.7
1	0010		3	0.	.0	.0	*	1	2225		270	91.	434.9	30.7	*	2	2040		537	91.	436.3	30.7
1	0015		4	0.	.0	.0	*	1	2230		271	91.	435.3	30.7	*	2	2045		538	91.	435.7	30.7
1	0020		5	0.	.0	.0	*	1	2235		272	91.	435.6	30.7	*	2	2050		539	91.	435.2	30.7
1	0025		6	0.	.0	.0	*	1	2240		273	91.	435.9	30.7	*	2	2055		540	91.	434.6	30.7
1	0030		7	0.	.1	.0	*	1	2245		274	91.	436.2	30.7	*	2	2100		541	91.	434.1	30.6
1	0035		8	0.	.3	.1	*	1	2250		275	91.	436.6	30.7	*	2	2105		542	91.	433.5	30.6
1	0040		9	1.	.5	.2	*	1	2255		276	91.	436.9	30.7	*	2	2110		543	91.	433.0	30.6
1	0045		10	1.	.7	.2	*	1	2300		277	91.	437.2	30.8	*	2	2115		544	91.	432.4	30.6
1	0050		11	1.	.9	.3	*	1	2305		278	91.	437.5	30.8	*	2	2120		545	91.	431.9	30.6
1	0055		12	2.	1.1	.4	*	1	2310		279	91.	437.8	30.8	*	2	2125		546	91.	431.4	30.5
1	0100		13	2.	1.3	.4	*	1	2315		280	91.	438.1	30.8	*	2	2130		547	91.	430.8	30.5
1	0105		14	2.	1.4	.5	*	1	2320		281	91.	438.4	30.8	*	2	2135		548	91.	430.3	30.5
1	0110		15	2.	1.6	.5	*	1	2325		282	91.	438.7	30.8	*	2	2140		549	91.	429.7	30.5
1	0115		16	3.	1.9	.6	*	1	2330		283	91.	439.0	30.8	*	2	2145		550	91.	429.2	30.5
1	0120		17	3.	2.2	.7	*	1	2335		284	91.	439.3	30.8	*	2	2150		551	91.	428.6	30.5
1	0125		18	4.	2.5	.8	*	1	2340		285	91.	439.6	30.8	*	2	2155		552	91.	428.1	30.4

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1	0810 99	46.	297.7	25.0 *	1	2205 266	44.	245.7	23.0 *	2	1200 433	43.	195.6	21.0
1	0815 100	46.	297.3	25.0 *	1	2210 267	44.	245.4	22.9 *	2	1205 434	43.	195.3	21.0
1	0820 101	46.	297.0	25.0 *	1	2215 268	44.	245.1	22.9 *	2	1210 435	43.	195.0	21.0
1	0825 102	46.	296.7	24.9 *	1	2220 269	44.	244.8	22.9 *	2	1215 436	43.	194.7	21.0
1	0830 103	46.	296.4	24.9 *	1	2225 270	44.	244.5	22.9 *	2	1220 437	43.	194.4	21.0
1	0835 104	46.	296.1	24.9 *	1	2230 271	44.	244.2	22.9 *	2	1225 438	43.	194.1	20.9
1	0840 105	46.	295.8	24.9 *	1	2235 272	44.	243.9	22.9 *	2	1230 439	43.	193.8	20.9
1	0845 106	46.	295.5	24.9 *	1	2240 273	44.	243.6	22.9 *	2	1235 440	43.	193.5	20.9
1	0850 107	46.	295.1	24.9 *	1	2245 274	44.	243.3	22.9 *	2	1240 441	43.	193.2	20.9
1	0855 108	46.	294.8	24.9 *	1	2250 275	44.	243.0	22.9 *	2	1245 442	43.	192.9	20.9
1	0900 109	46.	294.5	24.9 *	1	2255 276	44.	242.7	22.8 *	2	1250 443	43.	192.6	20.9
1	0905 110	46.	294.2	24.9 *	1	2300 277	44.	242.4	22.8 *	2	1255 444	43.	192.4	20.9
1	0910 111	46.	293.9	24.8 *	1	2305 278	44.	242.0	22.8 *	2	1300 445	43.	192.1	20.9
1	0915 112	46.	293.6	24.8 *	1	2310 279	44.	241.7	22.8 *	2	1305 446	43.	191.8	20.9
1	0920 113	46.	293.2	24.8 *	1	2315 280	44.	241.4	22.8 *	2	1310 447	43.	191.5	20.8
1	0925 114	46.	292.9	24.8 *	1	2320 281	44.	241.1	22.8 *	2	1315 448	43.	191.2	20.8
1	0930 115	46.	292.6	24.8 *	1	2325 282	44.	240.8	22.8 *	2	1320 449	43.	190.9	20.8
1	0935 116	46.	292.3	24.8 *	1	2330 283	44.	240.5	22.8 *	2	1325 450	43.	190.6	20.8
1	0940 117	46.	292.0	24.8 *	1	2335 284	44.	240.2	22.7 *	2	1330 451	43.	190.3	20.8
1	0945 118	46.	291.7	24.8 *	1	2340 285	44.	239.9	22.7 *	2	1335 452	43.	190.0	20.8
1	0950 119	46.	291.3	24.7 *	1	2345 286	44.	239.6	22.7 *	2	1340 453	43.	189.7	20.8
1	0955 120	46.	291.0	24.7 *	1	2350 287	44.	239.3	22.7 *	2	1345 454	43.	189.4	20.8
1	1000 121	46.	290.7	24.7 *	1	2355 288	44.	239.0	22.7 *	2	1350 455	43.	189.1	20.7
1	1005 122	46.	290.4	24.7 *	2	0000 289	44.	238.7	22.7 *	2	1355 456	43.	188.8	20.7
1	1010 123	46.	290.1	24.7 *	2	0005 290	44.	238.4	22.7 *	2	1400 457	43.	188.5	20.7
1	1015 124	46.	289.8	24.7 *	2	0010 291	44.	238.1	22.7 *	2	1405 458	43.	188.2	20.7
1	1020 125	46.	289.5	24.7 *	2	0015 292	44.	237.8	22.6 *	2	1410 459	43.	187.9	20.7
1	1025 126	46.	289.1	24.7 *	2	0020 293	44.	237.5	22.6 *	2	1415 460	43.	187.7	20.7
1	1030 127	46.	288.8	24.6 *	2	0025 294	44.	237.2	22.6 *	2	1420 461	43.	187.4	20.7
1	1035 128	46.	288.5	24.6 *	2	0030 295	44.	236.9	22.6 *	2	1425 462	43.	187.1	20.7
1	1040 129	46.	288.2	24.6 *	2	0035 296	44.	236.6	22.6 *	2	1430 463	43.	186.8	20.7
1	1045 130	46.	287.9	24.6 *	2	0040 297	44.	236.3	22.6 *	2	1435 464	43.	186.5	20.6
1	1050 131	46.	287.6	24.6 *	2	0045 298	44.	236.0	22.6 *	2	1440 465	43.	186.2	20.6
1	1055 132	46.	287.3	24.6 *	2	0050 299	44.	235.7	22.6 *	2	1445 466	42.	185.9	20.6
1	1100 133	46.	286.9	24.6 *	2	0055 300	44.	235.4	22.6 *	2	1450 467	42.	185.6	20.6
1	1105 134	46.	286.6	24.6 *	2	0100 301	44.	235.1	22.5 *	2	1455 468	42.	185.3	20.6
1	1110 135	46.	286.3	24.5 *	2	0105 302	44.	234.8	22.5 *	2	1500 469	42.	185.0	20.6
1	1115 136	46.	286.0	24.5 *	2	0110 303	44.	234.5	22.5 *	2	1505 470	42.	184.7	20.6
1	1120 137	46.	285.7	24.5 *	2	0115 304	44.	234.1	22.5 *	2	1510 471	42.	184.4	20.6
1	1125 138	46.	285.4	24.5 *	2	0120 305	44.	233.8	22.5 *	2	1515 472	42.	184.1	20.6
1	1130 139	46.	285.1	24.5 *	2	0125 306	44.	233.5	22.5 *	2	1520 473	42.	183.9	20.5
1	1135 140	46.	284.7	24.5 *	2	0130 307	44.	233.2	22.5 *	2	1525 474	42.	183.6	20.5
1	1140 141	46.	284.4	24.5 *	2	0135 308	44.	232.9	22.5 *	2	1530 475	42.	183.3	20.5
1	1145 142	46.	284.1	24.5 *	2	0140 309	44.	232.6	22.4 *	2	1535 476	42.	183.0	20.5
1	1150 143	46.	283.8	24.4 *	2	0145 310	44.	232.3	22.4 *	2	1540 477	42.	182.7	20.5
1	1155 144	46.	283.5	24.4 *	2	0150 311	44.	232.0	22.4 *	2	1545 478	42.	182.4	20.5
1	1200 145	46.	283.2	24.4 *	2	0155 312	44.	231.7	22.4 *	2	1550 479	42.	182.1	20.5
1	1205 146	46.	282.9	24.4 *	2	0200 313	44.	231.4	22.4 *	2	1555 480	42.	181.8	20.5
1	1210 147	46.	282.5	24.4 *	2	0205 314	44.	231.1	22.4 *	2	1600 481	42.	181.5	20.4
1	1215 148	46.	282.2	24.4 *	2	0210 315	44.	230.8	22.4 *	2	1605 482	42.	181.2	20.4
1	1220 149	45.	281.9	24.4 *	2	0215 316	44.	230.5	22.4 *	2	1610 483	42.	180.9	20.4
1	1225 150	45.	281.6	24.4 *	2	0220 317	44.	230.2	22.4 *	2	1615 484	42.	180.6	20.4
1	1230 151	45.	281.3	24.3 *	2	0225 318	44.	229.9	22.3 *	2	1620 485	42.	180.3	20.4
1	1235 152	45.	281.0	24.3 *	2	0230 319	44.	229.6	22.3 *	2	1625 486	42.	180.1	20.4
1	1240 153	45.	280.7	24.3 *	2	0235 320	44.	229.3	22.3 *	2	1630 487	42.	179.8	20.4
1	1245 154	45.	280.3	24.3 *	2	0240 321	44.	229.0	22.3 *	2	1635 488	42.	179.5	20.4
1	1250 155	45.	280.0	24.3 *	2	0245 322	44.	228.7	22.3 *	2	1640 489	42.	179.2	20.4
1	1255 156	45.	279.7	24.3 *	2	0250 323	44.	228.4	22.3 *	2	1645 490	42.	178.9	20.3
1	1300 157	45.	279.4	24.3 *	2	0255 324	44.	228.1	22.3 *	2	1650 491	42.	178.6	20.3
1	1305 158	45.	279.1	24.3 *	2	0300 325	44.	227.8	22.3 *	2	1655 492	42.	178.3	20.3
1	1310 159	45.	278.8	24.2 *	2	0305 326	44.	227.5	22.2 *	2	1700 493	42.	178.0	20.3
1	1315 160	45.	278.5	24.2 *	2	0310 327	44.	227.2	22.2 *	2	1705 494	42.	177.7	20.3
1	1320 161	45.	278.2	24.2 *	2	0315 328	44.	226.9	22.2 *	2	1710 495	42.	177.4	20.3
1	1325 162	45.	277.8	24.2 *	2	0320 329	44.	226.6	22.2 *	2	1715 496	42.	177.1	20.3
1	1330 163	45.	277.5	24.2 *	2	0325 330	44.	226.3	22.2 *	2	1720 497	42.	176.9	20.3
1	1335 164	45.	277.2	24.2 *	2	0330 331	44.	226.0	22.2 *	2	1725 498	42.	176.6	20.3
1	1340 165	45.	276.9	24.2 *	2	0335 332	44.	225.7	22.2 *	2	1730 499	42.	176.3	20.2
1	1345 166	45.	276.6	24.2 *	2	0340 333	44.	225.4	22.2 *	2	1735 500	42.	176.0	20.2
1	1350 167	45.	276.3	24.2 *	2	0345 334	44.	225.1	22.2 *					

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	41.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 48.	6.25		46.	45.	41.	41.
		(INCHES)	.131	.507	.805	.805
		(AC-FT)	23.	89.	142.	142.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	41.58-HR
+ (AC-FT)	(HR)				
304.	6.25	296.	265.	221.	221.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	41.58-HR
+ (FEET)	(HR)				
25.26	6.25	24.94	23.72	21.04	21.04

CUMULATIVE AREA = 3.31 SQ MI

HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = .97

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		1355	168	45.	271.4	24.0	2		0350	335	44.	220.4	22.0
1		0005	2	0.	.0	.0	1		1400	169	45.	271.1	23.9	2		0355	336	44.	220.1	22.0
1		0010	3	0.	.0	.0	1		1405	170	45.	270.8	23.9	2		0400	337	44.	219.8	21.9
1		0015	4	0.	.0	.0	1		1410	171	45.	270.5	23.9	2		0405	338	44.	219.5	21.9
1		0020	5	0.	.0	.0	1		1415	172	45.	270.1	23.9	2		0410	339	44.	219.2	21.9
1		0025	6	0.	.0	.0	1		1420	173	45.	269.8	23.9	2		0415	340	44.	218.9	21.9
1		0030	7	0.	.2	.1	1		1425	174	45.	269.5	23.9	2		0420	341	44.	218.6	21.9
1		0035	8	1.	.4	.1	1		1430	175	45.	269.2	23.9	2		0425	342	44.	218.3	21.9
1		0040	9	1.	.6	.2	1		1435	176	45.	268.9	23.9	2		0430	343	43.	218.0	21.9
1		0045	10	1.	.9	.3	1		1440	177	45.	268.6	23.9	2		0435	344	43.	217.7	21.9
1		0050	11	1.	1.0	.3	1		1445	178	45.	268.3	23.8	2		0440	345	43.	217.4	21.9
1		0055	12	2.	1.1	.4	1		1450	179	45.	268.0	23.8	2		0445	346	43.	217.1	21.8
1		0100	13	2.	1.2	.4	1		1455	180	45.	267.7	23.8	2		0450	347	43.	216.8	21.8
1		0105	14	2.	1.3	.4	1		1500	181	45.	267.4	23.8	2		0455	348	43.	216.5	21.8
1		0110	15	2.	1.3	.4	1		1505	182	45.	267.0	23.8	2		0500	349	43.	216.2	21.8
1		0115	16	2.	1.4	.5	1		1510	183	45.	266.7	23.8	2		0505	350	43.	215.9	21.8
1		0120	17	2.	1.6	.5	1		1515	184	45.	266.4	23.8	2		0510	351	43.	215.6	21.8
1		0125	18	3.	1.8	.6	1		1520	185	45.	266.1	23.8	2		0515	352	43.	215.3	21.8
1		0130	19	3.	2.1	.7	1		1525	186	45.	265.8	23.7	2		0520	353	43.	215.0	21.8
1		0135	20	4.	2.6	.9	1		1530	187	45.	265.5	23.7	2		0525	354	43.	214.7	21.7
1		0140	21	5.	3.3	1.1	1		1535	188	45.	265.2	23.7	2		0530	355	43.	214.4	21.7
1		0145	22	6.	4.1	1.4	1		1540	189	45.	264.9	23.7	2		0535	356	43.	214.1	21.7
1		0150	23	7.	5.0	1.7	1		1545	190	45.	264.6	23.7	2		0540	357	43.	213.8	21.7
1		0155	24	8.	5.8	1.9	1		1550	191	45.	264.3	23.7	2		0545	358	43.	213.5	21.7
1		0200	25	9.	6.5	2.2	1		1555	192	45.	263.9	23.7	2		0550	359	43.	213.2	21.7
1		0205	26	10.	7.1	2.4	1		1600	193	45.	263.6	23.7	2		0555	360	43.	212.9	21.7
1		0210	27	11.	7.6	2.5	1		1605	194	45.	263.3	23.6	2		0600	361	43.	212.6	21.7
1		0215	28	12.	8.2	2.7	1		1610	195	45.	263.0	23.6	2		0605	362	43.	212.3	21.7
1		0220	29	13.	9.1	3.0	1		1615	196	45.	262.7	23.6	2		0610	363	43.	212.0	21.6
1		0225	30	14.	10.2	3.4	1		1620	197	45.	262.4	23.6	2		0615	364	43.	211.7	21.6
1		0230	31	16.	11.6	3.9	1		1625	198	45.	262.1	23.6	2		0620	365	43.	211.4	21.6
1		0235	32	18.	12.9	4.3	1		1630	199	45.	261.8	23.6	2		0625	366	43.	211.1	21.6
1		0240	33	20.	14.3	4.8	1		1635	200	45.	261.5	23.6	2		0630	367	43.	210.8	21.6
1		0245	34	21.	15.7	5.2	1		1640	201	45.	261.2	23.6	2		0635	368	43.	210.5	21.6
1		0250	35	22.	17.2	5.5	1		1645	202	45.	260.9	23.5	2		0640	369	43.	210.2	21.6
1		0255	36	22.	18.6	5.8	1		1650	203	45.	260.5	23.5	2		0645	370	43.	209.9	21.6
1		0300	37	23.	20.0	6.1	1		1655	204	45.	260.2	23.5	2		0650	371	43.	209.6	21.5
1		0305	38	24.	21.5	6.5	1		1700	205	45.	259.9	23.5	2		0655	372	43.	209.3	21.5
1		0310	39	25.	23.7	7.0	1		1705	206	45.	259.6	23.5	2		0700	373	43.	209.0	21.5
1		0315	40	26.	27.2	7.8	1		1710	207	45.	259.3	23.5	2		0705	374	43.	208.7	21.5
1		0320	41	28.	33.3	9.2	1		1715	208	45.	259.0	23.5	2		0710	375	43.	208.4	21.5
1		0325	42	31.	44.0	10.7	1		1720	209	45.	258.7	23.5	2		0715	376	43.	208.1	21.5
1		0330	43	33.	61.0	12.3	1		1725	210	45.	258.4	23.5	2		0720	377	43.	207.8	21.5
1		0335	44	36.	84.0	14.4	1		1730	211	45.	258.1	23.4	2		0725	378	43.	207.5	21.5
1		0340	45	38.	110.1	16.3	1		1735	212	45.	257.8	23.4	2		0730	379	43.	207.2	21.5
1		0345	46	40.	135.9	17.9	1		1740	213	45.	257.5	23.4	2		0735	380	43.	206.9	21.4
1		0350	47	41.	158.9	19.3	1		1745	214	45.	257.1	23.4	2		0740	381	43.	206.6	21.4
1		0355	48	42.	178.0	20.3	1		1750	215	45.	256.8	23.4	2		0745	382	43.	206.3	21.4
1		0400	49	43.	193.3	20.9	1		1755	216	45.	256.5	23.4	2		0750	383	43.	206.0	21.4
1		0405	50	43.	205.5	21.4	1		1800	217	45.	256.2	23.4	2		0755	384	43.	205.7	21.4
1		0410	51	43.	215.3	21.8	1		1805	218	45.	255.9	23.4	2		0800	385	43.	205.4	21.4
1		0415	52	44.	222.9	22.1	1		1810	219	45.	255.6	23.3	2		0805	386	43.	205.1	21.4
1		0420	53	44.	228.9	22.3	1		1815	220	45.	255.3	23.3	2		0810	387	43.	204.8	21.4
1		0425	54	44.	234.0	22.5	1		1820	221	45.	255.0	23.3	2		0815	388	43.	204.5	21.3
1		0430	55	44.	238.7	22.7	1		1825	222	45.	254.7	23.3	2		0820	389	43.	204.3	21.3
1		0435	56	44.	243.7	22.9	1		1830	223	45.	254.4	23.3	2		0825	390	43.	204.0	21.3
1		0440	57	44.	249.3	23.1	1		1835	224	45.	254.1	23.3	2		0830	391	43.	203.7	21.3
1		0445	58	45.	255.2	23.3	1		1840	225	45.	253.8	23.3	2		0835	392	43.	203.4	21.3
1		0450	59	45.	261.3	23.6	1		1845	226	45.	253.5	23.3	2		0840	393	43.	203.1	21.3
1		0455	60	45.	267.6	23.8	1		1850	227	45.	253.2	23.2	2		0845	394	43.	202.8	21.3
1		0500	61	45.	273.7	24.1	1		1855	228	45.	252.8	23.2	2		0850	395	43.	202.5	21.3
1		0505	62	45.	279.2	24.3	1		1900	229	45.	252.5	23.2	2		0855	396	43.	202.2	21.3
1		0510	63	46.	283.8	24.4	1		1905	230	45.	252.2	23.2	2		0900	397	43.	201.9	21.2
1		0515	64	46.	287.6	24.6	1		1910	231	45.	251.9	23.2	2		0905	398	43.	201.6	21.2
1		0520	65	46.	290.4	24.7	1		1915	232	45.	251.6	23.2	2		0910	399	43.	201.3	21.2
1		0525	66	46.	292.6	24.8	1		1920	233	45.	251.3	23.2	2		0915	400	43.	201.0	21.2
1		0530	67	46.	294.3	24.9	1		1925	234	45.	251.0	23.2	2		0920	401	43.	200.7	21.2
1		0535	68	46.	295.6	24.9	1		1930	235	45.	250.7	23.2	2		0925	402	43.	200.4	21.2
1		0540	69	46.	296.5	24.9	1		1935	236	45.	250.4	23.1	2		0930	403	43.	200.1	21.2
1		0545	70	46.	297.2	25.0	1		1940	237	45.	250.1	23.1	2		0935	404	43.	199.8	21.2
1		0550	71	46.	297.8	25.0	1		1945	238	44.	249.8	23.1	2		0940	405	43.	199.5	21.2
1		0555	72	46.	298.2	25.0	1		1950	239	44.	249.5	23.1	2		0945	406	43.	199.2	21.1
1		0600	73	46.	298.6	25.0	1		1955	240	44.	249.2	23.1	2		0950	407	43.	198.9	21.1
1		0605	74	46.	298.9	25.0	1		2000	241	44.	248.9	23.1	2		0955	408	43.	198.6	21.1
1		0610	75	46.	299.1	25.0	1		2005	242	44.	248.6	23.1	2		1000	409	43.	198.3	21.1
1		0615	76	46.	299.2	25.1	1		2010	243	44.	248.2	23.1	2		1005	410	43.	198.0	21.1
1		0620	77	46.	299.3	25.1	1		2015	244	44.	247.9	23.0	2		1010	411	43.	197.7	21.1
1		0625	78	46.	299.2	25.0	1		2020	245	44.	247.6	23.0	2		1015	412	43.	197.4	21.1
1		0630	79	46.	299.0	25.0	1		2025	246	44.	247.3	23.0	2		1020	413	43.	197.1	21.1
1		0635	80	46.	298.8	25.0	1		2030	247	44.	247.0	23.0	2		1025	414	43.	196.9	21.0
1		0640	81	46.	298.6	25.0	1		2035	248	44.	246.7	23.0	2		1030	415	43.	196.6	21.0
1		0645	82	46.	298.3	25.0	1		2040	249	44.	246.4	23.0	2		1035	416	43.	196.3	21.0
1		0650	83	46.	298.0	25.0	1		2045	250	44.	246.1	23.0	2		1040	417	43.	196.0	21.0
1		0655	84	46.	297.7	25.0	1		2050	251	44.	245.8	23.0	2		1045	418	43.	195.7	21.0
1		0700	85	46.	297.4	25.0	1		2055	252	44.	245.5	22.9	2		1050	419	43.	195.4	21.0
1		0705	86	46.	297.1	25.0	1		2100	253	44.	245.2	22.9	2		1055	420	43.	195.1	21.0
1		0710	87	46.	296.8	25.0	1		2105	254	44.	244.9	22.9	2		1100	421	43.	194.8	21.0
1		0715	88	46.	296.5	24.9	1		2110	255	44.	244.6	22.9	2		1105	422	43.	194.5	21.0

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PEAK STAGE (FEET)	TIME (HR)	MAXIMUM AVERAGE STAGE 6-HR	24-HR	72-HR	41.58-HR
25.05	6.33	24.75	23.54	20.87	20.87

CUMULATIVE AREA = 3.31 SQ MI

HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = .95

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		1355	168	45.	262.9	23.6	2		0350	335	43.	212.2	21.6
1		0005	2	0.	.0	.0	1		1400	169	45.	262.6	23.6	2		0355	336	43.	211.9	21.6
1		0010	3	0.	.0	.0	1		1405	170	45.	262.3	23.6	2		0400	337	43.	211.6	21.6
1		0015	4	0.	.0	.0	1		1410	171	45.	262.0	23.6	2		0405	338	43.	211.3	21.6
1		0020	5	0.	.0	.0	1		1415	172	45.	261.7	23.6	2		0410	339	43.	211.0	21.6
1		0025	6	0.	.0	.0	1		1420	173	45.	261.4	23.6	2		0415	340	43.	210.7	21.6
1		0030	7	0.	.1	.0	1		1425	174	45.	261.1	23.6	2		0420	341	43.	210.4	21.6
1		0035	8	0.	.3	.1	1		1430	175	45.	260.8	23.5	2		0425	342	43.	210.1	21.6
1		0040	9	1.	.6	.2	1		1435	176	45.	260.4	23.5	2		0430	343	43.	209.8	21.6
1		0045	10	1.	.8	.3	1		1440	177	45.	260.1	23.5	2		0435	344	43.	209.5	21.5
1		0050	11	1.	.9	.3	1		1445	178	45.	259.8	23.5	2		0440	345	43.	209.2	21.5
1		0055	12	1.	1.0	.3	1		1450	179	45.	259.5	23.5	2		0445	346	43.	208.9	21.5
1		0100	13	2.	1.1	.4	1		1455	180	45.	259.2	23.5	2		0450	347	43.	208.6	21.5
1		0105	14	2.	1.2	.4	1		1500	181	45.	258.9	23.5	2		0455	348	43.	208.3	21.5
1		0110	15	2.	1.2	.4	1		1505	182	45.	258.6	23.5	2		0500	349	43.	208.0	21.5
1		0115	16	2.	1.3	.4	1		1510	183	45.	258.3	23.4	2		0505	350	43.	207.7	21.5
1		0120	17	2.	1.5	.5	1		1515	184	45.	258.0	23.4	2		0510	351	43.	207.4	21.5
1		0125	18	2.	1.6	.5	1		1520	185	45.	257.7	23.4	2		0515	352	43.	207.1	21.5
1		0130	19	3.	1.9	.6	1		1525	186	45.	257.4	23.4	2		0520	353	43.	206.8	21.4
1		0135	20	3.	2.4	.8	1		1530	187	45.	257.1	23.4	2		0525	354	43.	206.5	21.4
1		0140	21	4.	3.0	1.0	1		1535	188	45.	256.7	23.4	2		0530	355	43.	206.2	21.4
1		0145	22	5.	3.8	1.3	1		1540	189	45.	256.4	23.4	2		0535	356	43.	205.9	21.4
1		0150	23	6.	4.6	1.5	1		1545	190	45.	256.1	23.4	2		0540	357	43.	205.6	21.4
1		0155	24	8.	5.4	1.8	1		1550	191	45.	255.8	23.4	2		0545	358	43.	205.3	21.4
1		0200	25	9.	6.1	2.0	1		1555	192	45.	255.5	23.3	2		0550	359	43.	205.0	21.4
1		0205	26	9.	6.7	2.2	1		1600	193	45.	255.2	23.3	2		0555	360	43.	204.8	21.4
1		0210	27	10.	7.1	2.4	1		1605	194	45.	254.9	23.3	2		0600	361	43.	204.5	21.3
1		0215	28	11.	7.7	2.6	1		1610	195	45.	254.6	23.3	2		0605	362	43.	204.2	21.3
1		0220	29	12.	8.5	2.8	1		1615	196	45.	254.3	23.3	2		0610	363	43.	203.9	21.3
1		0225	30	13.	9.6	3.2	1		1620	197	45.	254.0	23.3	2		0615	364	43.	203.6	21.3
1		0230	31	15.	10.9	3.6	1		1625	198	45.	253.7	23.3	2		0620	365	43.	203.3	21.3
1		0235	32	17.	12.2	4.1	1		1630	199	45.	253.4	23.3	2		0625	366	43.	203.0	21.3
1		0240	33	19.	13.5	4.5	1		1635	200	45.	253.1	23.2	2		0630	367	43.	202.7	21.3
1		0245	34	21.	14.8	4.9	1		1640	201	45.	252.8	23.2	2		0635	368	43.	202.4	21.3
1		0250	35	22.	16.3	5.3	1		1645	202	45.	252.4	23.2	2		0640	369	43.	202.1	21.3
1		0255	36	22.	17.7	5.6	1		1650	203	45.	252.1	23.2	2		0645	370	43.	201.8	21.2
1		0300	37	23.	19.0	5.9	1		1655	204	45.	251.8	23.2	2		0650	371	43.	201.5	21.2
1		0305	38	23.	20.4	6.2	1		1700	205	45.	251.5	23.2	2		0655	372	43.	201.2	21.2
1		0310	39	24.	22.5	6.7	1		1705	206	45.	251.2	23.2	2		0700	373	43.	200.9	21.2
1		0315	40	25.	25.8	7.5	1		1710	207	45.	250.9	23.2	2		0705	374	43.	200.6	21.2
1		0320	41	28.	31.8	8.8	1		1715	208	45.	250.6	23.1	2		0710	375	43.	200.3	21.2
1		0325	42	31.	42.2	10.5	1		1720	209	45.	250.3	23.1	2		0715	376	43.	200.0	21.2
1		0330	43	33.	58.6	12.0	1		1725	210	44.	250.0	23.1	2		0720	377	43.	199.7	21.2
1		0335	44	36.	80.9	14.1	1		1730	211	44.	249.7	23.1	2		0725	378	43.	199.4	21.1
1		0340	45	38.	106.3	16.0	1		1735	212	44.	249.4	23.1	2		0730	379	43.	199.1	21.1
1		0345	46	40.	131.4	17.6	1		1740	213	44.	249.1	23.1	2		0735	380	43.	198.8	21.1
1		0350	47	41.	153.7	19.0	1		1745	214	44.	248.8	23.1	2		0740	381	43.	198.5	21.1
1		0355	48	42.	172.3	20.1	1		1750	215	44.	248.5	23.1	2		0745	382	43.	198.2	21.1
1		0400	49	43.	187.2	20.7	1		1755	216	44.	248.2	23.1	2		0750	383	43.	197.9	21.1
1		0405	50	43.	199.2	21.1	1		1800	217	44.	247.8	23.0	2		0755	384	43.	197.6	21.1
1		0410	51	43.	208.7	21.5	1		1805	218	44.	247.5	23.0	2		0800	385	43.	197.4	21.1
1		0415	52	43.	216.1	21.8	1		1810	219	44.	247.2	23.0	2		0805	386	43.	197.1	21.1
1		0420	53	44.	222.0	22.0	1		1815	220	44.	246.9	23.0	2		0810	387	43.	196.8	21.0
1		0425	54	44.	226.9	22.2	1		1820	221	44.	246.6	23.0	2		0815	388	43.	196.5	21.0
1		0430	55	44.	231.5	22.4	1		1825	222	44.	246.3	23.0	2		0820	389	43.	196.2	21.0
1		0435	56	44.	236.4	22.6	1		1830	223	44.	246.0	23.0	2		0825	390	43.	195.9	21.0
1		0440	57	44.	241.8	22.8	1		1835	224	44.	245.7	23.0	2		0830	391	43.	195.6	21.0
1		0445	58	44.	247.6	23.0	1		1840	225	44.	245.4	22.9	2		0835	392	43.	195.3	21.0
1		0450	59	45.	253.6	23.3	1		1845	226	44.	245.1	22.9	2		0840	393	43.	195.0	21.0
1		0455	60	45.	259.7	23.5	1		1850	227	44.	244.8	22.9	2		0845	394	43.	194.7	21.0
1		0500	61	45.	265.7	23.7	1		1855	228	44.	244.5	22.9	2		0850	395	43.	194.4	21.0
1		0505	62	45.	271.1	23.9	1		1900	229	44.	244.2	22.9	2		0855	396	43.	194.1	20.9
1		0510	63	45.	275.6	24.1	1		1905	230	44.	243.9	22.9	2		0900	397	43.	193.8	20.9
1		0515	64	45.	279.2	24.3	1		1910	231	44.	243.6	22.9	2		0905	398	43.	193.5	20.9
1		0520	65	46.	282.0	24.4	1		1915	232	44.	243.3	22.9	2		0910	399	43.	193.2	20.9
1		0525	66	46.	284.2	24.5	1		1920	233	44.	243.0	22.8	2		0915	400	43.	192.9	20.9
1		0530	67	46.	285.8	24.5	1		1925	234	44.	242.7	22.8	2		0920	401	43.	192.6	20.9
1		0535	68	46.	287.0	24.6	1		1930	235	44.	242.3	22.8	2		0925	402	43.	192.3	20.9
1		0540	69	46.	287.9	24.6	1		1935	236	44.	242.0	22.8	2		0930	403	43.	192.1	20.9
1		0545	70	46.	288.6	24.6	1		1940	237	44.	241.7	22.8	2		0935	404	43.	191.8	20.8
1		0550	71	46.	289.2	24.7	1		1945	238	44.	241.4	22.8	2		0940	405	43.	191.5	20.8
1		0555	72	46.	289.6	24.7	1		1950	239	44.	241.1	22.8	2		0945	406	43.	191.2	20.8
1		0600	73	46.	290.0	24.7	1		1955	240	44.	240.8	22.8	2		0950	407	43.	190.9	20.8
1		0605	74	46.	290.3	24.7	1		2000	241	44.	240.5	22.8	2		0955	408	43.	190.6	20.8
1		0610	75	46.	290.5	24.7	1		2005	242	44.	240.2	22.7	2		1000	409	43.	190.3	20.8
1		0615	76	46.	290.6	24.7	1		2010	243	44.	239.9	22.7	2		1005	410	43.	190.0	20.8
1		0620	77	46.	290.6	24.7	1		2015	244	44.	239.6	22.7	2		1010	411	43.	189.7	20.8
1		0625	78	46.	290.5	24.7	1		2020	245	44.	239.3	22.7	2		1015	412	43.	189.4	20.8

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		(CFS)					
+	46.	6.25		46.	45.	41.	41.
			(INCHES)	.128	.501	.796	.796
			(AC-FT)	23.	88.	140.	140.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	41.58-HR
+ (AC-FT)	(HR)				
291.	6.33	283.	252.	209.	209.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	41.58-HR
+ (FEET)	(HR)				
24.71	6.33	24.42	23.21	20.57	20.57

CUMULATIVE AREA = 3.31 SQ MI

HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = .93

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		1355	168	45.	252.6	23.2	2		0350	335	43.	202.2	21.3
1		0005	2	0.	.0	.0	1		1400	169	45.	252.3	23.2	2		0355	336	43.	201.9	21.2
1		0010	3	0.	.0	.0	1		1405	170	45.	252.0	23.2	2		0400	337	43.	201.6	21.2
1		0015	4	0.	.0	.0	1		1410	171	45.	251.6	23.2	2		0405	338	43.	201.3	21.2
1		0020	5	0.	.0	.0	1		1415	172	45.	251.3	23.2	2		0410	339	43.	201.0	21.2
1		0025	6	0.	.0	.0	1		1420	173	45.	251.0	23.2	2		0415	340	43.	200.7	21.2
1		0030	7	0.	.1	.0	1		1425	174	45.	250.7	23.2	2		0420	341	43.	200.4	21.2
1		0035	8	0.	.3	.1	1		1430	175	45.	250.4	23.1	2		0425	342	43.	200.1	21.2
1		0040	9	1.	.5	.2	1		1435	176	45.	250.1	23.1	2		0430	343	43.	199.8	21.2
1		0045	10	1.	.7	.2	1		1440	177	44.	249.8	23.1	2		0435	344	43.	199.5	21.2
1		0050	11	1.	.8	.3	1		1445	178	44.	249.5	23.1	2		0440	345	43.	199.2	21.1
1		0055	12	1.	.9	.3	1		1450	179	44.	249.2	23.1	2		0445	346	43.	198.9	21.1
1		0100	13	1.	1.0	.3	1		1455	180	44.	248.9	23.1	2		0450	347	43.	198.7	21.1
1		0105	14	1.	1.0	.3	1		1500	181	44.	248.6	23.1	2		0455	348	43.	198.4	21.1
1		0110	15	2.	1.1	.4	1		1505	182	44.	248.3	23.1	2		0500	349	43.	198.1	21.1
1		0115	16	2.	1.2	.4	1		1510	183	44.	248.0	23.0	2		0505	350	43.	197.8	21.1
1		0120	17	2.	1.3	.4	1		1515	184	44.	247.7	23.0	2		0510	351	43.	197.5	21.1
1		0125	18	2.	1.5	.5	1		1520	185	44.	247.4	23.0	2		0515	352	43.	197.2	21.1
1		0130	19	2.	1.7	.6	1		1525	186	44.	247.0	23.0	2		0520	353	43.	196.9	21.1
1		0135	20	3.	2.2	.7	1		1530	187	44.	246.7	23.0	2		0525	354	43.	196.6	21.0
1		0140	21	4.	2.8	.9	1		1535	188	44.	246.4	23.0	2		0530	355	43.	196.3	21.0
1		0145	22	5.	3.5	1.2	1		1540	189	44.	246.1	23.0	2		0535	356	43.	196.0	21.0
1		0150	23	6.	4.2	1.4	1		1545	190	44.	245.8	23.0	2		0540	357	43.	195.7	21.0
1		0155	24	7.	5.0	1.7	1		1550	191	44.	245.5	23.0	2		0545	358	43.	195.4	21.0
1		0200	25	8.	5.6	1.9	1		1555	192	44.	245.2	22.9	2		0550	359	43.	195.1	21.0
1		0205	26	9.	6.1	2.0	1		1600	193	44.	244.9	22.9	2		0555	360	43.	194.8	21.0
1		0210	27	9.	6.6	2.2	1		1605	194	44.	244.6	22.9	2		0600	361	43.	194.5	21.0
1		0215	28	10.	7.1	2.4	1		1610	195	44.	244.3	22.9	2		0605	362	43.	194.2	20.9
1		0220	29	11.	7.9	2.6	1		1615	196	44.	244.0	22.9	2		0610	363	43.	193.9	20.9
1		0225	30	12.	8.9	3.0	1		1620	197	44.	243.7	22.9	2		0615	364	43.	193.6	20.9
1		0230	31	14.	10.1	3.4	1		1625	198	44.	243.4	22.9	2		0620	365	43.	193.3	20.9
1		0235	32	16.	11.3	3.8	1		1630	199	44.	243.1	22.9	2		0625	366	43.	193.1	20.9
1		0240	33	18.	12.6	4.2	1		1635	200	44.	242.8	22.8	2		0630	367	43.	192.8	20.9
1		0245	34	19.	13.8	4.6	1		1640	201	44.	242.5	22.8	2		0635	368	43.	192.5	20.9
1		0250	35	21.	15.2	5.0	1		1645	202	44.	242.2	22.8	2		0640	369	43.	192.2	20.9
1		0255	36	22.	16.5	5.3	1		1650	203	44.	241.9	22.8	2		0645	370	43.	191.9	20.9
1		0300	37	22.	17.8	5.6	1		1655	204	44.	241.6	22.8	2		0650	371	43.	191.6	20.8
1		0305	38	23.	19.1	5.9	1		1700	205	44.	241.3	22.8	2		0655	372	43.	191.3	20.8
1		0310	39	23.	21.1	6.4	1		1705	206	44.	240.9	22.8	2		0700	373	43.	191.0	20.8
1		0315	40	25.	24.3	7.1	1		1710	207	44.	240.6	22.8	2		0705	374	43.	190.7	20.8
1		0320	41	27.	30.0	8.4	1		1715	208	44.	240.3	22.7	2		0710	375	43.	190.4	20.8
1		0325	42	30.	39.9	10.3	1		1720	209	44.	240.0	22.7	2		0715	376	43.	190.1	20.8
1		0330	43	32.	55.6	11.8	1		1725	210	44.	239.7	22.7	2		0720	377	43.	189.8	20.8
1		0335	44	35.	77.2	13.8	1		1730	211	44.	239.4	22.7	2		0725	378	43.	189.5	20.8
1		0340	45	38.	101.7	15.7	1		1735	212	44.	239.1	22.7	2		0730	379	43.	189.2	20.8
1		0345	46	39.	125.8	17.2	1		1740	213	44.	238.8	22.7	2		0735	380	43.	188.9	20.7
1		0350	47	41.	147.5	18.6	1		1745	214	44.	238.5	22.7	2		0740	381	43.	188.6	20.7
1		0355	48	42.	165.5	19.7	1		1750	215	44.	238.2	22.7	2		0745	382	43.	188.4	20.7
1		0400	49	42.	179.9	20.4	1		1755	216	44.	237.9	22.7	2		0750	383	43.	188.1	20.7
1		0405	50	43.	191.5	20.8	1		1800	217	44.	237.6	22.6	2		0755	384	43.	187.8	20.7
1		0410	51	43.	200.7	21.2	1		1805	218	44.	237.3	22.6	2		0800	385	43.	187.5	20.7
1		0415	52	43.	207.9	21.5	1		1810	219	44.	237.0	22.6	2		0805	386	43.	187.2	20.7
1		0420	53	43.	213.6	21.7	1		1815	220	44.	236.7	22.6	2		0810	387	43.	186.9	20.7
1		0425	54	44.	218.4	21.9	1		1820	221	44.	236.4	22.6	2		0815	388	43.	186.6	20.6
1		0430	55	44.	222.8	22.1	1		1825	222	44.	236.1	22.6	2		0820	389	43.	186.3	20.6
1		0435	56	44.	227.5	22.2	1		1830	223	44.	235.8	22.6	2		0825	390	43.	186.0	20.6
1		0440	57	44.	232.8	22.5	1		1835	224	44.	235.5	22.6	2		0830	391	42.	185.7	20.6
1		0445	58	44.	238.4	22.7	1		1840	225	44.	235.2	22.5	2		0835	392	42.	185.4	20.6
1		0450	59	44.	244.2	22.9	1		1845	226	44.	234.9	22.5	2		0840	393	42.	185.1	20.6
1		0455	60	45.	250.1	23.1	1		1850	227	44.	234.6	22.5	2		0845	394	42.	184.8	20.6
1		0500	61	45.	255.9	23.4	1		1855	228	44.	234.3	22.5	2		0850	395	42.	184.5	20.6
1		0505	62	45.	261.1	23.6	1		1900	229	44.	234.0	22.5	2		0855	396	42.	184.3	20.6
1		0510	63	45.	265.5	23.7	1		1905	230	44.	233.7	22.5	2		0900	397	42.	184.0	20.5
1		0515	64	45.	269.1	23.9	1		1910	231	44.	233.4	22.5	2		0905	398	42.	183.7	20.5
1		0520	65	45.	271.8	24.0	1		1915	232	44.	233.1	22.5	2		0910	399	42.	183.4	20.5
1		0525	66	45.	273.9	24.1	1		1920	233	44.	232.7	22.5	2		0915	400	42.	183.1	20.5
1		0530	67	45.	275.4	24.1	1		1925	234	44.	232.4	22.4	2		0920	401	42.	182.8	20.5
1		0535	68	45.	276.6	24.2	1		1930	235	44.	232.1	22.4	2		0925	402	42.	182.5	20.5

1	0540	69	45.	277.5	24.2	*	1	1935	236	44.	231.8	22.4	*	2	0930	403	42.	182.2	20.5
1	0545	70	45.	278.2	24.2	*	1	1940	237	44.	231.5	22.4	*	2	0935	404	42.	181.9	20.5
1	0550	71	45.	278.7	24.2	*	1	1945	238	44.	231.2	22.4	*	2	0940	405	42.	181.6	20.5
1	0555	72	45.	279.1	24.3	*	1	1950	239	44.	230.9	22.4	*	2	0945	406	42.	181.3	20.4
1	0600	73	45.	279.5	24.3	*	1	1955	240	44.	230.6	22.4	*	2	0950	407	42.	181.0	20.4
1	0605	74	45.	279.8	24.3	*	1	2000	241	44.	230.3	22.4	*	2	0955	408	42.	180.8	20.4
1	0610	75	45.	280.0	24.3	*	1	2005	242	44.	230.0	22.3	*	2	1000	409	42.	180.5	20.4
1	0615	76	45.	280.1	24.3	*	1	2010	243	44.	229.7	22.3	*	2	1005	410	42.	180.2	20.4
1	0620	77	45.	280.1	24.3	*	1	2015	244	44.	229.4	22.3	*	2	1010	411	42.	179.9	20.4
1	0625	78	45.	280.0	24.3	*	1	2020	245	44.	229.1	22.3	*	2	1015	412	42.	179.6	20.4
1	0630	79	45.	279.8	24.3	*	1	2025	246	44.	228.8	22.3	*	2	1020	413	42.	179.3	20.4
1	0635	80	45.	279.6	24.3	*	1	2030	247	44.	228.5	22.3	*	2	1025	414	42.	179.0	20.4
1	0640	81	45.	279.4	24.3	*	1	2035	248	44.	228.2	22.3	*	2	1030	415	42.	178.7	20.3
1	0645	82	45.	279.1	24.3	*	1	2040	249	44.	227.9	22.3	*	2	1035	416	42.	178.4	20.3
1	0650	83	45.	278.8	24.3	*	1	2045	250	44.	227.6	22.3	*	2	1040	417	42.	178.1	20.3
1	0655	84	45.	278.6	24.2	*	1	2050	251	44.	227.3	22.2	*	2	1045	418	42.	177.8	20.3
1	0700	85	45.	278.3	24.2	*	1	2055	252	44.	227.0	22.2	*	2	1050	419	42.	177.5	20.3
1	0705	86	45.	278.0	24.2	*	1	2100	253	44.	226.7	22.2	*	2	1055	420	42.	177.3	20.3
1	0710	87	45.	277.6	24.2	*	1	2105	254	44.	226.4	22.2	*	2	1100	421	42.	177.0	20.3
1	0715	88	45.	277.3	24.2	*	1	2110	255	44.	226.1	22.2	*	2	1105	422	42.	176.7	20.3
1	0720	89	45.	277.0	24.2	*	1	2115	256	44.	225.8	22.2	*	2	1110	423	42.	176.4	20.2
1	0725	90	45.	276.7	24.2	*	1	2120	257	44.	225.5	22.2	*	2	1115	424	42.	176.1	20.2
1	0730	91	45.	276.4	24.2	*	1	2125	258	44.	225.2	22.2	*	2	1120	425	42.	175.8	20.2
1	0735	92	45.	276.1	24.1	*	1	2130	259	44.	224.9	22.1	*	2	1125	426	42.	175.5	20.2
1	0740	93	45.	275.8	24.1	*	1	2135	260	44.	224.6	22.1	*	2	1130	427	42.	175.2	20.2
1	0745	94	45.	275.5	24.1	*	1	2140	261	44.	224.3	22.1	*	2	1135	428	42.	174.9	20.2
1	0750	95	45.	275.2	24.1	*	1	2145	262	44.	224.0	22.1	*	2	1140	429	42.	174.6	20.2
1	0755	96	45.	274.8	24.1	*	1	2150	263	44.	223.7	22.1	*	2	1145	430	42.	174.4	20.2
1	0800	97	45.	274.5	24.1	*	1	2155	264	44.	223.4	22.1	*	2	1150	431	42.	174.1	20.2
1	0805	98	45.	274.2	24.1	*	1	2200	265	44.	223.1	22.1	*	2	1155	432	42.	173.8	20.1
1	0810	99	45.	273.9	24.1	*	1	2205	266	44.	222.8	22.1	*	2	1200	433	42.	173.5	20.1
1	0815	100	45.	273.6	24.0	*	1	2210	267	44.	222.5	22.1	*	2	1205	434	42.	173.2	20.1
1	0820	101	45.	273.3	24.0	*	1	2215	268	44.	222.2	22.0	*	2	1210	435	42.	172.9	20.1
1	0825	102	45.	273.0	24.0	*	1	2220	269	44.	221.9	22.0	*	2	1215	436	42.	172.6	20.1
1	0830	103	45.	272.7	24.0	*	1	2225	270	44.	221.6	22.0	*	2	1220	437	42.	172.3	20.1
1	0835	104	45.	272.4	24.0	*	1	2230	271	44.	221.3	22.0	*	2	1225	438	42.	172.0	20.1
1	0840	105	45.	272.0	24.0	*	1	2235	272	44.	221.0	22.0	*	2	1230	439	42.	171.7	20.1
1	0845	106	45.	271.7	24.0	*	1	2240	273	44.	220.7	22.0	*	2	1235	440	42.	171.5	20.1
1	0850	107	45.	271.4	24.0	*	1	2245	274	44.	220.4	22.0	*	2	1240	441	42.	171.2	20.0
1	0855	108	45.	271.1	23.9	*	1	2250	275	44.	220.1	22.0	*	2	1245	442	42.	170.9	20.0
1	0900	109	45.	270.8	23.9	*	1	2255	276	44.	219.8	21.9	*	2	1250	443	42.	170.6	20.0
1	0905	110	45.	270.5	23.9	*	1	2300	277	44.	219.5	21.9	*	2	1255	444	42.	170.3	20.0
1	0910	111	45.	270.2	23.9	*	1	2305	278	44.	219.2	21.9	*	2	1300	445	42.	170.0	20.0
1	0915	112	45.	269.9	23.9	*	1	2310	279	44.	218.9	21.9	*	2	1305	446	42.	169.7	20.0
1	0920	113	45.	269.6	23.9	*	1	2315	280	44.	218.6	21.9	*	2	1310	447	42.	169.4	20.0
1	0925	114	45.	269.2	23.9	*	1	2320	281	44.	218.3	21.9	*	2	1315	448	42.	169.1	19.9
1	0930	115	45.	268.9	23.9	*	1	2325	282	43.	218.0	21.9	*	2	1320	449	42.	168.8	19.9
1	0935	116	45.	268.6	23.9	*	1	2330	283	43.	217.7	21.9	*	2	1325	450	42.	168.6	19.9
1	0940	117	45.	268.3	23.8	*	1	2335	284	43.	217.4	21.9	*	2	1330	451	42.	168.3	19.9
1	0945	118	45.	268.0	23.8	*	1	2340	285	43.	217.1	21.8	*	2	1335	452	42.	168.0	19.9
1	0950	119	45.	267.7	23.8	*	1	2345	286	43.	216.8	21.8	*	2	1340	453	42.	167.7	19.9
1	0955	120	45.	267.4	23.8	*	1	2350	287	43.	216.5	21.8	*	2	1345	454	42.	167.4	19.8
1	1000	121	45.	267.1	23.8	*	1	2355	288	43.	216.2	21.8	*	2	1350	455	42.	167.1	19.8
1	1005	122	45.	266.8	23.8	*	2	0000	289	43.	215.9	21.8	*	2	1355	456	42.	166.8	19.8
1	1010	123	45.	266.4	23.8	*	2	0005	290	43.	215.6	21.8	*	2	1400	457	42.	166.5	19.8
1	1015	124	45.	266.1	23.8	*	2	0010	291	43.	215.3	21.8	*	2	1405	458	42.	166.3	19.8
1	1020	125	45.	265.8	23.7	*	2	0015	292	43.	215.0	21.8	*	2	1410	459	42.	166.0	19.7
1	1025	126	45.	265.5	23.7	*	2	0020	293	43.	214.7	21.7	*	2	1415	460	42.	165.7	19.7
1	1030	127	45.	265.2	23.7	*	2	0025	294	43.	214.4	21.7	*	2	1420	461	42.	165.4	19.7
1	1035	128	45.	264.9	23.7	*	2	0030	295	43.	214.1	21.7	*	2	1425	462	42.	165.1	19.7
1	1040	129	45.	264.6	23.7	*	2	0035	296	43.	213.8	21.7	*	2	1430	463	42.	164.8	19.7
1	1045	130	45.	264.3	23.7	*	2	0040	297	43.	213.5	21.7	*	2	1435	464	42.	164.5	19.7
1	1050	131	45.	264.0	23.7	*	2	0045	298	43.	213.2	21.7	*	2	1440	465	42.	164.2	19.6
1	1055	132	45.	263.7	23.7	*	2	0050	299	43.	212.9	21.7	*	2	1445	466	42.	164.0	19.6
1	1100	133	45.	263.4	23.6	*	2	0055	300	43.	212.6	21.7	*	2	1450	467	42.	163.7	19.6
1	1105	134	45.	263.0	23.6	*	2	0100	301	43.	212.3	21.7	*	2	1455	468	42.	163.4	19.6
1	1110	135	45.	262.7	23.6	*	2	0105	302	43.	212.0	21.6	*	2	1500	469	42.	163.1	19.6
1	1115	136	45.	262.4	23.6	*	2	0110	303	43.	211.7	21.6	*	2	1505	470	42.	162.8	19.6
1	1120	137	45.	262.1	23.6	*	2	0115	304	43.	211.4	21.6	*	2	1510	471	42.	162.5	19.5
1	1125	138	45.	261.8	23.6	*	2	0120	305	43.	211.1	21.6	*	2	1515	472	42.	162.2	19.5
1	1130	139	45.	261.5	23.6	*	2	0125	306	43.	210.8	21.6	*	2	1520	473	41.	162.0	19.5
1	1135	140	45.	261.2	23.6	*	2	0130	307	43.	210.5	21.6	*	2	1525	474	41.	161.7	19.5
1	1140	141	45.	260.9	23.5	*	2	0135	308	43.	210.2	21.6	*	2	1530	475	41.	161.4	19.5
1	1145	142	45.	260.6	23.5	*	2	0140	309	43.	209.9	21.6	*	2	1535	476	41.	161.1	19.4
1	1150	143	45.	260.3	23.5	*	2	0145	310	43.	209.6	21.5	*	2	1540	477	41.	160.8	19.4
1	1155	144	45.	260.0	23.5	*	2	0150	311	43.	209.3	21.5	*	2	1545	478	41.	160.5	19.4
1	1200	145	45.	259.6	23.5	*	2	0155	312	43.	209.0	21.5	*	2	1550	479	41.	160.2	19.4
1	1205	146	45.	259.3	23.5	*	2	0200	313	43.	208.7	21.5	*	2	1555	480	41.	160.0	19.4
1	1210	147	45.	259.0	23.5	*	2	0205	314	43.	208.4	21.5	*	2	1600	481	41.	159.7	19.4
1	1215	148	45.	258.7	23.5	*	2	0210	315	43.	208.1	21.5	*	2	1605	482	41.	159.4	19.3
1	1220	149	45.	258.4	23.5	*	2	0215	316	43.	207.8	21.5	*	2	1610	483	41.	159.1	19.3
1	1225	150	45.	258.1	23.4	*	2	0220	317	43.	207.5	21.5	*	2	1615	484	41.	158.8	19.3
1	1230	151	45.	257.8	23.4	*	2	0225	318	43.	207.2	21.5	*	2	1620	485	41.	158.5	19.3
1	1235	152	45.	257.5	23.4	*	2	0230	319	43.	206.9	21.4	*	2	1625	486	41.	158.2	19.3
1	1240	153	45.	257.2	23.4	*	2	0235	320	43.	206.7	21.4	*	2	1630	487	41.	158.0	19.2
1	1245	154	45.	256.9	23.4	*	2	0240	321	43.	206.4	21.4	*	2	1635	488	41.	157.7	19.2
1	1250	155	45.	256.6	23.4	*	2	0245	322	43.	206.1	21.4	*	2	1640	489	41.	157.4	19.2
1	1255	156	45.	256.3	23.4	*	2	0250	323	43.	205.8	21.4	*	2	1645	490	41.	157.1	19.2
1	1300	157	45.	255.9	23.4	*	2	0255	324	43.	205.5	21.4	*	2	1650	491	41.	156.8	19.2
1	1305	158	45.	255.6	23.3	*	2	0300	325	43.	205.2	21.4	*	2	1655	492	41.	156.5	19.2
1	1310	159	45.	255.3	23.3	*	2	0305	326	43.	204.9	21.4	*	2	1700	493	41.	156.3	19.1
1	1315	160	45.	255.0	23.3	*	2	0310	327	43.	204.6	21.4	*	2	1705	494	41.	156.0	19.1
1	1320	161	45.	254.7	23.3	*	2	0315	328	43.	204.3	21.3	*	2	1710	495	41.	155.7	19.1
1	1325	162	45.	254.4	23.3	*	2	0320	329	43.	204.0	21.3	*	2	1715	496	41.	155.4	19.1
1	1330	163	45.	254.1	23.3	*	2	0325	330	43.	203.7	21.3	*	2	1720	497	41.	155.1	19.1

1	1335	164	45.	253.8	23.3	*	2	0330	331	43.	203.4	21.3	*	2	1725	498	41.	154.8	19.1
1	1340	165	45.	253.5	23.3	*	2	0335	332	43.	203.1	21.3	*	2	1730	499	41.	154.6	19.0
1	1345	166	45.	253.2	23.2	*	2	0340	333	43.	202.8	21.3	*	2	1735	500	41.	154.3	19.0
1	1350	167	45.	252.9	23.2	*	2	0345	334	43.	202.5	21.3	*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	41.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 45.	6.25		45.	44.	41.	41.
		(INCHES)	.127	.497	.709	.709
		(AC-FT)	22.	88.	139.	139.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	41.58-HR
+ (AC-FT)	(HR)					
280.	6.25		273.	242.	200.	200.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	41.58-HR
+ (FEET)	(HR)					
24.30	6.25		24.01	22.81	20.18	20.18

CUMULATIVE AREA = 3.31 SQ MI

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HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = .92

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DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	*	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	*	1		1355	168	44.	246.5	23.0	*	2		0350	335	43.	196.3	21.0
1		0005	2	0.	.0	.0	*	1		1400	169	44.	246.2	23.0	*	2		0355	336	43.	196.0	21.0
1		0010	3	0.	.0	.0	*	1		1405	170	44.	245.8	23.0	*	2		0400	337	43.	195.7	21.0
1		0015	4	0.	.0	.0	*	1		1410	171	44.	245.5	23.0	*	2		0405	338	43.	195.4	21.0
1		0020	5	0.	.0	.0	*	1		1415	172	44.	245.2	22.9	*	2		0410	339	43.	195.1	21.0
1		0025	6	0.	.0	.0	*	1		1420	173	44.	244.9	22.9	*	2		0415	340	43.	194.8	21.0
1		0030	7	0.	.1	.0	*	1		1425	174	44.	244.6	22.9	*	2		0420	341	43.	194.5	21.0
1		0035	8	0.	.3	.1	*	1		1430	175	44.	244.3	22.9	*	2		0425	342	43.	194.2	20.9
1		0040	9	1.	.5	.2	*	1		1435	176	44.	244.0	22.9	*	2		0430	343	43.	194.0	20.9
1		0045	10	1.	.7	.2	*	1		1440	177	44.	243.7	22.9	*	2		0435	344	43.	193.7	20.9
1		0050	11	1.	.8	.3	*	1		1445	178	44.	243.4	22.9	*	2		0440	345	43.	193.4	20.9
1		0055	12	1.	.9	.3	*	1		1450	179	44.	243.1	22.9	*	2		0445	346	43.	193.1	20.9
1		0100	13	1.	.9	.3	*	1		1455	180	44.	242.8	22.8	*	2		0450	347	43.	192.8	20.9
1		0105	14	1.	1.0	.3	*	1		1500	181	44.	242.5	22.8	*	2		0455	348	43.	192.5	20.9
1		0110	15	1.	1.0	.3	*	1		1505	182	44.	242.2	22.8	*	2		0500	349	43.	192.2	20.9
1		0115	16	2.	1.1	.4	*	1		1510	183	44.	241.9	22.8	*	2		0505	350	43.	191.9	20.9
1		0120	17	2.	1.2	.4	*	1		1515	184	44.	241.6	22.8	*	2		0510	351	43.	191.6	20.8
1		0125	18	2.	1.4	.5	*	1		1520	185	44.	241.3	22.8	*	2		0515	352	43.	191.3	20.8
1		0130	19	2.	1.6	.5	*	1		1525	186	44.	241.0	22.8	*	2		0520	353	43.	191.0	20.8
1		0135	20	3.	2.0	.7	*	1		1530	187	44.	240.7	22.8	*	2		0525	354	43.	190.7	20.8
1		0140	21	4.	2.6	.9	*	1		1535	188	44.	240.4	22.7	*	2		0530	355	43.	190.4	20.8
1		0145	22	5.	3.3	1.1	*	1		1540	189	44.	240.1	22.7	*	2		0535	356	43.	190.1	20.8
1		0150	23	6.	4.0	1.3	*	1		1545	190	44.	239.8	22.7	*	2		0540	357	43.	189.8	20.8
1		0155	24	7.	4.7	1.6	*	1		1550	191	44.	239.4	22.7	*	2		0545	358	43.	189.5	20.8
1		0200	25	7.	5.3	1.8	*	1		1555	192	44.	239.1	22.7	*	2		0550	359	43.	189.3	20.8
1		0205	26	8.	5.8	1.9	*	1		1600	193	44.	238.8	22.7	*	2		0555	360	43.	189.0	20.7
1		0210	27	9.	6.2	2.1	*	1		1605	194	44.	238.5	22.7	*	2		0600	361	43.	188.7	20.7
1		0215	28	9.	6.7	2.2	*	1		1610	195	44.	238.2	22.7	*	2		0605	362	43.	188.4	20.7
1		0220	29	10.	7.5	2.5	*	1		1615	196	44.	237.9	22.7	*	2		0610	363	43.	188.1	20.7
1		0225	30	12.	8.5	2.8	*	1		1620	197	44.	237.6	22.6	*	2		0615	364	43.	187.8	20.7
1		0230	31	14.	9.7	3.2	*	1		1625	198	44.	237.3	22.6	*	2		0620	365	43.	187.5	20.7
1		0235	32	15.	10.8	3.6	*	1		1630	199	44.	237.0	22.6	*	2		0625	366	43.	187.2	20.7
1		0240	33	17.	12.0	4.0	*	1		1635	200	44.	236.7	22.6	*	2		0630	367	43.	186.9	20.7
1		0245	34	19.	13.2	4.4	*	1		1640	201	44.	236.4	22.6	*	2		0635	368	43.	186.6	20.6
1		0250	35	20.	14.6	4.9	*	1		1645	202	44.	236.1	22.6	*	2		0640	369	43.	186.3	20.6
1		0255	36	21.	15.8	5.2	*	1		1650	203	44.	235.8	22.6	*	2		0645	370	43.	186.0	20.6
1		0300	37	22.	17.1	5.5	*	1		1655	204	44.	235.5	22.6	*	2		0650	371	42.	185.7	20.6
1		0305	38	22.	18.4	5.8	*	1		1700	205	44.	235.2	22.5	*	2		0655	372	42.	185.4	20.6
1		0310	39	23.	20.3	6.2	*	1		1705	206	44.	234.9	22.5	*	2		0700	373	42.	185.2	20.6
1		0315	40	24.	23.4	6.9	*	1		1710	207	44.	234.6	22.5	*	2		0705	374	42.	184.9	20.6
1		0320	41	27.	28.9	8.2	*	1		1715	208	44.	234.3	22.5	*	2		0710	375	42.	184.6	20.6
1		0325	42	30.	38.6	10.1	*	1		1720	209	44.	234.0	22.5	*	2		0715	376	42.	184.3	20.6
1		0330	43	32.	53.9	11.6	*	1		1725	210	44.	233.7	22.5	*	2		0720	377	42.	184.0	20.5
1		0335	44	35.	75.0	13.6	*	1		1730	211	44.	233.4	22.5	*	2		0725	378	42.	183.7	20.5
1		0340	45	38.	99.0	15.6	*	1		1735	212	44.	233.1	22.5	*	2		0730	379	42.	183.4	20.5
1		0345	46	39.	122.6	17.0	*	1		1740	213	44.	232.8	22.5	*	2		0735	380	42.	183.1	20.5
1		0350	47	40.	143.8	18.4	*	1		1745	214	44.	232.5	22.4	*	2		0740	381	42.	182.8	20.5
1		0355	48	41.	161.4	19.5	*	1		1750	215	44.	232.2	22.4	*	2		0745	382	42.	182.5	20.5
1		0400	49	42.	175.5	20.2	*	1		1755	216	44.	231.9	22.4	*	2		0750	383	42.	182.2	20.5
1		0405	50	43.	186.9	20.7	*	1		1800	217	44.	231.6	22.4	*	2		0755	384	42.	181.9	20.5
1		0410	51	43.	195.9	21.0	*	1		1805	218	44.	231.3	22.4	*	2		0800	385	42.	181.6	20.5
1		0415	52	43.	203.0	21.3	*	1		1810	219	44.	231.0	22.4	*	2		0805	386	42.	181.4	20.4
1		0420	53	43.	208.6	21.5	*	1		1815	220	44.	230.7	22.4	*	2		0810	387	42.	181.1	20.4
1		0425	54	43.	213.3	21.7	*	1		1820	221	44.	230.3	22.4	*	2		0815	388	42.	180.8	20.4
1		0430	55	43.	217.7	21.9	*	1		1825	222	44.	230.0	22.3	*	2		0820	389	42.	180.5	20.4
1		0435	56	44.	222.3	22.0	*	1		1830	223	44.	229.7	22.3	*	2		0825	390	42.	180.2	20.4
1		0440	57	44.	227.5	22.2	*	1		1835	224	44.	229.4	22.3	*	2		0830	391	42.	179.9	20.4
1		0445	58	44.	233.0	22.5	*	1		1840	225	44.	229.1	22.3	*	2		0835	392	42.	179.6	20.4

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1	1245 154	45.	250.7	23.2 *	2	0240 321	43.	200.4	21.2 *	2	1635 488	41.	152.0	18.9
1	1250 155	45.	250.4	23.1 *	2	0245 322	43.	200.2	21.2 *	2	1640 489	41.	151.8	18.9
1	1255 156	45.	250.1	23.1 *	2	0250 323	43.	199.9	21.2 *	2	1645 490	41.	151.5	18.8
1	1300 157	44.	249.8	23.1 *	2	0255 324	43.	199.6	21.2 *	2	1650 491	41.	151.2	18.8
1	1305 158	44.	249.5	23.1 *	2	0300 325	43.	199.3	21.1 *	2	1655 492	41.	150.9	18.8
1	1310 159	44.	249.2	23.1 *	2	0305 326	43.	199.0	21.1 *	2	1700 493	41.	150.6	18.8
1	1315 160	44.	248.9	23.1 *	2	0310 327	43.	198.7	21.1 *	2	1705 494	41.	150.4	18.8
1	1320 161	44.	248.6	23.1 *	2	0315 328	43.	198.4	21.1 *	2	1710 495	41.	150.1	18.8
1	1325 162	44.	248.3	23.1 *	2	0320 329	43.	198.1	21.1 *	2	1715 496	41.	149.8	18.7
1	1330 163	44.	248.0	23.0 *	2	0325 330	43.	197.8	21.1 *	2	1720 497	41.	149.5	18.7
1	1335 164	44.	247.7	23.0 *	2	0330 331	43.	197.5	21.1 *	2	1725 498	41.	149.2	18.7
1	1340 165	44.	247.4	23.0 *	2	0335 332	43.	197.2	21.1 *	2	1730 499	41.	149.0	18.7
1	1345 166	44.	247.1	23.0 *	2	0340 333	43.	196.9	21.1 *	2	1735 500	41.	148.7	18.7
1	1350 167	44.	246.8	23.0 *	2	0345 334	43.	196.6	21.0 *					
				*					*					

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	41.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 45.	6.25		45.	44.	40.	40.
		(INCHES)	.126	.495	.785	.785
		(AC-FT)	22.	87.	139.	139.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STOPAGE			
			6-HR	24-HR	72-HR	41.58-HR
+ (AC-FT)	(HR)					
274.	6.25		266.	236.	194.	194.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	41.58-HR
+ (FEET)	(HR)					
24.06	6.25		23.77	22.58	19.94	19.94

CUMULATIVE AREA = 3.31 SQ MI

1

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

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION RATIO 1 1.00	RATIO 2 .98	RATIO 3 .97	RATIO 4 .95	RATIO 5 .93	RATIO 6 .92
HYDROGRAPH AT										
+	CDMNA3	.14	1	FLOW	167.	162.	159.	155.	149.	146.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT										
+	EFPOA1	.31	1	FLOW	351.	340.	334.	324.	312.	304.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT										
+	COM1A	.45	1	FLOW	518.	502.	494.	479.	461.	450.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO										
+	RCOM1A	.45	1	FLOW	509.	492.	484.	469.	451.	441.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT										
+	EFPOA2	.23	1	FLOW	245.	237.	233.	226.	217.	212.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT										
+	COM1B	.68	1	FLOW	754.	729.	716.	695.	667.	653.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO										
+	RCOM1B	.68	1	FLOW	735.	710.	698.	677.	651.	636.
				TIME	3.67	3.67	3.67	3.67	3.75	3.75
HYDROGRAPH AT										
+	EFPOB1	.24	1	FLOW	298.	290.	285.	277.	268.	262.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT										
+	COM2	.92	1	FLOW	1034.	1000.	983.	954.	917.	898.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO										
+	RCOM2	.92	1	FLOW	1021.	988.	973.	945.	911.	890.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75
HYDROGRAPH AT										
+	EFPOB2	.26	1	FLOW	396.	384.	379.	368.	356.	348.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT										
+	COM3	1.18	1	FLOW	1360.	1315.	1294.	1257.	1206.	1181.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67

HYDROGRAPH AT										
+	WBCA	.06	1	FLOW	75.	73.	72.	71.	69.	67.
				TIME	3.83	3.83	3.83	3.83	3.83	3.83
HYDROGRAPH AT										
+	HLBW1-CA	.39	1	FLOW	502.	487.	480.	467.	451.	442.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
3 COMBINED AT										
+	COM4	1.63	1	FLOW	1927.	1866.	1836.	1785.	1717.	1681.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO										
+	RCOM4	1.63	1	FLOW	1904.	1844.	1816.	1763.	1697.	1660.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT										
+	HLBW1-CB	.12	1	FLOW	145.	140.	138.	134.	129.	126.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT										
+	COM5	1.75	1	FLOW	2049.	1984.	1954.	1897.	1826.	1786.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO										
+	RCOM5	1.75	1	FLOW	2027.	1962.	1932.	1876.	1806.	1767.
				TIME	3.67	3.67	3.67	3.67	3.67	3.75
HYDROGRAPH AT										
+	WBAW	.06	1	FLOW	81.	79.	78.	76.	73.	72.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT										
+	WRBW1	.24	1	FLOW	309.	300.	295.	287.	277.	271.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
3 COMBINED AT										
+	COM6	2.05	1	FLOW	2417.	2341.	2305.	2238.	2156.	2107.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO										
+	RCOM6	2.05	1	FLOW	2378.	2305.	2266.	2200.	2118.	2076.
				TIME	3.67	3.67	3.67	3.67	3.75	3.75
HYDROGRAPH AT										
+	LWBW1C	.06	1	FLOW	98.	96.	94.	92.	89.	87.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT										
+	LMDBN	.02	1	FLOW	34.	33.	32.	31.	30.	30.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT										
+	CLMDBN	2.13	1	FLOW	2484.	2408.	2368.	2298.	2214.	2163.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT										
+	LWBW1A	.32	1	FLOW	399.	386.	380.	369.	356.	348.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT										
+	UVB1-2A	.25	1	FLOW	365.	354.	349.	340.	328.	322.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
DIVERSION TO										
+	EDIV2A	.25	1	FLOW	282.	282.	282.	282.	282.	282.
				TIME	3.50	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT										
+	NDIV2A	.25	1	FLOW	83.	72.	67.	58.	46.	40.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO										
+	RUVB1-2A	.25	1	FLOW	79.	72.	65.	55.	43.	34.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT										
+	COM7	.57	1	FLOW	478.	458.	445.	425.	399.	382.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO										
+	RCOM7	.57	1	FLOW	467.	447.	435.	415.	391.	374.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT										
+	UVB1-2B	.02	1	FLOW	38.	37.	37.	36.	35.	34.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT										
+	LWBW1B	.08	1	FLOW	135.	132.	130.	127.	123.	121.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT										
+	COM8	.66	1	FLOW	606.	582.	568.	545.	517.	498.

				TIME	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO										
+	RCOM8	.66	1	FLOW	603.	579.	565.	542.	515.	497.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT										
+	RETDIV2A	.00	1	FLOW	282.	282.	282.	282.	282.	282.
				TIME	3.50	3.58	3.58	3.58	3.58	3.58
ROUTED TO										
+	RDIV2A	.00	1	FLOW	282.	282.	282.	282.	282.	282.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT										
+	UVB1-2C	.03	1	FLOW	59.	58.	57.	56.	54.	53.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT										
+	COM10	.03	1	FLOW	341.	340.	338.	336.	332.	331.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT										
+	COM9	.69	1	FLOW	930.	905.	890.	867.	838.	819.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT										
+	UVB1-1C	.02	1	FLOW	38.	37.	37.	36.	35.	34.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50
ROUTED TO										
+	RUVB1-1C	.02	1	FLOW	35.	34.	34.	33.	32.	32.
				TIME	3.50	3.50	3.58	3.58	3.58	3.58
HYDROGRAPH AT										
+	UVB1-1B	.01	1	FLOW	26.	26.	25.	25.	24.	24.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT										
+	COM11	.03	1	FLOW	62.	60.	59.	58.	56.	55.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT										
+	UVB1-1A	.22	1	FLOW	413.	403.	398.	389.	378.	371.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO										
+	RUVB1-1A	.22	1	FLOW	409.	399.	394.	385.	374.	367.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT										
+	UVB1-1D	.04	1	FLOW	70.	68.	67.	66.	64.	63.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT										
+	COM12	.26	1	FLOW	474.	462.	456.	446.	433.	425.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO										
+	RCOM12	.26	1	FLOW	470.	458.	453.	442.	430.	422.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT										
+	UVB1-1E	.03	1	FLOW	56.	55.	54.	53.	51.	50.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50
ROUTED TO										
+	RUVB1-1E	.03	1	FLOW	54.	53.	51.	50.	49.	49.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT										
+	COM13	.31	1	FLOW	580.	565.	558.	545.	530.	521.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT										
+	WBCL	.03	1	FLOW	60.	59.	58.	57.	55.	54.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT										
+	LMBW1	.08	1	FLOW	112.	109.	107.	104.	100.	97.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT										
+	COM14	.43	1	FLOW	753.	733.	723.	706.	685.	673.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT										
+	LMDBS	.06	1	FLOW	92.	90.	88.	86.	83.	81.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50
3 COMBINED AT										
+	CLMDBS	1.18	1	FLOW	1742.	1692.	1669.	1629.	1580.	1553.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT										

+	CLMBWCDB	3.31	1	FLOW	4092.	3974.	3911.	3803.	3671.	3591.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO										
+	LMBWCDB	3.31	1	FLOW	52.	48.	46.	46.	45.	45.
				TIME	6.25	6.25	6.33	6.25	6.25	6.25
			** PEAK STAGES IN FEET **							
			1	STAGE	25.65	25.26	25.05	24.71	24.30	24.06
				TIME	6.25	6.25	6.33	6.33	6.25	6.25
HYDROGRAPH AT										
+	WBLM	.08	1	FLOW	129.	126.	124.	121.	117.	115.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT										
+	COM15	3.39	1	FLOW	166.	162.	160.	157.	153.	150.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO										
+	RLMBWDB	3.39	1	FLOW	162.	158.	157.	154.	150.	148.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67

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SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING
(FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

ISTAQ	ELEMENT	DT	PEAK	TIME TO PEAK	VOLUME	DT	INTERPOLATED TO COMPUTATION INTERVAL PEAK	TIME TO PEAK	VOLUME
		(MIN)	(CFS)	(MIN)	(IN)	(MIN)	(CFS)	(MIN)	(IN)
FOR PLAN = 1 RATIO= .00									
RCOM1A	MANE	1.35	514.38	221.58	1.60	5.00	508.79	220.00	1.60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3852E+02 EXCESS= .0000E+00 OUTFLOW= .3852E+02 BASIN STORAGE= .2138E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCOM1A	MANE	1.37	497.26	221.74	1.55	5.00	491.95	220.00	1.55

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3726E+02 EXCESS= .0000E+00 OUTFLOW= .3726E+02 BASIN STORAGE= .2074E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCOM1A	MANE	1.38	488.66	221.83	1.52	5.00	483.55	220.00	1.52

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3663E+02 EXCESS= .0000E+00 OUTFLOW= .3663E+02 BASIN STORAGE= .1961E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCOM1A	MANE	1.39	474.52	221.76	1.48	5.00	469.00	220.00	1.48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3551E+02 EXCESS= .0000E+00 OUTFLOW= .3551E+02 BASIN STORAGE= .2069E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCOM1A	MANE	1.42	456.55	220.94	1.42	5.00	450.61	220.00	1.42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3414E+02 EXCESS= .0000E+00 OUTFLOW= .3414E+02 BASIN STORAGE= .2121E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCOM1A	MANE	1.43	447.29	221.58	1.39	5.00	440.92	220.00	1.39

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3334E+02 EXCESS= .0000E+00 OUTFLOW= .3334E+02 BASIN STORAGE= .2154E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCOM1B	MANE	1.25	750.30	221.49	1.58	5.00	735.50	220.00	1.59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5729E+02 EXCESS= .0000E+00 OUTFLOW= .5729E+02 BASIN STORAGE= .2148E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCOM1B	MANE	1.27	724.43	221.95	1.53	5.00	709.96	220.00	1.53

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5540E+02 EXCESS= .0000E+00 OUTFLOW= .5540E+02 BASIN STORAGE= .2362E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCOM1B	MANE	1.28	711.59	222.21	1.51	5.00	698.10	220.00	1.51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5447E+02 EXCESS= .0000E+00 OUTFLOW= .5447E+02 BASIN STORAGE= .2081E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.29	690.10	221.09	1.46	5.00	676.86	220.00	1.46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5279E+02 EXCESS= .0000E+00 OUTFLOW= .5278E+02 BASIN STORAGE= .2010E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.31	663.99	222.02	1.40	5.00	650.70	225.00	1.40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5074E+02 EXCESS= .0000E+00 OUTFLOW= .5073E+02 BASIN STORAGE= .2199E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.33	650.41	221.38	1.37	5.00	635.84	225.00	1.37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4954E+02 EXCESS= .0000E+00 OUTFLOW= .4954E+02 BASIN STORAGE= .2174E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.39	1031.80	221.45	1.65	5.00	1020.71	225.00	1.65

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8079E+02 EXCESS= .0000E+00 OUTFLOW= .8079E+02 BASIN STORAGE= .3121E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.41	997.79	221.64	1.60	5.00	988.17	225.00	1.60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7817E+02 EXCESS= .0000E+00 OUTFLOW= .7817E+02 BASIN STORAGE= .2787E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.42	981.71	221.68	1.57	5.00	972.86	225.00	1.57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7689E+02 EXCESS= .0000E+00 OUTFLOW= .7689E+02 BASIN STORAGE= .2737E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.44	953.71	222.93	1.53	5.00	944.99	225.00	1.53

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7458E+02 EXCESS= .0000E+00 OUTFLOW= .7458E+02 BASIN STORAGE= .2914E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.46	916.12	222.15	1.47	5.00	911.01	225.00	1.47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7174E+02 EXCESS= .0000E+00 OUTFLOW= .7174E+02 BASIN STORAGE= .2929E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.47	897.33	222.54	1.43	5.00	890.29	225.00	1.44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7009E+02 EXCESS= .0000E+00 OUTFLOW= .7009E+02 BASIN STORAGE= .2597E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.63	1925.01	220.87	1.79	5.00	1904.49	220.00	1.79

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1556E+03 EXCESS= .0000E+00 OUTFLOW= .1556E+03 BASIN STORAGE= .1456E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.64	1862.95	221.16	1.74	5.00	1844.21	220.00	1.74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1508E+03 EXCESS= .0000E+00 OUTFLOW= .1508E+03 BASIN STORAGE= .1503E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.65	1835.43	220.63	1.71	5.00	1815.92	220.00	1.71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1484E+03 EXCESS= .0000E+00 OUTFLOW= .1484E+03 BASIN STORAGE= .1451E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.65	1782.55	221.19	1.66	5.00	1763.44	220.00	1.66

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1442E+03 EXCESS= .0000E+00 OUTFLOW= .1442E+03 BASIN STORAGE= .1438E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.66	1716.74	220.66	1.60	5.00	1697.11	220.00	1.60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1389E+03 EXCESS= .0000E+00 OUTFLOW= .1389E+03 BASIN STORAGE= .1437E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.67	1679.53	221.20	1.56	5.00	1659.86	220.00	1.57

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1359E+03 EXCESS= .0000E+00 OUTFLOW= .1359E+03 BASIN STORAGE= .1448E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM5	MANE	.56	2048.63	220.76	1.79	5.00	2026.97	220.00	1.79

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1662E+03 EXCESS= .0000E+00 OUTFLOW= .1662E+03 BASIN STORAGE= .1321E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM5	MANE	.57	1984.17	220.78	1.73	5.00	1962.48	220.00	1.73

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1611E+03 EXCESS= .0000E+00 OUTFLOW= .1611E+03 BASIN STORAGE= .1367E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM5	MANE	.57	1953.18	221.01	1.70	5.00	1932.31	220.00	1.70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1585E+03 EXCESS= .0000E+00 OUTFLOW= .1585E+03 BASIN STORAGE= .1361E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM5	MANE	.58	1897.53	220.74	1.65	5.00	1875.75	220.00	1.65

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1540E+03 EXCESS= .0000E+00 OUTFLOW= .1540E+03 BASIN STORAGE= .1302E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM5	MANE	.59	1826.65	220.63	1.59	5.00	1805.84	220.00	1.59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1483E+03 EXCESS= .0000E+00 OUTFLOW= .1483E+03 BASIN STORAGE= .1372E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM5	MANE	.59	1786.58	220.82	1.56	5.00	1767.19	225.00	1.56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1451E+03 EXCESS= .0000E+00 OUTFLOW= .1451E+03 BASIN STORAGE= .1388E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM6	MANE	.84	2408.37	221.28	1.78	5.00	2378.31	220.00	1.78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1948E+03 EXCESS= .0000E+00 OUTFLOW= .1948E+03 BASIN STORAGE= .2146E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM6	MANE	.85	2332.65	221.59	1.73	5.00	2304.76	220.00	1.73

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1888E+03 EXCESS= .0000E+00 OUTFLOW= .1888E+03 BASIN STORAGE= .2082E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM6	MANE	.85	2297.90	221.26	1.70	5.00	2266.17	220.00	1.70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1858E+03 EXCESS= .0000E+00 OUTFLOW= .1858E+03 BASIN STORAGE= .2182E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM6	MANE	.86	2231.48	221.30	1.65	5.00	2199.54	220.00	1.65

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1804E+03 EXCESS= .0000E+00 OUTFLOW= .1804E+03 BASIN STORAGE= .2122E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM6	MANE	.87	2149.90	221.16	1.59	5.00	2118.50	225.00	1.59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1738E+03 EXCESS= .0000E+00 OUTFLOW= .1738E+03 BASIN STORAGE= .2280E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM6	MANE	.88	2101.73	221.42	1.56	5.00	2075.67	225.00	1.56

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1700E+03 EXCESS= .0000E+00 OUTFLOW= .1700E+03 BASIN STORAGE= .2109E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

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          RUVB1-2A  MANE          2.94      79.32     220.40        .13       5.00      79.13     220.00          .13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1729E+01 EXCESS= .0000E+00 OUTFLOW= .1732E+01 BASIN STORAGE= .2098E-02 PERCENT ERROR=    -.3

          FOR PLAN = 1  RATIO=  .00
          RUVB1-2A  MANE          3.10      73.08     220.23        .11       5.00      71.92     220.00          .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1474E+01 EXCESS= .0000E+00 OUTFLOW= .1477E+01 BASIN STORAGE= .2086E-02 PERCENT ERROR=    -.4

          FOR PLAN = 1  RATIO=  .00
          RUVB1-2A  MANE          3.20      66.86     220.53        .11       5.00      64.78     220.00          .11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1393E+01 EXCESS= .0000E+00 OUTFLOW= .1396E+01 BASIN STORAGE= .2199E-02 PERCENT ERROR=    -.4

          FOR PLAN = 1  RATIO=  .00
          RUVB1-2A  MANE          3.39      58.89     220.65        .10       5.00      55.46     220.00          .10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1239E+01 EXCESS= .0000E+00 OUTFLOW= .1243E+01 BASIN STORAGE= .2125E-02 PERCENT ERROR=    -.5

          FOR PLAN = 1  RATIO=  .00
          RUVB1-2A  MANE          3.71      44.61     218.79        .08       5.00      43.39     220.00          .08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1094E+01 EXCESS= .0000E+00 OUTFLOW= .1097E+01 BASIN STORAGE= .2252E-02 PERCENT ERROR=    -.5

          FOR PLAN = 1  RATIO=  .00
          RUVB1-2A  MANE          3.95      39.01     221.19        .07       5.00      34.31     220.00          .07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9576E+00 EXCESS= .0000E+00 OUTFLOW= .9604E+00 BASIN STORAGE= .2027E-02 PERCENT ERROR=    -.5

          FOR PLAN = 1  RATIO=  .00
             RCOM7  MANE           .99     471.81     220.45       1.02       5.00     467.47     220.00         1.02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3084E+02 EXCESS= .0000E+00 OUTFLOW= .3085E+02 BASIN STORAGE= .1462E-02 PERCENT ERROR=     .0

          FOR PLAN = 1  RATIO=  .00
             RCOM7  MANE          1.01     454.50     221.16        .98       5.00     447.40     220.00          .98

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2968E+02 EXCESS= .0000E+00 OUTFLOW= .2968E+02 BASIN STORAGE= .1418E-02 PERCENT ERROR=     .0

          FOR PLAN = 1  RATIO=  .00
             RCOM7  MANE          1.02     440.87     220.74        .96       5.00     434.51     220.00          .96

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2911E+02 EXCESS= .0000E+00 OUTFLOW= .2911E+02 BASIN STORAGE= .1412E-02 PERCENT ERROR=     .0

          FOR PLAN = 1  RATIO=  .00
             RCOM7  MANE          1.04     420.86     220.78        .93       5.00     414.89     220.00          .93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2813E+02 EXCESS= .0000E+00 OUTFLOW= .2813E+02 BASIN STORAGE= .1424E-02 PERCENT ERROR=     .0

          FOR PLAN = 1  RATIO=  .00
             RCOM7  MANE          1.06     397.06     221.02        .89       5.00     390.92     220.00          .89

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2695E+02 EXCESS= .0000E+00 OUTFLOW= .2695E+02 BASIN STORAGE= .1390E-02 PERCENT ERROR=     .0

          FOR PLAN = 1  RATIO=  .00
             RCOM7  MANE          1.08     377.71     220.59        .87       5.00     374.48     220.00          .87

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2623E+02 EXCESS= .0000E+00 OUTFLOW= .2623E+02 BASIN STORAGE= .1350E-02 PERCENT ERROR=     .0

          FOR PLAN = 1  RATIO=  .00
             RCOM8  MANE           .38     603.84     220.21       1.19       5.00     602.74     220.00         1.19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4211E+02 EXCESS= .0000E+00 OUTFLOW= .4211E+02 BASIN STORAGE= .5127E-04 PERCENT ERROR=     .0

          FOR PLAN = 1  RATIO=  .00
             RCOM8  MANE           .38     580.24     220.44       1.15       5.00     579.22     220.00         1.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4064E+02 EXCESS= .0000E+00 OUTFLOW= .4064E+02 BASIN STORAGE= .5282E-04 PERCENT ERROR=     .0
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          FOR PLAN = 1  RATIO=  .00
            RCOM8  MANE          .38    566.00    220.42      1.13      5.00    564.95    220.00        1.13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3991E+02 EXCESS= .0000E+00 OUTFLOW= .3991E+02 BASIN STORAGE= .5362E-04 PERCENT ERROR=     .0

          FOR PLAN = 1  RATIO=  .00
            RCOM8  MANE          .38    543.54    220.30      1.10      5.00    542.42    220.00        1.10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3866E+02 EXCESS= .0000E+00 OUTFLOW= .3866E+02 BASIN STORAGE= .5134E-04 PERCENT ERROR=     .0

          FOR PLAN = 1  RATIO=  .00
            RCOM8  MANE          .39    515.92    220.29      1.05      5.00    515.03    220.00        1.05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3715E+02 EXCESS= .0000E+00 OUTFLOW= .3715E+02 BASIN STORAGE= .5395E-04 PERCENT ERROR=     .0

          FOR PLAN = 1  RATIO=  .00
            RCOM8  MANE          .39    497.52    220.35      1.03      5.00    496.98    220.00        1.03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3623E+02 EXCESS= .0000E+00 OUTFLOW= .3623E+02 BASIN STORAGE= .5161E-04 PERCENT ERROR=     .0

          FOR PLAN = 1  RATIO=  .00
            RDIV2A  MANE          .97    283.38    211.53     -1.00      5.00    282.00    220.00       -1.00


          FOR PLAN = 1  RATIO=  .00
            RDIV2A  MANE          .97    282.20    211.53     -1.00      5.00    281.99    220.00       -1.00


          FOR PLAN = 1  RATIO=  .00
            RDIV2A  MANE          .97    282.12    216.36     -1.00      5.00    281.95    220.00       -1.00


          FOR PLAN = 1  RATIO=  .00
            RDIV2A  MANE          .97    282.22    216.36     -1.00      5.00    281.89    220.00       -1.00


          FOR PLAN = 1  RATIO=  .00
            RDIV2A  MANE          .97    282.35    216.36     -1.00      5.00    281.82    220.00       -1.00


          FOR PLAN = 1  RATIO=  .00
            RDIV2A  MANE          .97    282.42    216.36     -1.00      5.00    281.78    220.00       -1.00


          FOR PLAN = 1  RATIO=  .00
            RUVB1-1C  MANE       2.14     37.77    212.13      2.29      5.00     35.35    210.00        2.28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2257E+01 EXCESS= .0000E+00 OUTFLOW= .2259E+01 BASIN STORAGE= .1139E-02 PERCENT ERROR=    -.1

          FOR PLAN = 1  RATIO=  .00
            RUVB1-1C  MANE       2.16     36.78    212.10      2.23      5.00     34.41    210.00        2.23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2198E+01 EXCESS= .0000E+00 OUTFLOW= .2200E+01 BASIN STORAGE= .1191E-02 PERCENT ERROR=    -.1

          FOR PLAN = 1  RATIO=  .00
            RUVB1-1C  MANE       2.18     35.71    213.19      2.20      5.00     33.76    215.00        2.19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2165E+01 EXCESS= .0000E+00 OUTFLOW= .2167E+01 BASIN STORAGE= .1214E-02 PERCENT ERROR=    -.1

          FOR PLAN = 1  RATIO=  .00
            RUVB1-1C  MANE       2.20     35.02    213.00      2.14      5.00     33.11    215.00        2.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2112E+01 EXCESS= .0000E+00 OUTFLOW= .2114E+01 BASIN STORAGE= .1025E-02 PERCENT ERROR=    -.1

          FOR PLAN = 1  RATIO=  .00
            RUVB1-1C  MANE       2.22     33.84    213.30      2.08      5.00     32.06    215.00        2.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2046E+01 EXCESS= .0000E+00 OUTFLOW= .2048E+01 BASIN STORAGE= .1331E-02 PERCENT ERROR=    -.2
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          FOR PLAN = 1  RATIO=  .00
          RUVB1-1C  MANE          2.24     33.69    212.58      2.04      5.00     31.82    215.00        2.04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2009E+01 EXCESS= .0000E+00 OUTFLOW= .2010E+01 BASIN STORAGE= .1216E-02 PERCENT ERROR=   -.1

          FOR PLAN = 1  RATIO=  .00
          RUVB1-1A  MANE           .64    410.55    215.75      2.33      5.00    409.10    215.00        2.34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2735E+02 EXCESS= .0000E+00 OUTFLOW= .2736E+02 BASIN STORAGE= .8615E-03 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
          RUVB1-1A  MANE           .65    400.48    215.31      2.27      5.00    398.61    215.00        2.27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2663E+02 EXCESS= .0000E+00 OUTFLOW= .2663E+02 BASIN STORAGE= .8152E-03 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
          RUVB1-1A  MANE           .65    395.48    215.75      2.24      5.00    393.91    215.00        2.24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2627E+02 EXCESS= .0000E+00 OUTFLOW= .2627E+02 BASIN STORAGE= .7979E-03 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
          RUVB1-1A  MANE           .66    386.01    215.79      2.19      5.00    384.69    215.00        2.19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2562E+02 EXCESS= .0000E+00 OUTFLOW= .2562E+02 BASIN STORAGE= .8050E-03 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
          RUVB1-1A  MANE           .67    376.27    215.66      2.12      5.00    373.89    215.00        2.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2483E+02 EXCESS= .0000E+00 OUTFLOW= .2483E+02 BASIN STORAGE= .8673E-03 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
          RUVB1-1A  MANE           .67    367.96    215.17      2.08      5.00    366.85    215.00        2.08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2436E+02 EXCESS= .0000E+00 OUTFLOW= .2437E+02 BASIN STORAGE= .8402E-03 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM12  MANE           .55    471.23    215.23      2.33      5.00    469.83    215.00        2.33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3167E+02 EXCESS= .0000E+00 OUTFLOW= .3167E+02 BASIN STORAGE= .7180E-03 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM12  MANE           .56    459.17    215.21      2.26      5.00    457.84    215.00        2.27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3083E+02 EXCESS= .0000E+00 OUTFLOW= .3083E+02 BASIN STORAGE= .7417E-03 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM12  MANE           .56    453.34    215.12      2.23      5.00    452.50    215.00        2.24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3041E+02 EXCESS= .0000E+00 OUTFLOW= .3041E+02 BASIN STORAGE= .7933E-03 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM12  MANE           .57    443.83    215.45      2.18      5.00    441.92    215.00        2.18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2966E+02 EXCESS= .0000E+00 OUTFLOW= .2966E+02 BASIN STORAGE= .7999E-03 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM12  MANE           .58    431.09    215.63      2.11      5.00    429.57    215.00        2.11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2875E+02 EXCESS= .0000E+00 OUTFLOW= .2875E+02 BASIN STORAGE= .7769E-03 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM12  MANE           .58    423.46    215.52      2.07      5.00    421.54    215.00        2.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2820E+02 EXCESS= .0000E+00 OUTFLOW= .2821E+02 BASIN STORAGE= .7324E-03 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
          RUVB1-1E  MANE          2.34     55.61    212.62      2.30      5.00     54.02    215.00        2.30
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .3431E+01 EXCESS= .0000E+00 OUTFLOW= .3434E+01 BASIN STORAGE= .1445E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.36	54.35	212.41	2.24	5.00	52.68	215.00	2.24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3341E+01 EXCESS= .0000E+00 OUTFLOW= .3344E+01 BASIN STORAGE= .1555E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.37	53.13	213.50	2.21	5.00	51.42	215.00	2.20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3290E+01 EXCESS= .0000E+00 OUTFLOW= .3293E+01 BASIN STORAGE= .1679E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.39	52.10	213.13	2.15	5.00	50.45	215.00	2.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3210E+01 EXCESS= .0000E+00 OUTFLOW= .3213E+01 BASIN STORAGE= .1406E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.42	50.56	213.23	2.08	5.00	48.97	215.00	2.08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3110E+01 EXCESS= .0000E+00 OUTFLOW= .3113E+01 BASIN STORAGE= .1424E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.44	49.83	212.32	2.05	5.00	48.59	215.00	2.05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3055E+01 EXCESS= .0000E+00 OUTFLOW= .3057E+01 BASIN STORAGE= .1372E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.68	165.52	217.80	.85	5.00	162.26	220.00	.85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1534E+03 EXCESS= .0000E+00 OUTFLOW= .1532E+03 BASIN STORAGE= .2135E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.69	161.58	218.17	.83	5.00	158.45	220.00	.83

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1512E+03 EXCESS= .0000E+00 OUTFLOW= .1510E+03 BASIN STORAGE= .2127E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.70	160.10	217.51	.83	5.00	157.09	220.00	.83

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1503E+03 EXCESS= .0000E+00 OUTFLOW= .1501E+03 BASIN STORAGE= .2123E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.71	156.67	217.69	.82	5.00	153.94	220.00	.82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1491E+03 EXCESS= .0000E+00 OUTFLOW= .1489E+03 BASIN STORAGE= .2110E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.73	152.36	218.32	.81	5.00	149.68	220.00	.82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1476E+03 EXCESS= .0000E+00 OUTFLOW= .1474E+03 BASIN STORAGE= .2092E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.74	150.10	218.01	.81	5.00	147.71	220.00	.81

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1467E+03 EXCESS= .0000E+00 OUTFLOW= .1465E+03 BASIN STORAGE= .2081E+00 PERCENT ERROR= .0

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

Detention Basin Calculations

NORTH DETENTION BASIN

BEGIN ELEVATION	END ELEVATION	CUBIC YARDS	CUBIC FEET	ACRE FEET
2710	2715	58,744	1,586,088	36.41
2715	2720	68,854	1,859,058	42.68
2720	2725	79,748	2,153,196	49.43
2725	2730	90,822	2,452,194	56.29
2730	2735	102,303	2,762,181	63.41
2735	2738	68,520	1,850,040	42.47
		468,991	12,662,757	290.70

October 1, 2004

Mike Hand, P.E.
Clark County Public Works
500 South Grand Central Parkway
Las Vegas, NV 89155

RE: Design Alternatives Memorandum
Western Beltway – Ultimate Improvements
Between Craig Road to Hualapai Way

Dear Mike:

The City of Las Vegas Flood Control Staff reviewed the Design Alternatives Memorandum prepared by G.C. Wallace in partnership with CH2MHill for the Western Beltway – Ultimate Improvements Between Craig Road to Hualapai Way.

It is the City's understanding that the purpose of this Design Memorandum is to address the major design concerns/modifications to continue the overall design process. The upcoming design submittals will need to fully address the City of Las Vegas comments from our May 27, 2004 letter.

Based upon our review of the Design Alternatives Memorandum we offer the following comments:

1. The Drainage Study needs a Table to identify the storage volumes within each detention basin. Include the 10-year volume and Water Surface Elevation (WSE) to verify the needed bench elevation for the future ball fields. Provide the 100-year WSE and storage volumes for each basin as well as the storage capacity at the spillway elevations. The study also needs to provide the PMF information for each basin. The 90% submittal drawings must include the basin inflow, outfall, storage, rating curves and drain time information as part of the design drawings. An Emergency Action Plan is required
2. The provided Basin Storage Curve shows a peak storage elevation around 2731. This is approximately 9-feet below the proposed spillway elevations. Based upon these volumes and freeboard, we must consider eliminating and/or raising the 8 x 8 balancing conduit to at or above the 10-year volumes. This would decrease the excessive fill on the 8 x 8 balancing conduit and reduce cost impacts for the deeper structure.
3. The next design submittal needs to include an additional set of plans as the proposed improvement plans show drainage facilities that must be reviewed for Maintenance and Access concerns. The engineer must submit an extra set of improvement plans to the Flood Control Section that will be forwarded to the Streets & Sanitation Department for their Maintenance and Access review.

for the Detention Basins. Provide an EAP for prior to City Approval. → 100% Plan review submittal to the State of Nevada for

4. The basin outfall pipe must be located such that the outlet structure is accessible for maintenance and not within the balancing conduit as it is currently shown.
5. The preliminary energy dissipation structures and calculations appear adequate for the systems as designed. Provide detailed design with the 90% plan.
6. The engineer must incorporate ~~all of~~ the City of Las Vegas comments from the May 27, 2004 design review letter with the ~~next~~ design submittal.

Please call our office at 229-6541 should you have any questions regarding these comments.

Sincerely,

Greg McDermott, P.E.
Flood Control Project Manager

CC: Charles Kajkowski, P.E. – CLV City Engineer
Randy Fultz, P.E. – CLV
Kevin Eubanks, P.E. – CCRFCD
Michael Lasko, P.E. – CH2MHill
John Taylor, P.E. – CH2MHill
Bill Hunter, P.E. – G.C. Wallace

F:\#Depot\Engineering_Planning\Flood\DSMEMOS\Public Study Reviews\W Beltway - Craig to Hualapai _ Design Update.doc

Work Copy

May 27, 2004

Mike Hand, P.E.
Clark County Public Works
500 South Grand Central Parkway
Las Vegas, NV 89155

RE: Western Beltway – Ultimate Improvements
Between Craig Road to Hualapai Way, 30% Submittal

Dear Mike:

The City of Las Vegas Flood Control Staff reviewed the 30% Improvement Plan submittal and the Preliminary Hydraulic Design Report (50% Submittal) prepared in partnership with CH2MHill and G.C. Wallace for the Western Beltway – Ultimate Improvements Between Craig Road to Hualapai Way.

It is the City's understanding that the County will maintain all interim drainage facilities until the permanent facilities are in place. The City of Las Vegas will maintain the permanent regional drainage facilities once an Interlocal Agreement is approved and the City accepts the improvements for maintenance purposes.

Based upon our review of the improvement plans and the drainage study we offer the following comments:

1. The Drainage Study needs to identify and discuss the flows entering the Detention Basins. The majority of the flow enters the north basin, yet the north basin is the smallest in capacity. The detention basin analysis needs to review these basins and how the inflow & outfall of each basin is balanced based upon the 8' x 8' RCB connecting the basins. Provide an exhibit for the basins showing the inflow to each basin and revised rating curve tables for the box connection between the north and south detention basins.
2. Provide justification for the Lone Mountain outfall size based upon only the 180 cfs discharge from the detention basins. Review the peak hydrographs of the beltway discharge to determine the impacts into the outfall system due to the seven-day discharge time of the basins.
3. The 30% Ultimate Onsite Drainage Design Memorandum from CH2MHill dated April 22, 2004 needs to be clarified. The City of Las Vegas understands that the Beltway facilities will be designed to convey the 100-year flows through a combination of a storm drain system and surface flow. The 100-year surface flow will be contained within the beltway roadside ditches without spreading into the adjacent travel lanes.
4. The storm drain system inflow design into the detention basins must be reviewed to determine the best channel/box drop and energy dissipation structures. The City of Las Vegas will be maintaining these ultimate facilities and the inflow locations must be as high as practical above the bottom of the detention basins. The entry configuration of the Gilmore Channel into the Lone Mountain Detention Basin can serve as a design guide to help with the design process.

Why Ballenger Conduit when we have ≥ 17' of Freeboard

Remo Ballenger Conduit Elevation to 10-yr H'ova Boxes

Reduce Outfall Pipe for Provide Basins for the 180 max

Outfall Pipe = 36" then 48"

5. The storm drain system has velocities in excess of 25 fps. The flow in the storm drain exceeds the maximum velocity allowed (25 fps) per the CCRFCD Manual. The Engineer must provide a detail showing how the higher velocities will be addressed on the plans. A Special Construction Note must be added to the Grading Plans and the Plan and Profile Sheets that calls out the special construction requirements needed. Provide special details and the supporting hydraulic calculations to show how the higher velocities are being mitigated.

6. Provide a detailed hydraulic analysis using WSPG or other programming approved for use with supercritical flow regimes for the recommended storm drain systems with the next submittal. Include detailed outlet protection calculations as the velocities are in excess of 25 fps.

7. The Drainage Study needs an Exhibit that shows the recommended storm drain system and labels the key concentration points with associated flows. The summary should include both storm drain and surface flows

8. The storm drain system design must include the collection of the 100-year beltway flows at all low points within the roadway. Provide calculations to show full drainage interception with appropriate freeboard calculations so that the system does not adversely impact the beltway. The onsite 100-year flow will have to be intercepted before the flow leaves the beltway.

9. The Detention Basin right-of-way grants need to be identified to assure timely processing of BLM approvals.

10. The concept of the southern basin being benched to accommodate a joint use facility (future park) is prudent given the large grading differential of the existing gravel pits. The CCRFCD guidelines require the multi-use bench area to be above the 10-year storage elevation of the basin. Review the bench location and sizing accordingly.

11. The HEC-1 analysis must be reviewed for proper CN values. A spot-check of Basins UVB1-1A & UVB1-2A found developed CN values of 91, where existing surrounding residential development uses lower numbers. Review and justify the CN values used and revise the HEC-1 analysis accordingly.

12. Figure 5 from the HEC-1 analysis shows 142 cfs being discharged from the detention basin outfall while the plans and basin calculations show a base flow of 180 cfs. Review and revise accordingly.

13. The City of Las Vegas currently shows Lone Mountain Road, west of Barden, as an 80-foot right-of-way. Coordinate the conceptual roadway improvements to provide a smooth transition from the 80 to the 100-foot sections.

14. The proposed low flow pipe systems within the detention basins must be increased to a minimum 36-inch diameter.

15. Provide a Block and Cable fencing system to secure both of the detention basins to limit access.

16. The Specifications for the construction contract must include the placement of a dust palliative over the surface of the detention basins for Air Quality compliance.

17. The Lone Mountain Road improvements should account for the future Park entry.

18. The project needs to discuss the construction of the Lone Mountain Road improvements adjacent to the detention basins.

19. The flow collection system along the west end of Lone Mountain Road needs to be reviewed to collect more flow off the road and into the upper end of the detention basins.

20. The project must continue to coordinate the Lone Mountain roadway design grades with the ongoing residential developments west of the Barden alignment.

21. Continue to coordinate the detention basin designs with the State of Nevada, Division of Water Resources – Dam Safety.

22. The outfall flow and system design must be coordinated with the ongoing Gowan North Channel Phase IV project, which is also being designed by G.C. Wallace.
23. The Engineer must add a 4-foot high two-cable safety fence along all vertical channels. Gates need to be provided at the access ladders.
24. Add the Q and the HGL to the Channel and Storm Drain Plan and Profile sheets.
25. The Engineer must provide for the necessary right-of-way, construction and grading easements outside of the Beltway right-of-way (Sheets C-1 – 19).
26. The Engineer should identify the size and capacity of the Drainage facilities serving the Beltway and include plan and profiles for the Storm Drains. Inlet sizes and capacities need to be provided to verify system design.
27. Complete details and sections of all proposed channel improvements must be provided. Include the details for the access ramps, maintenance roads and fencing requirements.
28. The removal of the Initial Beltway improvements needs to be addressed so that once the ultimate facilities are complete they will be removed.
29. The Engineer should detail the Drainage Inlet structures into the proposed Detention Basin at Lone Mountain and the Beltway.
30. Provide gauging stations for the main Channels prior to entering the Detention Basins. Coordinate design and location of the gauging stations with the Regional Flood Control District (Tim Sutko).
31. The Engineer should provide access ladders at a maximum of 600-foot spacing for the open channels per the RFCD requirements. The downstream offset ladder should be on the access road side of the Channel. The swing gate detail at the ladders should be provided.
32. The City of Las Vegas does not allow HDPE pipe in public rights-of-way or public drainage easements. The grading plan and detail sheets must be revised to show the storm drain systems consisting of reinforced concrete pipe (RCP).
33. Additional comments will be forthcoming from the Traffic Engineering Section and the Streets Department.
34. Additional redlined comments are provided on the plan sheets.

Please call our office at 229-6541 should you have any questions regarding these comments.

Sincerely,

Greg McDermott, P.E.
Flood Control Project Manager

CC: Charles Kajkowski, P.E. – CLV City Engineer
Randy Fultz, P.E. – CLV
Kevin Eubanks, P.E. – CCRFCD
Michael Lasko, P.E. – CH2MHill
John Taylor, P.E. – CH2MHill
Bill Hunter, P.E. – G.C. Wallace

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SOUTH DETENTION BASIN

BEGIN ELEVATION	END ELEVATION	CUBIC YARDS	CUBIC FEET	ACRE FEET
2700	2705	23,998	647,946	14.87
2705	2710	30,728	829,656	19.05
2710	2715	37,808	1,020,816	23.43
2715	2719	36,706	991,062	22.75
2719	2720	10,525	284,175	6.52
2720	2725	107,046	2,890,242	66.35
2725	2730	118,795	3,207,465	73.63
2730	2735	131,113	3,540,051	81.27
2735	2738	86,465	2,334,555	53.59
2738	2740	60,824	1,642,248	37.70
2740	2741	31,399	847,773	19.46
		675,407	18,235,989	418.64

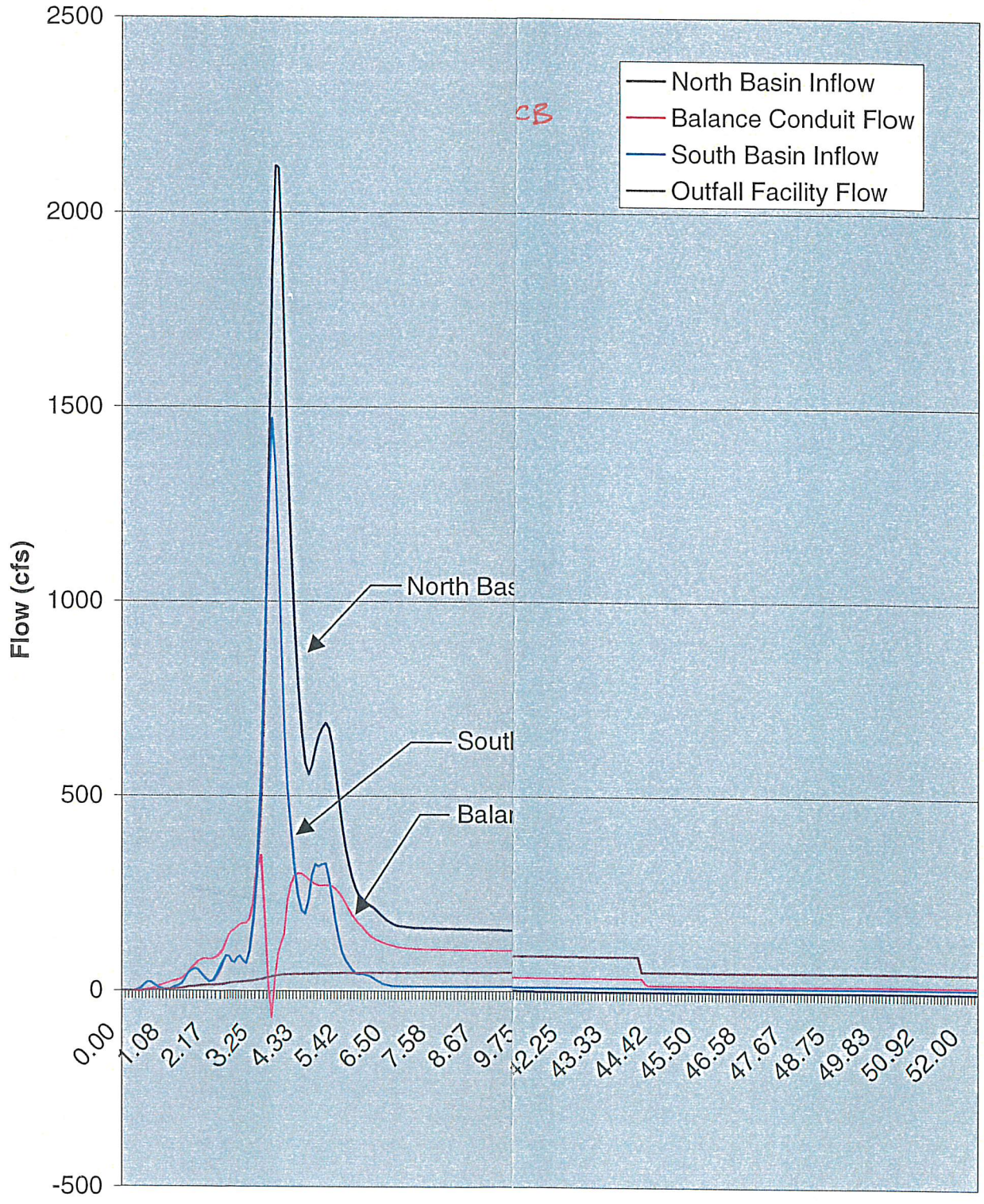

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Chart-Performance

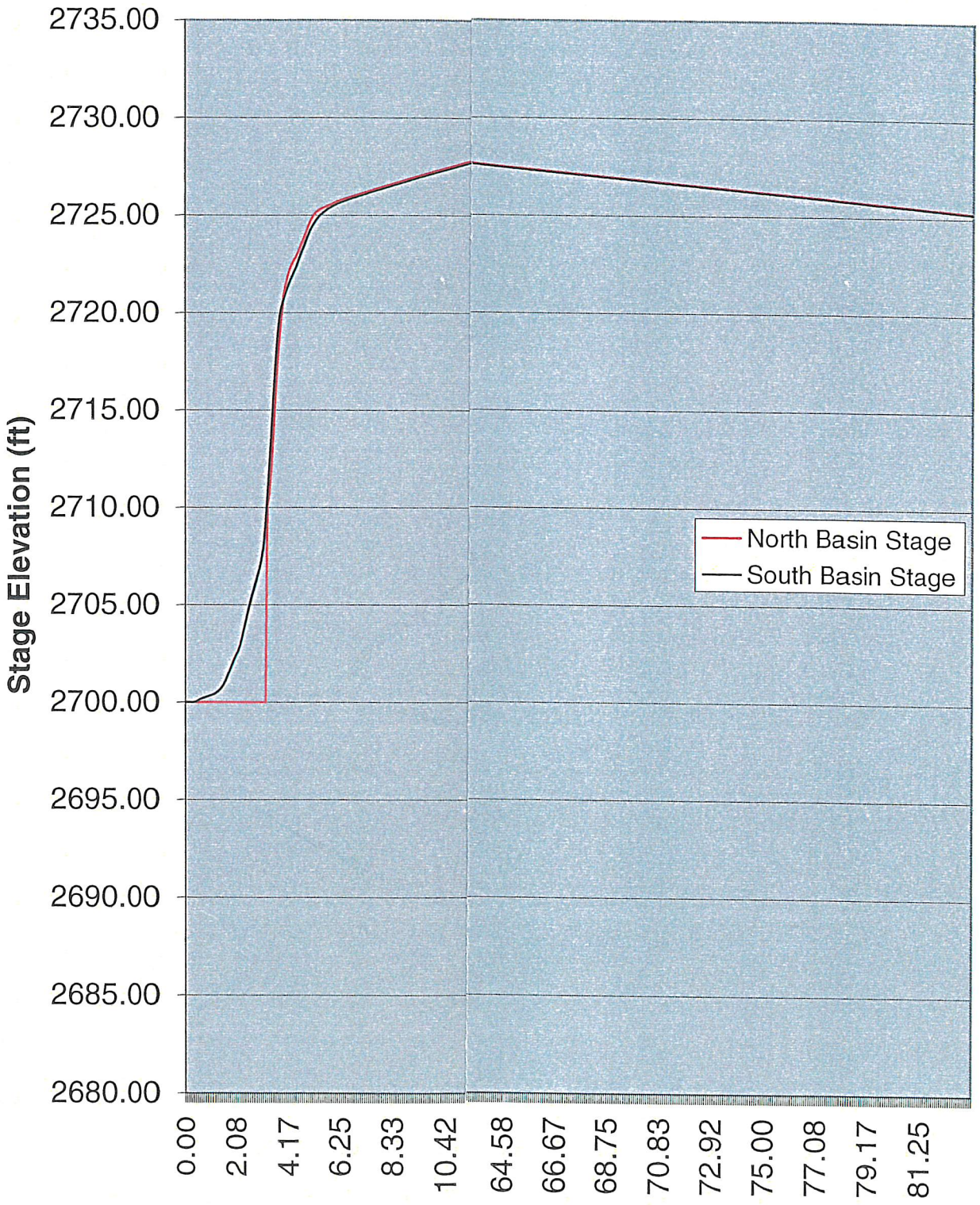

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Chart-Stage

8'x8' RCB

		North Basin								South Basin							Outfall Facility				
ORDINATE	Time	INFLOW	CUM. VOL	STAGE	HEAD	OUTFLOW	Δ VOL	NEW VOLUME	NEW ELEVATION	INFLOW	CUM. VOL	STAGE	INFLOW FROM NORTH BASIN	ADDITIONAL VOLUME	NEW VOLUME	NEW ELEVATION	Head	Flow	Δ VOL	NEW ELEVATION	COMBINED VOLUME
	(hr)	(cfs)	(AC-ft)	(ft)	(ft)	(cfs)	(AC-ft)	(AC-ft)	(ft)	(cfs)	(AC-ft)	(ft)	(cfs)	(AC-ft)		(ft)		(cfs)	(AC-ft)	(ft)	(AC-ft)
1	0.00	0	0.00	2700.00	0.00	0.00	0.000	0.000	2700.00	0	0.00	2700.00	0.00	0.000	0.000	2700.00	0.00	0.00	0.000	2700.00	0.000
2	0.08	0	0.00	2700.00	0.00	0.00	0.000	0.000	2700.00	0	0.00	2700.00	0.00	0.000	0.000	2700.00	0.00	0.00	0.000	2700.00	0.000
3	0.17	0	0.00	2700.00	0.00	0.00	0.000	0.000	2700.00	0	0.00	2700.00	0.00	0.000	0.000	2700.00	0.00	0.00	0.000	2700.00	0.000
4	0.25	0	0.00	2700.00	0.00	0.00	0.000	0.000	2700.00	0	0.00	2700.00	0.00	0.000	0.000	2700.00	0.00	0.00	0.000	2700.00	0.000
5	0.33	0	0.00	2700.00	0.00	0.00	0.000	0.000	2700.00	1	0.01	2700.00	0.00	0.000	0.007	2700.00	0.00	0.02	0.000	2700.00	0.007
6	0.42	0	0.00	2700.00	0.00	-2.01	0.000	0.000	2700.00	5	0.04	2700.01	0.00	0.000	0.041	2700.01	0.01	0.13	0.001	2700.01	0.040
7	0.50	1	0.01	2700.69	0.68	1.00	0.000	0.000	2700.00	14	0.14	2700.05	0.00	0.000	0.137	2700.05	0.05	0.42	0.003	2700.04	0.134
8	0.58	2	0.02	2702.07	2.02	3.00	0.021	0.000	2700.00	22	0.29	2700.10	3.00	0.021	0.306	2700.10	0.10	0.95	0.007	2700.10	0.299
9	0.67	4	0.03	2702.75	2.65	4.00	0.028	0.000	2700.00	22	0.45	2700.15	4.00	0.028	0.479	2700.16	0.16	1.48	0.010	2700.16	0.468
10	0.75	7	0.05	2704.82	4.66	7.00	0.048	0.000	2700.00	15	0.57	2700.19	7.00	0.048	0.620	2700.21	0.21	1.92	0.013	2700.20	0.607
11	0.83	10	0.07	2705.63	5.43	10.00	0.069	0.000	2700.00	9	0.67	2700.22	10.00	0.069	0.737	2700.25	0.25	2.29	0.016	2700.24	0.722
12	0.92	14	0.10	2706.55	6.30	14.00	0.096	0.000	2700.00	4	0.75	2700.25	14.00	0.096	0.846	2700.28	0.28	2.62	0.018	2700.28	0.828
13	1.00	17	0.12	2707.24	6.96	17.00	0.117	0.000	2700.00	2	0.84	2700.28	17.00	0.117	0.958	2700.32	0.32	2.97	0.020	2700.32	0.938
14	1.08	20	0.14	2707.92	7.61	20.00	0.138	0.000	2700.00	2	0.95	2700.32	20.00	0.138	1.090	2700.37	0.37	3.38	0.023	2700.36	1.066
15	1.17	23	0.16	2708.61	8.25	23.00	0.158	0.000	2700.00	5	1.10	2700.37	23.00	0.158	1.259	2700.42	0.42	3.90	0.027	2700.41	1.232
16	1.25	26	0.18	2709.30	8.89	26.00	0.179	0.000	2700.00	10	1.30	2700.44	26.00	0.179	1.480	2700.50	0.50	4.59	0.032	2700.49	1.449
17	1.33	28	0.19	2709.76	9.27	28.00	0.193	0.000	2700.00	13	1.54	2700.52	28.00	0.193	1.731	2700.58	0.58	5.36	0.037	2700.57	1.694
18	1.42	31	0.21	2710.00	9.43	31.00	0.213	0.000	2700.00	18	1.82	2700.61	31.00	0.213	2.031	2700.68	0.68	6.30	0.043	2700.67	1.988
19	1.50	37	0.25	2710.01	9.34	37.00	0.255	0.000	2700.00	30	2.19	2700.74	37.00	0.255	2.450	2700.82	0.82	7.59	0.052	2700.81	2.397
20	1.58	45	0.31	2710.02	9.21	45.00	0.310	0.000	2700.00	44	2.70	2700.91	45.00	0.310	3.010	2701.01	1.01	9.26	0.064	2700.99	2.946
21	1.67	55	0.38	2710.02	9.03	55.00	0.379	0.000	2700.00	52	3.30	2701.11	55.00	0.379	3.683	2701.24	1.24	10.13	0.070	2701.22	3.614
22	1.75	66	0.45	2710.03	8.82	66.00	0.455	0.000	2700.00	56	4.00	2701.34	66.00	0.455	4.454	2701.50	1.50	11.12	0.077	2701.47	4.377
23	1.83	75	0.52	2710.04	8.57	75.00	0.517	0.000	2700.00	53	4.74	2701.59	75.00	0.517	5.259	2701.77	1.77	12.15	0.084	2701.74	5.175
24	1.92	80	0.55	2710.05	8.31	80.00	0.551	0.000	2700.00	42	5.46	2701.84	80.00	0.551	6.015	2702.02	2.02	13.10	0.090	2701.99	5.925
25	2.00	82	0.56	2710.05	8.06	82.00	0.565	0.000	2700.00	31	6.14	2702.06	82.00	0.565	6.703	2702.25	2.25	13.78	0.095	2702.22	6.608
26	2.08	81	0.56	2710.05	7.83	81.00	0.558	0.000	2700.00	23	6.77	2702.28	81.00	0.558	7.325	2702.46	2.46	14.39	0.099	2702.43	7.225
27	2.17	82	0.56	2710.05	7.62	82.00	0.565	0.000	2700.00	26	7.40	2702.49	82.00	0.565	7.969	2702.68	2.68	15.03	0.103	2702.64	7.866
28	2.25	89	0.61	2710.06	7.41	89.00	0.613	0.000	2700.00	45	8.18	2702.75	89.00	0.613	8.789	2702.96	2.96	15.83	0.109	2702.92	8.680
29	2.33	105	0.72	2710.07	7.15	105.00	0.723	0.000	2700.00	72	9.18	2703.09	105.00	0.723	9.899	2703.33	3.33	16.78	0.116	2703.29	9.783
30	2.42	125	0.86	2710.09	6.80	125.00	0.861	0.000	2700.00	90	10.40	2703.50	125.00	0.861	11.264	2703.79	3.79	17.91	0.123	2703.75	11.140
31	2.50	143	0.98	2710.11	6.36	143.00	0.985	0.000	2700.00	88	11.75	2703.95	143.00	0.985	12.731	2704.28	4.28	19.05	0.131	2704.24	12.600
32	2.58	152	1.05	2710.12	5.88	152.00	1.047	0.000	2700.00	74	13.11	2704.41	152.00	1.047	14.157	2704.76	4.76	20.09	0.138	2704.71	14.018
33	2.67	156	1.07	2710.12	5.41	156.00	1.074	0.000	2700.00	72	14.51	2704.88	156.00	1.074	15.588	2705.19	5.19	20.98	0.145	2705.15	15.444
34	2.75	163	1.12	2710.13	4.98	163.00	1.123	0.000	2700.00	84	16.02	2705.30	163.00	1.123	17.145	2705.60	5.60	21.79	0.150	2705.56	16.995
35	2.83	170	1.17	2710.13	4.58	170.00	1.171	0.000	2700.00	89	17.61	2705.72	170.00	1.171	18.779	2706.03	6.03	22.63	0.156	2705.99	18.623
36	2.92	173	1.19	2710.14	4.15	173.00	1.191	0.000	2700.00	77	19.15	2706.12	173.00	1.191	20.345	2706.44	6.44	23.37	0.161	2706.39	20.184
37	3.00	173	1.19	2710.14	3.74	173.00	1.191	0.000	2700.00	70	20.67	2706.52	173.00	1.191	21.857	2706.83	6.83	24.09	0.166	2706.79	21.691
38	3.08	184	1.27	2710.15	3.36	184.00	1.267	0.000	2700.00	101	22.39	2706.97	184.00	1.267	23.654	2707.31	7.31	24.90	0.172	2707.26	23.483
39	3.17	224	1.54	2710.18	2.92	224.00	1.543	0.000	2700.00	179	24.72	2707.58	224.00	1.543	26.258	2707.99	7.99	26.05	0.179	2707.94	26.079
40	3.25	315	2.17	2710.27	2.33	315.00	2.169	0.000	2700.00	310	28.21	2708.50	315.00	2.169	30.383	2709.07	9.07	27.76	0.191	2709.02	30.192
41	3.33	511	3.52	2710.46	1.43	347.19	2.391	1.128	2710.13	556	34.02	2710.02	347.19	2.391	36.412	2710.53	10.53	29.91	0.206	2710.49	37.334
42	3.42	860	7.05	2710.94	0.45	188.74	1.300	5.751	2710.76	896	42.38	2711.80	188.74	1.300	43.677	2712.08	12.08	32.04	0.221	2712.04	49.207
43	3.50	1357	15.10	2712.05	0.01	9.47	0.065	15.032	2712.04	1274	52.23	2713.91	9.47	0.065	52.296	2713.92	13.92	34.39	0.237	2713.87	67.090
44	3.58	1858	27.83	2713.79	-0.08	-68.32	-0.471	28.298	2713.86	1470	62.18	2715.83	-68.32	-0.471	61.712	2715.75	15.75	36.57	0.252	2715.70	89.758
45	3.67	2119	42.89	2715.74	0.03	30.04	0.207	42.685	2715.71	1352	70.77	2717.29	30.04	0.207	70.978	2717.33	17.33	38.37	0.264	2717.28	113.399
46	3.75	2114	57.24	2717.42	0.13	95.44	0.657	56.587	2717.34	1136	78.54	2718.62	95.44	0.657	79.195	2718.73	18.73	39.89	0.275	2718.68	135.507
47	3.83	1926	69.85	2718.89	0.21	121.57	0.837	69.014	2718.80	892	85.06	2719.73	121.57	0.837	85.901	2719.88	19.88	41.10	0.283	2719.83	154.632
48	3.92	1646	80.35	2720.11	0.28	145.54	1.002	79.348	2720.01	665	90.20	2720.27	145.54	1.002	91.200	2720.35	20.35	41.57	0.286	2720.32	170.261
49	4.00	1370	88.78	2720.96	0.64	228.47	1.573	87.209	2720.80	519	94.49	2720.59	228.47	1.573	96.062	2720.71	20.71	41.95	0.289	2720.69	182.982
50	4.08	1142	95.07	2721.60	0.91	273.37	1.883	93.192	2721.41	417	98.64	2720.91	273.37	1.883	100.527	2721.05	21.05	42.29	0.291	2721.03	193.428
51	4.17	948	99.72	2722.07	1.04	293.93	2.024	97.696	2721.86	318	102.43	2721.19	293.93	2.024	104.450	2721.34	21.34	42.58	0.293	2721.32	201.853
52	4.25	786	103.11	2722.41	1.09	301.21	2.074	101.035	2722.20	244	105.84	2721.45	301.21	2.074	107.912	2721.60	21.60	42.84	0.295	2721.58	208.652
53	4.33	663	105.60	2722.66	1.08	299.87	2.065	103.536	2722.45	205	109.03	2721.69	299.87	2.065	111.094	2721.84	21.84	43.08	0.297	2721.82	214.333
54	4.42	583	107.55	2722.86	1.04	293.35	2.020	105.531	2722.65	198	112.16	2721.92	293.35	2.020	114.181	2722.08	22.08	43.31	0.298	2722.05	219.414
55	4.50	555	109.35	2723.04	0.99	285.62	1.967	107.386	2722.84	234	115.49	2722.18	285.62	1.967	117.462	2722.32	22.32	43.55	0.300	2722.30	224.548
56	4.58	577	111.36	2723.24	0.94	278.83	1.920	109.440	2723.05	296	119.20	2722.46	278.83	1.920	121.120	2722.60	22.60	43.82	0.302	2722.58	230.258
57	4.67	621	113.72	2723.48	0.91	273.11	1.881	111.835	2723.29	324	123.05	2722.75	273.11	1.881	124.931	2722.89	22.89	44.10	0.304	2722.86	236.463
58	4.75	654	116.34	2723.75	0.88	269.77	1.858	114.482	2723.56	319	126.82	2723.03	269.77	1.858	128.682	2723.17	23.17	44.37	0.306	2723.15	242.858
59	4.83	674	119.12	2724.03	0.88	269.63	1.857	117.267	2723.84	324	130.61	2723.31	269.63	1.857	132.465	2723.45	23.45	44.64	0.307	2723.43	249.424
60	4.92	687	122.00	2724.32	0.89	270.53	1.863	120.135	2724.13	326	134.40	2723.60	270.53	1.863	136.266	2723.74	23.74	44.91	0.309	2723.72	256.091
61	5.00	672	124.76	2724.60	0.88	269.51	1.856	122.907	2724.41	288	137.94	2723.87	269.51	1.856	139.796	2724.01	24.01	45.16	0.311	2723.98	262.392
62	5.08	628	127.23	2724.85	0.87	267.02	1.839	125.393	2724.66	234	141.10	2724.11	267.02	1.839	142.936	2724.24	24.24	45.39	0.313	2724.22	268.016
63	5.17	563	129.27	2725.05	0.83	261.32	1.800	127.470	2724.87	179	143.86	2724.31	261.32	1.800	145.656	2724.45	24.45	45.58	0.314	2724.43	272.812
64	5.25	490	130.85	2725.19	0.76	251.33	1.731	129.114	2725.04	133	146.26	2724.49	251.33	1.731	147.989	2724.62	24.62	45.74	0.315	2724.60	276.788
65	5.33	422	132.02	2725.29	0.69	240.35	1.655	130.365	2725.15	99	148.36	2724.65	240.35	1.655	150.011	2724.78	24.78	45.88	0.316	2724.75	280.060
66	5.42	365	132.88	2725.37	0.62	224.05	1.543	131.336	2725.23	79	150.24	2724.79	224.05	1.543	151.782	2724.91	24.91	46.01	0.317	2724.89	282.801
67	5.50	323	133.56	2725.43	0.54	208.30	1.435	132.126	2725.30	68	151.92	2724.92	208.30	1.435	153.354	2725.03	25.03	46.11	0.318	2725.00	285.162
68	5.58	289	134.12	2725.48	0.47	193.47	1.332	132.784	2725.36	54	153.41	2725.03	193.47	1.332	154.741	2725.12	25.12	46.20	0.318	2725.10	287.206
69	5.67	263	134.60	2725.52	0.42	182.32	1.256	133.339	2725.41	45	154.73	2725.12	182.32	1.256	155.988	2725.20	25.20	46.28	0.319	2725.18	289.009
70	5.75	245	135.03	2725.55	0.38	172.30	1.187	133.840	2725.45	43	155.97	2725.20	172.30	1.187	157.152	2725.28	25.28	46.35	0.319	2725.26	290.673
71	5.83	235	135.46	2725.60	0.34	163.51	1.126	134.333	2725.50	44	157.14	2725.28	163.51	1.126	158.262	2725.36	25.36	46.42	0.320	2725.34	292.275
72	5.92	227	135.90	2725.64	0.30	152.95	1.053	134.642	2725.54	41	158.22	2725.36	152.95	1.053	159.278	2725.43	25.43	46.48	0.320	2725.41	293.801
73	6.00	220	136.36	2725.68	0.27	143.23	0.986	135.371	2725.59	38	159.22	2725.42	143.23	0.986	160.206	2725.49	25.49	46.54	0.321	2725.47	295.257
74	6.08	214	136.85	2725.72	0.25	136.38	0.939	135.906	2725.64	34	160.12	2725.49	136.38	0.939	161.059	2725.55	25.55	46.59	0.321	2725.53	296.644
75	6.17	207	137.33	2725.76	0.24	131.27	0.904	136.427	2725.68	28	160.93	2725.54	131.27	0.904	161.835	2725.60	25.60	46.64	0.321	2725.58	297.941
76	6.25	198	137.79	2725.81	0.23	127.15	0.876	136.915	2725.73	23	161.67	2725.59	127.15	0.876	162.548	2725.65	25.65	46.68	0.322	2725.63	299.142
77	6.33	190	138.22	2725.84	0.22	123.69	0.852	137.372	2725.77	18	162.35	2725.64	123.69	0.852	163.202	2725.69	25.69	46.72	0.322	2725.67	300.253
78	6.42	182	138.63	2725.88	0.21	120.65	0.831	137.795	2725.81	16	162.99	2725.68	120.65	0.831	163.822	2725.74	25.74	46.76	0.322	2725.72	301.294
79	6.50	176	139.01	2725.91	0.20	117.80	0.811	138.195	2725.84	14	163.60	2725.72	117.80	0.811	164.407	2725.78	25.78	46.80	0.322	2725.75	302.280
80	6.58	172	139.38	2725.95	0.19	115.51	0.796	138.584	2725.88	13	164.17	2725.76	115.51	0.796	164.970	2725.81	25.81	46.83	0.323	2725.79	303.232
81	6.67	168	139.74	2725.98	0.19	113.39	0.781	138.961	2725.91	13	164.74	2725.80	113.39	0.781	165.518	2725.85	25.85	46.87	0.323	2725.83	304.156

ORDINATE	Time	INFLOW	CUM. VOL.	STAGE	HEAD	OUTFLOW	Δ VOL	NEW VOLUME	NEW ELEVATION
	(hr)	(cfs)	(AC-ft)	(ft)	(ft)	(cfs)	(AC-ft)	(AC-ft)	(ft)
82	6.75	166	140.10	2726.01	0.18	111.65	0.769	139.335	2725.94
83	6.83	165	140.47	2726.04	0.18	110.52	0.761	139.710	2725.98
84	6.92	164	140.84	2726.08	0.18	109.60	0.755	140.085	2726.01
85	7.00	163	141.21	2726.11	0.17	108.82	0.749	140.458	2726.04
86	7.08	162	141.57	2726.14	0.17	108.13	0.745	140.829	2726.08
87	7.17	162	141.94	2726.17	0.17	107.70	0.742	141.203	2726.11
88	7.25	162	142.32	2726.21	0.17	107.44	0.740	141.579	2726.14
89	7.33	161	142.69	2726.24	0.17	107.06	0.737	141.950	2726.18
90	7.42	161	143.06	2726.27	0.17	106.84	0.736	142.323	2726.21
91	7.50	161	143.43	2726.31	0.17	106.70	0.735	142.697	2726.24
92	7.58	161	143.81	2726.34	0.17	106.62	0.734	143.072	2726.27
93	7.67	160	144.17	2726.37	0.17	106.36	0.733	143.441	2726.31
94	7.75	160	144.54	2726.41	0.17	106.20	0.731	143.811	2726.34
95	7.83	160	144.91	2726.44	0.17	106.11	0.731	144.183	2726.37
96	7.92	160	145.28	2726.47	0.16	106.06	0.730	144.554	2726.41
97	8.00	160	145.66	2726.50	0.16	106.03	0.730	144.926	2726.44
98	8.08	159	146.02	2726.54	0.16	105.80	0.729	145.292	2726.47
99	8.17	159	146.39	2726.57	0.16	105.67	0.728	145.659	2726.50
100	8.25	159	146.75	2726.60	0.16	105.59	0.727	146.027	2726.54
101	8.33	159	147.12	2726.63	0.16	105.54	0.727	146.395	2726.57
102	8.42	159	147.49	2726.67	0.16	105.52	0.727	146.764	2726.60
103	8.50	158	147.85	2726.70	0.16	105.30	0.725	147.127	2726.63
104	8.58	158	148.21	2726.73	0.16	105.16	0.724	147.491	2726.67
105	8.67	158	148.58	2726.76	0.16	105.08	0.724	147.855	2726.70
106	8.75	158	148.94	2726.80	0.16	105.04	0.723	148.220	2726.73
107	8.83	158	149.31	2726.83	0.16	105.01	0.723	148.585	2726.76
108	8.92	157	149.67	2726.86	0.16	104.79	0.722	148.944	2726.80
109	9.00	157	150.03	2726.89	0.16	104.66	0.721	149.305	2726.83
110	9.08	157	150.39	2726.92	0.16	104.58	0.720	149.666	2726.86
111	9.17	157	150.75	2726.96	0.16	104.53	0.720	150.027	2726.89
112	9.25	156	151.10	2726.99	0.16	104.30	0.718	150.383	2726.92
113	9.33	156	151.46	2727.02	0.16	104.16	0.717	150.740	2726.96
114	9.42	156	151.81	2727.05	0.16	104.07	0.717	151.098	2726.99
115	9.50	156	152.17	2727.08	0.16	104.02	0.716	151.456	2727.02
116	9.58	156	152.53	2727.11	0.16	104.00	0.716	151.814	2727.05
117	9.67	155	152.88	2727.15	0.16	103.77	0.715	152.167	2727.08
118	9.75	155	153.23	2727.18	0.16	103.64	0.714	152.521	2727.11
119	9.83	155	153.59	2727.21	0.16	103.56	0.713	152.875	2727.15
120	9.92	155	153.94	2727.24	0.16	103.51	0.713	153.229	2727.18
121	10.00	155	154.30	2727.27	0.16	103.49	0.713	153.584	2727.21
122	10.08	154	154.64	2727.30	0.16	103.27	0.711	153.934	2727.24
123	10.17	154	154.99	2727.33	0.16	103.13	0.710	154.284	2727.27
124	10.25	154	155.34	2727.36	0.16	103.05	0.710	154.635	2727.30
125	10.33	154	155.70	2727.40	0.16	103.01	0.709	154.986	2727.33
126	10.42	154	156.05	2727.43	0.16	102.98	0.709	155.337	2727.36
127	10.50	153	156.39	2727.46	0.16	102.76	0.708	155.683	2727.40
128	10.58	153	156.74	2727.49	0.16	102.62	0.707	156.030	2727.43
129	10.67	153	157.08	2727.52	0.15	102.54	0.706	156.378	2727.46
130	10.75	153	157.43	2727.55	0.15	102.50	0.706	156.726	2727.49
131	10.83	152	157.77	2727.58	0.15	102.26	0.704	157.068	2727.52
132	10.92	152	158.12	2727.61	0.15	102.12	0.703	157.412	2727.55
133	11.00	152	158.46	2727.64	0.15	102.03	0.703	157.756	2727.58
134	11.08	152	158.80	2727.67	0.15	101.98	0.702	158.100	2727.61
135	11.17	151	159.14	2727.70	0.15	101.75	0.701	158.440	2727.64
136	11.25	151	159.48	2727.73	0.15	101.60	0.700	158.780	2727.67
137	11.33	151	159.82	2727.76	0.15	101.51	0.699	159.121	2727.70
138	11.42	151	160.16	2727.79	0.15	101.46	0.699	159.462	2727.73
139	11.50	151	160.50	2727.82	0.15	101.44	0.699	159.803	2727.76
140	11.58	150	160.84	2727.85	0.15	101.21	0.697	160.139	2727.79
141	11.67	150	161.17	2727.88	0.15	101.08	0.696	160.476	2727.82
142	11.75	150	161.51	2727.91	0.15	101.00	0.696	160.813	2727.85
143	11.83	150	161.85	2727.94	0.15	100.95	0.695	161.151	2727.88
144	11.92	150	162.18	2727.97	0.15	100.93	0.695	161.489	2727.91
145	12.00	149	162.52	2728.00	0.15	100.70	0.694	161.822	2727.94
146	12.08	149	162.85	2728.03	0.15	100.57	0.693	162.155	2727.97
147	12.17	149	163.18	2728.06	0.15	100.49	0.692	162.490	2728.00
148	12.25	149	163.52	2728.09	0.15	100.44	0.692	162.824	2728.03
149	12.33	148	163.84	2728.12	0.15	100.20	0.690	163.153	2728.06
150	12.42	148	164.17	2728.15	0.15	100.06	0.689	163.483	2728.09
151	12.50	148	164.50	2728.18	0.15	99.97	0.689	163.814	2728.12
152	12.58	148	164.83	2728.21	0.15	99.92	0.688	164.145	2728.15
153	12.67	148	165.18	2728.24	0.15	99.90	0.688	164.477	2728.18
154	12.75	147	165.49	2728.27	0.15	99.67	0.686	164.802	2728.21
155	12.83	147	165.81	2728.29	0.15	99.54	0.686	165.129	2728.23
156	12.92	147	166.14	2728.32	0.15	99.45	0.685	165.457	2728.26
157	13.00	147	166.47	2728.35	0.15	99.41	0.685	165.785	2728.29
158	13.08	146	166.79	2728.38	0.15	99.17	0.683	166.107	2728.32
159	13.17	146	167.11	2728.41	0.14	99.03	0.682	166.431	2728.35
160	13.25	146	167.44	2728.44	0.14	98.94	0.681	166.755	2728.38
161	13.33	146	167.76	2728.47	0.14	98.89	0.681	167.079	2728.41
162	13.42	146	168.08	2728.50	0.14	98.86	0.681	167.404	2728.44
163	13.50	145	168.40	2728.52	0.14	98.64	0.679	167.723	2728.46
164	13.58	145	168.72	2728.55	0.14	98.50	0.678	168.043	2728.49

INFLOW	CUM. VOL.	STAGE	INFLOW FROM NORTH BASIN	ADDITIONAL VOLUME	NEW VOLUME	NEW ELEVATION	Head	Flow	Δ VOL	NEW ELEVATION	COMBINED VOLUME
(cfs)	(AC-ft)	(ft)	(cfs)	(AC-ft)		(ft)		(cfs)	(AC-ft)	(ft)	(AC-ft)
12	165.28	2725.84	111.65	0.769	166.047	2725.89	25.89	46.90	0.323	2725.87	305.059
12	165.81	2725.87	110.52	0.761	166.568	2725.92	25.92	46.93	0.323	2725.90	305.954
12	166.33	2725.91	109.60	0.755	167.082	2725.96	25.96	46.96	0.323	2725.94	306.843
12	166.84	2725.94	108.82	0.749	167.590	2725.99	25.99	47.00	0.324	2725.97	307.725
12	167.35	2725.98	108.13	0.745	168.094	2726.03	26.03	47.03	0.324	2726.01	308.599
12	167.85	2726.01	107.70	0.742	168.595	2726.06	26.06	47.06	0.324	2726.04	309.473
12	168.35	2726.04	107.44	0.740	169.093	2726.09	26.09	47.09	0.324	2726.07	310.347
12	168.85	2726.08	107.06	0.737	169.589	2726.13	26.13	47.12	0.324	2726.11	311.214
12	169.35	2726.11	106.84	0.736	170.083	2726.16	26.16	47.15	0.325	2726.14	312.081
12	169.84	2726.15	106.70	0.735	170.576	2726.20	26.20	47.18	0.325	2726.17	312.948
12	170.33	2726.18	106.62	0.734	171.068	2726.23	26.23	47.21	0.325	2726.21	313.814
12	170.83	2726.21	106.36	0.733	171.558	2726.26	26.26	47.24	0.325	2726.24	314.673
12	171.31	2726.25	106.20	0.731	172.046	2726.30	26.30	47.27	0.326	2726.27	315.532
12	171.80	2726.28	106.11	0.731	172.534	2726.33	26.33	47.30	0.326	2726.31	316.391
12	172.29	2726.31	106.06	0.730	173.022	2726.36	26.36	47.33	0.326	2726.34	317.250
12	172.78	2726.35	106.03	0.730	173.509	2726.39	26.39	47.36	0.326	2726.37	318.108
12	173.27	2726.38	105.80	0.729	173.994	2726.43	26.43	47.38	0.326	2726.41	318.960
12	173.75	2726.41	105.67	0.728	174.478	2726.46	26.46	47.41	0.327	2726.44	319.811
12	174.23	2726.44	105.59	0.727	174.961	2726.49	26.49	47.44	0.327	2726.47	320.662
12	174.72	2726.48	105.54	0.727	175.444	2726.53	26.53	47.47	0.327	2726.50	321.512
12	175.20	2726.51	105.52	0.727	175.926	2726.56	26.56	47.50	0.327	2726.54	322.363
12	175.68	2726.54	105.30	0.725	176.407	2726.59	26.59	47.53	0.327	2726.57	323.206
12	176.16	2726.57	105.16	0.724	176.887	2726.62	26.62	47.56	0.328	2726.60	324.050
12	176.64	2726.61	105.08	0.724	177.365	2726.66	26.66	47.59	0.328	2726.63	324.893
12	177.12	2726.64	105.04	0.723	177.844	2726.69	26.69	47.62	0.328	2726.67	325.735
12	177.60	2726.67	105.01	0.723	178.322	2726.72	26.72	47.65	0.328	2726.70	326.578
12	178.08	2726.70	104.79	0.722	178.798	2726.75	26.75	47.68	0.328	2726.73	327.414
12	178.55	2726.74	104.66	0.721	179.273	2726.79	26.79	47.71	0.329	2726.76	328.249
12	179.03	2726.77	104.58	0.720	179.747	2726.82	26.82	47.73	0.329	2726.80	329.084
12	179.50	2726.80	104.53	0.720	180.221	2726.85	26.85	47.76	0.329	2726.83	329.919
12	179.97	2726.83	104.30	0.718	180.693	2726.88	26.88	47.79	0.329	2726.86	330.747
12	180.45	2726.87	104.16	0.717	181.164	2726.91	26.91	47.82	0.329	2726.89	331.575
12	180.92	2726.90	104.07	0.717	181.634	2726.95	26.95	47.85	0.330	2726.92	332.402
12	181.39	2726.93	104.02	0.716	182.103	2726.98	26.98	47.88	0.330	2726.96	333.229
12	181.86	2726.96	104.00	0.716	182.572	2727.01	27.01	47.91	0.330	2726.99	334.057
12	182.33	2726.99	103.77	0.715	183.040	2727.04	27.04	47.93	0.330	2727.02	334.877
12	182.79	2727.03	103.64	0.714	183.506	2727.07	27.07	47.96	0.330	2727.05	335.696
12	183.26	2727.06	103.56	0.713	183.972	2727.11	27.11	47.99	0.331	2727.08	336.516
12	183.72	2727.09	103.51	0.713	184.437	2727.14	27.14	48.02	0.331	2727.11	337.335
12	184.19	2727.12	103.49	0.713	184.901	2727.17	27.17	48.05	0.331	2727.15	338.155
12	184.65	2727.15	103.27	0.711	185.364	2727.20	27.20	48.07	0.331	2727.18	338.967
12	185.12	2727.18	103.13	0.710	185.826	2727.23	27.23	48.10	0.331	2727.21	339.779
12	185.58	2727.21	103.05	0.710	186.287	2727.26	27.26	48.13	0.331	2727.24	340.591
12	186.04	2727.25	103.01	0.709	186.748	2727.29	27.29	48.16	0.332	2727.27	341.402
12	186.50	2727.28	102.98	0.709	187.208	2727.33	27.33	48.18	0.332	2727.30	342.214
12	186.96	2727.31	102.76	0.708	187.667	2727.36	27.36	48.21	0.332	2727.33	343.018
12	187.42	2727.34	102.62	0.707	188.124	2727.39	27.39	48.24	0.332	2727.36	343.822
12	187.87	2727.37	102.54	0.706	188.581	2727.42	27.42	48.26	0.332	2727.40	344.626
12	188.33	2727.40	102.50	0.706	189.037	2727.45	27.45	48.29	0.333	2727.43	345.430
12	188.79	2727.43	102.26	0.704	189.491	2727.48	27.48	48.32	0.333	2727.46	346.227
12	189.24	2727.46	102.12	0.703	189.944	2727.51	27.51	48.35	0.333	2727.49	347.023
12	189.69	2727.49	102.03	0.703	190.397	2727.54	27.54	48.37	0.333	2727.52	347.819
12	190.15	2727.52	101.98	0.702	190.849	2727.57	27.57	48.40	0.333	2727.55	348.616
12	190.60	2727.56	101.75	0.701	191.299	2727.60	27.60	48.43	0.334	2727.58	349.405
12	191.05	2727.59	101.60	0.700	191.747	2727.63	27.63	48.45	0.334	2727.61	350.193
12	191.50	2727.62	101.51	0.699	192.195	2727.66	27.66	48.48	0.334	2727.64	350.982
12	191.94	2727.65	101.46	0.699	192.643	2727.69	27.69	48.51	0.334	2727.67	351.771
12	192.39	2727.68	101.44	0.699	193.090	2727.72	27.72	48.53	0.334	2727.70	352.559
12	192.84	2727.71	101.21	0.697	193.536	2727.75	27.75	48.56	0.334	2727.73	353.340
12	193.28	2727.74	101.08	0.696	193.980	2727.78	27.78	48.59	0.335	2727.76	354.121
12	193.73	2727.77	101.00	0.696	194.424	2727.81	27.81	48.61	0.335	2727.79	354.902
12	194.17	2727.80	100.95	0.695	194.867	2727.85	27.85	48.64	0.335	2727.82	355.683
12	194.61	2727.83	100.93	0.695	195.309	2727.88	27.88	48.67	0.335	2727.85	356.463
12	195.06	2727.86	100.70	0.694	195.750	2727.91	27.91	48.69	0.335	2727.88	357.237
12	195.50	2727.89	100.57	0.693	196.190	2727.93	27.93	48.72	0.336	2727.91	358.010
12	195.94	2727.92	100.49	0.692	196.629	2727.96	27.96	48.75	0.336	2727.94	358.783
12	196.38	2727.95	100.44	0.692	197.068	2727.99	27.99	48.77	0.336	2727.97	359.556
12	196.81	2727.98	100.20	0.690	197.505	2728.02	28.02	48.80	0.336	2728.00	360.322
12	197.25	2728.01	100.06	0.689	197.941	2728.05	28.05	48.82	0.336	2728.03	361.088
12	197.69	2728.04	99.97	0.689	198.376	2728.08	28.08	48.85	0.336	2728.06	361.853
12	198.12	2728.07	99.92	0.688	198.810	2728.11	28.11	48.87	0.337	2728.09	362.619
12	198.56	2728.10	99.90	0.688	199.244	2728.14	28.14	48.90	0.337	2728.12	363.384
12	198.99	2728.13	99.67	0.686	199.676	2728.17	28.17	48.92	0.337	2728.15	364.142
12	199.42	2728.15	99.54	0.686	200.108	2728.20	28.20	48.95	0.337	2728.18	364.900
12	199.85	2728.18	99.45	0.685	200.538	2728.23	28.23	48.97	0.337	2728.21	365.658
12	200.28	2728.21	99.41	0.685	200.968	2728.26	28.26	49.00	0.337	2728.24	366.415
12	200.71	2728.24	99.17	0.683	201.396	2728.29	28.29	49.03	0.338	2728.27	367.166
12	201.14	2728.27	99.03	0.682	201.823	2728.32	28.32	49.05	0.338	2728.29	367.916
12	201.57	2728.30	98.94	0.681	202.249	2728.35	28.35	49.08	0.338	2728.32	368.666
12	201.99	2728.33	98.89	0.681	202.675	2728.38	28.38	49.10	0.338	2728.35	369.416
12	202.42	2728.36	98.86	0.681	203.100	2728.40	28.40	49.13	0.338	2728.38	370.166
12	202.84	2728.39	98.64	0.679	203.524	2728.43	28.43	49.15	0.338	2728.41	370.909
12	203.27	2728.42	98.50	0.678	203.947	2728.46	28.46	49.17	0.339	2728.44	371.651

ORDINATE	Time	INFLOW	CUM. VOL	STAGE	HEAD	OUTFLOW	Δ VOL	NEW VOLUME	NEW ELEVATION	INFLOW	CUM. VOL	STAGE	INFLOW FROM NORTH BASIN	ADDITIONAL VOLUME	NEW VOLUME	NEW ELEVATION	Head	Flow	Δ VOL	NEW ELEVATION	COMBINED VOLUME
	(hr)	(cfs)	(AC-ft)	(ft)	(ft)	(cfs)	(AC-ft)	(AC-ft)	(ft)	(cfs)	(AC-ft)	(ft)	(cfs)	(AC-ft)		(ft)		(cfs)	(AC-ft)	(ft)	(AC-ft)
165	13.67	145	169.04	2728.58	0.14	98.42	0.678	168.364	2728.52	12	203.69	2728.44	98.42	0.678	204.368	2728.49	28.49	49.20	0.339	2728.47	372.394
166	13.75	145	169.36	2728.61	0.14	98.37	0.677	168.685	2728.55	12	204.11	2728.47	98.37	0.677	204.790	2728.52	28.52	49.22	0.339	2728.50	373.136
167	13.83	144	169.68	2728.64	0.14	98.13	0.676	169.001	2728.58	12	204.53	2728.50	98.13	0.676	205.209	2728.55	28.55	49.25	0.339	2728.52	373.871
168	13.92	144	169.99	2728.67	0.14	97.99	0.675	169.318	2728.61	12	204.95	2728.53	97.99	0.675	205.628	2728.58	28.58	49.27	0.339	2728.55	374.606
169	14.00	144	170.31	2728.69	0.14	97.90	0.674	169.636	2728.63	12	205.37	2728.56	97.90	0.674	206.045	2728.60	28.60	49.30	0.340	2728.58	375.341
170	14.08	144	170.63	2728.72	0.14	97.85	0.674	169.953	2728.66	12	205.79	2728.59	97.85	0.674	206.462	2728.63	28.63	49.32	0.340	2728.61	376.076
171	14.17	143	170.94	2728.75	0.14	97.61	0.672	170.266	2728.69	12	206.21	2728.62	97.61	0.672	206.877	2728.66	28.66	49.35	0.340	2728.64	376.803
172	14.25	143	171.25	2728.78	0.14	97.47	0.671	170.580	2728.72	12	206.62	2728.64	97.47	0.671	207.291	2728.69	28.69	49.37	0.340	2728.67	377.531
173	14.33	143	171.56	2728.81	0.14	97.38	0.671	170.894	2728.75	12	207.03	2728.67	97.38	0.671	207.705	2728.72	28.72	49.40	0.340	2728.69	378.258
174	14.42	143	171.88	2728.83	0.14	97.33	0.670	171.208	2728.77	12	207.45	2728.70	97.33	0.670	208.117	2728.74	28.74	49.42	0.340	2728.72	378.985
175	14.50	143	172.19	2728.86	0.14	97.30	0.670	171.523	2728.80	12	207.86	2728.73	97.30	0.670	208.530	2728.77	28.77	49.44	0.341	2728.75	379.712
176	14.58	142	172.50	2728.89	0.14	97.08	0.669	171.832	2728.83	12	208.27	2728.76	97.08	0.669	208.941	2728.80	28.80	49.47	0.341	2728.78	380.432
177	14.67	142	172.81	2728.92	0.14	96.94	0.668	172.143	2728.86	12	208.68	2728.78	96.94	0.668	209.350	2728.83	28.83	49.49	0.341	2728.81	381.152
178	14.75	142	173.12	2728.94	0.14	96.86	0.667	172.454	2728.88	12	209.09	2728.81	96.86	0.667	209.759	2728.86	28.86	49.52	0.341	2728.83	381.872
179	14.83	142	173.43	2728.97	0.14	96.81	0.667	172.765	2728.91	12	209.50	2728.84	96.81	0.667	210.167	2728.88	28.88	49.54	0.341	2728.86	382.591
180	14.92	141	173.74	2729.00	0.14	96.57	0.665	173.071	2728.94	12	209.91	2728.87	96.57	0.665	210.574	2728.91	28.91	49.56	0.341	2728.89	383.303
181	15.00	141	174.04	2729.03	0.14	96.43	0.664	173.378	2728.97	12	210 32	2728.89	96.43	0.664	210.979	2728.94	28.94	49.59	0.342	2728.92	384.016
182	15.08	141	174.35	2729.05	0.14	96.34	0.663	173.685	2728.99	12	210.72	2728 92	96.34	0.663	211.384	2728.97	28.97	49.61	0.342	2728.94	384.728
183	15.17	141	174.66	2729.08	0.14	96.29	0.663	173.993	2729.02	12	211.12	2728.95	96.29	0.663	211.788	2728.99	28.99	49.63	0.342	2728.97	385.439
184	15.25	141	174.96	2729.11	0.14	96.26	0.663	174.301	2729.05	12	211.53	2728.98	96.26	0.663	212.192	2729.02	29.02	49.66	0.342	2729.00	386.151
185	15.33	140	175.27	2729.13	0.14	96.03	0.661	174.604	2729.08	12	211.93	2729.00	96.03	0.661	212.594	2729.05	29.05	49.68	0.342	2729.03	386.856
186	15.42	140	175.57	2729.16	0.14	95.90	0.660	174.908	2729.10	12	212.33	2729.03	95.90	0.660	212.995	2729.08	29.08	49.70	0.342	2729.05	387.560
187	15.50	140	175.87	2729.19	0.14	95.82	0.660	175.212	2729.13	12	212.74	2729.06	95.82	0.660	213.395	2729.10	29.10	49.73	0.342	2729.08	388.265
188	15.58	140	176.18	2729.22	0.14	95.77	0.660	175.517	2729.16	12	213.14	2729.09	95.77	0.660	213.795	2729.13	29.13	49.75	0.343	2729.11	388.969
189	15.67	139	176.47	2729.24	0.13	95.53	0.658	175.816	2729.18	12	213.53	2729.11	95.53	0.658	214.193	2729.16	29.16	49.77	0.343	2729.13	389.666
190	15.75	139	176.77	2729.27	0.13	95.38	0.657	176.117	2729.21	12	213.93	2729.14	95.38	0.657	214.589	2729.18	29.18	49.80	0.343	2729.16	390.363
191	15.83	139	177.07	2729.30	0.13	95.30	0.656	176.418	2729.24	12	214.33	2729.17	95.30	0.656	214.985	2729.21	29.21	49.82	0.343	2729.19	391.060
192	15.92	139	177.37	2729.32	0.13	95.25	0.656	176.719	2729.26	12	214.72	2729.19	95.25	0.656	215.381	2729.24	29.24	49.84	0.343	2729.21	391.757
193	16.00	139	177.68	2729.35	0.13	95.22	0.656	177.021	2729.29	12	215.12	2729.22	95.22	0.656	215.776	2729.26	29.26	49.86	0.343	2729.24	392.453
194	16.08	138	177.97	2729.37	0.13	94.99	0.654	177.317	2729.32	12	215.52	2729.25	94.99	0.654	216.169	2729.29	29.29	49.89	0.344	2729.27	393.143
195	16.17	138	178.27	2729.40	0.13	94.85	0.653	177.614	2729.34	12	215.91	2729.27	94.85	0.653	216.562	2729.32	29.32	49.91	0.344	2729.29	393.832
196	16.25	138	178.56	2729.43	0.13	94.77	0.653	177.912	2729.37	12	216.30	2729.30	94.77	0.653	216.953	2729.34	29.34	49.93	0.344	2729.32	394.521
197	16.33	138	178.86	2729.45	0.13	94.72	0.652	178.210	2729.40	12	216.69	2729.33	94.72	0.652	217.344	2729.37	29.37	49.95	0.344	2729.35	395.210
198	16.42	137	179.15	2729.48	0.13	94.48	0.651	178.502	2729.42	12	217.08	2729.35	94.48	0.651	217.734	2729.40	29.40	49.98	0.344	2729.37	395.892
199	16.50	137	179.45	2729.51	0.13	94.34	0.650	178.796	2729.45	12	217.47	2729.38	94.34	0.650	218.122	2729.42	29.42	50.00	0.344	2729.40	396.574
200	16.58	137	179.74	2729.53	0.13	94.25	0.649	179.091	2729.47	12	217.86	2729.41	94.25	0.649	218.509	2729.45	29.45	50.02	0.345	2729.43	397.256
201	16.67	137	180.03	2729.56	0.13	94.20	0.649	179.385	2729.50	12	218.25	2729.43	94.20	0.649	218.896	2729.48	29.48	50.04	0.345	2729.45	397.937
202	16.75	136	180.32	2729.58	0.13	93.96	0.647	179.675	2729.53	12	218.63	2729.46	93.96	0.647	219.281	2729.50	29.50	50.07	0.345	2729.48	398.612
203	16.83	136	180.61	2729.61	0.13	93.81	0.646	179.966	2729.55	12	219.02	2729.49	93.81	0.646	219.655	2729.53	29.53	50.09	0.345	2729.51	399.286
204	16.92	136	180.90	2729.64	0.13	93.72	0.645	180.257	2729.58	12	219.40	2729.51	93.72	0.645	220.048	2729.56	29.56	50.11	0.345	2729.53	399.960
205	17.00	136	181.19	2729.66	0.13	93.67	0.645	180.548	2729.60	12	219.79	2729.54	93.67	0.645	220.431	2729.58	29.58	50.13	0.345	2729.56	400.634
206	17.08	135	181.48	2729.69	0.13	93.43	0.643	180.834	2729.63	12	220.17	2729.56	93.43	0.643	220.812	2729.61	29.61	50.15	0.345	2729.58	401.301
207	17.17	135	181.76	2729.71	0.13	93.28	0.642	181.122	2729.65	12	220.55	2729.59	93.28	0.642	221.192	2729.63	29.63	50.18	0.346	2729.61	401.968
208	17.25	135	182.05	2729.74	0.13	93.20	0.642	181.410	2729.68	12	220.93	2729.61	93.20	0.642	221.571	2729.66	29.66	50.20	0.346	2729.63	402.635
209	17.33	135	182.34	2729.76	0.13	93.14	0.641	181.698	2729.71	12	221.31	2729.64	93.14	0.641	221.949	2729.68	29.68	50.22	0.346	2729.66	403.301
210	17.42	134	182.62	2729.79	0.13	92.90	0.640	181.981	2729.73	12	221.69	2729.67	92.90	0.640	222.326	2729.71	29.71	50.24	0.346	2729.69	403.961
211	17.50	134	182.90	2729.81	0.13	92.76	0.639	182.265	2729.76	12	222.06	2729.69	92.76	0.639	222.701	2729.74	29.74	50.26	0.346	2729.71	404.620
212	17.58	134	183.19	2729.84	0.13	92.67	0.638	182.550	2729.78	12	222.44	2729.72	92.67	0.638	223.076	2729.76	29.76	50.29	0.346	2729.74	405 279
213	17.67	134	183.47	2729.86	0.13	92.62	0.638	182.835	2729.81	12	222.81	2729.74	92.62	0.638	223.450	2729.79	29.79	50.31	0.346	2729.76	405.938
214	17.75	133	183.75	2729.89	0.13	92.37	0.636	183.114	2729.83	12	223.19	2729.77	92.37	0.636	223.822	2729.81	29.81	50.33	0.347	2729.79	406.590
215	17.83	133	184.03	2729.91	0.13	92.23	0.635	183.395	2729.86	12	223.56	2729.79	92.23	0.635	224.193	2729.84	29.84	50.35	0.347	2729.81	407.242
216	17.92	133	184.31	2729.94	0.12	92.14	0.635	183 677	2729.88	12	223.93	2729.82	92.14	0.635	224.564	2729.86	29.86	50.37	0.347	2729.84	407.894
217	18.00	133	184.59	2729.96	0.12	92.09	0.634	183.958	2729.91	12	224.30	2729.84	92.09	0.634	224.934	2729.89	29.89	50.39	0.347	2729.86	408.545
218	18.08	133	184.87	2729.99	0.12	92.06	0.634	184.240	2729.93	12	224.67	2729.87	92.06	0.634	225.303	2729.91	29.91	50.41	0.347	2729.89	409.197
219	18.17	132	185.15	2730.01	0.12	91.35	0.629	184.520	2729.96	12	225.04	2729.89	91.35	0.629	225.668	2729.94	29.94	50.43	0.347	2729.91	409.841
220	18.25	132	185.43	2730.03	0.12	90.42	0.623	184.807	2729.98	12	225.40	2729.92	90.42	0.623	226.026	2729.96	29.96	50.46	0.347	2729.94	410.485
221	18.33	132	185.72	2730.06	0.12	89.82	0.619	185.097	2730.01	12	225.76	2729.94	89.82	0.619	226.380	2729.99	29.99	50.48	0.348	2729.96	411.129
222	18.42	132	186.01	2730.08	0.12	89.43	0.616	185.390	2730.03	12	226.11	2729.97	89.43	0.616	226.731	2730 01	30.01	89.77	0.618	2729.97	411.503
223	18.50	131	186.29	2730.10	0.13	94.31	0.649	185.643	2730.05	12	226.20	2729.97	94.31	0.649	226.845	2730.02	30.02	89.78	0.618	2729.98	411.869
224	18.58	131	186.55	2730.12	0.14	98.80	0.680	185.865	2730.07	12	226.31	2729.98	98.80	0.680	226.989	2730.02	30.02	89.79	0.618	2729.99	412.236
225	18.67	131	186.77	2730.14	0.15	101.79	0.701	186.066	2730.08	12	226.45	2729.99	101.79	0.701	227.155	2730.03	30.03	89.81	0.619	2730.00	412.602
226	18.75	131	186.97	2730.15	0.16	103.77	0.715	186.254	2730.10	12	226.62	2730.00	103.77	0.715	227.333	2730.05	30.05	89.82	0.619	2730.01	412.968
227	18.83	130	187.15	2730.17	0.16	104.90	0.722	186.426	2730.11	12	226.80	2730.01	104.90	0.722	227.520	2730.06	30.06	89.84	0.619	2730.02	413.328
228	18.92	130	187.32	2730.18	0.16	105.65	0.728	186.594	2730.12	12	226.98	2730.02	105.65	0.728	227.712	2730.07	30.07	89.86	0.619	2730.03	413.687
229	19.00	130	187.49	2730.20	0.17	106.16	0.731	186.758	2730.14	12	227.18	2730.04	106.16	0.731	227.906	2730.08	30.08	89.88	0.619	2730.04	414.046
230	19.08	130	187.65	2730.21	0.17	106.49	0.733	186.920	2730.15	12	227.37	2730.05	106.49	0.733	228.103	2730.09	30.09	89.89	0.619	2730.05	414.405
231	19.17	129	187.81	2730.22	0.17	106.53	0.734	187.075	2730.16	12	227.57	2730.06	106.53	0.734	228.301	2730.10	30.10	89.91	0.619	2730.07	414.756
232	19.25	129	187.96	2730.23	0.17	106.56	0.734	187.230	2730.18	12	227.76	2730.07	106.56	0.734	228.498	2730.12	30.12	89.93	0.619	2730.08	415.108
233	19.33	129	188.12	2730.25	0.17	106.58	0.734	187.384	2730.19	12	227.96	2730.08	106.58	0.734	228.695	2730.13	30.13	89.95	0.619	2730.09	415.460
234	19.42	129	188.27	2730.26	0.17	106.59	0.734	187.538	2730.20	12	228.16	2730.10	106.59	0.734	228.893	2730.14	30.14	89.97	0.620	2730.10	415.811
235	19.50	128	188.42	2730.27	0.17	106.42	0.733	187.687	2730.21	12	228.36	2730.11	106.42	0.733	229.088	2730.15	30.15	89.98	0.620	2730.11	416.156
236	19.58	128	188.57	2730.28	0.17	106.30	0.732	187.836	2730.22	12	228.55	2730.12	106.30	0.732	229.284	2730.17	30.17	90.00	0.620	2730.13	416.500
237	19.67	128	188.72	2730.29	0.17	106.23	0.732	187.986	2730.23	12	228.75	2730.13	106.23	0.732	229.478	2730.18	30.18	90.02	0.620	2730.14	416.844
238	19.75	128	188.87	2730.30	0.17	106.18	0.731	188.137	2730.25	12	228.94	2730.14	106.18	0.731	229.672	2730.19	30.19	90.04	0.620	2730.15	417.188
239	19.83	127	189.01	2730.32	0.16	105.97	0.730	188.281	2730.26	12	229.13	2730.16	105.97	0.730	229.864	2730.20	30.20	90.05	0.620	2730.16	417.525
240	19.92	127	189.16	2730.33	0.16	105.83	0.729	188.427	2730.27	12	229.33	2730.17	105.83	0.729	230.056	2730.21	30.21	90.07	0.620	2730.17	417.862
241	20.00	127	189.30	2730.34	0.16	105.74	0.728	188.574	2730.28	12	229.52	2730.18	105.74	0.728	230.246	2730.22	30.22	90.09	0.620	2730.19	418.199
242	20.08	127	189.45	2730.35	0.16	105.68	0.728	188.721	2730.29	12	229.71	2730.19	105.68	0.728	230.436	2730.24	30.24	90.11	0.621	2730.20	418.536
243	20.17	126	189.59	2730.36	0.16	105.45	0.726	188.862	2730.30	12	229.90	2730.20	105.45	0.726	230.624	2730.25	30.25	90.12	0.621	2730.21	418.866
244	20.25	126	189.73	2730.37	0.16	105.31	0.725	189.005	2730.31	12	230.09	2730.21	105.31	0.725	230.812	2730.26	30.26	90.14	0.621	2730.22	419.195
245	20.33	126	189.87	2730.38	0.16	105.21	0.725	189.148	2730.33	12	230.27	2730.23	105.21	0.725	230.998	2730.27	30.27	90.16	0.621	2730.23	419.525
246	20.42	126	190.02	2730.39	0.16	105.15	0.724	189.291	2730.34	12	230.46	2730.24	105.15	0.724	231.184	2730.28	30.28	90.18	0.621	2730.24	419.854
247	20.50	125	190.15	2730.41	0.16	104.92	0.723	189.430	2730.35	12	230.65	2730.25	104.92	0.723	231.368	2730.29	30.29	90.19	0.621	2730.26	420.177

ORDINATE	Time	INFLOW	CUM. VOL	STAGE	HEAD	OUTFLOW	Δ VOL	NEW VOLUME	NEW ELEVATION	INFLOW	CUM. VOL	STAGE	INFLOW FROM NORTH BASIN	ADDITIONAL VOLUME	NEW VOLUME	NEW ELEVATION	Head	Flow	Δ VOL	NEW ELEVATION	COMBINED VOLUME
	(hr)	(cfs)	(AC-ft)	(ft)	(ft)	(cfs)	(AC-ft)	(AC-ft)	(ft)	(cfs)	(AC-ft)	(ft)	(cfs)	(AC-ft)		(ft)		(cfs)	(AC-ft)	(ft)	(AC-ft)
248	20.58	125	190.29	2730.42	0.16	104.78	0.722	189.569	2730.36	12	230.83	2730.26	104.78	0.722	231.551	2730.30	30.30	90.21	0.621	2730.27	420.499
249	20.67	125	190.43	2730.43	0.16	104.68	0.721	189.709	2730.37	12	231.01	2730.27	104.68	0.721	231.734	2730.32	30.32	90.23	0.621	2730.28	420.821
250	20.75	125	190.57	2730.44	0.16	104.62	0.721	189.849	2730.38	12	231.19	2730.28	104.62	0.721	231.915	2730.33	30.33	90.24	0.621	2730.29	421.143
251	20.83	124	190.70	2730.45	0.16	104.39	0.719	189.984	2730.39	12	231.38	2730.29	104.39	0.719	232.095	2730.34	30.34	90.26	0.622	2730.30	421.458
252	20.92	124	190.84	2730.46	0.16	104.25	0.718	190.120	2730.40	12	231.56	2730.30	104.25	0.718	232.274	2730.35	30.35	90.27	0.622	2730.31	421.773
253	21.00	124	190.97	2730.47	0.16	104.15	0.717	190.257	2730.41	12	231.74	2730.32	104.15	0.717	232.453	2730.36	30.36	90.29	0.622	2730.32	422.088
254	21.08	124	191.11	2730.48	0.16	104.09	0.717	190.394	2730.42	12	231.91	2730.33	104.09	0.717	232.630	2730.37	30.37	90.31	0.622	2730.33	422.402
255	21.17	123	191.24	2730.49	0.16	103.86	0.715	190.526	2730.43	12	232.09	2730.34	103.86	0.715	232.806	2730.38	30.38	90.32	0.622	2730.34	422.710
256	21.25	123	191.37	2730.50	0.16	103.71	0.714	190.659	2730.45	12	232.27	2730.35	103.71	0.714	232.981	2730.39	30.39	90.34	0.622	2730.35	423.018
257	21.33	123	191.51	2730.51	0.16	103.62	0.714	190.792	2730.46	12	232.44	2730.36	103.62	0.714	233.155	2730.40	30.40	90.36	0.622	2730.37	423.325
258	21.42	123	191.64	2730.52	0.16	103.55	0.713	190.926	2730.47	12	232.62	2730.37	103.55	0.713	233.329	2730.41	30.41	90.37	0.622	2730.38	423.633
259	21.50	123	191.77	2730.53	0.16	103.52	0.713	191.060	2730.48	12	232.79	2730.38	103.52	0.713	233.502	2730.42	30.42	90.39	0.622	2730.39	423.940
260	21.58	122	191.90	2730.54	0.16	103.30	0.711	191.189	2730.49	12	232.96	2730.39	103.30	0.711	233.674	2730.44	30.44	90.40	0.623	2730.40	424.240
261	21.67	122	192.03	2730.55	0.16	103.17	0.711	191.319	2730.50	12	233.13	2730.40	103.17	0.711	233.844	2730.45	30.45	90.42	0.623	2730.41	424.540
262	21.75	122	192.16	2730.56	0.16	103.08	0.710	191.449	2730.51	12	233.30	2730.41	103.08	0.710	234.014	2730.46	30.46	90.43	0.623	2730.42	424.840
263	21.83	122	192.29	2730.57	0.16	103.02	0.709	191.580	2730.52	12	233.47	2730.42	103.02	0.709	234.183	2730.47	30.47	90.45	0.623	2730.43	425.140
264	21.92	121	192.41	2730.58	0.16	102.79	0.708	191.705	2730.53	12	233.64	2730.43	102.79	0.708	234.351	2730.48	30.48	90.46	0.623	2730.44	425.433
265	22.00	121	192.54	2730.59	0.16	102.65	0.707	191.832	2730.54	12	233.81	2730.44	102.65	0.707	234.517	2730.49	30.49	90.48	0.623	2730.45	425.726
266	22.08	121	192.66	2730.60	0.15	102.55	0.706	191.959	2730.55	12	233.98	2730.45	102.55	0.706	234.683	2730.50	30.50	90.49	0.623	2730.46	426.019
267	22.17	121	192.79	2730.61	0.15	102.49	0.706	192.086	2730.56	12	234.14	2730.46	102.49	0.706	234.849	2730.51	30.51	90.51	0.623	2730.47	426.311
268	22.25	120	192.91	2730.62	0.15	102.26	0.704	192.208	2730.57	12	234.31	2730.47	102.26	0.704	235.012	2730.52	30.52	90.52	0.623	2730.48	426.597
269	22.33	120	193.03	2730.63	0.15	102.12	0.703	192.331	2730.58	12	234.47	2730.48	102.12	0.703	235.175	2730.53	30.53	90.54	0.624	2730.49	426.882
270	22.42	120	193.16	2730.64	0.15	102.02	0.703	192.455	2730.59	12	234.63	2730.49	102.02	0.703	235.336	2730.54	30.54	90.55	0.624	2730.50	427.168
271	22.50	120	193.28	2730.65	0.15	101.96	0.702	192.580	2730.60	12	234.80	2730.50	101.96	0.702	235.497	2730.55	30.55	90.57	0.624	2730.51	427.453
272	22.58	119	193.40	2730.66	0.15	101.73	0.701	192.699	2730.61	12	234.96	2730.51	101.73	0.701	235.657	2730.56	30.56	90.58	0.624	2730.52	427.732
273	22.67	119	193.52	2730.67	0.15	101.58	0.700	192.818	2730.62	12	235.12	2730.52	101.58	0.700	235.815	2730.57	30.57	90.60	0.624	2730.53	428.010
274	22.75	119	193.64	2730.68	0.15	101.48	0.699	192.939	2730.63	12	235.27	2730.53	101.48	0.699	235.973	2730.58	30.58	90.61	0.624	2730.54	428.288
275	22.83	118	193.75	2730.69	0.15	101.23	0.697	193.055	2730.63	12	235.43	2730.54	101.23	0.697	236.129	2730.59	30.59	90.63	0.624	2730.55	428.559
276	22.92	118	193.87	2730.70	0.15	101.07	0.696	193.171	2730.64	12	235.59	2730.55	101.07	0.696	236.283	2730.60	30.60	90.64	0.624	2730.56	428.830
277	23.00	118	193.98	2730.71	0.15	100.96	0.695	193.289	2730.65	12	235.74	2730.56	100.96	0.695	236.437	2730.61	30.61	90.65	0.624	2730.57	429.101
278	23.08	118	194.10	2730.72	0.15	100.89	0.695	193.406	2730.66	12	235.90	2730.57	100.89	0.695	236.590	2730.61	30.61	90.67	0.624	2730.58	429.372
279	23.17	117	194.21	2730.73	0.15	100.66	0.693	193.519	2730.67	12	236.05	2730.58	100.66	0.693	236.742	2730.62	30.62	90.68	0.625	2730.59	429.636
280	23.25	117	194.32	2730.73	0.15	100.51	0.692	193.632	2730.68	12	236.20	2730.59	100.51	0.692	236.892	2730.63	30.63	90.70	0.625	2730.59	429.900
281	23.33	117	194.44	2730.74	0.15	100.41	0.692	193.747	2730.69	12	236.35	2730.60	100.41	0.692	237.041	2730.64	30.64	90.71	0.625	2730.60	430.164
282	23.42	117	194.55	2730.75	0.15	100.34	0.691	193.861	2730.70	12	236.50	2730.61	100.34	0.691	237.190	2730.65	30.65	90.72	0.625	2730.61	430.427
283	23.50	116	194.66	2730.76	0.15	100.11	0.689	193.971	2730.71	12	236.65	2730.62	100.11	0.689	237.338	2730.66	30.66	90.74	0.625	2730.62	430.684
284	23.58	116	194.77	2730.77	0.15	99.96	0.688	194.081	2730.72	12	236.80	2730.63	99.96	0.688	237.484	2730.67	30.67	90.75	0.625	2730.63	430.940
285	23.67	116	194.88	2730.78	0.15	99.87	0.688	194.192	2730.72	12	236.94	2730.64	99.87	0.688	237.629	2730.68	30.68	90.76	0.625	2730.64	431.197
286	23.75	116	194.99	2730.79	0.15	99.80	0.687	194.304	2730.73	12	237.09	2730.65	99.80	0.687	237.774	2730.69	30.69	90.78	0.625	2730.65	431.453
287	23.83	115	195.10	2730.80	0.15	99.58	0.686	194.410	2730.74	12	237.23	2730.65	99.58	0.686	237.918	2730.70	30.70	90.79	0.625	2730.66	431.702
288	23.92	115	195.20	2730.80	0.15	99.43	0.685	194.517	2730.75	12	237.37	2730.66	99.43	0.685	238.060	2730.71	30.71	90.80	0.625	2730.67	431.952
289	24.00	115	195.31	2730.81	0.15	99.33	0.684	194.625	2730.76	12	237.52	2730.67	99.33	0.684	238.201	2730.71	30.71	90.82	0.625	2730.68	432.201
290	24.08	115	195.42	2730.82	0.15	99.27	0.684	194.734	2730.77	12	237.66	2730.68	99.27	0.684	238.342	2730.72	30.72	90.83	0.626	2730.68	432.450
291	24.17	114	195.52	2730.83	0.14	99.04	0.682	194.837	2730.77	12	237.80	2730.69	99.04	0.682	238.481	2730.73	30.73	90.84	0.626	2730.69	432.692
292	24.25	114	195.62	2730.84	0.14	98.89	0.681	194.941	2730.78	12	237.94	2730.70	98.89	0.681	238.619	2730.74	30.74	90.85	0.626	2730.70	432.934
293	24.33	114	195.73	2730.84	0.14	98.79	0.680	195.046	2730.79	12	238.08	2730.71	98.79	0.680	238.756	2730.75	30.75	90.87	0.626	2730.71	433.176
294	24.42	114	195.83	2730.85	0.14	98.73	0.680	195.151	2730.80	12	238.21	2730.71	98.73	0.680	238.893	2730.76	30.76	90.88	0.626	2730.72	433.418
295	24.50	113	195.93	2730.86	0.14	98.50	0.678	195.251	2730.81	12	238.35	2730.72	98.50	0.678	239.028	2730.76	30.76	90.89	0.626	2730.73	433.653
296	24.58	113	196.03	2730.87	0.14	98.35	0.677	195.352	2730.82	12	238.48	2730.73	98.35	0.677	239.162	2730.77	30.77	90.90	0.626	2730.73	433.888
297	24.67	113	196.13	2730.88	0.14	98.25	0.677	195.453	2730.82	12	238.62	2730.74	98.25	0.677	239.296	2730.78	30.78	90.92	0.626	2730.74	434.123
298	24.75	113	196.23	2730.88	0.14	98.19	0.676	195.555	2730.83	12	238.75	2730.75	98.19	0.676	239.428	2730.79	30.79	90.93	0.626	2730.75	434.357
299	24.83	112	196.33	2730.89	0.14	97.96	0.675	195.652	2730.84	12	238.88	2730.76	97.96	0.675	239.559	2730.80	30.80	90.94	0.626	2730.76	434.585
300	24.92	112	196.42	2730.90	0.14	97.81	0.674	195.750	2730.85	12	239.02	2730.76	97.81	0.674	239.689	2730.81	30.81	90.95	0.626	2730.77	434.813
301	25.00	112	196.52	2730.91	0.14	97.71	0.673	195.848	2730.85	12	239.15	2730.77	97.71	0.673	239.818	2730.81	30.81	90.96	0.626	2730.77	435.040
302	25.08	112	196.62	2730.92	0.14	97.65	0.672	195.947	2730.86	12	239.27	2730.78	97.65	0.672	239.947	2730.82	30.82	90.98	0.627	2730.78	435.268
303	25.17	111	196.71	2730.92	0.14	97.42	0.671	196.041	2730.87	12	239.40	2730.79	97.42	0.671	240.074	2730.83	30.83	90.99	0.627	2730.79	435.488
304	25.25	111	196.80	2730.93	0.14	97.27	0.670	196.135	2730.88	12	239.53	2730.80	97.27	0.670	240.200	2730.84	30.84	91.00	0.627	2730.80	435.708
305	25.33	111	196.90	2730.94	0.14	97.17	0.669	196.230	2730.88	12	239.66	2730.80	97.17	0.669	240.325	2730.84	30.84	91.01	0.627	2730.81	435.929
306	25.42	111	196.99	2730.95	0.14	97.10	0.669	196.326	2730.89	12	239.78	2730.81	97.10	0.669	240.450	2730.85	30.85	91.02	0.627	2730.81	436.149
307	25.50	110	197.08	2730.95	0.14	96.88	0.667	196.416	2730.90	12	239.91	2730.82	96.88	0.667	240.573	2730.86	30.86	91.03	0.627	2730.82	436.362
308	25.58	110	197.17	2730.96	0.14	96.72	0.666	196.508	2730.91	12	240.03	2730.83	96.72	0.666	240.695	2730.87	30.87	91.04	0.627	2730.83	436.575
309	25.67	110	197.27	2730.97	0.14	96.63	0.665	196.600	2730.91	12	240.15	2730.83	96.63	0.665	240.816	2730.87	30.87	91.05	0.627	2730.84	436.789
310	25.75	110	197.36	2730.97	0.14	96.56	0.665	196.693	2730.92	12	240.27	2730.84	96.56	0.665	240.936	2730.88	30.88	91.07	0.627	2730.84	437.002
311	25.83	109	197.44	2730.98	0.14	96.33	0.663	196.780	2730.93	12	240.39	2730.85	96.33	0.663	241.055	2730.89	30.89	91.08	0.627	2730.85	437.208
312	25.92	109	197.53	2730.99	0.14	96.18	0.662	196.868	2730.94	12	240.51	2730.86	96.18	0.662	241.173	2730.90	30.90	91.09	0.627	2730.86	437.414
313	26.00	109	197.62	2730.99	0.14	96.08	0.662	196.957	2730.94	12	240.63	2730.86	96.08	0.662	241.290	2730.90	30.90	91.10	0.627	2730.87	437.620
314	26.08	108	197.70	2731.00	0.14	95.83	0.660	197.041	2730.95	12	240.75	2730.87	95.83	0.660	241.405	2730.91	30.91	91.11	0.627	2730.87	437.819
315	26.17	108	197.78	2731.01	0.14	95.67	0.659	197.126	2730.96	12	240.86	2730.88	95.67	0.659	241.519	2730.92	30.92	91.12	0.628	2730.88	438.018
316	26.25	108	197.87	2731.01	0.13	95.56	0.658	197.211	2730.96	12	240.97	2730.88	95.56	0.658	241.633	2730.92	30.92	91.13	0.628	2730.89	438.216
317	26.33	108	197.96	2731.02	0.13	95.49	0.658	197.298	2730.97	12	241.09	2730.89	95.49	0.658	241.745	2730.93	30.93	91.14	0.628	2730.89	438.415
318	26.42	107	198.03	2731.03	0.13	95.25	0.656	197.379	2730.98	12	241.20	2730.90	95.25	0.656	241.856	2730.94	30.94	91.15	0.628	2730.90	438.607
319	26.50	107	198.12	2731.03	0.13	95.10	0.655	197.461	2730.98	12	241.31	2730.91	95.10	0.655	241.966	2730.95	30.95	91.16	0.628	2730.91	438.799
320	26.58	107	198.20	2731.04	0.13	95.00	0.654	197.543	2730.99	12	241.42	2730.91	95.00	0.654	242.075	2730.95	30.95	91.17	0.628	2730.91	438.990
321	26.67	107	198.28	2731.05	0.13	94.93	0.654	197.626	2730.99	12	241.53	2730.92	94.93	0.654	242.184	2730.96	30.96	91.18	0.628	2730.92	439.182
322	26.75	106	198.36	2731.05	0.13	94.70	0.652	197.704	2731.00	12	241.64	2730.93	94.70	0.652	242.290	2730.97	30.97	91.19	0.628	2730.93	439.367
323	26.83	106	198.43	2731.06	0.13	94.55	0.651	197.783	2731.01	12	241.75	2730.93	94.55	0.651	242.396	2730.97	30.97	91.20	0.628	2730.93	439.551
324	26.92	106	198.51	2731.06	0.13	94.45	0.650	197.863	2731.01	12	241.85	2730.94	94.45	0.650	242.501	2730.98	30.98	91.21	0.628	2730.94	439.736
325	27.00	105	198.59	2731.07	0.13	94.20	0.649	197.937	2731.02	12	241.96	2730.94	94.20	0.649	242.605	2730.98	30.98	91.22	0.628	2730.95	439.913
326	27.08	105	198.66	2731.08	0.13	94.03	0.648	198.013	2731.03	12	242.06	2730.95	94.03	0.648	242.707	2730.99	30.99	91.23	0.628	2730.95	440.091
327	27.17	105	198.74	2731.08	0.13	93.92	0.647	198.089	2731.03	12	242.16	2730.96	93.92	0.647	242.808	2731.00	31.00	91.24	0.628	2730.96	440.268
328	27.25	105	198.81	2731.09	0.13	93.85	0.646	198.166	2731.04	12	242.26	2730.96	93.85	0.646	242.908	2731.00	31.00	91.25	0.628	2730.96	440.446
329	27.33	104	198.88	2731.09	0.13	93.61	0.645	198.237	2731.04	12	242.36	2730.97	93.61	0.645	243.007	2731.01	31.01	91.25	0.628	2730.97	440.616
330	27.42	104	198.95	2731.10	0.13	93.46	0.644	198.310	2731.05	12	242.46	2730.98	93.46	0.644	243.105	2731.02	31.02	91.26	0.629	2730.98	440.786

ORDINATE	Time	INFLOW	CUM. VOL	STAGE	HEAD	OUTFLOW	Δ VOL	NEW VOLUME	NEW ELEVATION	INFLOW	CUM. VOL	STAGE	INFLOW FROM NORTH BASIN	ADDITIONAL VOLUME	NEW VOLUME	NEW ELEVATION	Head	Flow	Δ VOL	NEW ELEVATION	COMBINED VOLUME
	(hr)	(cfs)	(AC-ft)	(ft)	(ft)	(cfs)	(AC-ft)	(AC-ft)	(ft)	(cfs)	(AC-ft)	(ft)	(cfs)	(AC-ft)		(ft)		(cfs)	(AC-ft)	(ft)	(AC-ft)
331	27.50	104	199.03	2731.11	0.13	93.36	0.643	198.383	2731.05	12	242.56	2730.98	93.36	0.643	243.202	2731.02	31.02	91.27	0.629	2730.98	440.957
332	27.58	104	199.10	2731.11	0.13	93.29	0.643	198.457	2731.06	12	242.66	2730.99	93.29	0.643	243.299	2731.03	31.03	91.28	0.629	2730.99	441.127
333	27.67	103	199.17	2731.12	0.13	93.06	0.641	198.525	2731.07	12	242.75	2730.99	93.06	0.641	243.394	2731.03	31.03	91.29	0.629	2730.99	441.290
334	27.75	103	199.23	2731.12	0.13	92.91	0.640	198.595	2731.07	12	242.85	2731.00	92.91	0.640	243.487	2731.04	31.04	91.30	0.629	2731.00	441.453
335	27.83	103	199.30	2731.13	0.13	92.81	0.639	198.665	2731.08	12	242.94	2731.01	92.81	0.639	243.581	2731.04	31.04	91.31	0.629	2731.01	441.617
336	27.92	102	199.37	2731.13	0.13	92.55	0.637	198.730	2731.08	12	243.03	2731.01	92.55	0.637	243.672	2731.05	31.05	91.31	0.629	2731.01	441.773
337	28.00	102	199.43	2731.14	0.13	92.39	0.636	198.796	2731.09	12	243.13	2731.02	92.39	0.636	243.762	2731.06	31.06	91.32	0.629	2731.02	441.929
338	28.08	102	199.50	2731.14	0.13	92.28	0.636	198.863	2731.09	12	243.22	2731.02	92.28	0.636	243.851	2731.06	31.06	91.33	0.629	2731.02	442.085
339	28.17	102	199.57	2731.15	0.13	92.21	0.635	198.931	2731.10	12	243.30	2731.03	92.21	0.635	243.940	2731.07	31.07	91.34	0.629	2731.03	442.241
340	28.25	101	199.63	2731.15	0.12	91.97	0.633	198.993	2731.10	12	243.39	2731.03	91.97	0.633	244.027	2731.07	31.07	91.35	0.629	2731.03	442.390
341	28.33	101	199.69	2731.16	0.12	91.82	0.632	199.056	2731.11	12	243.48	2731.04	91.82	0.632	244.113	2731.08	31.08	91.35	0.629	2731.04	442.539
342	28.42	101	199.75	2731.16	0.12	91.71	0.632	199.120	2731.11	12	243.57	2731.04	91.71	0.632	244.198	2731.08	31.08	91.36	0.629	2731.04	442.689
343	28.50	101	199.82	2731.17	0.12	91.65	0.631	199.184	2731.12	12	243.65	2731.05	91.65	0.631	244.282	2731.09	31.09	91.37	0.629	2731.05	442.837
344	28.58	100	199.87	2731.17	0.12	91.42	0.630	199.244	2731.12	12	243.74	2731.05	91.42	0.630	244.365	2731.09	31.09	91.38	0.629	2731.05	442.980
345	28.67	100	199.93	2731.18	0.12	91.26	0.629	199.304	2731.13	12	243.82	2731.06	91.26	0.629	244.447	2731.10	31.10	91.38	0.629	2731.05	443.122
346	28.75	100	199.99	2731.18	0.12	91.16	0.628	199.365	2731.13	12	243.90	2731.06	91.16	0.628	244.528	2731.10	31.10	91.39	0.629	2731.06	443.263
347	28.83	100	200.05	2731.19	0.12	91.10	0.627	199.426	2731.14	12	243.98	2731.07	91.10	0.627	244.609	2731.11	31.11	91.40	0.629	2731.07	443.405
348	28.92	99	200.11	2731.19	0.12	90.87	0.626	199.482	2731.14	12	244.06	2731.07	90.87	0.626	244.688	2731.11	31.11	91.41	0.630	2731.07	443.540
349	29.00	99	200.16	2731.19	0.12	90.71	0.625	199.539	2731.15	12	244.14	2731.08	90.71	0.625	244.766	2731.12	31.12	91.41	0.630	2731.08	443.675
350	29.08	99	200.22	2731.20	0.12	90.61	0.624	199.597	2731.15	12	244.22	2731.08	90.61	0.624	244.843	2731.12	31.12	91.42	0.630	2731.08	443.810
351	29.17	98	200.27	2731.20	0.12	90.36	0.622	199.649	2731.15	12	244.30	2731.09	90.36	0.622	244.918	2731.13	31.13	91.43	0.630	2731.09	443.938
352	29.25	98	200.32	2731.21	0.12	90.19	0.621	199.703	2731.16	12	244.37	2731.09	90.19	0.621	244.992	2731.13	31.13	91.43	0.630	2731.09	444.066
353	29.33	98	200.38	2731.21	0.12	90.08	0.620	199.758	2731.16	12	244.45	2731.10	90.08	0.620	245.066	2731.14	31.14	91.44	0.630	2731.10	444.194
354	29.42	98	200.43	2731.22	0.12	90.01	0.620	199.813	2731.17	12	244.52	2731.10	90.01	0.620	245.139	2731.14	31.14	91.45	0.630	2731.10	444.321
355	29.50	97	200.48	2731.22	0.12	89.77	0.618	199.862	2731.17	12	244.59	2731.11	89.77	0.618	245.210	2731.14	31.14	91.45	0.630	2731.11	444.442
356	29.58	97	200.53	2731.22	0.12	89.62	0.617	199.913	2731.18	11	244.66	2731.11	89.62	0.617	245.273	2731.15	31.15	91.46	0.630	2731.11	444.556
357	29.67	97	200.58	2731.23	0.12	89.66	0.617	199.964	2731.18	11	244.72	2731.11	89.66	0.617	245.336	2731.15	31.15	91.46	0.630	2731.11	444.670
358	29.75	96	200.63	2731.23	0.12	89.50	0.616	200.009	2731.18	11	244.78	2731.12	89.50	0.616	245.398	2731.16	31.16	91.47	0.630	2731.12	444.777
359	29.83	96	200.67	2731.23	0.12	89.40	0.616	200.054	2731.19	11	244.84	2731.12	89.40	0.616	245.460	2731.16	31.16	91.47	0.630	2731.12	444 884
360	29.92	96	200.72	2731.24	0.12	89.33	0.615	200.100	2731.19	11	244.91	2731.13	89.33	0.615	245.521	2731.16	31.16	91.48	0.630	2731.13	444.991
361	30.00	95	200.75	2731.24	0.12	89.10	0.614	200.141	2731.19	11	244.97	2731.13	89.10	0.614	245.580	2731.17	31.17	91.49	0.630	2731.13	445.091
362	30.08	95	200.79	2731.24	0.12	88.94	0.613	200.182	2731.20	11	245.03	2731.13	88.94	0.613	245.638	2731.17	31.17	91.49	0.630	2731.13	445.191
363	30.17	95	200.84	2731.25	0.12	88.84	0.612	200.225	2731.20	11	245.08	2731.14	88.84	0.612	245.696	2731.17	31.17	91.50	0.630	2731.14	445.291
364	30.25	95	200.88	2731.25	0.12	88.77	0.611	200.268	2731.20	11	245.14	2731.14	88.77	0.611	245.753	2731.18	31.18	91.50	0.630	2731.14	445.391
365	30.33	94	200.92	2731.25	0.11	88.54	0.610	200.305	2731.21	11	245.20	2731.14	88.54	0.610	245.808	2731.18	31.18	91.51	0.630	2731.14	445.483
366	30.42	94	200.95	2731.26	0.11	88.39	0.609	200.344	2731.21	11	245.25	2731.15	88.39	0.609	245.863	2731.19	31.19	91.51	0.630	2731.15	445.576
367	30.50	94	200.99	2731.26	0.11	88.29	0.608	200.383	2731.21	11	245.31	2731.15	88.29	0.608	245.916	2731.19	31.19	91.52	0.630	2731.15	445.669
368	30.58	93	201.02	2731.26	0.11	88.03	0.606	200.417	2731.21	11	245.36	2731.15	88.03	0.606	245.968	2731.19	31.19	91.52	0.630	2731.15	445.755
369	30.67	93	201.06	2731.27	0.11	87.86	0.605	200.453	2731.22	11	245.41	2731.16	87.86	0.605	246.019	2731.19	31.19	91.52	0.630	2731.16	445.841
370	30.75	93	201.09	2731.27	0.11	87.75	0.604	200.489	2731.22	11	245.46	2731.16	87 75	0.604	246.068	2731.20	31.20	91.53	0.630	2731.16	445.927
371	30.83	93	201.13	2731.27	0.11	87.68	0.604	200.526	2731.22	11	245.51	2731.16	87.68	0.604	246.118	2731.20	31.20	91.53	0.630	2731.16	446.013
372	30.92	92	201.16	2731.27	0.11	87.44	0.602	200.557	2731.23	11	245.56	2731.17	87.44	0.602	246.165	2731.20	31.20	91.54	0.630	2731.16	446.092
373	31.00	92	201.19	2731.28	0.11	87.29	0.601	200.590	2731.23	11	245.61	2731.17	87.29	0.601	246.212	2731.21	31.21	91.54	0.630	2731.17	446.171
374	31.08	92	201.22	2731.28	0.11	87.18	0.600	200.623	2731.23	11	245.66	2731.17	87.18	0.600	246.257	2731.21	31.21	91.55	0.630	2731.17	446.250
375	31.17	91	201.25	2731.28	0.11	86.93	0.599	200.651	2731.23	11	245.70	2731.18	86.93	0.599	246.301	2731.21	31.21	91.55	0.631	2731.17	446.322
376	31.25	91	201.28	2731.28	0.11	86.76	0.597	200.680	2731.24	11	245.75	2731.18	86.76	0.597	246.344	2731.21	31.21	91.55	0.631	2731.18	446.393
377	31.33	91	201.31	2731.29	0.11	86.64	0.597	200.710	2731.24	11	245.79	2731.18	86.64	0.597	246.386	2731.22	31.22	91.56	0.631	2731.18	446.465
378	31.42	91	201.34	2731.29	0.11	86.57	0.596	200.740	2731.24	11	245.83	2731.18	86.57	0.596	246.427	2731.22	31.22	91.56	0.631	2731.18	446.537
379	31.50	90	201.36	2731.29	0.11	86.33	0.595	200.766	2731.24	11	245.87	2731.19	86.33	0.595	246.467	2731.22	31.22	91.56	0.631	2731.18	446.602
380	31.58	90	201.39	2731.29	0.11	86.17	0.593	200.792	2731.24	11	245.91	2731.19	86.17	0.593	246.506	2731.22	31.22	91.57	0.631	2731.19	446.667
381	31.67	90	201.41	2731.29	0.11	86.07	0.593	200.819	2731.25	11	245.95	2731.19	86.07	0.593	246.544	2731.23	31.23	91.57	0.631	2731.19	446.732
382	31.75	89	201.43	2731.29	0.11	85.81	0.591	200.841	2731.25	11	245.99	2731.19	85.81	0.591	246.580	2731.23	31.23	91.58	0.631	2731.19	446.790
383	31.83	89	201.45	2731.30	0.11	85.64	0.590	200.864	2731.25	11	246.02	2731.20	85.64	0.590	246.615	2731.23	31.23	91.58	0.631	2731.19	446.848
384	31.92	89	201.48	2731.30	0.11	85.53	0.589	200.888	2731.25	11	246.06	2731.20	85.53	0.589	246.649	2731.23	31.23	91.58	0.631	2731.19	446.906
385	32.00	89	201.50	2731.30	0.11	85.46	0.589	200.913	2731.25	11	246.09	2731.20	85.46	0.589	246.682	2731.24	31.24	91.58	0.631	2731 20	446.964
386	32.08	88	201.52	2731.30	0.11	85.22	0.587	200.932	2731.26	11	246.13	2731.20	85.22	0.587	246.714	2731.24	31.24	91.59	0.631	2731.20	447.015
387	32.17	88	201.54	2731.30	0.10	85.06	0.586	200.952	2731.26	11	246.16	2731.20	85.06	0.586	246.745	2731.24	31.24	91.59	0.631	2731.20	447.066
388	32.25	88	201.56	2731.30	0.10	84.96	0.585	200.973	2731.26	11	246.19	2731.21	84.96	0.585	246.775	2731.24	31.24	91.59	0.631	2731.20	447.117
389	32.33	87	201.57	2731.31	0.10	84.70	0.583	200.989	2731.26	11	246.22	2731.21	84.70	0.583	246.803	2731.24	31.24	91.60	0.631	2731.20	447.161
390	32.42	87	201.59	2731.31	0.10	84.53	0.582	201.006	2731.26	11	246.25	2731.21	84.53	0.582	246.831	2731.24	31.24	91.60	0.631	2731.21	447.205
391	32.50	87	201.60	2731.31	0.10	84.42	0.581	201.024	2731.26	11	246.28	2731.21	84.42	0.581	246.857	2731.25	31.25	91.60	0.631	2731.21	447.250
392	32.58	87	201.62	2731.31	0.10	84.34	0.581	201.042	2731.26	11	246.30	2731.21	84.34	0.581	246.883	2731.25	31.25	91.60	0.631	2731.21	447.294
393	32.67	86	201.63	2731.31	0.10	84.10	0.579	201.055	2731.27	11	246.33	2731.21	84.10	0.579	246.907	2731.25	31.25	91.60	0.631	2731.21	447.331
394	32.75	86	201.65	2731.31	0.10	83.95	0.578	201.069	2731.27	11	246.35	2731.22	83.95	0.578	246.930	2731.25	31.25	91.61	0.631	2731.21	447.368
395	32.83	85	201.65	2731.31	0.10	83.65	0.576	201.078	2731.27	11	246.37	2731.22	83.65	0.576	246.951	2731.25	31.25	91.61	0.631	2731.21	447.398
396	32.92	85	201.66	2731.31	0.10	83.46	0.575	201.089	2731.27	11	246.40	2731.22	83.46	0.575	246.970	2731.25	31.25	91.61	0.631	2731.21	447.428
397	33.00	85	201.67	2731.31	0.10	83.33	0.574	201.100	2731.27	11	246.42	2731.22	83.33	0.574	246.989	2731.25	31.25	91.61	0.631	2731.22	447.459
398	33.08	84	201.68	2731.31	0.10	83.06	0.572	201.107	2731.27	11	246.43	2731.22	83.06	0.572	247.006	2731.26	31.26	91.61	0.631	2731.22	447.482
399	33.17	84	201.69	2731.31	0.10	82.87	0.571	201.115	2731.27	11	246.45	2731.22	82.87	0.571	247.022	2731.26	31.26	91.61	0.631	2731.22	447.505
400	33.25	83	201.69	2731.31	0.10	82.57	0.569	201.118	2731.27	11	246.47	2731.22	82.57	0.569	247.035	2731.26	31.26	91.62	0.631	2731.22	447.522
401	33.33	83	201.69	2731.32	0.10	82.36	0.567	201.122	2731.27	11	246.48	2731.22	82.36	0.567	247.047	2731.26	31.26	91.62	0.631	2731.22	447.538
402	33.42	83	201.69	2731.32	0.10	82.22	0.566	201.127	2731.27	11	246.49	2731.22	82.22	0.566	247.058	2731.26	31.26	91.62	0.631	2731.22	447.554
403	33.50	82	201.69	2731.32	0.10	81.94	0.564	201.128	2731.27	11	246.50	2731.22	81.94	0.564	247.067	2731.26	31.26	91.62	0.631	2731.22	447.564
404	33.58	82	201.69	2731.32	0.10	81.76	0.563	201.129	2731.27	11	246.51	2731.23	81.76	0.563	247.075	2731.26	31.26	91.62	0.631	2731.22	447.573
405	33.67	81	201.69	2731.32	0.09	81.45	0.561	201.126	2731.27	11	246.52	2731.23	81.45	0.561	247.081	2731.26	31.26	91.62	0.631	2731.22	447.576
406	33.75	81	201.68	2731.31	0.09	81.24	0.560	201.125	2731.27	11	246.53	2731.23	81.24	0.560	247.085	2731.26	31.26	91.62	0.631	2731.22	447.579
407	33.83	81	201.68	2731.31	0.09	81.10	0.559	201.124	2731.27	11	246.53	2731.23	81.10	0.559	247.088	2731.26	31.26	91.62	0.631	2731.22	447.581
408	33.92	80	201.67	2731.31	0.09	80.82	0.557	201.118	2731.27	11	246.53	2731.23	80.82	0.557	247.090	2731.26	31.26	91.62	0.631	2731.22	447.577
409	34.00	80	201.67	2731.31	0.09	80.64	0.555	201.114	2731.27	11	246.53	2731.23	80.64	0.555	247.090	2731.26	31.26	91.62	0.631	2731.22	447.573
410	34.08	80	201.66	2731.31	0.09	80.52	0.555	201.110	2731.27	11	246.53	2731.23	80.52	0.555	247.089	2731.26	31.26	91.62	0.631	2731.22	447.568
411	34.17	79	201.65	2731.31	0.09	80.24	0.553	201.102	2731.27	11	246.53	2731.23	80.24	0.553	247.087	2731.26	31.26	91.62	0.631	2731.22	447.557
412	34.25	79	201.65	2731.31	0.09	80.06	0.551	201.094	2731.27	11	246.53	2731.23	80.06	0.551	247.083	2731.26	31.26	91.62	0.631	2731.22	447.546
413	34.33	79	201.64	2731.31	0.09	79.86	0.550	201.088	2731.27	11	246.53	2731.23	79.86	0.550	247.078	2731.26	31.26	91.62	0.631	2731.22	447.535

ORDINATE	Time	INFLOW	CUM. VOL.	STAGE	HEAD	OUTFLOW	Δ VOL	NEW VOLUME	NEW ELEVATION
	(hr)	(cfs)	(AC-ft)	(ft)	(ft)	(cfs)	(AC-ft)	(AC-ft)	(ft)
414	34.42	78	201.63	2731.31	0.09	79.25	0.546	201.080	2731.27
415	34.50	78	201.62	2731.31	0.09	79.16	0.545	201.072	2731.27
416	34.58	77	201.60	2731.31	0.09	78.67	0.542	201.060	2731.27
417	34.67	77	201.59	2731.31	0.09	78.60	0.541	201.049	2731.26
418	34.75	77	201.58	2731.31	0.09	78.59	0.541	201.038	2731.26
419	34.83	76	201.56	2731.31	0.09	78.10	0.538	201.024	2731.26
420	34.92	76	201.55	2731.30	0.09	78.03	0.537	201.010	2731.26
421	35.00	76	201.53	2731.30	0.09	78.02	0.537	200.996	2731.26
422	35.08	75	201.51	2731.30	0.09	77.54	0.534	200.979	2731.26
423	35.17	75	201.50	2731.30	0.09	77.47	0.534	200.962	2731.26
424	35.25	75	201.48	2731.30	0.09	77.46	0.533	200.945	2731.26
425	35.33	74	201.45	2731.30	0.09	76.97	0.530	200.924	2731.25
426	35.42	74	201.43	2731.30	0.09	76.90	0.530	200.904	2731.25
427	35.50	74	201.41	2731.29	0.09	76.89	0.530	200.884	2731.25
428	35.58	73	201.39	2731.29	0.09	76.41	0.526	200.861	2731.25
429	35.67	73	201.36	2731.29	0.09	76.34	0.526	200.838	2731.25
430	35.75	73	201.34	2731.29	0.09	76.33	0.526	200.815	2731.25
431	35.83	72	201.31	2731.29	0.09	75.84	0.522	200.788	2731.24
432	35.92	72	201.28	2731.28	0.09	75.77	0.522	200.762	2731.24
433	36.00	71	201.25	2731.28	0.08	75.28	0.518	200.733	2731.24
434	36.08	70	201.22	2731.28	0.08	74.73	0.515	200.700	2731.24
435	36.17	69	201.18	2731.27	0.08	74.17	0.511	200.665	2731.23
436	36.25	69	201.14	2731.27	0.08	74.09	0.510	200.630	2731.23
437	36.33	68	201.10	2731.27	0.08	73.59	0.507	200.591	2731.23
438	36.42	67	201.05	2731.26	0.08	73.04	0.503	200.550	2731.23
439	36.50	67	201.01	2731.26	0.08	72.96	0.502	200.509	2731.22
440	36.58	66	200.96	2731.26	0.08	72.46	0.499	200.464	2731.22
441	36.67	66	200.92	2731.25	0.08	72.39	0.499	200.420	2731.22
442	36.75	65	200.87	2731.25	0.08	71.89	0.495	200.373	2731.21
443	36.83	64	200.81	2731.25	0.08	71.34	0.491	200.322	2731.21
444	36.92	64	200.76	2731.24	0.08	71.26	0.491	200.272	2731.20
445	37.00	63	200.71	2731.24	0.08	70.76	0.487	200.219	2731.20
446	37.08	62	200.65	2731.23	0.08	70.21	0.484	200.162	2731.19
447	37.17	62	200.59	2731.23	0.08	70.13	0.483	200.106	2731.19
448	37.25	61	200.53	2731.22	0.08	69.63	0.480	200.047	2731.19
449	37.33	61	200.47	2731.22	0.08	69.56	0.479	199.988	2731.18
450	37.42	60	200.40	2731.21	0.08	69.06	0.476	199.925	2731.18
451	37.50	59	200.33	2731.21	0.08	68.51	0.472	199.860	2731.17
452	37.58	59	200.27	2731.20	0.08	68.43	0.471	199.795	2731.17
453	37.67	58	200.19	2731.20	0.08	67.93	0.468	199.727	2731.16
454	37.75	58	200.13	2731.19	0.08	67.86	0.467	199.659	2731.16
455	37.83	57	200.05	2731.19	0.08	67.36	0.464	199.587	2731.15
456	37.92	57	199.98	2731.18	0.08	67.29	0.463	199.516	2731.14
457	38.00	56	199.90	2731.17	0.08	66.79	0.460	199.442	2731.14
458	38.08	55	199.82	2731.17	0.07	66.24	0.456	199.365	2731.13
459	38.17	55	199.74	2731.16	0.07	66.16	0.456	199.288	2731.13
460	38.25	54	199.66	2731.16	0.07	65.66	0.452	199.208	2731.12
461	38.33	53	199.57	2731.15	0.07	65.10	0.448	199.124	2731.11
462	38.42	52	199.48	2731.14	0.07	64.54	0.444	199.038	2731.11
463	38.50	50	199.38	2731.13	0.07	63.49	0.437	198.945	2731.10
464	38.58	48	199.28	2731.12	0.07	62.37	0.430	198.846	2731.09
465	38.67	46	199.16	2731.12	0.07	61.25	0.422	198.741	2731.08
466	38.75	44	199.04	2731.11	0.07	60.12	0.414	198.630	2731.07
467	38.83	42	198.92	2731.10	0.07	58.99	0.406	198.513	2731.06
468	38.92	40	198.79	2731.09	0.07	57.86	0.398	198.390	2731.06
469	39.00	39	198.66	2731.08	0.06	57.21	0.394	198.265	2731.05
470	39.08	37	198.52	2731.07	0.06	56.15	0.387	198.133	2731.03
471	39.17	36	198.38	2731.05	0.06	55.51	0.382	197.998	2731.02
472	39.25	34	198.23	2731.04	0.06	54.45	0.375	197.857	2731.01
473	39.33	33	198.08	2731.03	0.06	53.81	0.371	197.714	2731.00
474	39.42	32	197.93	2731.02	0.06	53.24	0.367	197.568	2730.99
475	39.50	30	197.77	2731.01	0.06	52.18	0.359	197.415	2730.98
476	39.58	29	197.61	2730.99	0.06	51.55	0.355	197.260	2730.97
477	39.67	28	197.45	2730.98	0.06	50.97	0.351	197.102	2730.95
478	39.75	27	197.29	2730.97	0.06	50.40	0.347	196.940	2730.94
479	39.83	26	197.12	2730.95	0.06	49.82	0.343	196.776	2730.93
480	39.92	24	196.94	2730.94	0.05	48.77	0.336	196.606	2730.91
481	40.00	21	196.75	2730.93	0.05	47.17	0.325	196.426	2730.90
482	40.08	18	196.55	2730.91	0.05	45.49	0.313	196.236	2730.89
483	40.17	14	196.33	2730.89	0.05	43.31	0.298	196.034	2730.87
484	40.25	12	196.12	2730.88	0.05	42.03	0.289	195.828	2730.85
485	40.33	9	195.89	2730.86	0.05	40.39	0.278	195.611	2730.84
486	40.42	7	195.66	2730.84	0.04	39.19	0.270	195.390	2730.82
487	40.50	6	195.43	2730.82	0.04	38.53	0.265	195.166	2730.80
488	40.58	5	195.20	2730.80	0.04	37.94	0.261	194.939	2730.78
489	40.67	4	194.97	2730.79	0.04	37.37	0.257	194.709	2730.76
490	40.75	3	194.73	2730.77	0.04	36.79	0.253	194.476	2730.75
491	40.83	2	194.49	2730.75	0.04	36.22	0.249	194.241	2730.73
492	40.92	2	194.25	2730.73	0.04	36.13	0.249	194.006	2730.71
493	41.00	2	194.02	2730.71	0.04	36.11	0.249	193.771	2730.69
494	41.08	1	193.78	2730.69	0.04	35.61	0.245	193.532	2730.67
495	41.17	1	193.54	2730.67	0.04	35.53	0.245	193.295	2730.65
496	41.25	1	193.30	2730.65	0.04	35.51	0.245	193.057	2730.63

INFLOW	CUM. VOL.	STAGE	INFLOW FROM NORTH BASIN	ADDITIONAL VOLUME	NEW VOLUME	NEW ELEVATION	Head	Flow	Δ VOL	NEW ELEVATION	COMBINED VOLUME
(cfs)	(AC-ft)	(ft)	(cfs)	(AC-ft)		(ft)		(cfs)	(AC-ft)	(ft)	(AC-ft)
11	246.52	2731.23	79.25	0.546	247.068	2731.26	31.26	91.62	0.631	2731.22	447.517
11	246.51	2731.23	79.16	0.545	247.058	2731.26	31.26	91.62	0.631	2731.22	447.499
11	246.50	2731.22	78.67	0.542	247.045	2731.26	31.26	91.62	0.631	2731.22	447.474
11	246.49	2731.22	78.60	0.541	247.031	2731.26	31.26	91.62	0.631	2731.22	447.449
11	246.48	2731.22	78.59	0.541	247.017	2731.26	31.26	91.61	0.631	2731.22	447.424
11	246.46	2731.22	78.10	0.538	246.999	2731.26	31.26	91.61	0.631	2731.22	447.392
11	246.44	2731.22	78.03	0.537	246.982	2731.25	31.25	91.61	0.631	2731.22	447.361
11	246.43	2731.22	78.02	0.537	246.964	2731.25	31.25	91.61	0.631	2731.21	447.329
11	246.41	2731.22	77.54	0.534	246.943	2731.25	31.25	91.61	0.631	2731.21	447.290
11	246.39	2731.22	77.47	0.534	246.921	2731.25	31.25	91.61	0.631	2731.21	447.252
11	246.37	2731.22	77.46	0.533	246.899	2731.25	31.25	91.60	0.631	2731.21	447.213
11	246.34	2731.21	76.97	0.530	246.874	2731.25	31.25	91.60	0.631	2731.21	447.168
11	246.32	2731.21	76.90	0.530	246.849	2731.25	31.25	91.60	0.631	2731.21	447.122
11	246.29	2731.21	76.89	0.530	246.823	2731.24	31.24	91.60	0.631	2731.21	447.077
11	246.27	2731.21	76.41	0.526	246.795	2731.24	31.24	91.59	0.631	2731.20	447.025
11	246.24	2731.21	76.34	0.526	246.765	2731.24	31.24	91.59	0.631	2731.20	446.972
11	246.21	2731.21	76.33	0.526	246.736	2731.24	31.24	91.59	0.631	2731.20	446.920
11	246.18	2731.20	75.84	0.522	246.703	2731.24	31.24	91.59	0.631	2731.20	446.861
11	246.15	2731.20	75.77	0.522	246.670	2731.23	31.23	91.58	0.631	2731.20	446.802
11	246.12	2731.20	75.28	0.518	246.634	2731.23	31.23	91.58	0.631	2731.19	446.736
11	246.08	2731.20	74.73	0.515	246.593	2731.23	31.23	91.58	0.631	2731.19	446.663
11	246.04	2731.20	74.17	0.511	246.549	2731.23	31.23	91.57	0.631	2731.19	446.583
11	245.99	2731.19	74.09	0.510	246.504	2731.22	31.22	91.57	0.631	2731.19	446.504
11	245.95	2731.19	73.59	0.507	246.456	2731.22	31.22	91.56	0.631	2731.18	446.417
11	245.90	2731.19	73.04	0.503	246.405	2731.22	31.22	91.56	0.631	2731.18	446.324
11	245.85	2731.18	72.96	0.502	246.352	2731.22	31.22	91.55	0.631	2731.18	446.230
11	245.80	2731.18	72.46	0.499	246.296	2731.21	31.21	91.55	0.631	2731.17	446.130
11	245.74	2731.18	72.39	0.499	246.240	2731.21	31.21	91.54	0.630	2731.17	446.030
11	245.69	2731.17	71.89	0.495	246.181	2731.20	31.20	91.54	0.630	2731.17	445.923
11	245.63	2731.17	71.34	0.491	246.117	2731.20	31.20	91.53	0.630	2731.16	445.809
11	245.56	2731.17	71.26	0.491	246.053	2731.20	31.20	91.53	0.630	2731.16	445.695
11	245.50	2731.16	70.76	0.487	245.986	2731.19	31.19	91.52	0.630	2731.15	445.575
11	245.43	2731.16	70.21	0.484	245.915	2731.19	31.19	91.52	0.630	2731.15	445.447
11	245.36	2731.15	70.13	0.483	245.844	2731.18	31.18	91.51	0.630	2731.15	445.320
11	245.29	2731.15	69.63	0.480	245.769	2731.18	31.18	91.50	0.630	2731.14	445.185
11	245.21	2731.15	69.56	0.479	245.693	2731.17	31.17	91.50	0.630	2731.14	445.051
11	245.14	2731.14	69.06	0.476	245.615	2731.17	31.17	91.49	0.630	2731.13	444.910
11	245.06	2731.14	68.51	0.472	245.532	2731.16	31.16	91.48	0.630	2731.13	444.762
11	244.98	2731.13	68.43	0.471	245.449	2731.16	31.16	91.47	0.630	2731.12	444.614
11	244.89	2731.13	67.93	0.468	245.363	2731.15	31.15	91.47	0.630	2731.12	444.459
11	244.81	2731.12	67.86	0.467	245.276	2731.15	31.15	91.46	0.630	2731.11	444.305
11	244.72	2731.11	67.36	0.464	245.186	2731.14	31.14	91.45	0.630	2731.10	444.143
11	244.63	2731.11	67.29	0.463	245.095	2731.14	31.14	91.44	0.630	2731.10	443.982
11	244.54	2731.10	66.79	0.460	245.001	2731.13	31.13	91.43	0.630	2731.09	443.813
11	244.45	2731.10	66.24	0.456	244.903	2731.13	31.13	91.42	0.630	2731.09	443.638
11	244.35	2731.09	66.16	0.456	244.805	2731.12	31.12	91.42	0.630	2731.08	443.463
11	244.25	2731.09	65.66	0.452	244.703	2731.11	31.11	91.41	0.630	2731.08	443.281
11	244.15	2731.08	65.10	0.448	244.598	2731.11	31.11	91.40	0.629	2731.07	443.093
11	244.04	2731.07	64.54	0.444	244.489	2731.10	31.10	91.39	0.629	2731.06	442.897
11	243.94	2731.07	63.49	0.437	244.372	2731.09	31.09	91.38	0.629	2731.05	442.688
11	243.82	2731.06	62.37	0.430	244.248	2731.09	31.09	91.37	0.629	2731.05	442.465
11	243.69	2731.05	61.25	0.422	244.117	2731.08	31.08	91.35	0.629	2731.04	442.229
11	243.56	2731.04	60.12	0.414	243.977	2731.07	31.07	91.34	0.629	2731.03	441.978
11	243.42	2731.04	58.99	0.406	243.830	2731.06	31.06	91.33	0.629	2731.02	441.714
11	243.28	2731.03	57.86	0.398	243.676	2731.05	31.05	91.31	0.629	2731.01	441.437
11	243.12	2731.02	57.21	0.394	243.516	2731.04	31.04	91.30	0.629	2731.00	441.152
11	242.96	2731.01	56.15	0.387	243.350	2731.03	31.03	91.28	0.629	2730.99	440.854
11	242.80	2731.00	55.51	0.382	243.180	2731.02	31.02	91.27	0.629	2730.98	440.549
11	242.63	2730.99	54.45	0.375	243.002	2731.01	31.01	91.25	0.628	2730.97	440.231
11	242.45	2730.98	53.81	0.371	242.820	2731.00	31.00	91.24	0.628	2730.96	439.905
11	242.27	2730.96	53.24	0.367	242.634	2730.99	30.99	91.22	0.628	2730.95	439.573
11	242.08	2730.95	52.18	0.359	242.441	2730.97	30.97	91.20	0.628	2730.94	439.228
11	241.89	2730.94	51.55	0.355	242.243	2730.96	30.96	91.18	0.628	2730.92	438.875
11	241.69	2730.93	50.97	0.351	242.042	2730.95	30.95	91.17	0.628	2730.91	438.516
11	241.49	2730.92	50.40	0.347	241.837	2730.94	30.94	91.15	0.628	2730.90	438.150
11	241.28	2730.90	49.82	0.343	241.628	2730.92	30.92	91.13	0.628	2730.89	437.777
11	241.08	2730.89	48.77	0.336	241.412	2730.91	30.91	91.11	0.627	2730.87	437.390
11	240.86	2730.88	47.17	0.325	241.185	2730.90	30.90	91.09	0.627	2730.86	436.984
11	240.63	2730.86	45.49	0.313	240.947	2730.88	30.88	91.07	0.627	2730.84	436.556
11	240.40	2730.85	43.31	0.298	240.694	2730.87	30.87	91.04	0.627	2730.83	436.101
11	240.14	2730.83	42.03	0.289	240.432	2730.85	30.85	91.02	0.627	2730.81	435.633
11	239.88	2730.82	40.39	0.278	240.159	2730.83	30.83	90.99	0.627	2730.80	435.144
11	239.61	2730.80	39.19	0.270	239.878	2730.82	30.82	90.97	0.627	2730.78	434.641
11	239.33	2730.78	38.53	0.265	239.593	2730.80	30.80	90.94	0.626	2730.76	434.132
11	239.04	2730.77	37.94	0.261	239.303	2730.78	30.78	90.92	0.626	2730.74	433.616
11	238.75	2730.75	37.37	0.257	239.010	2730.76	30.76	90.89	0.626	2730.73	433.093
11	238.46	2730.73	36.79	0.253	238.714	2730.75	30.75	90.86	0.626	2730.71	432.564
11	238.16	2730.71	36.22	0.249	238.413	2730.73	30.73	90.83	0.626	2730.69	432.028
11	237.86	2730.69	36.13	0.249	238.112	2730.71	30.71	90.81	0.625	2730.67	431.492
11	237.56	2730.67	36.11	0.249	237.811	2730.69	30.69	90.78	0.625	2730.65	430.957
11	237.26	2730.66	35.61	0.245	237.507	2730.67	30.67	90.75	0.625	2730.63	430.414
11	236.96	2730.64	35.53	0.245	237.202	2730.65	30.65	90.72	0.625	2730.61	429.872
11	236.65	2730.62	35.51	0.245	236.898	2730.63	30.63	90.70	0.625	2730.60	429.330

ORDINATE	Time (hr)	INFLOW (cfs)	CUM. VOL (AC-ft)	STAGE (ft)	HEAD (ft)	OUTFLOW (cfs)	Δ VOL (AC-ft)	NEW VOLUME (AC-ft)	NEW ELEVATION (ft)	INFLOW (cfs)	CUM. VOL (AC-ft)	STAGE (ft)	INFLOW FROM NORTH BASIN (cfs)	ADDITIONAL VOLUME (AC-ft)	NEW VOLUME	NEW ELEVATION (ft)	Head	Flow (cfs)	Δ VOL (AC-ft)	NEW ELEVATION (ft)	COMBINED VOLUME (AC-ft)
497	41.33	1	193.06	2730.64	0.04	35.49	0.244	192.819	2730.62	11	236.35	2730.60	35.49	0.244	236.593	2730.61	30.61	90.67	0.624	2730.58	428.788
498	41.42	1	192.83	2730.62	0.04	35.48	0.244	192.582	2730.60	11	236.04	2730.58	35.48	0.244	236.289	2730.60	30.60	90.64	0.624	2730.56	428.247
499	41.50	0	192.58	2730.60	0.04	34.99	0 241	192.341	2730.58	11	235.74	2730.56	34 99	0.241	235.981	2730.58	30.58	90.61	0.624	2730.54	427.698
500	41.58	0	192.34	2730.58	0.04	34.91	0.240	192.100	2730.56	11	235.43	2730.54	34.91	0.240	235.674	2730.56	30.56	90.58	0.624	2730.52	427.150
501	41.67	0	192.10	2730.56	0.04	34.88	0.240	191.860	2730.54	11	235.13	2730.52	34.88	0.240	235.366	2730.54	30.54	90.56	0.624	2730.50	426.602
502	41.75	0	191.86	2730.54	0.04	34.87	0.240	191.620	2730.52	11	234.82	2730.51	34.87	0.240	235.058	2730.52	30.52	90.53	0.623	2730.48	426.055
503	41.83	0	191.62	2730.52	0.04	34.86	0.240	191.380	2730.50	11	234.51	2730.49	34.86	0.240	234.750	2730.50	30.50	90.50	0.623	2730.46	425.507
504	41.92	0	191.38	2730.50	0.04	34.85	0.240	191.140	2730.48	11	234.20	2730.47	34.85	0.240	234.443	2730.48	30.48	90.47	0.623	2730.44	424.960
505	42.00	0	191.14	2730.48	0.04	34.83	0.240	190.900	2730.46	11	233.90	2730 45	34 83	0.240	234.135	2730.46	30.46	90.44	0.623	2730.43	424.413
506	42.08	0	190.90	2730.46	0.04	34.82	0.240	190.660	2730.45	11	233.59	2730.43	34.82	0.240	233.828	2730.44	30.44	90.42	0.623	2730.41	423.866
507	42.17	0	190.66	2730.45	0.04	34.81	0.240	190.421	2730.43	11	233.28	2730.41	34.81	0.240	233.521	2730.43	30.43	90.39	0.623	2730.39	423.319
508	42.25	0	190.42	2730.43	0.04	34.80	0 240	190.181	2730.41	11	232.97	2730.39	34.80	0.240	233.214	2730.41	30.41	90.36	0.622	2730.37	422.772
509	42.33	0	190.18	2730.41	0.04	34.78	0.240	189.941	2730.39	11	232.67	2730.37	34.78	0.240	232.907	2730.39	30.39	90.33	0.622	2730.35	422.226
510	42.42	0	189.94	2730.39	0.04	34.77	0.239	189.702	2730 37	11	232.36	2730.35	34.77	0.239	232.600	2730.37	30.37	90.30	0.622	2730.33	421.680
511	42.50	0	189.70	2730.37	0.04	34.76	0.239	189.463	2730.35	11	232.05	2730.34	34.76	0.239	232.293	2730.35	30.35	90.28	0.622	2730.31	421.134
512	42.58	0	189.46	2730.35	0.04	34.75	0.239	189.223	2730.33	11	231.75	2730.32	34.75	0.239	231.986	2730.33	30.33	90.25	0.622	2730.29	420.588
513	42.67	0	189.22	2730.33	0.04	34.73	0.239	188.984	2730.31	11	231.44	2730.30	34.73	0.239	231.680	2730 31	30.31	90.22	0.621	2730.27	420.042
514	42.75	0	188.98	2730.31	0.04	34.72	0.239	188.745	2730.29	11	231.13	2730.28	34.72	0.239	231.373	2730.29	30.29	90.19	0.621	2730.26	419.497
515	42.83	0	188.74	2730.29	0.04	34.71	0.239	188.506	2730.28	11	230.83	2730.26	34.71	0.239	231.067	2730.27	30.27	90.16	0.621	2730.24	418.952
516	42.92	0	188.51	2730.28	0.04	34.70	0.239	188.267	2730.26	11	230.52	2730.24	34.70	0.239	230.761	2730.26	30.26	90.14	0.621	2730.22	418.407
517	43.00	0	188.27	2730.26	0.04	34.69	0.239	188.028	2730.24	11	230.22	2730.22	34.69	0.239	230.455	2730.24	30.24	90.11	0.621	2730.20	417.862
518	43.08	0	188.03	2730.24	0.04	34.67	0.239	187.789	2730.22	11	229.91	2730.20	34.67	0.239	230.149	2730.22	30.22	90.08	0.620	2730.18	417.317
519	43.17	0	187.79	2730.22	0.04	34.66	0.239	187.550	2730.20	11	229.60	2730.18	34.66	0.239	229.843	2730.20	30.20	90.05	0 620	2730.16	416.773
520	43.25	0	187.55	2730.20	0.04	34.65	0.239	187.312	2730.18	11	229.30	2730.17	34.65	0.239	229.537	2730.18	30.18	90.02	0.620	2730.14	416.229
521	43.33	0	187.31	2730.18	0.04	34.64	0.239	187.073	2730.16	11	228.99	2730.15	34.64	0.239	229.231	2730.16	30.16	90.00	0.620	2730.12	415.685
522	43.42	0	187.07	2730.16	0.04	34.62	0.238	186.835	2730.14	11	228.69	2730.13	34.62	0.238	228.926	2730.14	30.14	89.97	0.620	2730.10	415.141
523	43.50	0	186.83	2730.14	0.04	34.61	0.238	186.596	2730.13	11	228.38	2730.11	34.61	0.238	228.620	2730.12	30.12	89.94	0.619	2730.09	414.597
524	43.58	0	186.60	2730.13	0.04	34.60	0.238	186.358	2730.11	11	228.08	2730.09	34.60	0.238	228.315	2730.11	30.11	89.91	0.619	2730.07	414.054
525	43.67	0	186.36	2730.11	0.04	34.59	0.238	186.120	2730.09	11	227.77	2730.07	34.59	0.238	228.009	2730.09	30.09	89.89	0.619	2730.05	413.510
526	43.75	0	186.12	2730.09	0.04	34.58	0.238	185.882	2730.07	11	227.47	2730.05	34.58	0.238	227.704	2730.07	30.07	89.86	0.619	2730.03	412.967
527	43.83	0	185.88	2730.07	0.04	34.56	0.238	185.644	2730.05	11	227.16	2730.03	34.56	0.238	227.399	2730.05	30.05	89.83	0.619	2730.01	412.424
528	43.92	0	185.64	2730.05	0.04	34.55	0.238	185.406	2730.03	11	226.86	2730.02	34.55	0.238	227.094	2730.03	30.03	89.80	0.618	2729.99	411.882
529	44.00	0	185.41	2730.03	0.04	34.54	0.238	185.168	2730.01	11	226.55	2730.00	34.54	0.238	226.789	2730 01	30.01	89.77	0.618	2729.97	411.339
530	44.08	0	185.17	2730.01	0.04	34.53	0.238	184.930	2729.99	11	226.25	2729.98	34.53	0.238	226.485	2729.99	29.99	50.48	0.348	2729.97	411.067
531	44.17	0	184.93	2729.99	0.02	21.65	0.149	184.781	2729.98	11	226.21	2729.97	21.65	0.149	226.362	2729.98	29.98	50.47	0.348	2729.96	410.795
532	44.25	0	184.78	2729.98	0.02	17.29	0.119	184.662	2729.97	11	226.09	2729.97	17.29	0.119	226.209	2729.97	29.97	50.47	0.348	2729.95	410.524
533	44.33	0	184.66	2729.97	0.02	17.11	0.118	184.544	2729.96	11	225.94	2729.95	17.11	0.118	226.055	2729.96	29.96	50.46	0.347	2729.94	410.252
534	44.42	0	184.54	2729.96	0.02	17.10	0.118	184.427	2729.95	11	225.78	2729.94	17.10	0.118	225.901	2729.95	29.95	50.45	0.347	2729.93	409.980
535	44.50	0	184.43	2729.95	0.02	17.09	0.118	184.309	2729.94	11	225.63	2729.93	17.09	0.118	225.747	2729.94	29.94	50.44	0.347	2729.92	409.709
536	44.58	0	184.31	2729.94	0.02	17.09	0.118	184.191	2729.93	11	225.48	2729.92	17.09	0.118	225.593	2729.93	29.93	50.43	0.347	2729.91	409.437
537	44.67	0	184.19	2729.93	0.02	17.08	0.118	184.073	2729.92	11	225.32	2729.91	17.08	0.118	225.439	2729.92	29.92	50.42	0.347	2729.90	409.165
538	44.75	0	184.07	2729.92	0.02	17.08	0.118	183.956	2729.91	11	225.17	2729.90	17.08	0.118	225.285	2729.91	29.91	50.41	0.347	2729.89	408.894
539	44.83	0	183.96	2729.91	0.02	17.08	0.118	183.838	2729.90	11	225.01	2729.89	17.08	0.118	225.132	2729.90	29.90	50.40	0.347	2729.88	408.623
540	44.92	0	183.84	2729.90	0.02	17.07	0.118	183.721	2729.89	11	224.86	2729.88	17.07	0.118	224.978	2729.89	29.89	50.39	0.347	2729.87	408.351
541	45.00	0	183.72	2729.89	0.02	17.07	0.118	183.603	2729.88	11	224.71	2729.87	17.07	0.118	224.824	2729.88	29.88	50.39	0.347	2729.86	408.080
542	45.08	0	183.60	2729.88	0.02	17.06	0.118	183.486	2729.86	11	224.55	2729.86	17.06	0.118	224.670	2729.87	29.87	50.38	0.347	2729.85	407.809
543	45.17	0	183.49	2729.86	0.02	17.06	0.117	183.368	2729.85	11	224.40	2729.85	17.06	0.117	224.517	2729.86	29.86	50.37	0.347	2729.83	407.538
544	45.25	0	183.37	2729.85	0.02	17.06	0.117	183.251	2729.84	11	224.25	2729.84	17 06	0.117	224 363	2729.85	29.85	50.36	0.347	2729.82	407.267
545	45.33	0	183.25	2729.84	0.02	17.05	0.117	183.133	2729.83	11	224.09	2729.83	17.05	0.117	224.209	2729.84	29.84	50.35	0.347	2729.81	406.996
546	45.42	0	183.13	2729.83	0.02	17.05	0.117	183.016	2729.82	11	223.94	2729.82	17.05	0.117	224.056	2729.83	29.83	50.34	0.347	2729.80	406.725
547	45.50	0	183.02	2729.82	0.02	17.05	0.117	182.898	2729.81	11	223.78	2729.81	17.05	0.117	223.902	2729.82	29.82	50.33	0.347	2729.79	406.454
548	45.58	0	182.90	2729.81	0.02	17.04	0.117	182.781	2729.80	11	223.63	2729.80	17.04	0.117	223.749	2729.81	29.81	50.32	0.347	2729.78	406.183
549	45.67	0	182.78	2729.80	0.02	17.04	0.117	182.664	2729.79	11	223.48	2729.79	17.04	0.117	223.595	2729.80	29.80	50.31	0.347	2729.77	405.912
550	45.75	0	182.66	2729.79	0.02	17.03	0.117	182.546	2729.78	11	223.32	2729.78	17.03	0.117	223.442	2729.79	29.79	50.31	0.346	2729.76	405.642
551	45.83	0	182.55	2729.78	0.02	17.03	0.117	182.429	2729.77	11	223.17	2729.77	17.03	0.117	223.288	2729.78	29.78	50.30	0.346	2729.75	405.371
552	45.92	0	182.43	2729.77	0.02	17.03	0.117	182.312	2729.76	11	223.02	2729.76	17.03	0.117	223.135	2729.76	29.76	50.29	0.346	2729.74	405.100
553	46.00	0	182.31	2729.76	0.02	17.02	0.117	182.195	2729.75	11	222.86	2729.75	17.02	0.117	222.982	2729.75	29.75	50.28	0.346	2729.73	404.830
554	46.08	0	182.19	2729.75	0.02	17.02	0.117	182.077	2729.74	11	222.71	2729.74	17.02	0.117	222.828	2729.74	29.74	50.27	0.346	2729.72	404.559
555	46.17	0	182.08	2729.74	0.02	17.01	0.117	181.960	2729.73	11	222.56	2729.73	17.01	0.117	222.675	2729.73	29.73	50.26	0.346	2729.71	404.289
556	46.25	0	181.96	2729.73	0.02	17.01	0.117	181.843	2729.72	11	222.40	2729.72	17.01	0.117	222.522	2729.72	29.72	50.25	0.346	2729.70	404.019
557	46.33	0	181.84	2729.72	0.02	17.01	0.117	181.726	2729.71	11	222.25	2729.70	17.01	0.117	222.369	2729.71	29.71	50.24	0.346	2729.69	403.748
558	46.42	0	181.73	2729.71	0.02	17.00	0.117	181.609	2729.70	11	222.10	2729.69	17.00	0.117	222.215	2729.70	29.70	50.24	0.346	2729.68	403.478
559	46.50	0	181.61	2729.70	0.02	17.00	0.117	181.492	2729.69	11	221.95	2729.68	17.00	0.117	222.062	2729.69	29.69	50.23	0.346	2729.67	403.208
560	46.58	0	181.49	2729.69	0.02	17.00	0.117	181.375	2729 68	11	221.79	2729.67	17.00	0.117	221.909	2729.68	29.68	50.22	0.346	2729.66	402.938
561	46.67	0	181.37	2729.68	0.02	16.99	0.117	181.258	2729.67	11	221.64	2729.66	16.99	0.117	221.756	2729.67	29.67	50.21	0.346	2729.65	402.668
562	46.75	0	181.26	2729.67	0.02	16.99	0.117	181.141	2729.66	11	221.49	2729.65	16.99	0.117	221.603	2729.66	29.66	50.20	0.346	2729.64	402.398
563	46.83	0	181.14	2729.66	0.02	16.98	0.117	181.024	2729.65	11	221.33	2729.64	16.98	0.117	221.450	2729.65	29.65	50.19	0.346	2729.63	402.128
564	46.92	0	181.02	2729.65	0.02	16.98	0.117	180.907	2729.64	11	221.18	2729.63	16.98	0.117	221.297	2729 64	29.64	50.18	0.346	2729.62	401.858
565	47.00	0	180.91	2729.64	0.02	16.98	0.117	180.790	2729.63	11	221.03	2729.62	16.98	0.117	221.144	2729.63	29.63	50.17	0.346	2729.61	401.588
566	47.08	0	180.79	2729.63	0.02	16.97	0.117	180.673	2729.61	11	220.87	2729.61	16.97	0.117	220.991	2729.62	29.62	50.16	0.345	2729.60	401.319
567	47.17	0	180.67	2729.61	0.02	16.97	0.117	180.556	2729.60	11	220.72	2729.60	16.97	0.117	220.838	2729.61	29.61	50.16	0.345	2729.59	401.049
568	47.25	0	180.56	2729.60	0.02	16.97	0.117	180.439	2729.59	11	220.57	2729.59	16.97	0.117	220.686	2729.60	29.60	50.15	0.345	2729.57	400.779
569	47.33	0	180.44	2729.59	0.02	16.96	0.117	180.322	2729.58	11	220.42	2729.58	16.96	0.117	220.533	2729.59	29.59	50.14	0.345	2729.56	400.510
570	47.42	0	180.32	2729.58	0.02	16.96	0.117	180.206	2729.57	11	220.26	2729.57	16.96	0.117	220.380	2729.58	29.58	50.13	0.345	2729.55	400.240
571	47.50	0	180.21	2729.57	0.02	16.95	0.117	180.089	2729.56	11	220.11	2729.56	16.95	0.117	220.227	2729.57	29.57	50.12	0.345	2729.54	399.971
572	47.58	0	180.09	2729.56	0.02	16.95	0.117	179.972	2729.55	11	219.96	2729.55	16.95	0.117	220.075	2729.56	29.56	50.11	0.345	2729.53	399.702
573	47.67	0	179.97	2729.55	0.02	16.95	0.117	179.855	2729.54	11	219.81	2729.54	16.95	0.117	219.922	2729.55	29.55	50.10	0.345	2729.52	399.432
574	47.75	0	179.86	2729.54	0.02	16.94	0.117	179.739	2729.53	11	219.65	2729.53	16.94	0.117	219.769	2729.54	29.54	50.09	0.345	2729.51	399.163
575	47.83	0	179.74	2729.53	0.02	16.94	0.117	179.622	2729.52	11	219.50	2729.52	16.94	0.117	219.617	2729.53	29.53	50.09	0.345	2729.50	398.894
576	47.92	0	179.62	2729.52	0.02	16.93	0.117	179.505	2729.51	11	219.35	2729.51	16.93	0.117	219.464	2729.52	29.52	50.08	0.345	2729.49	398.625
577	48.00	0	179.51	2729.51	0.02	16.93	0.117	179.389	2729.50	11	219.20	2729.50	16.93	0.117	219.312	2729.51	29.51	50.07	0.345	2729.48	398.356
578	48.08	0	179.39	2729.50	0 02	16.93	0.117	179.272	2729.49	11	219.04	2729.49	16.93	0.117	219.159	2729.49	29.49	50.06	0.345	2729.47	398.087
579	48.17	0	179.27	2729.49	0.02	16.92	0.117	179.156	2729.48	11	218.89	2729.48	16.92	0.117	219.007	2729.48	29.48	50.05	0.345	2729.46	397.818

ORDINATE	Time	INFLOW	CUM. VOL	STAGE	HEAD	OUTFLOW	Δ VOL	NEW VOLUME	NEW ELEVATION	INFLOW	CUM. VOL	STAGE	INFLOW FROM NORTH BASIN	ADDITIONAL VOLUME	NEW VOLUME	NEW ELEVATION	Head	Flow	Δ VOL	NEW ELEVATION	COMBINED VOLUME
	(hr)	(cfs)	(AC-ft)	(ft)	(ft)	(cfs)	(AC-ft)	(AC-ft)	(ft)	(cfs)	(AC-ft)	(ft)	(cfs)	(AC-ft)		(ft)		(cfs)	(AC-ft)	(ft)	(AC-ft)
580	48.25	0	179.16	2729.48	0.02	16.92	0.117	179.039	2729.47	11	218.74	2729.47	16.92	0.117	218.854	2729.47	29.47	50.04	0.345	2729.45	397.549
581	48.33	0	179.04	2729.47	0.02	16.92	0.116	178.923	2729.46	11	218.59	2729.46	16.92	0.116	218.702	2729.46	29.46	50.03	0.345	2729.44	397.280
582	48.42	0	178.92	2729.46	0.02	16.91	0.116	178.806	2729.45	11	218.43	2729.45	16.91	0.116	218.550	2729.45	29.45	50.02	0.345	2729.43	397.011
583	48.50	0	178.81	2729.45	0.02	16.91	0.116	178.690	2729.44	11	218.28	2729.44	16.91	0.116	218.397	2729.44	29.44	50.02	0.344	2729.42	396.742
584	48.58	0	178.69	2729.44	0.02	16.90	0.116	178.573	2729.43	11	218.13	2729.42	16.90	0.116	218.245	2729.43	29.43	50.01	0.344	2729.41	396.474
585	48.67	0	178.57	2729.43	0.02	16.90	0.116	178.457	2729.42	11	217.98	2729.41	16.90	0.116	218.093	2729.42	29.42	50.00	0.344	2729.40	396.205
586	48.75	0	178.46	2729.42	0.02	16.90	0.116	178.341	2729.41	11	217.82	2729.40	16.90	0.116	217.940	2729.41	29.41	49.99	0.344	2729.39	395.937
587	48.83	0	178.34	2729.41	0.02	16.89	0.116	178.224	2729.40	11	217.67	2729.39	16.89	0.116	217.788	2729.40	29.40	49.98	0.344	2729.38	395.668
588	48.92	0	178.22	2729.40	0.02	16.89	0.116	178.108	2729.39	11	217.52	2729.38	16.89	0.116	217.636	2729.39	29.39	49.97	0.344	2729.37	395.400
589	49.00	0	178.11	2729.39	0.02	16.89	0.116	177.992	2729.38	11	217.37	2729.37	16.89	0.116	217.484	2729.38	29.38	49.96	0.344	2729.36	395.132
590	49.08	0	177.99	2729.38	0.02	16.88	0.116	177.875	2729.37	11	217.22	2729.36	16.88	0.116	217.332	2729.37	29.37	49.95	0.344	2729.35	394.863
591	49.17	0	177.88	2729.37	0.02	16.88	0.116	177.759	2729.36	11	217.06	2729.35	16.88	0.116	217.180	2729.36	29.36	49.95	0.344	2729.34	394.595
592	49.25	0	177.76	2729.36	0.02	16.87	0.116	177.643	2729.35	11	216.91	2729.34	16.87	0.116	217.028	2729.35	29.35	49.94	0.344	2729.33	394.327
593	49.33	0	177.64	2729.35	0.02	16.87	0.116	177.527	2729.34	11	216.76	2729.33	16.87	0.116	216.876	2729.34	29.34	49.93	0.344	2729.32	394.059
594	49.42	0	177.53	2729.34	0.02	16.87	0.116	177.411	2729.32	11	216.61	2729.32	16.87	0.116	216.724	2729.33	29.33	49.92	0.344	2729.31	393.791
595	49.50	0	177.41	2729.32	0.02	16.86	0.116	177.294	2729.31	11	216.46	2729.31	16.86	0.116	216.572	2729.32	29.32	49.91	0.344	2729.30	393.523
596	49.58	0	177.29	2729.31	0.02	16.86	0.116	177.178	2729.30	11	216.30	2729.30	16.86	0.116	216.420	2729.31	29.31	49.90	0.344	2729.29	393.255
597	49.67	0	177.18	2729.30	0.02	16.85	0.116	177.062	2729.29	11	216.15	2729.29	16.85	0.116	216.268	2729.30	29.30	49.89	0.344	2729.28	392.987
598	49.75	0	177.06	2729.29	0.02	16.85	0.116	176.946	2729.28	11	216.00	2729.28	16.85	0.116	216.117	2729.29	29.29	49.88	0.344	2729.26	392.719
599	49.83	0	176.95	2729.28	0.02	16.85	0.116	176.830	2729.27	11	215.85	2729.27	16.85	0.116	215.965	2729.28	29.28	49.88	0.343	2729.25	392.451
600	49.92	0	176.83	2729.27	0.02	16.84	0.116	176.714	2729.26	11	215.70	2729.26	16.84	0.116	215.813	2729.27	29.27	49.87	0.343	2729.24	392.184
601	50.00	0	176.71	2729.26	0.02	16.84	0.116	176.598	2729.25	11	215.55	2729.25	16.84	0.116	215.661	2729.26	29.26	49.86	0.343	2729.23	391.916
602	50.08	0	176.60	2729.25	0.02	16.84	0.116	176.482	2729.24	11	215.39	2729.24	16.84	0.116	215.510	2729.25	29.25	49.85	0.343	2729.22	391.649
603	50.17	0	176.48	2729.24	0.02	16.83	0.116	176.366	2729.23	11	215.24	2729.23	16.83	0.116	215.358	2729.24	29.24	49.84	0.343	2729.21	391.381
604	50.25	0	176.37	2729.23	0.02	16.83	0.116	176.250	2729.22	11	215.09	2729.22	16.83	0.116	215.206	2729.23	29.23	49.83	0.343	2729.20	391.114
605	50.33	0	176.25	2729.22	0.02	16.82	0.116	176.135	2729.21	11	214.94	2729.21	16.82	0.116	215.055	2729.22	29.22	49.82	0.343	2729.19	390.846
606	50.42	0	176.13	2729.21	0.02	16.82	0.116	176.019	2729.20	11	214.79	2729.20	16.82	0.116	214.903	2729.21	29.21	49.81	0.343	2729.18	390.579
607	50.50	0	176.02	2729.20	0.02	16.82	0.116	175.903	2729.19	11	214.64	2729.19	16.82	0.116	214.752	2729.20	29.20	49.81	0.343	2729.17	390.312
608	50.58	0	175.90	2729.19	0.02	16.81	0.116	175.787	2729.18	11	214.48	2729.18	16.81	0.116	214.600	2729.19	29.19	49.80	0.343	2729.16	390.045
609	50.67	0	175.79	2729.18	0.02	16.81	0.116	175.671	2729.17	11	214.33	2729.17	16.81	0.116	214.449	2729.17	29.17	49.79	0.343	2729.15	389.777
610	50.75	0	175.67	2729.17	0.02	16.81	0.116	175.556	2729.16	11	214.18	2729.16	16.81	0.116	214.298	2729.16	29.16	49.78	0.343	2729.14	389.510
611	50.83	0	175.56	2729.16	0.02	16.80	0.116	175.440	2729.15	11	214.03	2729.15	16.80	0.116	214.146	2729.15	29.15	49.77	0.343	2729.13	389.243
612	50.92	0	175.44	2729.15	0.02	16.80	0.116	175.324	2729.14	11	213.88	2729.14	16.80	0.116	213.995	2729.14	29.14	49.76	0.343	2729.12	388.976
613	51.00	0	175.32	2729.14	0.02	16.79	0.116	175.209	2729.13	11	213.73	2729.13	16.79	0.116	213.844	2729.13	29.13	49.75	0.343	2729.11	388.710
614	51.08	0	175.21	2729.13	0.02	16.79	0.116	175.093	2729.12	11	213.58	2729.12	16.79	0.116	213.692	2729.12	29.12	49.74	0.343	2729.10	388.443
615	51.17	0	175.09	2729.12	0.02	16.79	0.116	174.977	2729.11	11	213.43	2729.11	16.79	0.116	213.541	2729.11	29.11	49.74	0.343	2729.09	388.176
616	51.25	0	174.98	2729.11	0.02	16.78	0.116	174.862	2729.10	11	213.27	2729.10	16.78	0.116	213.390	2729.10	29.10	49.73	0.342	2729.08	387.909
617	51.33	0	174.86	2729.10	0.02	16.78	0.116	174.746	2729.09	11	213.12	2729.08	16.78	0.116	213.239	2729.09	29.09	49.72	0.342	2729.07	387.643
618	51.42	0	174.75	2729.09	0.02	16.78	0.116	174.631	2729.08	11	212.97	2729.07	16.78	0.116	213.088	2729.08	29.08	49.71	0.342	2729.06	387.376
619	51.50	0	174.63	2729.08	0.02	16.77	0.116	174.515	2729.07	11	212.82	2729.06	16.77	0.116	212.937	2729.07	29.07	49.70	0.342	2729.05	387.109
620	51.58	0	174.52	2729.07	0.02	16.77	0.115	174.400	2729.06	11	212.67	2729.05	16.77	0.115	212.786	2729.06	29.06	49.69	0.342	2729.04	386.843
621	51.67	0	174.40	2729.06	0.02	16.76	0.115	174.284	2729.05	11	212.52	2729.04	16.76	0.115	212.635	2729.05	29.05	49.68	0.342	2729.03	386.577
622	51.75	0	174.28	2729.05	0.02	16.76	0.115	174.169	2729.04	11	212.37	2729.03	16.76	0.115	212.484	2729.04	29.04	49.67	0.342	2729.02	386.310
623	51.83	0	174.17	2729.04	0.02	16.76	0.115	174.053	2729.03	11	212.22	2729.02	16.76	0.115	212.333	2729.03	29.03	49.67	0.342	2729.01	386.044
624	51.92	0	174.05	2729.03	0.02	16.75	0.115	173.938	2729.02	11	212.07	2729.01	16.75	0.115	212.182	2729.02	29.02	49.66	0.342	2729.00	385.778
625	52.00	0	173.94	2729.02	0.02	16.75	0.115	173.823	2729.01	11	211.92	2729.00	16.75	0.115	212.031	2729.01	29.01	49.65	0.342	2728.99	385.511
626	52.08	0	173.82	2729.01	0.02	16.75	0.115	173.707	2729.00	11	211.76	2728.99	16.75	0.115	211.880	2729.00	29.00	49.64	0.342	2728.98	385.245
627	52.17	0	173.71	2729.00	0.02	16.74	0.115	173.592	2728.99	11	211.61	2728.98	16.74	0.115	211.729	2728.99	28.99	49.63	0.342	2728.97	384.979
628	52.25	0	173.59	2728.99	0.02	16.74	0.115	173.477	2728.98	11	211.46	2728.97	16.74	0.115	211.578	2728.98	28.98	49.62	0.342	2728.96	384.713
629	52.33	0	173.48	2728.98	0.02	16.73	0.115	173.361	2728.97	11	211.31	2728.96	16.73	0.115	211.428	2728.97	28.97	49.61	0.342	2728.95	384.447
630	52.42	0	173.36	2728.97	0.02	16.73	0.115	173.246	2728.96	11	211.16	2728.95	16.73	0.115	211.277	2728.96	28.96	49.60	0.342	2728.94	384.182
631	52.50	0	173.25	2728.96	0.02	16.73	0.115	173.131	2728.94	11	211.01	2728.94	16.73	0.115	211.126	2728.95	28.95	49.60	0.342	2728.93	383.916
632	52.58	0	173.13	2728.94	0.02	16.72	0.115	173.016	2728.93	11	210.86	2728.93	16.72	0.115	210.976	2728.94	28.94	49.59	0.342	2728.92	383.650
633	52.67	0	173.02	2728.93	0.02	16.72	0.115	172.901	2728.92	11	210.71	2728.92	16.72	0.115	210.825	2728.93	28.93	49.58	0.341	2728.91	383.384
634	52.75	0	172.90	2728.92	0.02	16.71	0.115	172.786	2728.91	11	210.56	2728.91	16.71	0.115	210.674	2728.92	28.92	49.57	0.341	2728.90	383.119
635	52.83	0	172.79	2728.91	0.02	16.71	0.115	172.671	2728.90	11	210.41	2728.90	16.71	0.115	210.524	2728.91	28.91	49.56	0.341	2728.89	382.853
636	52.92	0	172.67	2728.90	0.02	16.71	0.115	172.555	2728.89	11	210.26	2728.89	16.71	0.115	210.373	2728.90	28.90	49.55	0.341	2728.87	382.588
637	53.00	0	172.56	2728.89	0.02	16.70	0.115	172.440	2728.88	11	210.11	2728.88	16.70	0.115	210.223	2728.89	28.89	49.54	0.341	2728.86	382.322
638	53.08	0	172.44	2728.88	0.02	16.70	0.115	172.325	2728.87	11	209.96	2728.87	16.70	0.115	210.072	2728.88	28.88	49.53	0.341	2728.85	382.057
639	53.17	0	172.33	2728.87	0.02	16.70	0.115	172.210	2728.86	11	209.81	2728.86	16.70	0.115	209.922	2728.87	28.87	49.53	0.341	2728.84	381.791
640	53.25	0	172.21	2728.86	0.02	16.69	0.115	172.095	2728.85	11	209.66	2728.85	16.69	0.115	209.772	2728.86	28.86	49.52	0.341	2728.83	381.526
641	53.33	0	172.10	2728.85	0.02	16.69	0.115	171.981	2728.84	11	209.51	2728.84	16.69	0.115	209.621	2728.85	28.85	49.51	0.341	2728.82	381.261
642	53.42	0	171.98	2728.84	0.02	16.68	0.115	171.866	2728.83	11	209.36	2728.83	16.68	0.115	209.471	2728.84	28.84	49.50	0.341	2728.81	380.996
643	53.50	0	171.87	2728.83	0.02	16.68	0.115	171.751	2728.82	11	209.21	2728.82	16.68	0.115	209.321	2728.83	28.83	49.49	0.341	2728.80	380.731
644	53.58	0	171.75	2728.82	0.02	16.68	0.115	171.636	2728.81	11	209.06	2728.81	16.68	0.115	209.171	2728.82	28.82	49.48	0.341	2728.79	380.466
645	53.67	0	171.64	2728.81	0.02	16.67	0.115	171.521	2728.80	11	208.91	2728.80	16.67	0.115	209.020	2728.81	28.81	49.47	0.341	2728.78	380.201
646	53.75	0	171.52	2728.80	0.02	16.67	0.115	171.406	2728.79	11	208.76	2728.79	16.67	0.115	208.870	2728.80	28.80	49.46	0.341	2728.77	379.936
647	53.83	0	171.41	2728.79	0.02	16.67	0.115	171.291	2728.78	11	208.61	2728.78	16.67	0.115	208.720	2728.79	28.79	49.45	0.341	2728.76	379.671
648	53.92	0	171.29	2728.78	0.02	16.66	0.115	171.177	2728.77	11	208.46	2728.77	16.66	0.115	208.570	2728.78	28.78	49.45	0.341	2728.75	379.406
649	54.00	0	171.18	2728.77	0.02	16.66	0.115	171.062	2728.76	11	208.31	2728.76	16.66	0.115	208.420	2728.77	28.77	49.44	0.340	2728.74	379.142
650	54.08	0	171.06	2728.76	0.02	16.65	0.115	170.947	2728.75	11	208.16	2728.75	16.65	0.115	208.270	2728.76	28.76	49.43	0.340	2728.73	378.877
651	54.17	0	170.95	2728.75	0.02	16.65	0.115	170.833	2728.74	11	208.01	2728.74	16.65	0.115	208.120	2728.75	28.75	49.42	0.340	2728.72	378.612
652	54.25	0	170.83	2728.74	0.02	16.65	0.115	170.718	2728.73	11	207.86	2728.73	16.65	0.115	207.970	2728.73	28.73	49.41	0.340	2728.71	378.348
653	54.33	0	170.72	2728.73	0.02	16.64	0.115	170.603	2728.72	11	207.71	2728.72	16.64	0.115	207.820	2728.72	28.72	49.40	0.340	2728.70	378.083
654	54.42	0	170.60	2728.72	0.02	16.64	0.115	170.489	2728.71	11	207.56	2728.71	16.64	0.115	207.670	2728.71	28.71	49.39	0.340	2728.69	377.819
655	54.50	0	170.49	2728.71	0.02	16.63	0.115	170.374	2728.70	11	207.41	2728.70	16.63	0.115	207.520	2728.70	28.70	49.38	0.340	2728.68	377.554
656	54.58	0	170.37	2728.70	0.02	16.63	0.115	170.260	2728.69	11	207.26	2728.69	16.63	0.115	207.371	2728.69	28.69	49.38	0.340	2728.67	377.290
657	54.67	0	170.26	2728.69	0.02	16.63	0.115	170.145	2728.68	11	207.11	2728.68	16.63	0.115	207.221	2728.68	28.68	49.37	0.340	2728.66	377.026
658	54.75	0	170.15	2728.68	0.02	16.62	0.114	170.031	2728.67	11	206.96	2728.67	16.62	0.114	207.071	2728.67	28.67	49.36	0.340	2728.65	376.762
659	54.83	0	170.03	2728.67	0.02	16.62	0.114	169.916	2728.66	11	206.81	2728.66	16.62	0.114	206.921	2728.66	28.66	49.35	0.340	2728.64	376.498
660	54.92	0	169.92	2728.66	0.02	16.62	0.114	169.802	2728.65	11	206.66	2728.65	16.62	0.114	206.772	2728.65	28.65	49.34	0.340	2728.63	376.234
661	55.00	0	169.80	2728.65	0.02	16.61	0.114	169.687	2728.64	11	206.51	2728.64	16.61	0.114	206.622	2728.64	28.64	49.33	0.340	2728.62	375.970
662	55.08	0	169.69	2728.64	0.02	16.61	0.114	169.573	2728.63	11	206.36	2728.63	16.61	0.114	206.472	2728.63	28.63	49.32	0.340	2728.61	375.706

ORDINATE	Time (hr)	INFLOW (cfs)	CUM. VOL (AC-ft)	STAGE (ft)	HEAD (ft)	OUTFLOW (cfs)	△ VOL (AC-ft)	NEW VOLUME (AC-ft)	NEW ELEVATION (ft)
663	55.17	0	169.57	2728.63	0.02	16.60	0.114	169.459	2728.62
664	55.25	0	169.46	2728.62	0.02	16.60	0.114	169.344	2728.61
665	55.33	0	169.34	2728.61	0.02	16.60	0.114	169.230	2728.60
666	55.42	0	169.23	2728.60	0.02	16.59	0.114	169.116	2728.59
667	55.50	0	169.12	2728.59	0.02	16.59	0.114	169.002	2728.58
668	55.58	0	169.00	2728.58	0.02	16.59	0.114	168.887	2728.57
669	55.67	0	168.89	2728.57	0.02	16.58	0.114	168.773	2728.56
670	55.75	0	168.77	2728.56	0.02	16.58	0.114	168.659	2728.55
671	55.83	0	168.66	2728.55	0.02	16.57	0.114	168.545	2728.54
672	55.92	0	168.54	2728.54	0.02	16.57	0.114	168.431	2728.53
673	56.00	0	168.43	2728.53	0.02	16.57	0.114	168.317	2728.52
674	56.08	0	168.32	2728.52	0.02	16.56	0.114	168.203	2728.51
675	56.17	0	168.20	2728.51	0.02	16.56	0.114	168.088	2728.50
676	56.25	0	168.09	2728.50	0.02	16.55	0.114	167.974	2728.49
677	56.33	0	167.97	2728.49	0.02	16.55	0.114	167.860	2728.48
678	56.42	0	167.86	2728.48	0.02	16.55	0.114	167.747	2728.47
679	56.50	0	167.75	2728.47	0.02	16.54	0.114	167.633	2728.46
680	56.58	0	167.63	2728.46	0.02	16.54	0.114	167.519	2728.45
681	56.67	0	167.52	2728.45	0.02	16.54	0.114	167.405	2728.44
682	56.75	0	167.40	2728.44	0.02	16.53	0.114	167.291	2728.43
683	56.83	0	167.29	2728.43	0.02	16.53	0.114	167.177	2728.42
684	56.92	0	167.18	2728.42	0.02	16.52	0.114	167.063	2728.41
685	57.00	0	167.06	2728.41	0.02	16.52	0.114	166.950	2728.40
686	57.08	0	166.95	2728.40	0.02	16.52	0.114	166.836	2728.39
687	57.17	0	166.84	2728.39	0.02	16.51	0.114	166.722	2728.38
688	57.25	0	166.72	2728.38	0.02	16.51	0.114	166.608	2728.37
689	57.33	0	166.61	2728.37	0.02	16.51	0.114	166.495	2728.36
690	57.42	0	166.49	2728.36	0.02	16.50	0.114	166.381	2728.35
691	57.50	0	166.38	2728.35	0.02	16.50	0.114	166.267	2728.34
692	57.58	0	166.27	2728.34	0.02	16.49	0.114	166.154	2728.33
693	57.67	0	166.15	2728.33	0.02	16.49	0.114	166.040	2728.31
694	57.75	0	166.04	2728.31	0.02	16.49	0.114	165.927	2728.30
695	57.83	0	165.93	2728.30	0.02	16.48	0.114	165.813	2728.29
696	57.92	0	165.81	2728.29	0.02	16.48	0.113	165.700	2728.28
697	58.00	0	165.70	2728.28	0.02	16.48	0.113	165.586	2728.27
698	58.08	0	165.59	2728.27	0.02	16.47	0.113	165.473	2728.26
699	58.17	0	165.47	2728.26	0.02	16.47	0.113	165.359	2728.25
700	58.25	0	165.36	2728.25	0.02	16.46	0.113	165.246	2728.24
701	58.33	0	165.25	2728.24	0.02	16.46	0.113	165.133	2728.23
702	58.42	0	165.13	2728.23	0.02	16.46	0.113	165.019	2728.22
703	58.50	0	165.02	2728.22	0.02	16.45	0.113	164.906	2728.21
704	58.58	0	164.91	2728.21	0.02	16.45	0.113	164.793	2728.20
705	58.67	0	164.79	2728.20	0.02	16.45	0.113	164.679	2728.19
706	58.75	0	164.68	2728.19	0.02	16.44	0.113	164.566	2728.18
707	58.83	0	164.57	2728.18	0.02	16.44	0.113	164.453	2728.17
708	58.92	0	164.45	2728.17	0.02	16.43	0.113	164.340	2728.16
709	59.00	0	164.34	2728.16	0.02	16.43	0.113	164.227	2728.15
710	59.08	0	164.23	2728.15	0.02	16.43	0.113	164.114	2728.14
711	59.17	0	164.11	2728.14	0.02	16.42	0.113	164.000	2728.13
712	59.25	0	164.00	2728.13	0.02	16.42	0.113	163.887	2728.12
713	59.33	0	163.89	2728.12	0.02	16.42	0.113	163.774	2728.11
714	59.42	0	163.77	2728.11	0.02	16.41	0.113	163.661	2728.10
715	59.50	0	163.66	2728.10	0.02	16.41	0.113	163.548	2728.09
716	59.58	0	163.55	2728.09	0.02	16.40	0.113	163.435	2728.08
717	59.67	0	163.44	2728.08	0.02	16.40	0.113	163.322	2728.07
718	59.75	0	163.32	2728.07	0.02	16.40	0.113	163.209	2728.06
719	59.83	0	163.21	2728.06	0.02	16.39	0.113	163.097	2728.05
720	59.92	0	163.10	2728.05	0.02	16.39	0.113	162.984	2728.04
721	60.00	0	162.98	2728.04	0.02	16.39	0.113	162.871	2728.03
722	60.08	0	162.87	2728.03	0.02	16.38	0.113	162.758	2728.02
723	60.17	0	162.76	2728.02	0.02	16.38	0.113	162.645	2728.01
724	60.25	0	162.65	2728.01	0.02	16.37	0.113	162.532	2728.00
725	60.33	0	162.53	2728.00	0.02	16.37	0.113	162.420	2727.99
726	60.42	0	162.42	2727.99	0.02	16.37	0.113	162.307	2727.98
727	60.50	0	162.31	2727.98	0.02	16.36	0.113	162.194	2727.97
728	60.58	0	162.19	2727.97	0.02	16.36	0.113	162.082	2727.96
729	60.67	0	162.08	2727.96	0.02	16.36	0.113	161.969	2727.95
730	60.75	0	161.97	2727.95	0.02	16.35	0.113	161.856	2727.94
731	60.83	0	161.86	2727.94	0.02	16.35	0.113	161.744	2727.93
732	60.92	0	161.74	2727.93	0.02	16.34	0.113	161.631	2727.92
733	61.00	0	161.63	2727.92	0.02	16.76	0.115	161.516	2727.91
734	61.08	0	161.52	2727.91	0.02	16.77	0.115	161.400	2727.90
735	61.17	0	161.40	2727.90	0.02	16.77	0.115	161.285	2727.89
736	61.25	0	161.28	2727.89	0.02	16.76	0.115	161.169	2727.88
737	61.33	0	161.17	2727.88	0.02	16.76	0.115	161.054	2727.87
738	61.42	0	161.05	2727.87	0.02	16.75	0.115	160.939	2727.86
739	61.50	0	160.94	2727.86	0.02	16.75	0.115	160.823	2727.85
740	61.58	0	160.82	2727.85	0.02	16.75	0.115	160.708	2727.84

INFLOW (cfs)	CUM. VOL (AC-ft)	STAGE (ft)	INFLOW FROM NORTH BASIN (cfs)	ADDITIONAL VOLUME (AC-ft)	NEW VOLUME (AC-ft)	NEW ELEVATION (ft)	Head (ft)	Flow (cfs)	△ VOL (AC-ft)	NEW ELEVATION (ft)	COMBINED VOLUME (AC-ft)
11	206.21	2728.62	16.60	0.114	206.323	2728.62	28.62	49.31	0.340	2728.60	375.442
11	206.06	2728.61	16.60	0.114	206.173	2728.61	28.61	49.31	0.340	2728.59	375.178
11	205.91	2728.59	16.60	0.114	206.024	2728.60	28.60	49.30	0.340	2728.58	374.914
11	205.76	2728.58	16.59	0.114	205.874	2728.59	28.59	49.29	0.339	2728.57	374.651
11	205.61	2728.57	16.59	0.114	205.725	2728.58	28.58	49.28	0.339	2728.56	374.387
11	205.46	2728.56	16.59	0.114	205.575	2728.57	28.57	49.27	0.339	2728.55	374.123
11	205.31	2728.55	16.58	0.114	205.426	2728.56	28.56	49.26	0.339	2728.54	373.860
11	205.16	2728.54	16.58	0.114	205.277	2728.55	28.55	49.25	0.339	2728.53	373.596
11	205.01	2728.53	16.57	0.114	205.127	2728.54	28.54	49.24	0.339	2728.52	373.333
11	204.86	2728.52	16.57	0.114	204.978	2728.53	28.53	49.24	0.339	2728.51	373.070
11	204.71	2728.51	16.57	0.114	204.829	2728.52	28.52	49.23	0.339	2728.50	372.806
11	204.57	2728.50	16.56	0.114	204.680	2728.51	28.51	49.22	0.339	2728.49	372.543
11	204.42	2728.49	16.56	0.114	204.531	2728.50	28.50	49.21	0.339	2728.48	372.280
11	204.27	2728.48	16.55	0.114	204.381	2728.49	28.49	49.20	0.339	2728.47	372.017
11	204.12	2728.47	16.55	0.114	204.232	2728.48	28.48	49.19	0.339	2728.46	371.754
11	203.97	2728.46	16.55	0.114	204.083	2728.47	28.47	49.18	0.339	2728.45	371.491
11	203.82	2728.45	16.54	0.114	203.934	2728.46	28.46	49.17	0.339	2728.44	371.228
11	203.67	2728.44	16.54	0.114	203.785	2728.45	28.45	49.17	0.339	2728.43	370.965
11	203.52	2728.43	16.54	0.114	203.636	2728.44	28.44	49.16	0.339	2728.42	370.702
11	203.37	2728.42	16.53	0.114	203.487	2728.43	28.43	49.15	0.338	2728.41	370.440
11	203.22	2728.41	16.53	0.114	203.338	2728.42	28.42	49.14	0.338	2728.40	370.177
11	203.08	2728.40	16.52	0.114	203.190	2728.41	28.41	49.13	0.338	2728.39	369.914
11	202.93	2728.39	16.52	0.114	203.041	2728.40	28.40	49.12	0.338	2728.38	369.652
11	202.78	2728.38	16.52	0.114	202.892	2728.39	28.39	49.11	0.338	2728.37	369.389
11	202.63	2728.37	16.51	0.114	202.743	2728.38	28.38	49.10	0.338	2728.36	369.127
11	202.48	2728.36	16.51	0.114	202.594	2728.37	28.37	49.10	0.338	2728.35	368.865
11	202.33	2728.35	16.51	0.114	202.446	2728.36	28.36	49.09	0.338	2728.34	368.602
11	202.18	2728.34	16.50	0.114	202.297	2728.35	28.35	49.08	0.338	2728.33	368.340
11	202.03	2728.33	16.50	0.114	202.148	2728.34	28.34	49.07	0.338	2728.32	368.078
11	201.89	2728.32	16.49	0.114	202.000	2728.33	28.33	49.06	0.338	2728.31	367.816
11	201.74	2728.31	16.49	0.114	201.851	2728.32	28.32	49.05	0.338	2728.30	367.554
11	201.59	2728.30	16.49	0.114	201.703	2728.31	28.31	49.04	0.338	2728.29	367.292
11	201.44	2728.29	16.48	0.114	201.554	2728.30	28.30	49.03	0.338	2728.28	367.030
11	201.29	2728.28	16.48	0.113	201.406	2728.29	28.29	49.03	0.338	2728.27	366.768
11	201.14	2728.27	16.48	0.113	201.257	2728.28	28.28	49.02	0.338	2728.26	366.506
11	201.00	2728.26	16.47	0.113	201.109	2728.27	28.27	49.01	0.338	2728.25	366.244
11	200.85	2728.25	16.47	0.113	200.961	2728.26	28.26	49.00	0.337	2728.24	365.983
11	200.70	2728.24	16.46	0.113	200.812	2728.25	28.25	48.99	0.337	2728.23	365.721
11	200.55	2728.23	16.46	0.113	200.664	2728.24	28.24	48.98	0.337	2728.22	365.459
11	200.40	2728.22	16.46	0.113	200.516	2728.23	28.23	48.97	0.337	2728.21	365.198
11	200.25	2728.21	16.45	0.113	200.368	2728.22	28.22	48.96	0.337	2728.20	364.936
11	200.11	2728.20	16.45	0.113	200.219	2728.21	28.21	48.96	0.337	2728.19	364.675
11	199.96	2728.19	16.45	0.113	200.071	2728.20	28.20	48.95	0.337	2728.18	364.414
11	199.81	2728.18	16.44	0.113	199.923	2728.19	28.19	48.94	0.337	2728.17	364.152
11	199.66	2728.17	16.44	0.113	199.775	2728.18	28.18	48.93	0.337	2728.16	363.891
11	199.51	2728.16	16.43	0.113	199.627	2728.17	28.17	48.92	0.337	2728.15	363.630
11	199.37	2728.15	16.43	0.113	199.479	2728.16	28.16	48.91	0.337	2728.14	363.369
11	199.22	2728.14	16.43	0.113	199.331	2728.15	28.15	48.90	0.337	2728.13	363.108
11	199.07	2728.13	16.42	0.113	199.183	2728.14	28.14	48.90	0.337	2728.12	362.847
11	198.92	2728.12	16.42	0.113	199.035	2728.13	28.13	48.89	0.337	2728.11	362.586
11	198.77	2728.11	16.42	0.113	198.887	2728.12	28.12	48.88	0.337	2728.10	362.325
11	198.63	2728.10	16.41	0.113	198.740	2728.11	28.11	48.87	0.337	2728.09	362.064
11	198.48	2728.09	16.41	0.113	198.592	2728.10	28.10	48.86	0.337	2728.08	361.803
11	198.33	2728.08	16.40	0.113	198.444	2728.09	28.09	48.85	0.336	2728.07	361.543
11	198.18	2728.07	16.40	0.113	198.296	2728.08	28.08	48.84	0.336	2728.06	361.282
11	198.04	2728.06	16.40	0.113	198.149	2728.07	28.07	48.83	0.336	2728.05	361.022
11	197.89	2728.05	16.39	0.113	198.001	2728.06	28.06	48.83	0.336	2728.04	360.761
11	197.74	2728.04	16.39	0.113	197.853	2728.05	28.05	48.82	0.336	2728.03	360.501
11	197.59	2728.03	16.39	0.113	197.706	2728.04	28.04	48.81	0.336	2728.02	360.240
11	197.45	2728.02	16.38	0.113	197.558	2728.03	28.03	48.80	0.336	2728.01	359.980
11	197.30	2728.01	16.38	0.113	197.411	2728.02	28.02	48.79	0.336	2728.00	359.720
11	197.15	2728.00	16.37	0.113	197.263	2728.01	28.01	48.78	0.336	2727.98	359.459
11	197.00	2727.99	16.37	0.113	197.116	2728.00	28.00	48.77	0.336	2727.97	359.199
11	196.86	2727.98	16.37	0.113	196.968	2727.99	27.99	48.77	0.336	2727.96	358.939
11	196.71	2727.97	16.36	0.113	196.821	2727.98	27.98	48.76	0.336	2727.95	358.679
11	196.56	2727.96	16.36	0.113	196.673	2727.97	27.97	48.75	0.336	2727.94	358.419
11	196.41	2727.95	16.36	0.113	196.526	2727.96	27.96	48.74	0.336	2727.93	358.159
11	196.27	2727.94	16.35	0.113	196.379	2727.95	27.95	48.73	0.336	2727.92	357.899
11	196.12	2727.93	16.35	0.113	196.231	2727.94	27.94	48.72	0.336	2727.91	357.640
10	195.96	2727.92	16.34	0.113	196.077	2727.93	27.93	48.71	0.335	2727.90	357.373
10	195.81	2727.91	16.76	0.115	195.926	2727.92	27.92	48.70	0.335	2727.89	357.106
10	195.66	2727.90	16.77	0.115	195.775	2727.91	27.91	48.69	0.335	2727.88	356.840
10	195.51	2727.89	16.77	0.115	195.624	2727.90	27.90	48.69	0.335	2727.87	356.574
10	195.36	2727.88	16.76	0.115	195.473	2727.89	27.89	48.68	0.335	2727.86	356.307
10	195.21	2727.87	16.76	0.115	195.322	2727.88	27.88	48.67	0.335	2727.85	356.041
10	195.06	2727.86	16.75	0.115	195.171	2727.87	27.87	48.66	0.335	2727.84	355.775
10	194.90	2727.85	16.75	0.115	195.020	2727.86	27.86	48.65	0.335	2727.83	355.508
10	194.75	2727.84	16.75	0.115	194.869	2727.85	27.85	48.64	0.335	2727.82	355.242

Beltway Detention Basins Performance Curves

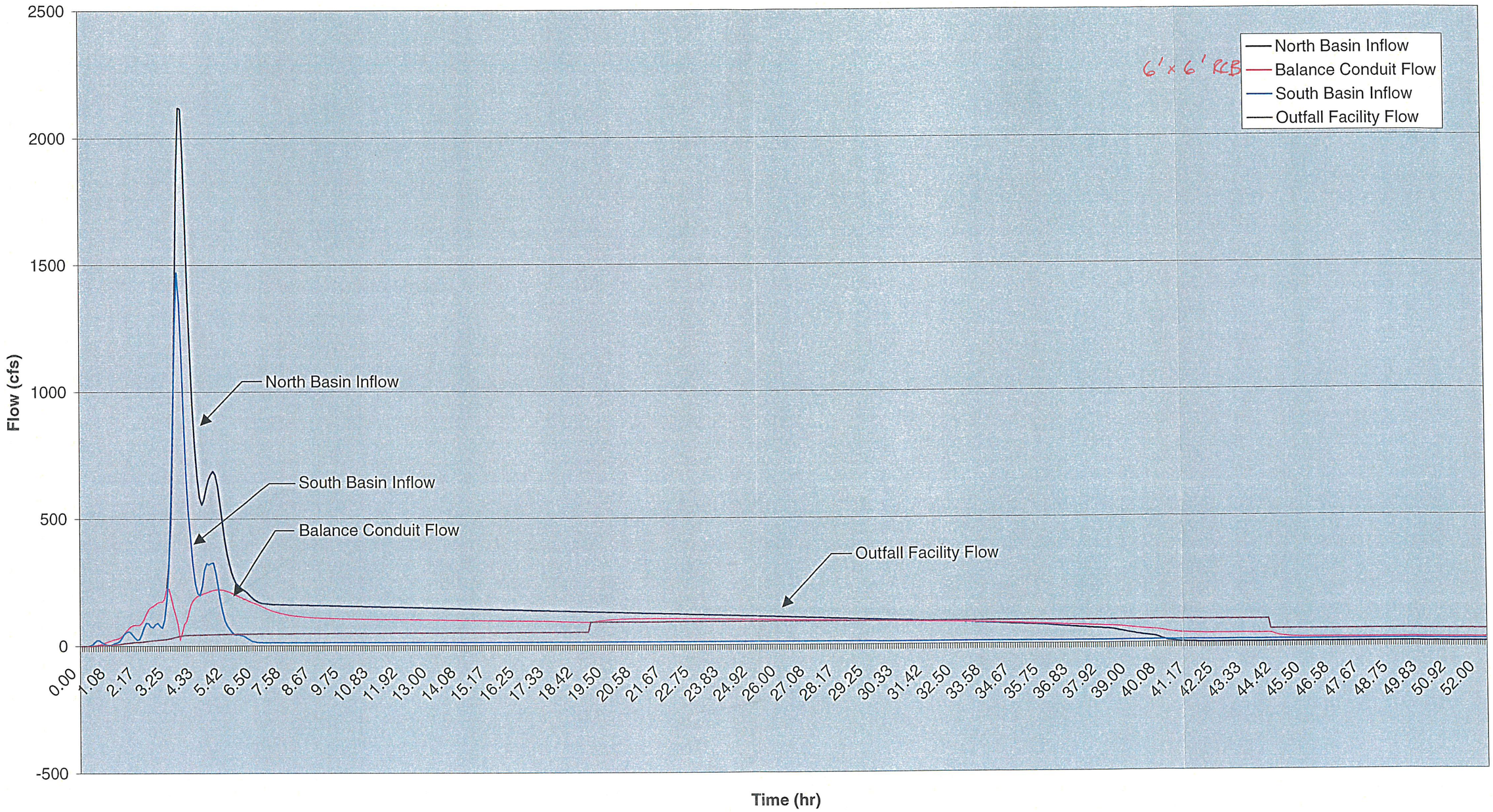

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Chart-Performance

Basin Stage

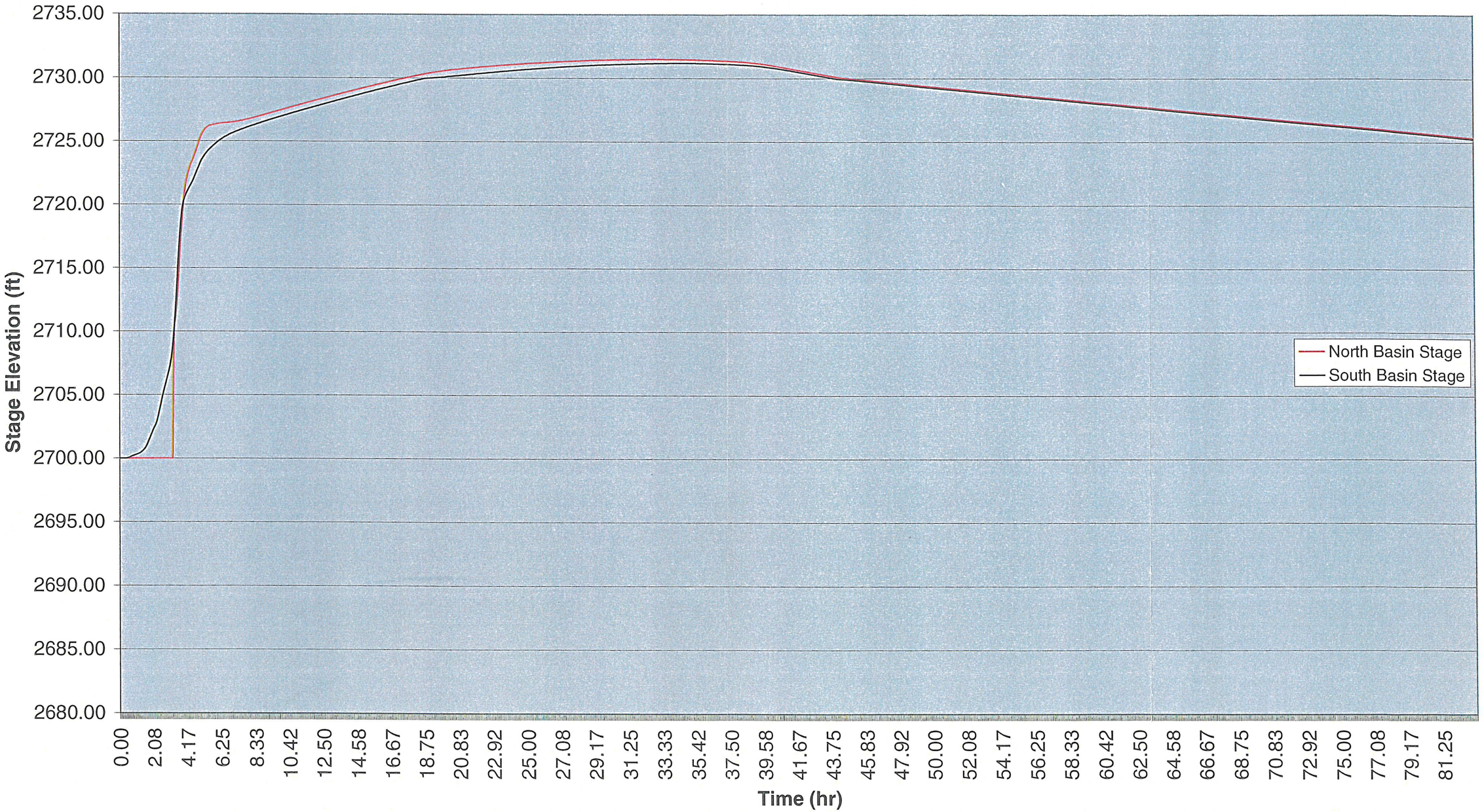

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Chart-Stage

6'x6' RCB

		North Basin								South Basin							Outfall Facility				
ORDINATE	Time	INFLOW	CUM. VOL	STAGE	HEAD	OUTFLOW	Δ VOL	NEW VOLUME	NEW ELEVATION	INFLOW	CUM. VOL	STAGE	INFLOW FROM NORTH BASIN	ADDITIONAL VOLUME	NEW VOLUME	NEW ELEVATION	Head	Flow	Δ VOL	NEW ELEVATION	COMBINED VOLUME
	(hr)	(cfs)	(AC-ft)	(ft)	(ft)	(cfs)	(AC-ft)	(AC-ft)	(ft)	(cfs)	(AC-ft)	(ft)	(cfs)	(AC-ft)		(ft)		(cfs)	(AC-ft)	(ft)	(AC-ft)
1	0.00	0	0.00	2700.00	0.00	0.00	0.000	0.000	2700.00	0	0.00	2700.00	0.00	0.000	0.000	2700.00	0.00	0.00	0.000	2700.00	0.000
2	0.08	0	0.00	2700.00	0.00	0.00	0.000	0.000	2700.00	0	0.00	2700.00	0.00	0.000	0.000	2700.00	0.00	0.00	0.000	2700.00	0.000
3	0.17	0	0.00	2700.00	0.00	0.00	0.000	0.000	2700.00	0	0.00	2700.00	0.00	0.000	0.000	2700.00	0.00	0.00	0.000	2700.00	0.000
4	0.25	0	0.00	2700.00	0.00	0.00	0.000	0.000	2700.00	0	0.00	2700.00	0.00	0.000	0.000	2700.00	0.00	0.00	0.000	2700.00	0.000
5	0.33	0	0.00	2700.00	0.00	0.00	0.000	0.000	2700.00	1	0.01	2700.00	0.00	0.000	0.007	2700.00	0.00	0.02	0.000	2700.00	0.007
6	0.42	0	0.00	2700.00	0.00	-0.58	0.000	0.000	2700.00	5	0.04	2700.01	0.00	0.000	0.041	2700.01	0.01	0.13	0.001	2700.01	0.040
7	0.50	1	0.01	2700.69	0.68	1.00	0.000	0.000	2700.00	14	0.14	2700.05	0.00	0.000	0.137	2700.05	0.05	0.42	0.003	2700.04	0.134
8	0.58	2	0.02	2702.07	2.02	3.00	0.021	0.000	2700.00	22	0.29	2700.10	3.00	0.021	0.305	2700.10	0.10	0.95	0.007	2700.10	0.299
9	0.67	4	0.03	2702.75	2.65	4.00	0.028	0.000	2700.00	22	0.45	2700.15	4.00	0.028	0.479	2700.16	0.16	1.48	0.010	2700.16	0.468
10	0.75	7	0.05	2704.82	4.66	7.00	0.048	0.000	2700.00	15	0.57	2700.19	7.00	0.048	0.620	2700.21	0.21	1.92	0.013	2700.20	0.607
11	0.83	10	0.07	2705.63	5.43	10.00	0.069	0.000	2700.00	9	0.67	2700.22	10.00	0.069	0.737	2700.25	0.25	2.29	0.016	2700.24	0.722
12	0.92	14	0.10	2706.55	6.30	14.00	0.096	0.000	2700.00	4	0.75	2700.25	14.00	0.096	0.846	2700.28	0.28	2.62	0.018	2700.28	0.828
13	1.00	17	0.12	2707.24	6.96	17.00	0.117	0.000	2700.00	2	0.84	2700.28	17.00	0.117	0.958	2700.32	0.32	2.97	0.020	2700.32	0.938
14	1.08	20	0.14	2707.92	7.61	20.00	0.138	0.000	2700.00	2	0.95	2700.32	20.00	0.138	1.090	2700.37	0.37	3.38	0.023	2700.36	1.066
15	1.17	23	0.16	2708.61	8.25	23.00	0.158	0.000	2700.00	5	1.10	2700.37	23.00	0.158	1.259	2700.42	0.42	3.90	0.027	2700.41	1.232
16	1.25	26	0.18	2709.30	8.89	26.00	0.179	0.000	2700.00	10	1.30	2700.44	26.00	0.179	1.480	2700.50	0.50	4.59	0.032	2700.49	1.449
17	1.33	28	0.19	2709.76	9.27	28.00	0.193	0.000	2700.00	13	1.54	2700.52	28.00	0.193	1.731	2700.58	0.58	5.36	0.037	2700.57	1.694
18	1.42	31	0.21	2710.00	9.43	31.00	0.213	0.000	2700.00	18	1.82	2700.61	31.00	0.213	2.031	2700.68	0.68	6.30	0.043	2700.67	1.988
19	1.50	37	0.25	2710.01	9.34	37.00	0.255	0.000	2700.00	30	2.19	2700.74	37.00	0.255	2.450	2700.82	0.82	7.59	0.052	2700.81	2.397
20	1.58	45	0.31	2710.02	9.21	45.00	0.310	0.000	2700.00	44	2.70	2700.91	45.00	0.310	3.010	2701.01	1.01	9.26	0.064	2700.99	2.946
21	1.67	55	0.38	2710.02	9.03	55.00	0.379	0.000	2700.00	52	3.30	2701.11	55.00	0.379	3.683	2701.24	1.24	10.13	0.070	2701.22	3.614
22	1.75	66	0.45	2710.03	8.82	66.00	0.455	0.000	2700.00	56	4.00	2701.34	66.00	0.455	4.454	2701.50	1.50	11.12	0.077	2701.47	4.377
23	1.83	75	0.52	2710.04	8.57	75.00	0.517	0.000	2700.00	53	4.74	2701.59	75.00	0.517	5.259	2701.77	1.77	12.15	0.084	2701.74	5.175
24	1.92	80	0.55	2710.05	8.31	80.00	0.551	0.000	2700.00	42	5.46	2701.84	80.00	0.551	6.015	2702.02	2.02	13.10	0.090	2701.99	5.925
25	2.00	82	0.56	2710.05	8.06	82.00	0.565	0.000	2700.00	31	6.14	2702.06	82.00	0.565	6.703	2702.25	2.25	13.78	0.095	2702.22	6.608
26	2.08	81	0.56	2710.05	7.83	81.00	0.558	0.000	2700.00	23	6.77	2702.28	81.00	0.558	7.325	2702.46	2.46	14.39	0.099	2702.43	7.225
27	2.17	82	0.56	2710.05	7.62	82.00	0.565	0.000	2700.00	26	7.40	2702.49	82.00	0.565	7.969	2702.68	2.68	15.03	0.103	2702.64	7.866
28	2.25	89	0.61	2710.05	7.41	89.00	0.613	0.000	2700.00	45	8.18	2702.75	89.00	0.613	8.789	2702.96	2.96	15.83	0.109	2702.92	8.680
29	2.33	105	0.72	2710.07	7.15	105.00	0.723	0.000	2700.00	72	9.18	2703.09	105.00	0.723	9.899	2703.33	3.33	16.78	0.116	2703.29	9.783
30	2.42	125	0.86	2710.09	6.80	125.00	0.861	0.000	2700.00	90	10.40	2703.50	125.00	0.861	11.254	2703.79	3.79	17.91	0.123	2703.75	11.140
31	2.50	143	0.98	2710.11	6.35	143.00	0.985	0.000	2700.00	88	11.75	2703.95	143.00	0.985	12.731	2704.28	4.28	19.05	0.131	2704.24	12.600
32	2.58	152	1.05	2710.12	5.88	152.00	1.047	0.000	2700.00	74	13.11	2704.41	152.00	1.047	14.157	2704.76	4.76	20.09	0.138	2704.71	14.018
33	2.67	156	1.07	2710.12	5.41	156.00	1.074	0.000	2700.00	72	14.51	2704.88	156.00	1.074	15.588	2705.19	5.19	20.98	0.145	2705.15	15.444
34	2.75	163	1.12	2710.13	4.98	163.00	1.123	0.000	2700.00	84	16.02	2705.30	163.00	1.123	17.145	2705.60	5.60	21.79	0.150	2705.56	16.995
35	2.83	170	1.17	2710.13	4.58	170.00	1.171	0.000	2700.00	89	17.61	2705.72	170.00	1.171	18.779	2706.03	6.03	22.63	0.156	2705.99	18.623
36	2.92	173	1.19	2710.14	4.15	173.00	1.191	0.000	2700.00	77	19.15	2706.12	173.00	1.191	20.345	2706.44	6.44	23.37	0.161	2706.39	20.184
37	3.00	173	1.19	2710.14	3.74	173.00	1.191	0.000	2700.00	70	20.67	2706.52	173.00	1.191	21.857	2706.83	6.83	24.09	0.166	2706.79	21.691
38	3.08	184	1.27	2710.15	3.36	184.00	1.267	0.000	2700.00	101	22.39	2706.97	184.00	1.267	23.654	2707.31	7.31	24.90	0.172	2707.26	23.483
39	3.17	224	1.54	2710.18	2.92	224.00	1.543	0.000	2700.00	179	24.72	2707.58	224.00	1.543	26.258	2707.99	7.99	26.05	0.179	2707.94	26.079
40	3.25	315	2.17	2710.27	2.33	223.37	1.538	0.000	2700.00	310	28.21	2708.50	223.37	1.538	29.752	2708.91	8.91	27.50	0.189	2708.86	29.563
41	3.33	511	4.15	2710.54	1.69	187.93	1.294	2.856	2710.36	556	33.39	2709.86	187.93	1.294	34.686	2710.16	10.16	29.38	0.202	2710.12	37.340
42	3.42	860	8.78	2711.18	1.06	148.76	1.025	7.754	2711.04	896	40.65	2711.44	148.76	1.025	41.679	2711.66	11.66	31.46	0.217	2711.61	49.217
43	3.50	1357	17.10	2712.32	0.71	116.90	0.805	16.295	2712.21	1274	50.24	2713.48	116.90	0.805	51.041	2713.65	13.65	34.06	0.235	2713.60	67.102
44	3.58	1858	29.09	2713.97	0.36	84.94	0.585	28.506	2713.89	1470	60.93	2715.61	84.94	0.585	61.516	2715.71	15.71	36.53	0.252	2715.67	89.770
45	3.67	2119	43.10	2715.76	0.09	23.65	0.163	42.937	2715.74	1352	70.58	2717.26	23.65	0.163	70.738	2717.29	17.29	38.32	0.264	2717.24	113.411
46	3.75	2114	57.50	2717.45	0.20	52.87	0.364	57.132	2717.40	1136	78.30	2718.58	52.87	0.364	78.662	2718.64	18.64	39.79	0.274	2718.59	135.520
47	3.83	1926	70.40	2718.96	0.36	84.99	0.585	69.811	2718.89	892	84.53	2719.64	84.99	0.585	85.117	2719.74	19.74	40.96	0.282	2719.70	154.646
48	3.92	1646	81.15	2720.19	0.49	96.81	0.667	80.480	2720.12	665	89.41	2720.21	96.81	0.667	90.081	2720.26	20.26	41.49	0.286	2720.24	170.276
49	4.00	1370	89.92	2721.07	0.84	128.32	0.884	89.032	2720.99	519	93.37	2720.51	128.32	0.884	94.254	2720.58	20.58	41.81	0.288	2720.55	182.997
50	4.08	1142	96.90	2721.78	1.23	162.62	1.120	95.777	2721.67	417	96.84	2720.77	162.62	1.120	97.958	2720.85	20.85	42.09	0.290	2720.83	193.444
51	4.17	948	102.31	2722.33	1.50	177.41	1.222	101.084	2722.20	318	99.86	2721.00	177.41	1.222	101.080	2721.09	21.09	42.33	0.292	2721.07	201.872
52	4.25	786	106.50	2722.75	1.68	187.83	1.294	105.203	2722.62	244	102.47	2721.19	187.83	1.294	103.762	2721.29	21.29	42.53	0.293	2721.27	208.673
53	4.33	663	109.77	2723.08	1.81	194.95	1.343	108.427	2722.95	205	104.88	2721.38	194.95	1.343	106.224	2721.48	21.48	42.72	0.294	2721.46	214.356
54	4.42	583	112.44	2723.35	1.90	199.63	1.375	111.067	2723.21	198	107.29	2721.56	199.63	1.375	108.668	2721.66	21.66	42.90	0.295	2721.64	219.440
55	4.50	555	114.89	2723.60	1.98	203.13	1.399	113.491	2723.46	234	109.98	2721.76	203.13	1.399	111.383	2721.87	21.87	43.10	0.297	2721.84	224.577
56	4.58	577	117.46	2723.86	2.02	206.22	1.420	116.044	2723.72	296	113.12	2722.00	206.22	1.420	114.545	2722.10	22.10	43.34	0.298	2722.08	230.291
57	4.67	621	120.32	2724.15	2.07	209.02	1.440	118.881	2724.00	324	116.48	2722.25	209.02	1.440	117.917	2722.36	22.36	43.58	0.300	2722.34	236.499
58	4.75	654	123.39	2724.46	2.12	212.11	1.461	121.925	2724.31	319	119.81	2722.50	212.11	1.461	121.275	2722.61	22.61	43.83	0.302	2722.59	242.898
59	4.83	674	126.57	2724.78	2.19	215.91	1.487	125.050	2724.63	324	123.20	2722.76	215.91	1.487	124.692	2722.87	22.87	44.08	0.304	2722.85	249.468
60	4.92	687	129.81	2725.10	2.25	219.08	1.509	128.302	2724.96	326	126.63	2723.02	219.08	1.509	128.142	2723.13	23.13	44.33	0.305	2723.11	256.139
61	5.00	672	132.93	2725.37	2.27	220.03	1.515	131.415	2725.24	288	129.82	2723.26	220.03	1.515	131.335	2723.37	23.37	44.56	0.307	2723.35	262.443
62	5.08	628	135.74	2725.62	2.28	220.53	1.519	134.221	2725.49	234	132.64	2723.47	220.53	1.519	134.159	2723.58	23.58	44.76	0.308	2723.56	268.072
63	5.17	563	138.10	2725.83	2.27	220.35	1.518	136.581	2725.70	179	135.08	2723.65	220.35	1.518	136.601	2723.77	23.77	44.94	0.309	2723.74	272.873
64	5.25	490	139.96	2726.00	2.25	219.30	1.510	138.445	2725.86	133	137.21	2723.81	219.30	1.510	138.718	2723.93	23.93	45.09	0.311	2723.90	276.853
65	5.33	422	141.35	2726.12	2.22	217.35	1.497	139.855	2725.99	99	139.09	2723.95	217.35	1.497	140.586	2724.07	24.07	45.22	0.311	2724.04	280.129
66	5.42	365	142.37	2726.21	2.17	214.57	1.478	140.891	2726.08	79	140.82	2724.08	214.57	1.478	142.296	2724.20	24.20	45.34	0.312	2724.17	282.875
67	5.50	323	143.12	2726.28	2.11	211.12	1.454	141.961	2726.15	66	142.44	2724.21	211.12	1.454	143.893	2724.32	24.32	45.45	0.313	2724.29	285.241
68	5.58	289	143.65	2726.33	2.03	207.12	1.426	142.225	2726.20	54	143.95	2724.32	207.12	1.426	145.378	2724.43	24.43	45.56	0.314	2724.40	287.289
69	5.67	263	144.04	2726.36	1.96	202.83	1.397	142.640	2726.24	45	145.37	2724.43	202.83	1.397	146.771	2724.53	24.53	45.65	0.314	2724.51	289.096
70	5.75	245	144.33	2726.39	1.88	198.46	1.367	142.960	2726.26	43	146.75	2724.53	198.46	1.367	148.119	2724.63	24.63	45.75	0.315	2724.61	290.765
71	5.83	235	144.58	2726.41	1.80	194.09	1.337	143.242	2726.29	44	148.11	2724.63	194.09	1.337	149.444	2724.73	24.73	45.84	0.316	2724.71	292.370
72	5.92	227	144.81	2726.43	1.72	189.70	1.306	143.499	2726.31	41	149.41	2724.73	189.70	1.306	150.717	2724.83	24.83	45.93	0.316	2724.81	293.900
73	6.00	220	145.01	2726.45	1.64	185.43	1.277	143.737	2726.33	38	150.66	2724.83	185.43	1.277	151.940	2724.92	24.92	46.02	0.317	2724.90	295.360
74	6.08	214	145.21	2726.46	1.57	181.31	1.249	143.962	2726.35	34	151.86	2724.92	181.31	1.249	153.106	2725.01	25.01	46.10	0.317	2724.99	296.750
75	6.17	207	145.39	2726.48	1.49	177.26	1.221	144.167	2726.37	28	152.98	2725.00	177.26	1.221	154.202	2725.08	25.08	46.17	0.318	2725.06	298.051
76	6.25	198	145.53	2726.49	1.43	173.86	1.197	144.333	2726.39	23	154.04	2725.07	173.86	1.197	155.240	2725.15	25.15	46.23	0.318	2725.13	299.254
77	6.33	190	145.64	2726.50	1.37	170.51	1.174	144.467	2726.40	18	155.05	2725.14	170.51	1.174	156.220	2725.22	25.22	46.29	0.319	2725.20	300.368
78	6.42	182	145.72	2726.51	1.31	167.23	1.152	144.569	2726.41	16	156.01	2725.21	167.23	1.152	157.163	2725.28	25.28	46.35	0.319	2725.26	301.412
79	6.50	176	145.78	2726.52	1.25	164.00	1.129	144.652	2726.42	14	156.94	2725.27	164.00	1.129	158.069	2725.35	25.35	46.41	0.320	2725.32	302.401
80	6.58	172	145.84	2726.52	1.20	160.87	1.108	144.728	2726.42	13	157.84	2725.33	160.87	1.108	158.947	2725.41	25.41	46.46	0.320	2725.38	303.356
81	6.67	168	145.89	2726.52	1.14	156.37	1.077	144.808	2726.43	13	158.72	2725.39	156.37	1.077	159.794	2725.46	25.46	46.51	0.320	2725.44	304.282
82	6.75	166	145.95	2726.53	1.09	151.63	1.044	144.907	2726.44	12	159.56	2725.45	151.63	1.044	160.600	2725.52	25.52	46.56	0.321	2725.50	305.187

ORDINATE	Time	INFLOW	CUM. VOL.	STAGE	HEAD	OUTFLOW	Δ VOL	NEW VOLUME	NEW ELEVATION
	(hr)	(cfs)	(AC-ft)	(ft)	(ft)	(cfs)	(AC-ft)	(AC-ft)	(ft)
83	6.83	165	146.04	2726.54	1.04	147.35	1.015	145.029	2726.45
84	6.92	164	146.16	2726.55	1.00	143.44	0.988	145.171	2726.46
85	7.00	163	146.29	2726.56	0.96	139.86	0.963	145.330	2726.48
86	7.08	162	146.45	2726.57	0.93	136.58	0.941	145.505	2726.49
87	7.17	162	146.62	2726.59	0.89	133.63	0.920	145.700	2726.51
88	7.25	162	146.82	2726.61	0.86	130.98	0.902	145.914	2726.53
89	7.33	161	147.02	2726.63	0.84	128.53	0.885	146.138	2726.55
90	7.42	161	147.25	2726.65	0.81	126.33	0.870	146.376	2726.57
91	7.50	161	147.49	2726.67	0.79	124.35	0.856	146.629	2726.59
92	7.58	161	147.74	2726.69	0.77	122.57	0.844	146.893	2726.61
93	7.67	160	148.00	2726.71	0.75	120.90	0.833	147.163	2726.64
94	7.75	160	148.26	2726.74	0.74	119.41	0.822	147.442	2726.66
95	7.83	160	148.54	2726.76	0.72	118.07	0.813	147.731	2726.69
96	7.92	160	148.83	2726.79	0.71	116.86	0.805	148.028	2726.72
97	8.00	160	149.13	2726.81	0.70	115.77	0.797	148.333	2726.74
98	8.08	159	149.43	2726.84	0.69	114.73	0.790	148.638	2726.77
99	8.17	159	149.73	2726.87	0.68	113.80	0.784	148.949	2726.80
100	8.25	159	150.04	2726.89	0.67	112.97	0.778	149.266	2726.83
101	8.33	159	150.36	2726.92	0.66	112.21	0.773	149.588	2726.85
102	8.42	159	150.68	2726.95	0.65	111.54	0.768	149.915	2726.88
103	8.50	158	151.00	2726.98	0.65	110.87	0.764	150.240	2726.91
104	8.58	158	151.33	2727.01	0.64	110.28	0.759	150.568	2726.94
105	8.67	158	151.66	2727.04	0.63	109.74	0.756	150.901	2726.97
106	8.75	158	151.99	2727.07	0.63	109.26	0.752	151.236	2727.00
107	8.83	158	152.32	2727.10	0.62	108.83	0.749	151.575	2727.03
108	8.92	157	152.66	2727.13	0.62	108.38	0.746	151.910	2727.06
109	9.00	157	152.99	2727.16	0.61	107.98	0.744	152.247	2727.09
110	9.08	157	153.33	2727.19	0.61	107.62	0.741	152.587	2727.12
111	9.17	157	153.67	2727.22	0.61	107.30	0.739	152.930	2727.15
112	9.25	156	154.00	2727.25	0.60	106.96	0.737	153.268	2727.18
113	9.33	156	154.34	2727.28	0.60	106.65	0.735	153.607	2727.21
114	9.42	156	154.68	2727.31	0.60	106.37	0.733	153.949	2727.24
115	9.50	156	155.02	2727.34	0.59	106.12	0.731	154.293	2727.27
116	9.58	156	155.37	2727.37	0.59	105.90	0.729	154.638	2727.30
117	9.67	155	155.71	2727.40	0.59	105.65	0.728	154.978	2727.33
118	9.75	155	156.05	2727.43	0.59	105.42	0.726	155.319	2727.36
119	9.83	155	156.39	2727.46	0.58	105.21	0.725	155.662	2727.39
120	9.92	155	156.73	2727.49	0.58	105.03	0.723	156.006	2727.42
121	10.00	155	157.07	2727.52	0.58	104.87	0.722	156.351	2727.45
122	10.08	154	157.41	2727.55	0.58	104.66	0.721	156.691	2727.48
123	10.17	154	157.75	2727.58	0.58	104.48	0.720	157.032	2727.51
124	10.25	154	158.09	2727.61	0.57	104.32	0.718	157.374	2727.55
125	10.33	154	158.43	2727.64	0.57	104.18	0.717	157.717	2727.58
126	10.42	154	158.78	2727.67	0.57	104.05	0.717	158.061	2727.61
127	10.50	153	159.12	2727.70	0.57	103.88	0.715	158.400	2727.64
128	10.58	153	159.45	2727.73	0.57	103.72	0.714	158.739	2727.67
129	10.67	153	159.79	2727.76	0.57	103.59	0.713	159.079	2727.70
130	10.75	153	160.13	2727.79	0.57	103.46	0.713	159.421	2727.73
131	10.83	152	160.47	2727.82	0.56	103.30	0.711	159.756	2727.76
132	10.92	152	160.80	2727.85	0.56	103.15	0.710	160.092	2727.79
133	11.00	152	161.14	2727.88	0.56	103.02	0.710	160.430	2727.82
134	11.08	152	161.48	2727.91	0.56	102.90	0.709	160.768	2727.85
135	11.17	151	161.81	2727.94	0.56	102.74	0.708	161.100	2727.88
136	11.25	151	162.14	2727.97	0.56	102.60	0.707	161.434	2727.91
137	11.33	151	162.47	2728.00	0.55	102.47	0.706	161.768	2727.94
138	11.42	151	162.81	2728.03	0.55	102.36	0.705	162.103	2727.97
139	11.50	151	163.14	2728.06	0.55	102.25	0.704	162.438	2728.00
140	11.58	150	163.47	2728.09	0.55	102.11	0.703	162.768	2728.02
141	11.67	150	163.80	2728.12	0.55	101.98	0.702	163.099	2728.05
142	11.75	150	164.13	2728.15	0.55	101.86	0.702	163.431	2728.08
143	11.83	150	164.46	2728.17	0.55	101.76	0.701	163.763	2728.11
144	11.92	150	164.80	2728.20	0.55	101.66	0.700	164.096	2728.14
145	12.00	149	165.12	2728.23	0.54	101.52	0.699	164.423	2728.17
146	12.08	149	165.45	2728.26	0.54	101.40	0.698	164.751	2728.20
147	12.17	149	165.78	2728.29	0.54	101.29	0.698	165.079	2728.23
148	12.25	149	166.11	2728.32	0.54	101.19	0.697	165.408	2728.26
149	12.33	148	166.43	2728.35	0.54	101.05	0.696	165.732	2728.29
150	12.42	148	166.75	2728.38	0.54	100.92	0.695	166.056	2728.32
151	12.50	148	167.08	2728.41	0.54	100.81	0.694	166.381	2728.35
152	12.58	148	167.40	2728.44	0.54	100.71	0.694	166.707	2728.37
153	12.67	148	167.73	2728.46	0.53	100.61	0.693	167.033	2728.40
154	12.75	147	168.05	2728.49	0.53	100.48	0.692	167.353	2728.43
155	12.83	147	168.37	2728.52	0.53	100.36	0.691	167.675	2728.46
156	12.92	147	168.69	2728.55	0.53	100.25	0.690	167.997	2728.49
157	13.00	147	169.01	2728.58	0.53	100.15	0.690	168.319	2728.52
158	13.08	146	169.32	2728.61	0.53	100.01	0.689	168.636	2728.55
159	13.17	146	169.64	2728.63	0.53	99.88	0.688	168.954	2728.57
160	13.25	146	169.96	2728.66	0.52	99.77	0.687	169.272	2728.60
161	13.33	146	170.28	2728.69	0.52	99.67	0.686	169.591	2728.63
162	13.42	146	170.60	2728.72	0.52	99.58	0.686	169.911	2728.66
163	13.50	145	170.91	2728.75	0.52	99.44	0.685	170.225	2728.69
164	13.58	145	171.22	2728.78	0.52	99.32	0.684	170.539	2728.71
165	13.67	145	171.54	2728.80	0.52	99.21	0.683	170.855	2728.74

INFLOW	CUM. VOL.	STAGE	INFLOW FROM NORTH BASIN	ADDITIONAL VOLUME	NEW VOLUME	NEW ELEVATION	Head	Flow	Δ VOL	NEW ELEVATION	COMBINED VOLUME
(cfs)	(AC-ft)	(ft)	(cfs)	(AC-ft)		(ft)		(cfs)	(AC-ft)	(ft)	(AC-ft)
12	160.36	2725.50	147.35	1.015	161.377	2725.57	25.57	46.61	0.321	2725.55	306.085
12	161.14	2725.55	143.44	0.988	162.127	2725.62	25.62	46.66	0.321	2725.60	306.976
12	161.89	2725.61	139.86	0.963	162.851	2725.67	25.67	46.70	0.322	2725.65	307.859
12	162.61	2725.65	136.58	0.941	163.553	2725.72	25.72	46.75	0.322	2725.70	308.736
12	163.31	2725.70	133.63	0.920	164.234	2725.76	25.76	46.79	0.322	2725.74	309.612
12	163.99	2725.75	130.98	0.902	164.896	2725.81	25.81	46.83	0.323	2725.79	310.488
12	164.66	2725.79	128.53	0.885	165.542	2725.85	25.85	46.87	0.323	2725.83	311.356
12	165.30	2725.84	126.33	0.870	166.172	2725.90	25.90	46.91	0.323	2725.87	312.225
12	165.93	2725.88	124.35	0.856	166.787	2725.94	25.94	46.95	0.323	2725.92	313.093
12	166.55	2725.92	122.57	0.844	167.391	2725.98	25.98	46.98	0.324	2725.96	313.961
12	167.15	2725.96	120.90	0.833	167.983	2726.02	26.02	47.02	0.324	2726.00	314.822
12	167.74	2726.00	119.41	0.822	168.564	2726.06	26.06	47.05	0.324	2726.04	315.682
12	168.32	2726.04	118.07	0.813	169.136	2726.10	26.10	47.09	0.324	2726.08	316.542
12	168.89	2726.08	116.86	0.805	169.699	2726.14	26.14	47.12	0.325	2726.11	317.402
12	169.46	2726.12	115.77	0.797	170.254	2726.17	26.17	47.16	0.325	2726.15	318.262
12	170.01	2726.16	114.73	0.790	170.802	2726.21	26.21	47 19	0.325	2726.19	319.115
12	170.56	2726.19	113.80	0.784	171.344	2726.25	26.25	47.22	0.325	2726.23	319.967
12	171.10	2726.23	112.97	0.778	171.879	2726.28	26.28	47.26	0.325	2726.26	320.820
12	171.64	2726.27	112.21	0.773	172.409	2726.32	26.32	47.29	0.326	2726.30	321.672
12	172.17	2726.30	111.54	0.768	172.934	2726.36	26.36	47.32	0.326	2726.33	322.523
12	172.69	2726.34	110.87	0.764	173.454	2726.39	26.39	47.35	0.326	2726.37	323.368
12	173.21	2726.37	110.28	0.759	173.970	2726.43	26.43	47.38	0.326	2726.40	324.212
12	173.73	2726.41	109.74	0.756	174.483	2726.46	26.46	47.41	0.327	2726.44	325.057
12	174.24	2726.44	109.26	0.752	174.991	2726.50	26.50	47.45	0.327	2726.47	325.901
12	174.75	2726.48	108.83	0.749	175.497	2726.53	26.53	47.48	0.327	2726.51	326.745
12	175.25	2726.51	108.38	0.746	175.999	2726.56	26.56	47.51	0.327	2726.54	327.581
12	175.75	2726.55	107.98	0.744	176.498	2726.60	26.60	47.54	0.327	2726.58	328.418
12	176.25	2726.58	107.62	0.741	176.994	2726.63	26.63	47.57	0.328	2726.61	329.254
12	176.75	2726.61	107.30	0.739	177.488	2726.66	26.66	47.60	0.328	2726.64	330.090
12	177.24	2726.65	106.96	0.737	177.980	2726.70	26.70	47.63	0.328	2726.68	330.919
12	177.73	2726.68	106.65	0.735	178.469	2726.73	26.73	47.66	0.328	2726.71	331.748
12	178.22	2726.71	106.37	0.733	178.956	2726.76	26.76	47.69	0.328	2726.74	332.577
12	178.71	2726.75	106.12	0.731	179.441	2726.80	26.80	47.72	0.329	2726.78	333.405
12	179.20	2726.78	105.90	0.729	179.924	2726.83	26.83	47.75	0.329	2726.81	334.233
12	179.68	2726.81	105.65	0.728	180.406	2726.86	26.86	47.77	0.329	2726.84	335.054
12	180.16	2726.85	105.42	0.726	180.885	2726.90	26.90	47.80	0.329	2726.87	335.875
12	180.64	2726.88	105.21	0.725	181.363	2726.93	26.93	47.83	0.329	2726.91	336.696
12	181.12	2726.91	105.03	0.723	181.840	2726.96	26.96	47.86	0.330	2726.94	337.516
12	181.59	2726.94	104.87	0.722	182.315	2726.99	26.99	47.89	0.330	2726.97	338.337
12	182.07	2726.98	104.66	0.721	182.789	2727.02	27.02	47.92	0.330	2727.00	339.150
12	182.54	2727.01	104.48	0.720	183.261	2727.06	27.06	47.95	0.330	2727.03	339.963
12	183.01	2727.04	104.32	0.718	183.732	2727.09	27.09	47.98	0.330	2727.07	340.776
12	183.48	2727.07	104.18	0.717	184.202	2727.12	27.12	48.00	0.331	2727.10	341.589
12	183.95	2727.10	104.05	0.717	184.670	2727.15	27.15	48.03	0.331	2727.13	342.401
12	184.42	2727.14	103.88	0.715	185.138	2727.18	27.18	48.06	0.331	2727.16	343.206
12	184.89	2727.17	103.72	0.714	185.604	2727.22	27.22	48.09	0.331	2727.19	344.012
12	185.36	2727.20	103.59	0.713	186.068	2727.25	27.25	48.11	0.331	2727.23	344.817
12	185.82	2727.23	103.46	0.713	186.532	2727.28	27.28	48.14	0.332	2727.26	345.621
12	186.28	2727.26	103.30	0.711	186.995	2727.31	27.31	48.17	0.332	2727.29	346.419
12	186.75	2727.29	103.15	0.710	187.456	2727.34	27.34	48.20	0.332	2727.32	347.217
12	187.21	2727.32	103.02	0.710	187.916	2727.37	27.37	48.23	0.332	2727.35	348.014
12	187.67	2727.36	102.90	0.709	188.376	2727.40	27.40	48.25	0.332	2727.38	348.811
12	188.13	2727.39	102.74	0.708	188.833	2727.44	27.44	48.28	0.333	2727.41	349.601
12	188.58	2727.42	102.60	0.707	189.290	2727.47	27.47	48.31	0.333	2727.44	350.391
12	189.04	2727.45	102.47	0.706	189.746	2727.50	27.50	48.33	0.333	2727.47	351.181
12	189.50	2727.48	102.36	0.705	190.201	2727.53	27.53	48.36	0.333	2727.51	351.970
12	189.95	2727.51	102.25	0.704	190.654	2727.56	27.56	48.39	0.333	2727.54	352.760
12	190.40	2727.54	102.11	0.703	191.107	2727.59	27.59	48.42	0.333	2727.57	353.542
12	190.86	2727.57	101.98	0.702	191.559	2727.62	27.62	48.44	0.334	2727.60	354.324
12	191.31	2727.60	101.86	0.702	192.009	2727.65	27.65	48.47	0.334	2727.63	355.106
12	191.76	2727.63	101.76	0.701	192.459	2727.68	27.68	48.50	0.334	2727.66	355.888
12	192.21	2727.66	101.66	0.700	192.907	2727.71	27.71	48.52	0.334	2727.69	356.669
12	192.66	2727.69	101.52	0.699	193.355	2727.74	27.74	48.55	0.334	2727.72	357.443
12	193.10	2727.73	101.40	0.698	193.802	2727.77	27.77	48.58	0.335	2727.75	358.218
12	193.55	2727.76	101.29	0.698	194.247	2727.80	27.80	48.60	0.335	2727.78	358.992
12	194.00	2727.79	101.19	0.697	194.692	2727.83	27.83	48.63	0.335	2727.81	359 766
12	194.44	2727.82	101.05	0.696	195.136	2727.86	27.86	48.66	0.335	2727.84	360.533
12	194.88	2727.85	100.92	0.695	195.579	2727.89	27.89	48.68	0.335	2727.87	361.299
12	195.33	2727.88	100.81	0.694	196.020	2727.92	27.92	48.71	0.335	2727.90	362.066
12	195.77	2727.91	100.71	0.694	196.461	2727.95	27.95	48.74	0.336	2727.93	362.832
12	196.21	2727.94	100.61	0.693	196.901	2727.98	27.98	48.76	0.336	2727.96	363.598
12	196.65	2727.97	100.48	0.692	197.340	2728.01	28.01	48.79	0.336	2727.99	364.357
12	197.09	2728.00	100.36	0.691	197.777	2728.04	28.04	48.81	0.336	2728.02	365.116
12	197.52	2728.03	100.25	0.690	198.214	2728.07	28.07	48.84	0.336	2728.05	365.875
12	197.96	2728.06	100.15	0.690	198.650	2728.10	28.10	48.86	0.337	2728.08	366.633
12	198.40	2728.08	100.01	0.689	199.085	2728.13	28.13	48.89	0.337	2728.11	367.385
12	198.83	2728.11	99.88	0.688	199.519	2728.16	28.16	48.92	0.337	2728.14	368.136
12	199.26	2728.14	99.77	0.687	199.952	2728.19	28.19	48.94	0.337	2728.17	368.887
12	199.70	2728.17	99.67	0.686	200.384	2728.22	28.22	48.97	0.337	2728.20	369.638
12	200.13	2728.20	99.58	0.686	200.815	2728.25	28.25	48.99	0.337	2728.23	370.389
12	200.56	2728.23	99.44	0.685	201.245	2728.28	28.28	49.02	0.338	2728.26	371.132
12	200.99	2728.26	99.32	0.684	201.674	2728.31	28.31	49.04	0.338	2728.28	371.876
12	201.42	2728.29	99.21	0.683	202.102	2728.34	28.34	49.07	0.338	2728.31	372.619

ORDINATE	Time	INFLOW	CUM. VOL.	STAGE	HEAD	OUTFLOW	Δ VOL	NEW VOLUME	NEW ELEVATION
	(hr)	(cfs)	(AC-ft)	(ft)	(ft)	(cfs)	(AC-ft)	(AC-ft)	(ft)
166	13.75	145	171.85	2728.83	0.52	99.11	0.683	171.171	2728.77
167	13.83	144	172.16	2728.86	0.52	98.97	0.682	171.481	2728.80
168	13.92	144	172.47	2728.89	0.51	98.84	0.681	171.792	2728.83
169	14.00	144	172.78	2728.91	0.51	98.73	0.680	172.104	2728.85
170	14.08	144	173.10	2728.94	0.51	98.63	0.679	172.416	2728.88
171	14.17	143	173.40	2728.97	0.51	98.48	0.678	172.723	2728.91
172	14.25	143	173.71	2729.00	0.51	98.35	0.677	173.030	2728.94
173	14.33	143	174.01	2729.02	0.51	98.24	0.677	173.338	2728.96
174	14.42	143	174.32	2729.05	0.51	98.13	0.676	173.647	2728.99
175	14.50	143	174.63	2729.08	0.51	98.04	0.675	173.957	2729.02
176	14.58	142	174.94	2729.11	0.50	97.90	0.674	174.261	2729.05
177	14.67	142	175.24	2729.13	0.50	97.78	0.673	174.565	2729.07
178	14.75	142	175.54	2729.16	0.50	97.67	0.673	174.871	2729.10
179	14.83	142	175.85	2729.19	0.50	97.57	0.672	175.177	2729.13
180	14.92	141	176.15	2729.21	0.50	97.42	0.671	175.477	2729.15
181	15.00	141	176.45	2729.24	0.50	97.30	0.670	175.778	2729.18
182	15.08	141	176.75	2729.27	0.50	97.18	0.669	176.080	2729.21
183	15.17	141	177.05	2729.29	0.50	97.08	0.669	176.382	2729.23
184	15.25	141	177.35	2729.32	0.49	96.99	0.668	176.685	2729.26
185	15.33	140	177.65	2729.35	0.49	96.85	0.667	176.982	2729.29
186	15.42	140	177.95	2729.37	0.49	96.73	0.666	177.280	2729.31
187	15.50	140	178.24	2729.40	0.49	96.62	0.665	177.579	2729.34
188	15.58	140	178.54	2729.43	0.49	96.52	0.665	177.879	2729.37
189	15.67	139	178.84	2729.45	0.49	96.38	0.664	178.172	2729.39
190	15.75	139	179.13	2729.48	0.49	96.25	0.663	178.467	2729.42
191	15.83	139	179.42	2729.50	0.49	96.14	0.662	178.762	2729.44
192	15.92	139	179.72	2729.53	0.48	96.03	0.661	179.058	2729.47
193	16.00	139	180.01	2729.56	0.48	95.94	0.661	179.354	2729.50
194	16.08	138	180.30	2729.58	0.48	95.81	0.660	179.645	2729.52
195	16.17	138	180.60	2729.61	0.48	95.68	0.659	179.936	2729.55
196	16.25	138	180.89	2729.63	0.48	95.57	0.658	180.228	2729.58
197	16.33	138	181.18	2729.66	0.48	95.48	0.658	180.521	2729.60
198	16.42	137	181.46	2729.69	0.48	95.33	0.657	180.808	2729.63
199	16.50	137	181.75	2729.71	0.48	95.21	0.656	181.096	2729.65
200	16.58	137	182.04	2729.74	0.47	95.09	0.655	181.385	2729.68
201	16.67	137	182.33	2729.76	0.47	94.99	0.654	181.674	2729.70
202	16.75	136	182.61	2729.79	0.47	94.84	0.653	181.957	2729.73
203	16.83	136	182.89	2729.81	0.47	94.71	0.652	182.242	2729.75
204	16.92	136	183.18	2729.84	0.47	94.59	0.651	182.527	2729.78
205	17.00	136	183.46	2729.86	0.47	94.49	0.651	182.813	2729.80
206	17.08	135	183.74	2729.89	0.47	94.34	0.650	183.093	2729.83
207	17.17	135	184.02	2729.91	0.46	94.21	0.649	183.374	2729.85
208	17.25	135	184.30	2729.94	0.46	94.09	0.648	183.656	2729.88
209	17.33	135	184.59	2729.96	0.46	93.98	0.647	183.938	2729.90
210	17.42	134	184.86	2729.99	0.46	93.83	0.646	184.215	2729.93
211	17.50	134	185.14	2730.01	0.46	93.57	0.644	184.493	2729.95
212	17.58	134	185.42	2730.03	0.45	93.21	0.642	184.774	2729.98
213	17.67	134	185.70	2730.05	0.45	92.88	0.640	185.057	2730.00
214	17.75	133	185.97	2730.08	0.45	92.53	0.637	185.336	2730.03
215	17.83	133	186.25	2730.10	0.44	92.22	0.635	185.617	2730.05
216	17.92	133	186.53	2730.12	0.44	91.93	0.633	185.900	2730.07
217	18.00	133	186.82	2730.14	0.44	91.67	0.631	186.184	2730.09
218	18.08	133	187.10	2730.16	0.43	91.44	0.630	186.471	2730.12
219	18.17	132	187.38	2730.19	0.43	91.18	0.628	186.752	2730.14
220	18.25	132	187.66	2730.21	0.43	90.95	0.626	187.034	2730.16
221	18.33	132	187.94	2730.23	0.43	90.73	0.625	187.319	2730.18
222	18.42	132	188.23	2730.25	0.42	90.54	0.624	187.604	2730.20
223	18.50	131	188.51	2730.28	0.42	90.32	0.622	187.884	2730.23
224	18.58	131	188.79	2730.30	0.42	90.12	0.621	188.166	2730.25
225	18.67	131	189.07	2730.32	0.42	89.94	0.619	188.449	2730.27
226	18.75	131	189.35	2730.34	0.42	89.77	0.618	188.733	2730.29
227	18.83	130	189.63	2730.36	0.41	89.58	0.617	189.011	2730.32
228	18.92	130	189.91	2730.39	0.41	89.40	0.616	189.291	2730.34
229	19.00	130	190.19	2730.41	0.43	90.75	0.625	189.561	2730.36
230	19.08	130	190.46	2730.43	0.44	92.20	0.635	189.821	2730.38
231	19.17	129	190.71	2730.45	0.46	93.48	0.644	190.066	2730.40
232	19.25	129	190.95	2730.47	0.47	94.64	0.652	190.303	2730.42
233	19.33	129	191.19	2730.49	0.48	95.70	0.659	190.532	2730.44
234	19.42	129	191.42	2730.51	0.49	96.67	0.666	190.755	2730.45
235	19.50	128	191.64	2730.52	0.50	97.50	0.671	190.965	2730.47
236	19.58	128	191.85	2730.54	0.51	98.26	0.677	191.169	2730.49
237	19.67	128	192.05	2730.56	0.52	98.95	0.681	191.369	2730.50
238	19.75	128	192.25	2730.57	0.52	99.58	0.686	191.565	2730.52
239	19.83	127	192.44	2730.59	0.53	100.10	0.689	191.750	2730.53
240	19.92	127	192.63	2730.60	0.53	100.58	0.693	191.932	2730.55
241	20.00	127	192.81	2730.61	0.54	101.02	0.696	192.111	2730.56
242	20.08	127	192.99	2730.63	0.54	101.42	0.698	192.288	2730.57
243	20.17	126	193.16	2730.64	0.55	101.73	0.701	192.455	2730.59
244	20.25	126	193.32	2730.66	0.55	102.02	0.703	192.620	2730.60
245	20.33	126	193.49	2730.67	0.55	102.28	0.704	192.783	2730.61
246	20.42	126	193.65	2730.68	0.55	102.52	0.706	192.945	2730.63
247	20.50	125	193.81	2730.69	0.56	102.68	0.707	193.099	2730.64
248	20.58	125	193.96	2730.71	0.56	102.84	0.708	193.251	2730.65

INFLOW	CUM. VOL.	STAGE	INFLOW FROM NORTH BASIN	ADDITIONAL VOLUME	NEW VOLUME	NEW ELEVATION	Head	Flow	Δ VOL	NEW ELEVATION	COMBINED VOLUME
(cfs)	(AC-ft)	(ft)	(cfs)	(AC-ft)		(ft)		(cfs)	(AC-ft)	(ft)	(AC-ft)
12	201.85	2728.32	99.11	0.683	202.530	2728.37	28.37	49.09	0.338	2728.34	373.362
12	202.27	2728.35	98.97	0.682	202.956	2728.39	28.39	49.12	0.338	2728.37	374.098
12	202.70	2728.38	98.84	0.681	203.381	2728.42	28.42	49.14	0.338	2728.40	374.834
12	203.13	2728.41	98.73	0.680	203.805	2728.45	28.45	49.17	0.339	2728.43	375 570
12	203.55	2728.43	98.63	0.679	204.228	2728.48	28.48	49.19	0.339	2728.46	376.306
12	203.97	2728.46	98.48	0.678	204.651	2728.51	28.51	49.22	0.339	2728.49	377.034
12	204.39	2728.49	98.35	0.677	205.072	2728.54	28.54	49.24	0.339	2728.52	377.763
12	204.82	2728.52	98.24	0.677	205.492	2728.57	28.57	49.27	0.339	2728.54	378.491
12	205.24	2728.55	98.13	0.676	205.911	2728.60	28.60	49.29	0.339	2728.57	379.219
12	205.65	2728.58	98.04	0.675	206.329	2728.62	28.62	49.31	0.340	2728.60	379.947
12	206.07	2728.61	97.90	0.674	206.747	2728.65	28.65	49.34	0.340	2728.63	380.668
12	206.49	2728.63	97.78	0.673	207.163	2728.68	28.68	49.36	0.340	2728.66	381.388
12	206.91	2728.66	97.67	0.673	207.578	2728.71	28.71	49.39	0.340	2728.69	382.109
12	207.32	2728.69	97.57	0.672	207.993	2728.74	28.74	49.41	0.340	2728.71	382.829
12	207.73	2728.72	97.42	0.671	208.406	2728.76	28.76	49.44	0.340	2728.74	383.542
12	208.15	2728.75	97.30	0.670	208.818	2728.79	28.79	49.46	0.341	2728.77	384.255
12	208.56	2728.77	97.18	0.669	209.229	2728 82	28.82	49.48	0.341	2728.80	384.968
12	208.97	2728.80	97.08	0.669	209.640	2728.85	28.85	49.51	0.341	2728.83	385.681
12	209.38	2728.83	96.99	0.668	210.049	2728.88	28.88	49.53	0.341	2728.85	386.393
12	209.79	2728.86	96.85	0.667	210.458	2728.90	28.90	49.56	0.341	2728.88	387.099
12	210.20	2728.89	96.73	0.666	210.866	2728.93	28.93	49.58	0.341	2728.91	387.804
12	210.61	2728.91	96.62	0.665	211.272	2728.96	28.96	49.60	0.342	2728.94	388.510
12	211.01	2728.94	96.52	0.665	211.678	2728.99	28.99	49.63	0.342	2728.96	389.215
12	211.42	2728.97	96.38	0.664	212.082	2729.01	29.01	49.65	0.342	2728.99	389.913
12	211.82	2729.00	96.25	0.663	212.486	2729.04	29.04	49.67	0.342	2729.02	390.610
12	212.23	2729.02	96.14	0.662	212.889	2729.07	29.07	49.70	0.342	2729.05	391.308
12	212.63	2729.05	96.03	0.661	213.290	2729.10	29.10	49.72	0.342	2729.07	392.006
12	213.03	2729.08	95.94	0.661	213.691	2729.12	29.12	49.74	0.343	2729.10	392.703
12	213.43	2729.11	95.81	0.660	214.091	2729.15	29.15	49.77	0.343	2729.13	393.393
12	213.83	2729.13	95.68	0.659	214.490	2729.18	29.18	49.79	0.343	2729.15	394.083
12	214.23	2729.16	95.57	0.658	214.888	2729.20	29.20	49.81	0.343	2729.18	394.773
12	214.63	2729.19	95.48	0.658	215.285	2729.23	29.23	49.84	0.343	2729.21	395.463
12	215.02	2729.21	95.33	0.657	215.681	2729.26	29.26	49.86	0.343	2729.24	396.146
12	215.42	2729.24	95.21	0.656	216.076	2729.29	29.29	49.88	0.344	2729.26	396.829
12	215.82	2729.27	95.09	0.655	216.470	2729.31	29.31	49.90	0.344	2729.29	397.511
12	216.21	2729.29	94.99	0.654	216.863	2729.34	29.34	49.93	0.344	2729.32	398.193
12	216.60	2729.32	94.84	0.653	217.255	2729.37	29.37	49.95	0.344	2729.34	398.869
12	216.99	2729.35	94.71	0.652	217.646	2729.39	29.39	49.97	0.344	2729.37	399.544
12	217.38	2729.37	94.59	0.651	218.036	2729.42	29.42	49.99	0.344	2729.40	400.219
12	217.77	2729.40	94.49	0.651	218.425	2729.44	29.44	50.02	0.344	2729.42	400.894
12	218.16	2729.43	94.34	0.650	218.813	2729.47	29.47	50.04	0.345	2729.45	401.561
12	218.55	2729.45	94.21	0.649	219.200	2729.50	29.50	50.06	0.345	2729.47	402.229
12	218.94	2729.48	94.09	0.648	219.586	2729.52	29.52	50.08	0.345	2729.50	402.896
12	219.32	2729.51	93.98	0.647	219.971	2729.55	29.55	50.11	0.345	2729.53	403.564
12	219.71	2729.53	93.83	0.646	220.354	2729.58	29.58	50.13	0.345	2729.55	404.224
12	220.09	2729.56	93.57	0.644	220.736	2729.60	29.60	50.15	0.345	2729.58	404.884
12	220.47	2729.58	93.21	0.642	221.116	2729.63	29.63	50.17	0.346	2729.60	405.544
12	220.85	2729.61	92.88	0.640	221.492	2729.65	29.65	50.19	0.346	2729.63	406.204
12	221.23	2729.64	92.53	0.637	221.867	2729.68	29.68	50.22	0.346	2729.66	406.857
12	221.60	2729.66	92.22	0.635	222.238	2729.70	29.70	50.24	0.346	2729.68	407.509
12	221.98	2729.69	91.93	0.633	222.608	2729.73	29.73	50.26	0.346	2729.71	408.162
12	222.34	2729.71	91.67	0.631	222.976	2729.75	29.75	50.28	0.346	2729.73	408.814
12	222.71	2729.74	91.44	0.630	223.342	2729.78	29.78	50.30	0.346	2729.76	409.466
12	223.08	2729.76	91.18	0.628	223.706	2729.80	29.80	50.32	0.347	2729.78	410.112
12	223.44	2729.79	90.95	0.626	224.069	2729.83	29.83	50.34	0.347	2729.80	410.757
12	223.80	2729.81	90.73	0.625	224.430	2729.85	29.85	50.36	0.347	2729.83	411.401
12	224.17	2729.83	90.54	0.624	224.789	2729.88	29.88	50.38	0.347	2729.85	412.046
12	224.52	2729.86	90.32	0.622	225.147	2729.90	29.90	50.40	0.347	2729.88	412.684
12	224.88	2729.88	90.12	0.621	225.503	2729.93	29.93	50.42	0.347	2729.90	413.322
12	225.24	2729.91	89.94	0.619	225.858	2729.95	29.95	50.45	0.347	2729.93	413.959
12	225.59	2729.93	89.77	0.618	226.211	2729.97	29.97	50.47	0.348	2729.95	414.596
12	225.95	2729.96	89.58	0.617	226.563	2730.00	30.00	50.49	0.348	2729.97	415.226
12	226.30	2729.98	89.40	0.616	226.914	2730.02	30.02	89.79	0.618	2729.98	415.586
12	226.38	2729.98	90.75	0.625	227.003	2730.02	30.02	89.79	0.618	2729.99	415.946
12	226.47	2729.99	92.20	0.635	227.102	2730.03	30.03	89.80	0.618	2729.99	416.305
12	226.57	2730.00	93.48	0.644	227.210	2730.04	30.04	89.81	0.619	2730.00	416.658
12	226.67	2730.00	94.64	0.652	227.326	2730.04	30.04	89.82	0.619	2730.01	417.010
12	226.79	2730.01	95.70	0.659	227.449	2730.05	30.05	89.83	0.619	2730.01	417.362
12	226.91	2730.02	96.67	0.666	227.579	2730.06	30.06	89.85	0.619	2730.02	417.715
12	227.04	2730.03	97.50	0.671	227.714	2730.07	30.07	89.86	0.619	2730.03	418.060
12	227.18	2730.04	98.26	0.677	227.855	2730.08	30.08	89.87	0.619	2730.04	418.405
12	227.32	2730.04	98.95	0.681	228.000	2730.09	30.09	89.88	0.619	2730.05	418.750
12	227.46	2730.05	99.58	0.686	228.149	2730.10	30.10	89.90	0.619	2730.06	419.096
12	227.61	2730.06	100.10	0.689	228.302	2730.10	30.10	89.91	0.619	2730.07	419.434
12	227.77	2730.07	100.58	0.693	228.459	2730.11	30.11	89.93	0.619	2730.08	419.772
12	227.92	2730.08	101.02	0.696	228.618	2730.12	30.12	89.94	0.619	2730.09	420.109
12	228.08	2730.09	101.42	0.698	228.779	2730.13	30.13	89.96	0.620	2730.10	420.447
12	228.24	2730.10	101.73	0.701	228.943	2730.14	30.14	89.97	0.620	2730.11	420.778
12	228.41	2730.11	102.02	0.703	229.109	2730.15	30.15	89.99	0.620	2730.12	421.109
12	228.57	2730.12	102.28	0.704	229.276	2730.16	30.16	90.00	0.620	2730.13	421.439
12	228.74	2730.13	102.52	0.706	229.445	2730.18	30.18	90.02	0.620	2730.14	421.770
12	228.91	2730.14	102.68	0.707	229.615	2730.19	30.19	90.03	0.620	2730.15	422.093
12	229.08	2730.15	102.84	0.708	229.785	2730.20	30.20	90.05	0.620	2730.16	422.417

ORDINATE	Time	INFLOW	CUM. VOL	STAGE	HEAD	OUTFLOW	Δ VOL	NEW VOLUME	NEW ELEVATION	INFLOW	CUM. VOL	STAGE	INFLOW FROM NORTH BASIN	ADDITIONAL VOLUME	NEW VOLUME	NEW ELEVATION	Head	Flow	Δ VOL	NEW ELEVATION	COMBINED VOLUME
	(hr)	(cfs)	(AC-ft)	(ft)	(ft)	(cfs)	(AC-ft)	(AC-ft)	(ft)	(cfs)	(AC-ft)	(ft)	(cfs)	(AC-ft)		(ft)		(cfs)	(AC-ft)	(ft)	(AC-ft)
249	20.67	125	194.11	2730.72	0.56	102.98	0.709	193.403	2730.66	12	229.25	2730.16	102.98	0.709	229.957	2730.21	30.21	90.06	0.620	2730.17	422.740
250	20.75	125	194.26	2730.73	0.56	103.11	0.710	193.554	2730.67	12	229.42	2730.17	103.11	0.710	230.130	2730.22	30.22	90.08	0.620	2730.18	423.063
251	20.83	124	194.41	2730.74	0.56	103.18	0.711	193.697	2730.68	12	229.59	2730.18	103.18	0.711	230.302	2730.23	30.23	90.09	0.620	2730.19	423.379
252	20.92	124	194.55	2730.75	0.56	103.24	0.711	193.840	2730.70	12	229.75	2730.19	103.24	0.711	230.476	2730.24	30.24	90.11	0.621	2730.20	423.695
253	21.00	124	194.69	2730.76	0.56	103.30	0.711	193.983	2730.71	12	229.94	2730.21	103.30	0.711	230.649	2730.25	30.25	90.13	0.621	2730.21	424.011
254	21.08	124	194.84	2730.77	0.56	103.35	0.712	194.125	2730.72	12	230.11	2730.22	103.35	0.712	230.823	2730.26	30.26	90.14	0.621	2730.22	424.327
255	21.17	123	194.97	2730.79	0.56	103.35	0.712	194.260	2730.73	12	230.28	2730.23	103.35	0.712	230.996	2730.27	30.27	90.16	0.621	2730.23	424.636
256	21.25	123	195.11	2730.80	0.56	103.35	0.712	194.396	2730.74	12	230.46	2730.24	103.35	0.712	231.170	2730.28	30.28	90.17	0.621	2730.24	424.944
257	21.33	123	195.24	2730.81	0.56	103.35	0.712	194.531	2730.75	12	230.63	2730.25	103.35	0.712	231.343	2730.29	30.29	90.19	0.621	2730.25	425.253
258	21.42	123	195.38	2730.82	0.56	103.35	0.712	194.666	2730.76	12	230.80	2730.26	103.35	0.712	231.517	2730.30	30.30	90.21	0.621	2730.26	425.562
259	21.50	123	195.51	2730.83	0.56	103.35	0.712	194.802	2730.77	12	230.98	2730.27	103.35	0.712	231.690	2730.31	30.31	90.22	0.621	2730.27	425.870
260	21.58	122	195.64	2730.84	0.56	103.30	0.711	194.930	2730.78	12	231.15	2730.28	103.30	0.711	231.862	2730.32	30.32	90.24	0.621	2730.29	426.171
261	21.67	122	195.77	2730.85	0.56	103.26	0.711	195.059	2730.79	12	231.32	2730.29	103.26	0.711	232.035	2730.33	30.33	90.25	0.622	2730.30	426.473
262	21.75	122	195.90	2730.86	0.56	103.22	0.711	195.189	2730.80	12	231.50	2730.30	103.22	0.711	232.207	2730.34	30.34	90.27	0.622	2730.31	426.774
263	21.83	122	196.03	2730.87	0.56	103.19	0.711	195.318	2730.81	12	231.67	2730.31	103.19	0.711	232.378	2730.36	30.36	90.28	0.622	2730.32	427.075
264	21.92	121	196.15	2730.88	0.56	103.11	0.710	195.442	2730.82	12	231.84	2730.32	103.11	0.710	232.549	2730.37	30.37	90.30	0.622	2730.33	427.369
265	22.00	121	196.27	2730.89	0.56	103.03	0.710	195.565	2730.83	12	232.01	2730.33	103.03	0.710	232.720	2730.38	30.38	90.32	0.622	2730.34	427.663
266	22.08	121	196.40	2730.90	0.56	102.97	0.709	195.689	2730.84	12	232.18	2730.34	102.97	0.709	232.889	2730.39	30.39	90.33	0.622	2730.35	427.957
267	22.17	121	196.52	2730.91	0.56	102.91	0.709	195.814	2730.85	12	232.35	2730.35	102.91	0.709	233.059	2730.40	30.40	90.35	0.622	2730.36	428.251
268	22.25	120	196.64	2730.92	0.56	102.80	0.708	195.932	2730.86	12	232.52	2730.36	102.80	0.708	233.227	2730.41	30.41	90.36	0.622	2730.37	428.537
269	22.33	120	196.76	2730.93	0.56	102.71	0.707	196.052	2730.87	12	232.69	2730.37	102.71	0.707	233.395	2730.42	30.42	90.38	0.622	2730.38	428.824
270	22.42	120	196.88	2730.94	0.56	102.63	0.707	196.171	2730.88	12	232.86	2730.38	102.63	0.707	233.562	2730.43	30.43	90.39	0.623	2730.39	429.111
271	22.50	120	197.00	2730.95	0.56	102.55	0.706	196.291	2730.89	12	233.02	2730.40	102.55	0.706	233.728	2730.44	30.44	90.41	0.623	2730.40	429.397
272	22.58	119	197.11	2730.95	0.55	102.43	0.705	196.405	2730.90	12	233.19	2730.41	102.43	0.705	233.894	2730.45	30.45	90.42	0.623	2730.41	429.676
273	22.67	119	197.23	2730.96	0.55	102.32	0.705	196.520	2730.91	12	233.35	2730.42	102.32	0.705	234.058	2730.46	30.46	90.44	0.623	2730.42	429.956
274	22.75	119	197.34	2730.97	0.55	102.22	0.704	196.636	2730.92	12	233.52	2730.43	102.22	0.704	234.222	2730.47	30.47	90.45	0.623	2730.43	430.235
275	22.83	118	197.45	2730.98	0.55	102.09	0.703	196.745	2730.93	12	233.68	2730.44	102.09	0.703	234.385	2730.48	30.48	90.47	0.623	2730.44	430.507
276	22.92	118	197.56	2730.99	0.55	101.96	0.702	196.856	2730.93	12	233.84	2730.45	101.96	0.702	234.547	2730.49	30.49	90.48	0.623	2730.45	430.779
277	23.00	118	197.67	2731.00	0.55	101.85	0.701	196.967	2730.94	12	234.01	2730.46	101.85	0.701	234.708	2730.50	30.50	90.50	0.623	2730.46	431.052
278	23.08	118	197.78	2731.01	0.55	101.74	0.701	197.079	2730.95	12	234.17	2730.47	101.74	0.701	234.868	2730.51	30.51	90.51	0.623	2730.47	431.324
279	23.17	117	197.88	2731.02	0.54	101.60	0.700	197.185	2730.96	12	234.33	2730.48	101.60	0.700	235.027	2730.52	30.52	90.53	0.623	2730.48	431.588
280	23.25	117	197.99	2731.02	0.54	101.47	0.699	197.292	2730.97	12	234.49	2730.49	101.47	0.699	235.185	2730.53	30.53	90.54	0.624	2730.49	431.853
281	23.33	117	198.10	2731.03	0.54	101.35	0.698	197.400	2730.98	12	234.64	2730.49	101.35	0.698	235.342	2730.54	30.54	90.55	0.624	2730.50	432.118
282	23.42	117	198.21	2731.04	0.54	101.25	0.697	197.508	2730.99	12	234.80	2730.50	101.25	0.697	235.498	2730.55	30.55	90.57	0.624	2730.51	432.383
283	23.50	116	198.31	2731.05	0.54	101.10	0.696	197.611	2730.99	12	234.96	2730.51	101.10	0.696	235.653	2730.56	30.56	90.58	0.624	2730.52	432.640
284	23.58	116	198.41	2731.06	0.54	100.97	0.695	197.715	2731.00	12	235.11	2730.52	100.97	0.695	235.807	2730.57	30.57	90.60	0.624	2730.53	432.898
285	23.67	116	198.51	2731.06	0.54	100.84	0.695	197.819	2731.01	12	235.27	2730.53	100.84	0.695	235.961	2730.58	30.58	90.61	0.624	2730.54	433.156
286	23.75	116	198.62	2731.07	0.54	100.74	0.694	197.924	2731.02	12	235.42	2730.54	100.74	0.694	236.113	2730.59	30.59	90.63	0.624	2730.55	433.413
287	23.83	115	198.72	2731.08	0.53	100.59	0.693	198.023	2731.03	12	235.57	2730.55	100.59	0.693	236.264	2730.59	30.59	90.64	0.624	2730.56	433.663
288	23.92	115	198.82	2731.09	0.53	100.45	0.692	198.124	2731.03	12	235.72	2730.56	100.45	0.692	236.415	2730.60	30.60	90.65	0.624	2730.57	433.914
289	24.00	115	198.92	2731.10	0.53	100.33	0.691	198.225	2731.04	12	235.87	2730.57	100.33	0.691	236.564	2730.61	30.61	90.67	0.624	2730.57	434.164
290	24.08	115	199.02	2731.10	0.53	100.22	0.690	198.326	2731.05	12	236.02	2730.58	100.22	0.690	236.712	2730.62	30.62	90.68	0.625	2730.58	434.414
291	24.17	114	199.11	2731.11	0.53	100.07	0.689	198.422	2731.06	12	236.17	2730.59	100.07	0.689	236.859	2730.63	30.63	90.69	0.625	2730.59	434.657
292	24.25	114	199.21	2731.12	0.53	99.93	0.688	198.519	2731.07	12	236.32	2730.60	99.93	0.688	237.006	2730.64	30.64	90.71	0.625	2730.60	434.900
293	24.33	114	199.30	2731.13	0.53	99.80	0.687	198.617	2731.07	12	236.46	2730.61	99.80	0.687	237.151	2730.65	30.65	90.72	0.625	2730.61	435.143
294	24.42	114	199.40	2731.13	0.52	99.69	0.687	198.716	2731.08	12	236.61	2730.62	99.69	0.687	237.295	2730.66	30.66	90.73	0.625	2730.62	435.386
295	24.50	113	199.49	2731.14	0.52	99.54	0.686	198.808	2731.09	12	236.75	2730.62	99.54	0.686	237.439	2730.67	30.67	90.75	0.625	2730.63	435.622
296	24.58	113	199.59	2731.15	0.52	99.40	0.685	198.902	2731.10	12	236.90	2730.63	99.40	0.685	237.581	2730.68	30.68	90.76	0.625	2730.64	435.858
297	24.67	113	199.68	2731.16	0.52	99.28	0.684	198.996	2731.10	12	237.04	2730.64	99.28	0.684	237.722	2730.68	30.68	90.77	0.625	2730.65	436.094
298	24.75	113	199.77	2731.16	0.52	99.16	0.683	199.092	2731.11	12	237.18	2730.65	99.16	0.683	237.863	2730.69	30.69	90.78	0.625	2730.65	436.329
299	24.83	112	199.86	2731.17	0.52	99.01	0.682	199.181	2731.12	12	237.32	2730.66	99.01	0.682	238.002	2730.70	30.70	90.80	0.625	2730.66	436.558
300	24.92	112	199.95	2731.18	0.52	98.87	0.681	199.272	2731.12	12	237.46	2730.67	98.87	0.681	238.140	2730.71	30.71	90.81	0.625	2730.67	436.787
301	25.00	112	200.04	2731.19	0.51	98.75	0.680	199.363	2731.13	12	237.60	2730.68	98.75	0.680	238.278	2730.72	30.72	90.82	0.625	2730.68	437.015
302	25.08	112	200.13	2731.19	0.51	98.63	0.679	199.455	2731.14	12	237.73	2730.69	98.63	0.679	238.414	2730.73	30.73	90.84	0.626	2730.69	437.243
303	25.17	111	200.22	2731.20	0.51	98.48	0.678	199.541	2731.15	12	237.87	2730.69	98.48	0.678	238.549	2730.74	30.74	90.85	0.626	2730.70	437.465
304	25.25	111	200.31	2731.21	0.51	98.34	0.677	199.628	2731.15	12	238.01	2730.70	98.34	0.677	238.684	2730.74	30.74	90.86	0.626	2730.70	437.686
305	25.33	111	200.39	2731.21	0.51	98.21	0.676	199.716	2731.16	12	238.14	2730.71	98.21	0.676	238.817	2730.75	30.75	90.87	0.626	2730.71	437.907
306	25.42	111	200.48	2731.22	0.51	98.10	0.676	199.805	2731.17	12	238.27	2730.72	98.10	0.676	238.949	2730.76	30.76	90.88	0.626	2730.72	438.129
307	25.50	110	200.56	2731.23	0.51	97.94	0.675	199.888	2731.17	12	238.41	2730.73	97.94	0.675	239.080	2730.77	30.77	90.90	0.626	2730.73	438.343
308	25.58	110	200.65	2731.23	0.50	97.80	0.674	199.972	2731.18	12	238.54	2730.73	97.80	0.674	239.211	2730.78	30.78	90.91	0.626	2730.74	438.557
309	25.67	110	200.73	2731.24	0.50	97.68	0.673	200.057	2731.19	12	238.67	2730.74	97.68	0.673	239.340	2730.78	30.78	90.92	0.626	2730.75	438.771
310	25.75	110	200.81	2731.25	0.50	97.56	0.672	200.143	2731.19	12	238.80	2730.75	97.56	0.672	239.468	2730.79	30.79	90.93	0.626	2730.75	438.985
311	25.83	109	200.89	2731.25	0.50	97.41	0.671	200.223	2731.20	12	238.92	2730.76	97.41	0.671	239.596	2730.80	30.80	90.94	0.626	2730.76	439.192
312	25.92	109	200.97	2731.25	0.50	97.27	0.670	200.304	2731.21	12	239.05	2730.77	97.27	0.670	239.722	2730.81	30.81	90.95	0.626	2730.77	439.399
313	26.00	109	201.05	2731.27	0.50	97.14	0.669	200.385	2731.21	12	239.18	2730.77	97.14	0.669	239.847	2730.81	30.81	90.97	0.626	2730.78	439.606
314	26.08	108	201.13	2731.27	0.49	96.97	0.668	200.461	2731.22	12	239.30	2730.78	96.97	0.668	239.971	2730.82	30.82	90.98	0.627	2730.78	439.806
315	26.17	108	201.21	2731.28	0.49	96.82	0.667	200.538	2731.22	12	239.43	2730.79	96.82	0.667	240.094	2730.83	30.83	90.99	0.627	2730.79	440.005
316	26.25	108	201.28	2731.28	0.49	96.68	0.666	200.616	2731.23	12	239.55	2730.80	96.68	0.666	240.216	2730.84	30.84	91.00	0.627	2730.80	440.205
317	26.33	108	201.36	2731.29	0.49	96.56	0.665	200.695	2731.24	12	239.67	2730.80	96.56	0.665	240.337	2730.85	30.85	91.01	0.627	2730.81	440.405
318	26.42	107	201.43	2731.29	0.49	96.40	0.664	200.768	2731.24	12	239.79	2730.81	96.40	0.664	240.456	2730.85	30.85	91.02	0.627	2730.81	440.598
319	26.50	107	201.50	2731.30	0.49	96.25	0.663	200.842	2731.25	12	239.91	2730.82	96.25	0.663	240.575	2730.86	30.86	91.03	0.627	2730.82	440.790
320	26.58	107	201.58	2731.31	0.49	96.12	0.662	200.917	2731.25	12	240.03	2730.83	96.12	0.662	240.693	2730.87	30.87	91.04	0.627	2730.83	440.983
321	26.67	107	201.65	2731.31	0.48	95.99	0.661	200.993	2731.26	12	240.15	2730.83	95.99	0.661	240.810	2730.87	30.87	91.05	0.627	2730.84	441.175
322	26.75	106	201.72	2731.32	0.48	95.83	0.660	201.063	2731.27	12	240.27	2730.84	95.83	0.660	240.925	2730.88	30.88	91.06	0.627	2730.84	441.361
323	26.83	106	201.79	2731.32	0.48	95.69	0.659	201.134	2731.27	12	240.38	2730.85	95.69	0.659	241.040	2730.89	30.89	91.07	0.627	2730.85	441.546
324	26.92	106	201.86	2731.33	0.48	95.56	0.658	201.206	2731.28	12	240.49	2730.85	95.56	0.658	241.153	2730.90	30.90	91.09	0.627	2730.86	441.731
325	27.00	105	201.93	2731.33	0.48	95.39	0.657	201.272	2731.28	12	240.61	2730.86	95.39	0.657	241.265	2730.90	30.90	91.10	0.627	2730.86	441.910
326	27.08	105	202.00	2731.34	0.48	95.23	0.656	201.339	2731.29	12	240.72	2730.87	95.23	0.656	241.376	2730.91	30.91	91.11	0.627	2730.87	442.088
327	27.17	105	202.06	2731.34	0.47	95.09	0.655	201.407	2731.29	12	240.83	2730.88	95.09	0.655	241.487	2730.92	30.92	91.12	0.628	2730.88	442.266
328	27.25	105	202.13	2731.35	0.47	94.96	0.654	201.477	2731.30	12	240.94	2730.88	94.96	0.654	241.596	2730.92	30.92	91.13	0.628	2730.88	442.445
329	27.33	104	202.19	2731.35	0.47	94.80	0.653	201.540	2731.30	12	241.05	2730.89	94.80	0.653	241.704	2730.93	30.93	91.14	0.628	2730.89	442.616
330	27.42	104	202.26	2731.36	0.47	94.65	0.652	201.604	2731.31	12	241.16	2730.90	94.65	0.652	241.810	2730.94	30.94	91.15	0.628	2730.90	442.787
331	27.50	104	202.32	2731.36	0.47	94.51	0.651	201.670	2731.31	12	241.27	2730.90	94.51	0.651	241.916	2730.94	30.94	91.15	0.628	2730.90	442.958

ORDINATE	Time (hr)	INFLOW (cfs)	CUM. VOL. (AC-ft)	STAGE (ft)	HEAD (ft)	OUTFLOW (cfs)	Δ VOL (AC-ft)	NEW VOLUME (AC-ft)	NEW ELEVATION (ft)
332	27.58	104	202.39	2731.37	0.47	94.39	0.650	201.736	2731.32
333	27.67	103	202.45	2731.37	0.46	94.22	0.649	201.796	2731.32
334	27.75	103	202.51	2731.38	0.46	94.07	0.648	201.858	2731.33
335	27.83	103	202.57	2731.38	0.46	93.94	0.647	201.920	2731.33
336	27.92	102	202.62	2731.39	0.46	93.77	0.646	201.977	2731.34
337	28.00	102	202.68	2731.39	0.46	93.61	0.645	202.035	2731.34
338	28.08	102	202.74	2731.40	0.46	93.47	0.644	202.093	2731.35
339	28.17	102	202.80	2731.40	0.46	93.34	0.643	202.153	2731.35
340	28.25	101	202.85	2731.41	0.45	93.17	0.642	202.207	2731.36
341	28.33	101	202.90	2731.41	0.45	93.02	0.641	202.262	2731.36
342	28.42	101	202.96	2731.42	0.45	92.88	0.640	202.318	2731.36
343	28.50	101	203.01	2731.42	0.45	92.76	0.639	202.375	2731.37
344	28.58	100	203.06	2731.42	0.45	92.59	0.638	202.426	2731.37
345	28.67	100	203.11	2731.43	0.45	92.44	0.637	202.478	2731.38
346	28.75	100	203.17	2731.43	0.44	92.31	0.636	202.531	2731.38
347	28.83	100	203.22	2731.44	0.44	92.18	0.635	202.584	2731.39
348	28.92	99	203.27	2731.44	0.44	92.02	0.634	202.633	2731.39
349	29.00	99	203.31	2731.44	0.44	91.88	0.633	202.682	2731.39
350	29.08	99	203.36	2731.45	0.44	91.74	0.632	202.732	2731.40
351	29.17	98	203.41	2731.45	0.44	91.57	0.631	202.776	2731.40
352	29.25	98	203.45	2731.45	0.43	91.41	0.630	202.821	2731.40
353	29.33	98	203.50	2731.46	0.43	91.27	0.629	202.868	2731.41
354	29.42	98	203.54	2731.46	0.43	91.14	0.628	202.915	2731.41
355	29.50	97	203.58	2731.46	0.43	90.98	0.627	202.956	2731.42
356	29.58	97	203.62	2731.47	0.43	90.82	0.626	202.999	2731.42
357	29.67	97	203.67	2731.47	0.43	90.73	0.625	203.042	2731.42
358	29.75	96	203.70	2731.47	0.43	90.59	0.624	203.079	2731.42
359	29.83	96	203.74	2731.48	0.42	90.46	0.623	203.117	2731.43
360	29.92	96	203.78	2731.48	0.42	90.34	0.622	203.156	2731.43
361	30.00	95	203.81	2731.48	0.42	90.19	0.621	203.190	2731.43
362	30.08	95	203.84	2731.49	0.42	90.05	0.620	203.224	2731.44
363	30.17	95	203.88	2731.49	0.42	89.92	0.619	203.259	2731.44
364	30.25	95	203.91	2731.49	0.42	89.80	0.618	203.295	2731.44
365	30.33	94	203.94	2731.49	0.41	89.64	0.617	203.325	2731.44
366	30.42	94	203.97	2731.50	0.41	89.50	0.616	203.356	2731.45
367	30.50	94	204.00	2731.50	0.41	89.37	0.616	203.387	2731.45
368	30.58	93	204.03	2731.50	0.41	89.21	0.614	203.414	2731.45
369	30.67	93	204.05	2731.50	0.41	89.05	0.613	203.441	2731.45
370	30.75	93	204.08	2731.50	0.41	88.91	0.612	203.469	2731.46
371	30.83	93	204.11	2731.51	0.41	88.79	0.611	203.498	2731.46
372	30.92	92	204.13	2731.51	0.40	88.62	0.610	203.521	2731.46
373	31.00	92	204.15	2731.51	0.40	88.47	0.609	203.545	2731.46
374	31.08	92	204.18	2731.51	0.40	88.34	0.608	203.571	2731.46
375	31.17	91	204.20	2731.51	0.40	88.16	0.607	203.590	2731.47
376	31.25	91	204.22	2731.51	0.40	88.01	0.606	203.611	2731.47
377	31.33	91	204.24	2731.52	0.40	87.86	0.605	203.632	2731.47
378	31.42	91	204.26	2731.52	0.39	87.73	0.604	203.655	2731.47
379	31.50	90	204.27	2731.52	0.39	87.56	0.603	203.672	2731.47
380	31.58	90	204.29	2731.52	0.39	87.41	0.602	203.690	2731.47
381	31.67	90	204.31	2731.52	0.39	87.27	0.601	203.708	2731.47
382	31.75	89	204.32	2731.52	0.39	87.09	0.600	203.721	2731.48
383	31.83	89	204.33	2731.52	0.39	86.93	0.599	203.736	2731.48
384	31.92	89	204.35	2731.52	0.38	86.78	0.598	203.751	2731.48
385	32.00	89	204.36	2731.53	0.38	86.65	0.597	203.767	2731.48
386	32.08	88	204.37	2731.53	0.38	86.48	0.596	203.778	2731.48
387	32.17	88	204.38	2731.53	0.38	86.32	0.594	203.789	2731.48
388	32.25	88	204.40	2731.53	0.38	86.18	0.594	203.802	2731.48
389	32.33	87	204.40	2731.53	0.38	86.00	0.592	203.809	2731.48
390	32.42	87	204.41	2731.53	0.37	85.84	0.591	203.817	2731.48
391	32.50	87	204.42	2731.53	0.37	85.69	0.590	203.826	2731.48
392	32.58	87	204.42	2731.53	0.37	85.55	0.589	203.836	2731.48
393	32.67	86	204.43	2731.53	0.37	85.38	0.588	203.840	2731.48
394	32.75	86	204.43	2731.53	0.37	85.22	0.587	203.845	2731.49
395	32.83	85	204.43	2731.53	0.36	85.03	0.586	203.845	2731.49
396	32.92	85	204.43	2731.53	0.36	84.85	0.584	203.846	2731.49
397	33.00	85	204.43	2731.53	0.36	84.69	0.583	203.848	2731.49
398	33.08	84	204.43	2731.53	0.36	84.50	0.582	203.845	2731.49
399	33.17	84	204.42	2731.53	0.36	84.32	0.581	203.843	2731.48
400	33.25	83	204.41	2731.53	0.35	84.10	0.579	203.835	2731.48
401	33.33	83	204.41	2731.53	0.35	83.91	0.578	203.829	2731.48
402	33.42	83	204.40	2731.53	0.35	83.73	0.577	203.824	2731.48
403	33.50	82	204.39	2731.53	0.35	83.52	0.575	203.813	2731.48
404	33.58	82	204.38	2731.53	0.35	83.33	0.574	203.804	2731.48
405	33.67	81	204.36	2731.53	0.34	83.11	0.572	203.790	2731.48
406	33.75	81	204.35	2731.52	0.34	82.90	0.571	203.777	2731.48
407	33.83	81	204.33	2731.52	0.34	82.72	0.570	203.765	2731.48
408	33.92	80	204.32	2731.52	0.34	82.50	0.568	203.747	2731.48
409	34.00	80	204.30	2731.52	0.33	82.30	0.567	203.732	2731.48
410	34.08	80	204.28	2731.52	0.33	82.12	0.566	203.717	2731.48
411	34.17	79	204.26	2731.52	0.33	81.90	0.564	203.697	2731.47
412	34.25	79	204.24	2731.52	0.33	81.70	0.563	203.678	2731.47
413	34.33	79	204.22	2731.51	0.33	81.52	0.561	203.661	2731.47
414	34.42	78	204.20	2731.51	0.32	81.31	0.560	203.638	2731.47

INFLOW (cfs)	CUM. VOL. (AC-ft)	STAGE (ft)	INFLOW FROM NORTH BASIN (cfs)	ADDITIONAL VOLUME (AC-ft)	NEW VOLUME	NEW ELEVATION (ft)	Head	Flow (cfs)	Δ VOL (AC-ft)	NEW ELEVATION (ft)	COMBINED VOLUME (AC-ft)
12	241.37	2730.91	94.39	0.650	242.021	2730.95	30.95	91.16	0.628	2730.91	443.129
12	241.48	2730.92	94.22	0.649	242.125	2730.96	30.96	91.17	0.628	2730.92	443.293
12	241.58	2730.92	94.07	0.648	242.228	2730.96	30.96	91.18	0.628	2730.92	443.457
12	241.68	2730.93	93.94	0.647	242.329	2730.97	30.97	91.19	0.628	2730.93	443.621
12	241.78	2730.93	93.77	0.646	242.430	2730.97	30.97	91.20	0.628	2730.94	443.778
12	241.88	2730.94	93.61	0.645	242.529	2730.98	30.98	91.21	0.628	2730.94	443.935
12	241.98	2730.95	93.47	0.644	242.627	2730.99	30.99	91.22	0.628	2730.95	444.092
12	242.08	2730.95	93.34	0.643	242.724	2730.99	30.99	91.23	0.628	2730.95	444.249
12	242.18	2730.96	93.17	0.642	242.820	2731.00	31.00	91.24	0.628	2730.96	444.399
12	242.27	2730.96	93.02	0.641	242.915	2731.00	31.00	91.25	0.628	2730.97	444.549
12	242.37	2730.97	92.88	0.640	243.009	2731.01	31.01	91.25	0.628	2730.97	444.698
12	242.46	2730.98	92.76	0.639	243.102	2731.02	31.02	91.26	0.629	2730.98	444.848
12	242.56	2730.98	92.59	0.638	243.194	2731.02	31.02	91.27	0.629	2730.98	444.991
12	242.65	2730.99	92.44	0.637	243.285	2731.03	31.03	91.28	0.629	2730.99	445.134
12	242.74	2730.99	92.31	0.636	243.374	2731.03	31.03	91.29	0.629	2730.99	445.276
12	242.83	2731.00	92.18	0.635	243.463	2731.04	31.04	91.30	0.629	2731.00	445.419
12	242.92	2731.00	92.02	0.634	243.551	2731.04	31.04	91.30	0.629	2731.00	445.555
12	243.00	2731.01	91.88	0.633	243.637	2731.05	31.05	91.31	0.629	2731.01	445.690
12	243.09	2731.01	91.74	0.632	243.723	2731.05	31.05	91.32	0.629	2731.01	445.826
12	243.18	2731.02	91.57	0.631	243.807	2731.06	31.06	91.33	0.629	2731.02	445.954
12	243.26	2731.03	91.41	0.630	243.891	2731.06	31.06	91.33	0.629	2731.03	446.083
12	243.34	2731.03	91.27	0.629	243.973	2731.07	31.07	91.34	0.629	2731.03	446.211
12	243.43	2731.04	91.14	0.628	244.054	2731.07	31.07	91.35	0.629	2731.04	446.340
12	243.51	2731.04	90.98	0.627	244.134	2731.08	31.08	91.36	0.629	2731.04	446.461
11	243.58	2731.04	90.82	0.626	244.206	2731.08	31.08	91.36	0.629	2731.04	446.576
11	243.65	2731.05	90.73	0.625	244.278	2731.09	31.09	91.37	0.629	2731.05	446.690
11	243.72	2731.05	90.59	0.624	244.348	2731.09	31.09	91.37	0.629	2731.05	446.798
11	243.79	2731.06	90.46	0.623	244.418	2731.10	31.10	91.38	0.629	2731.06	446.906
11	243.86	2731.06	90.34	0.622	244.486	2731.10	31.10	91.39	0.629	2731.06	447.013
11	243.93	2731.07	90.19	0.621	244.554	2731.10	31.10	91.39	0.629	2731.07	447.114
11	244.00	2731.07	90.05	0.620	244.620	2731.11	31.11	91.40	0.629	2731.07	447.214
11	244.07	2731.07	89.92	0.619	244.686	2731.11	31.11	91.40	0.630	2731.07	447.315
11	244.13	2731.08	89.80	0.618	244.750	2731.12	31.12	91.41	0.630	2731.08	447.415
11	244.20	2731.08	89.64	0.617	244.814	2731.12	31.12	91.42	0.630	2731.08	447.509
11	244.26	2731.09	89.50	0.616	244.877	2731.12	31.12	91.42	0.630	2731.09	447.602
11	244.32	2731.09	89.37	0.616	244.938	2731.13	31.13	91.43	0.630	2731.09	447.696
11	244.38	2731.09	89.21	0.614	244.999	2731.13	31.13	91.43	0.630	2731.09	447.782
11	244.44	2731.10	89.05	0.613	245.058	2731.14	31.14	91.44	0.630	2731.10	447.869
11	244.50	2731.10	88.91	0.612	245.116	2731.14	31.14	91.44	0.630	2731.10	447.955
11	244.56	2731.11	88.79	0.611	245.174	2731.14	31.14	91.45	0.630	2731.10	448.042
11	244.62	2731.11	88.62	0.610	245.230	2731.15	31.15	91.45	0.630	2731.11	448.121
11	244.68	2731.11	88.47	0.609	245.285	2731.15	31.15	91.46	0.630	2731.11	448.201
11	244.73	2731.12	88.34	0.608	245.340	2731.15	31.15	91.46	0.630	2731.11	448.280
11	244.79	2731.12	88.16	0.607	245.393	2731.16	31.16	91.47	0.630	2731.12	448.353
11	244.84	2731.12	88.01	0.606	245.445	2731.16	31.16	91.47	0.630	2731.12	448.425
11	244.89	2731.13	87.86	0.605	245.495	2731.16	31.16	91.48	0.630	2731.12	448.498
11	244.94	2731.13	87.73	0.604	245.545	2731.17	31.17	91.48	0.630	2731.13	448.570
11	244.99	2731.13	87.56	0.603	245.594	2731.17	31.17	91.49	0.630	2731.13	448.636
11	245.04	2731.13	87.41	0.602	245.642	2731.17	31.17	91.49	0.630	2731.13	448.701
11	245.09	2731.14	87.27	0.601	245.689	2731.17	31.17	91.49	0.630	2731.14	448.767
11	245.13	2731.14	87.09	0.600	245.734	2731.18	31.18	91.50	0.630	2731.14	448.825
11	245.18	2731.14	86.93	0.599	245.778	2731.18	31.18	91.50	0.630	2731.14	448.884
11	245.22	2731.15	86.78	0.598	245.821	2731.18	31.18	91.51	0.630	2731.14	448.942
11	245.27	2731.15	86.65	0.597	245.864	2731.19	31.19	91.51	0.630	2731.15	449.001
11	245.31	2731.15	86.48	0.596	245.905	2731.19	31.19	91.51	0.630	2731.15	449.052
11	245.35	2731.15	86.32	0.594	245.945	2731.19	31.19	91.52	0.630	2731.15	449.104
11	245.39	2731.16	86.18	0.594	245.984	2731.19	31.19	91.52	0.630	2731.15	449.155
11	245.43	2731.16	86.00	0.592	246.022	2731.19	31.19	91.52	0.630	2731.16	449.200
11	245.47	2731.16	85.84	0.591	246.058	2731.20	31.20	91.53	0.630	2731.16	449.245
11	245.50	2731.16	85.69	0.590	246.094	2731.20	31.20	91.53	0.630	2731.16	449.289
11	245.54	2731.17	85.55	0.589	246.128	2731.20	31.20	91.53	0.630	2731.16	449.334
11	245.57	2731.17	85.38	0.588	246.162	2731.20	31.20	91.54	0.630	2731.16	449.371
11	245.61	2731.17	85.22	0.587	246.194	2731.21	31.21	91.54	0.630	2731.17	449.409
11	245.64	2731.17	85.03	0.586	246.225	2731.21	31.21	91.54	0.630	2731.17	449.439
11	245.67	2731.17	84.85	0.584	246.254	2731.21	31.21	91.55	0.630	2731.17	449.470
11	245.70	2731.18	84.69	0.583	246.283	2731.21	31.21	91.55	0.630	2731.17	449.501
11	245.73	2731.18	84.50	0.582	246.310	2731.21	31.21	91.55	0.631	2731.17	449.525
11	245.76	2731.18	84.32	0.581	246.336	2731.21	31.21	91.55	0.631	2731.18	449.548
11	245.78	2731.18	84.10	0.579	246.361	2731.22	31.22	91.56	0.631	2731.18	449.565
11	245.81	2731.18	83.91	0.578	246.384	2731.22	31.22	91.56	0.631	2731.18	449.582
11	245.83	2731.18	83.73	0.577	246.406	2731.22	31.22	91.56	0.631	2731.18	449.599
11	245.85	2731.18	83.52	0.575	246.426	2731.22	31.22	91.56	0.631	2731.18	449.609
11	245.87	2731.19	83.33	0.574	246.445	2731.22	31.22	91.56	0.631	2731.18	449.619
11	245.89	2731.19	83.11	0.572	246.463	2731.22	31.22	91.56	0.631	2731.18	449.622
11	245.91	2731.19	82.90	0.571	246.479	2731.22	31.22	91.57	0.631	2731.18	449.625
11	245.92	2731.19	82.72	0.570	246.494	2731.22	31.22	91.57	0.631	2731.19	449.628
11	245.94	2731.19	82.50	0.568	246.507	2731.22	31.22	91.57	0.631	2731.19	449.624
11	245.95	2731.19	82.30	0.567	246.519	2731.23	31.23	91.57	0.631	2731.19	449.620
11	245.96	2731.19	82.12	0.566	246.529	2731.23	31.23	91.57	0.631	2731.19	449.616
11	245.97	2731.19	81.90	0.564	246.539	2731.23	31.23	91.57	0.631	2731.19	449.605
11	245.98	2731.19	81.70	0.563	246.546	2731.23	31.23	91.57	0.631	2731.19	449.594
11	245.99	2731.19	81.52	0.561	246.553	2731.23	31.23	91.57	0.631	2731.19	449.583
11	246.00	2731.19	81.31	0.560	246.558	2731.23	31.23	91.57	0.631	2731.19	449.566

ORDINATE	Time (hr)	INFLOW (cfs)	CUM. VOL. (AC-ft)	STAGE (ft)	HEAD (ft)	OUTFLOW (cfs)	Δ VOL (AC-ft)	NEW VOLUME (AC-ft)	NEW ELEVATION (ft)
415	34.50	78	204.18	2731.51	0.32	81.12	0.559	203.617	2731.47
416	34.58	77	204.15	2731.51	0.32	80.89	0.557	203.590	2731.47
417	34.67	77	204.12	2731.51	0.32	80.68	0.556	203.565	2731.46
418	34.75	77	204.09	2731.50	0.32	80.50	0.554	203.541	2731.46
419	34.83	76	204.06	2731.50	0.31	80.27	0.553	203.511	2731.46
420	34.92	76	204.03	2731.50	0.31	80.07	0.551	203.483	2731.46
421	35.00	76	204.01	2731.50	0.31	79.69	0.549	203.458	2731.45
422	35.08	75	203.97	2731.50	0.31	79.13	0.545	203.429	2731.45
423	35.17	75	203.95	2731.49	0.30	78.71	0.542	203.404	2731.45
424	35.25	75	203.92	2731.49	0.30	78.39	0.540	203.380	2731.45
425	35.33	74	203.89	2731.49	0.30	78.01	0.537	203.353	2731.45
426	35.42	74	203.86	2731.49	0.30	77.73	0.535	203.327	2731.44
427	35.50	74	203.84	2731.48	0.30	77.52	0.534	203.303	2731.44
428	35.58	73	203.81	2731.48	0.30	77.22	0.532	203.274	2731.44
429	35.67	73	203.78	2731.48	0.30	76.99	0.530	203.246	2731.44
430	35.75	73	203.75	2731.48	0.30	76.82	0.529	203.220	2731.44
431	35.83	72	203.72	2731.47	0.30	76.56	0.527	203.189	2731.43
432	35.92	72	203.68	2731.47	0.30	76.35	0.526	203.159	2731.43
433	36.00	71	203.65	2731.47	0.29	76.06	0.524	203.124	2731.43
434	36.08	70	203.61	2731.47	0.29	75.70	0.521	203.084	2731.43
435	36.17	69	203.56	2731.46	0.29	75.29	0.519	203.041	2731.42
436	36.25	69	203.52	2731.46	0.29	74.99	0.516	203.000	2731.42
437	36.33	68	203.47	2731.46	0.29	74.61	0.514	202.954	2731.41
438	36.42	67	203.42	2731.45	0.29	74.19	0.511	202.905	2731.41
439	36.50	67	203.37	2731.45	0.29	73.88	0.509	202.857	2731.41
440	36.58	66	203.31	2731.44	0.28	73.50	0.506	202.806	2731.40
441	36.67	66	203.26	2731.44	0.28	73.22	0.504	202.756	2731.40
442	36.75	65	203.20	2731.43	0.28	72.87	0.502	202.702	2731.40
443	36.83	64	203.14	2731.43	0.28	72.46	0.499	202.644	2731.39
444	36.92	64	203.08	2731.43	0.28	72.15	0.497	202.587	2731.39
445	37.00	63	203.02	2731.42	0.28	71.78	0.494	202.527	2731.38
446	37.08	62	202.95	2731.41	0.28	71.37	0.491	202.462	2731.38
447	37.17	62	202.89	2731.41	0.28	71.05	0.489	202.400	2731.37
448	37.25	61	202.82	2731.40	0.27	70.67	0.487	202.333	2731.37
449	37.33	61	202.75	2731.40	0.27	70.39	0.485	202.269	2731.36
450	37.42	60	202.68	2731.39	0.27	70.04	0.482	202.200	2731.36
451	37.50	59	202.61	2731.39	0.27	69.63	0.480	202.126	2731.35
452	37.58	59	202.53	2731.38	0.27	69.33	0.477	202.055	2731.34
453	37.67	58	202.45	2731.38	0.27	68.96	0.475	201.980	2731.34
454	37.75	58	202.38	2731.37	0.27	68.68	0.473	201.906	2731.33
455	37.83	57	202.30	2731.36	0.26	68.33	0.471	201.828	2731.33
456	37.92	57	202.22	2731.36	0.26	68.06	0.469	201.752	2731.32
457	38.00	56	202.14	2731.35	0.26	67.72	0.466	201.671	2731.31
458	38.08	55	202.05	2731.34	0.26	67.33	0.464	201.586	2731.31
459	38.17	55	201.97	2731.34	0.26	67.03	0.462	201.504	2731.30
460	38.25	54	201.88	2731.33	0.26	66.67	0.459	201.416	2731.29
461	38.33	53	201.78	2731.32	0.26	66.25	0.456	201.325	2731.29
462	38.42	52	201.68	2731.31	0.25	65.80	0.453	201.230	2731.28
463	38.50	50	201.57	2731.31	0.25	65.18	0.449	201.126	2731.27
464	38.58	48	201.46	2731.30	0.25	64.43	0.444	201.012	2731.26
465	38.67	46	201.33	2731.29	0.25	63.59	0.438	200.891	2731.25
466	38.75	44	201.19	2731.28	0.24	62.68	0.432	200.763	2731.24
467	38.83	42	201.05	2731.26	0.24	61.71	0.425	200.627	2731.23
468	38.92	40	200.90	2731.25	0.24	60.70	0.418	200.484	2731.22
469	39.00	39	200.75	2731.24	0.23	59.81	0.412	200.341	2731.21
470	39.08	37	200.60	2731.23	0.23	58.85	0.405	200.190	2731.20
471	39.17	36	200.44	2731.22	0.22	57.99	0.399	200.039	2731.19
472	39.25	34	200.27	2731.20	0.22	57.07	0.393	199.880	2731.17
473	39.33	33	200.11	2731.19	0.22	56.23	0.387	199.720	2731.16
474	39.42	32	199.94	2731.18	0.21	55.46	0.382	199.559	2731.15
475	39.50	30	199.77	2731.16	0.21	54.60	0.376	199.389	2731.13
476	39.58	29	199.59	2731.15	0.21	53.81	0.371	199.218	2731.12
477	39.67	28	199.41	2731.14	0.21	53.08	0.366	199.046	2731.11
478	39.75	27	199.23	2731.12	0.20	52.39	0.361	198.871	2731.09
479	39.83	26	199.05	2731.11	0.20	51.73	0.356	198.694	2731.08
480	39.92	24	198.86	2731.09	0.20	50.95	0.351	198.508	2731.06
481	40.00	21	198.65	2731.08	0.19	49.94	0.344	198.309	2731.05
482	40.08	18	198.43	2731.06	0.19	48.76	0.336	198.097	2731.03
483	40.17	14	198.19	2731.04	0.18	47.32	0.326	197.867	2731.01
484	40.25	12	197.95	2731.02	0.18	45.95	0.316	197.634	2731.00
485	40.33	9	197.70	2731.00	0.17	44.50	0.306	197.389	2730.98
486	40.42	7	197.44	2730.98	0.17	43.13	0.297	197.140	2730.96
487	40.50	6	197.18	2730.96	0.16	41.96	0.289	196.893	2730.94
488	40.58	5	196.93	2730.94	0.16	40.93	0.282	196.645	2730.92
489	40.67	4	196.67	2730.92	0.16	40.02	0.276	196.397	2730.90
490	40.75	3	196.42	2730.90	0.15	39.20	0.270	196.148	2730.88
491	40.83	2	196.16	2730.88	0.15	38.43	0.265	195.897	2730.86
492	40.92	2	195.91	2730.86	0.15	37.86	0.261	195.650	2730.84
493	41.00	2	195.66	2730.84	0.15	37.43	0.258	195.406	2730.82
494	41.08	1	195.41	2730.82	0.14	36.96	0.255	195.158	2730.80
495	41.17	1	195.17	2730.80	0.14	36.60	0.252	194.913	2730.78
496	41.25	1	194.92	2730.78	0.14	36.33	0.250	194.670	2730.76
497	41.33	1	194.68	2730.76	0.14	36.13	0.249	194.428	2730.74

INFLOW (cfs)	CUM. VOL. (AC-ft)	STAGE (ft)	INFLOW FROM NORTH BASIN (cfs)	ADDITIONAL VOLUME (AC-ft)	NEW VOLUME	NEW ELEVATION (ft)	Head	Flow (cfs)	Δ VOL (AC-ft)	NEW ELEVATION (ft)	COMBINED VOLUME (AC-ft)
11	246.00	2731.19	81.12	0.559	246.562	2731.23	31.23	91.57	0.631	2731.19	449.548
11	246.01	2731.19	80.89	0.557	246.564	2731.23	31.23	91.57	0.631	2731.19	449.523
11	246.01	2731.19	80.68	0.556	246.565	2731.23	31.23	91.57	0.631	2731.19	449.499
11	246.01	2731.19	80.50	0.554	246.564	2731.23	31.23	91.57	0.631	2731.19	449.474
11	246.01	2731.19	80.27	0.553	246.562	2731.23	31.23	91.57	0.631	2731.19	449.443
11	246.01	2731.19	80.07	0.551	246.559	2731.23	31.23	91.57	0.631	2731.19	449.411
11	246.00	2731.19	79.69	0.549	246.553	2731.23	31.23	91.57	0.631	2731.19	449.380
11	246.00	2731.19	79.13	0.545	246.543	2731.23	31.23	91.57	0.631	2731.19	449.341
11	245.99	2731.19	78.71	0.542	246.530	2731.23	31.23	91.57	0.631	2731.19	449.303
11	245.97	2731.19	78.39	0.540	246.515	2731.23	31.23	91.57	0.631	2731.19	449.264
11	245.96	2731.19	78.01	0.537	246.497	2731.22	31.22	91.57	0.631	2731.19	449.219
11	245.94	2731.19	77.73	0.535	246.478	2731.22	31.22	91.57	0.631	2731.18	449.174
11	245.92	2731.19	77.52	0.534	246.457	2731.22	31.22	91.56	0.631	2731.18	449.129
11	245.90	2731.19	77.22	0.532	246.434	2731.22	31.22	91.56	0.631	2731.18	449.077
11	245.88	2731.19	76.99	0.530	246.409	2731.22	31.22	91.56	0.631	2731.18	449.025
11	245.85	2731.18	76.82	0.529	246.383	2731.22	31.22	91.56	0.631	2731.18	448.973
11	245.83	2731.18	76.56	0.527	246.356	2731.22	31.22	91.55	0.631	2731.18	448.914
11	245.80	2731.18	76.35	0.526	246.327	2731.21	31.21	91.55	0.631	2731.17	448.855
11	245.77	2731.18	76.06	0.524	246.296	2731.21	31.21	91.55	0.631	2731.17	448.789
11	245.74	2731.18	75.70	0.521	246.262	2731.21	31.21	91.55	0.630	2731.17	448.716
11	245.71	2731.18	75.29	0.519	246.226	2731.21	31.21	91.54	0.630	2731.17	448.637
11	245.67	2731.17	74.99	0.516	246.188	2731.21	31.21	91.54	0.630	2731.17	448.557
11	245.63	2731.17	74.61	0.514	246.147	2731.20	31.20	91.54	0.630	2731.16	448.471
11	245.59	2731.17	74.19	0.511	246.104	2731.20	31.20	91.53	0.630	2731.16	448.378
11	245.55	2731.17	73.88	0.509	246.058	2731.20	31.20	91.53	0.630	2731.16	448.285
11	245.50	2731.16	73.50	0.506	246.009	2731.19	31.19	91.52	0.630	2731.16	448.185
11	245.45	2731.16	73.22	0.504	245.959	2731.19	31.19	91.52	0.630	2731.15	448.085
11	245.40	2731.16	72.87	0.502	245.906	2731.19	31.19	91.51	0.630	2731.15	447.978
11	245.35	2731.15	72.46	0.499	245.851	2731.18	31.18	91.51	0.630	2731.15	447.864
11	245.30	2731.15	72.15	0.497	245.793	2731.18	31.18	91.50	0.630	2731.14	447.750
11	245.24	2731.15	71.78	0.494	245.733	2731.18	31.18	91.50	0.630	2731.14	447.630
11	245.18	2731.14	71.37	0.491	245.670	2731.17	31.17	91.49	0.630	2731.13	447.503
11	245.12	2731.14	71.05	0.489	245.605	2731.17	31.17	91.49	0.630	2731.13	447.375
11	245.05	2731.14	70.67	0.487	245.538	2731.17	31.17	91.48	0.630	2731.13	447.241
11	244.98	2731.13	70.39	0.485	245.468	2731.16	31.16	91.48	0.630	2731.12	447.107
11	244.91	2731.13	70.04	0.482	245.396	2731.16	31.16	91.47	0.630	2731.12	446.966
11	244.84	2731.12	69.63	0.480	245.322	2731.15	31.15	91.46	0.630	2731.11	446.818
11	244.77	2731.12	69.33	0.477	245.245	2731.15	31.15	91.46	0.630	2731.11	446.670
11	244.69	2731.11	68.96	0.475	245.166	2731.14	31.14	91.45	0.630	2731.10	446.516
11	244.61	2731.11	68.68	0.473	245.085	2731.14	31.14	91.44	0.630	2731.10	446.361
11	244.53	2731.10	68.33	0.471	245.001	2731.13	31.13	91.43	0.630	2731.09	446.200
11	244.45	2731.10	68.06	0.469	244.916	2731.13	31.13	91.43	0.630	2731.09	446.039
11	244.36	2731.09	67.72	0.466	244.829	2731.12	31.12	91.42	0.630	2731.08	445.870
11	244.27	2731.09	67.33	0.464	244.738	2731.12	31.12	91.41	0.630	2731.08	445.695
11	244.18	2731.08	67.03	0.462	244.646	2731.11	31.11	91.40	0.629	2731.07	445.520
11	244.09	2731.08	66.67	0.459	244.552	2731.10	31.10	91.39	0.629	2731.07	445.339
11	244.00	2731.07	66.25	0.456	244.454	2731.10	31.10	91.38	0.629	2731.06	445.150
11	243.90	2731.06	65.80	0.453	244.354	2731.09	31.09	91.38	0.629	2731.05	444.955
11	243.80	2731.06	65.18	0.449	244.249	2731.09	31.09	91.37	0.629	2731.05	444.746
11	243.70	2731.05	64.43	0.444	244.140	2731.08	31.08	91.36	0.629	2731.04	444.523
11	243.59	2731.05	63.59	0.438	244.024	2731.07	31.07	91.35	0.629	2731.03	444.286
11	243.47	2731.04	62.68	0.432	243.902	2731.06	31.06	91.33	0.629	2731.03	444.036
11	243.35	2731.03	61.71	0.425	243.774	2731.06	31.06	91.32	0.629	2731.02	443.772
11	243.22	2731.02	60.70	0.418	243.639	2731.05	31.05	91.31	0.629	2731.01	443.494
11	243.09	2731.01	59.81	0.412	243.498	2731.04	31.04	91.30	0.629	2731.00	443.210
11	242.94	2731.01	58.85	0.405	243.350	2731.03	31.03	91.28	0.629	2730.99	442.912
11	242.80	2731.00	57.99	0.399	243.197	2731.02	31.02	91.27	0.629	2730.98	442.607
11	242.64	2730.99	57.07	0.393	243.037	2731.01	31.01	91.26	0.628	2730.97	442.288
11	242.48	2730.98	56.23	0.387	242.871	2731.00	31.00	91.24	0.628	2730.96	441.963
11	242.32	2730.97	55.46	0.382	242.701	2730.99	30.99	91.23	0.628	2730.95	441.631
11	242.15	2730.96	54.60	0.376	242.524	2730.98	30.98	91.21	0.628	2730.94	441.285
11	241.97	2730.95	53.81	0.371	242.342	2730.97	30.97	91.19	0.628	2730.93	440.933
11	241.79	2730.93	53.08	0.366	242.156	2730.96	30.96	91.18	0.628	2730.92	440.573
11	241.60	2730.92	52.39	0.361	241.964	2730.95	30.95	91.16	0.628	2730.91	440.207
11	241.41	2730.91	51.73	0.356	241.768	2730.93	30.93	91.14	0.628	2730.89	439.834
11	241.22	2730.90	50.95	0.351	241.567	2730.92	30.92	91.12	0.628	2730.88	439.448
11	241.02	2730.89	49.94	0.344	241.359	2730.91	30.91	91.10	0.627	2730.87	439.041
11	240.81	2730.87	48.76	0.336	241.144	2730.89	30.89	91.08	0.627	2730.86	438.613
11	240.59	2730.86	47.32	0.326	240.918	2730.88	30.88	91.06	0.627	2730.84	438.158
11	240.37	2730.85	45.95	0.316	240.683	2730.87	30.87	91.04	0.627	2730.83	437.689
11	240.13	2730.83	44.50	0.306	240.438	2730.85	30.85	91.02	0.627	2730.81	437.200
11	239.89	2730.82	43.13	0.297	240.184	2730.84	30.84	91.00	0.627	2730.80	436.698
11	239.63	2730.80	41.96	0.289	239.922	2730.82	30.82	90.97	0.627	2730.78	436.188
11	239.37	2730.79	40.93	0.282	239.653	2730.80	30.80	90.95	0.626	2730.76	435.672
11	239.10	2730.77	40.02	0.276	239.378	2730.79	30.79	90.92	0.626	2730.75	435.149
11	238.83	2730.75	39.20	0.270	239.098	2730.77	30.77	90.90	0.626	2730.73	434.620
11	238.55	2730.74	38.43	0.265	238.812	2730.75	30.75	90.87	0.626	2730.71	434.083
11	238.26	2730.72	37.86	0.261	238.523	2730.73	30.73	90.85	0.626	2730.70	433.547
11	237.97	2730.70	37.43	0.258	238.231	2730.72	30.72	90.82	0.625	2730.68	433.011
11	237.68	2730.68	36.96	0.255	237.936	2730.70	30.70	90.79	0.625	2730.66	432.469
11	237.39	2730.66	36.60	0.252	237.638	2730.68	30.68	90.76	0.625	2730.64	431.926
11	237.09	2730.65	36.33	0.250	237.339	2730.66	30.66	90.74	0.625	2730.62	431.384
11	236.79	2730.63	36.13	0.249	237.039	2730.64	30.64	90.71	0.625	2730.60	430.842

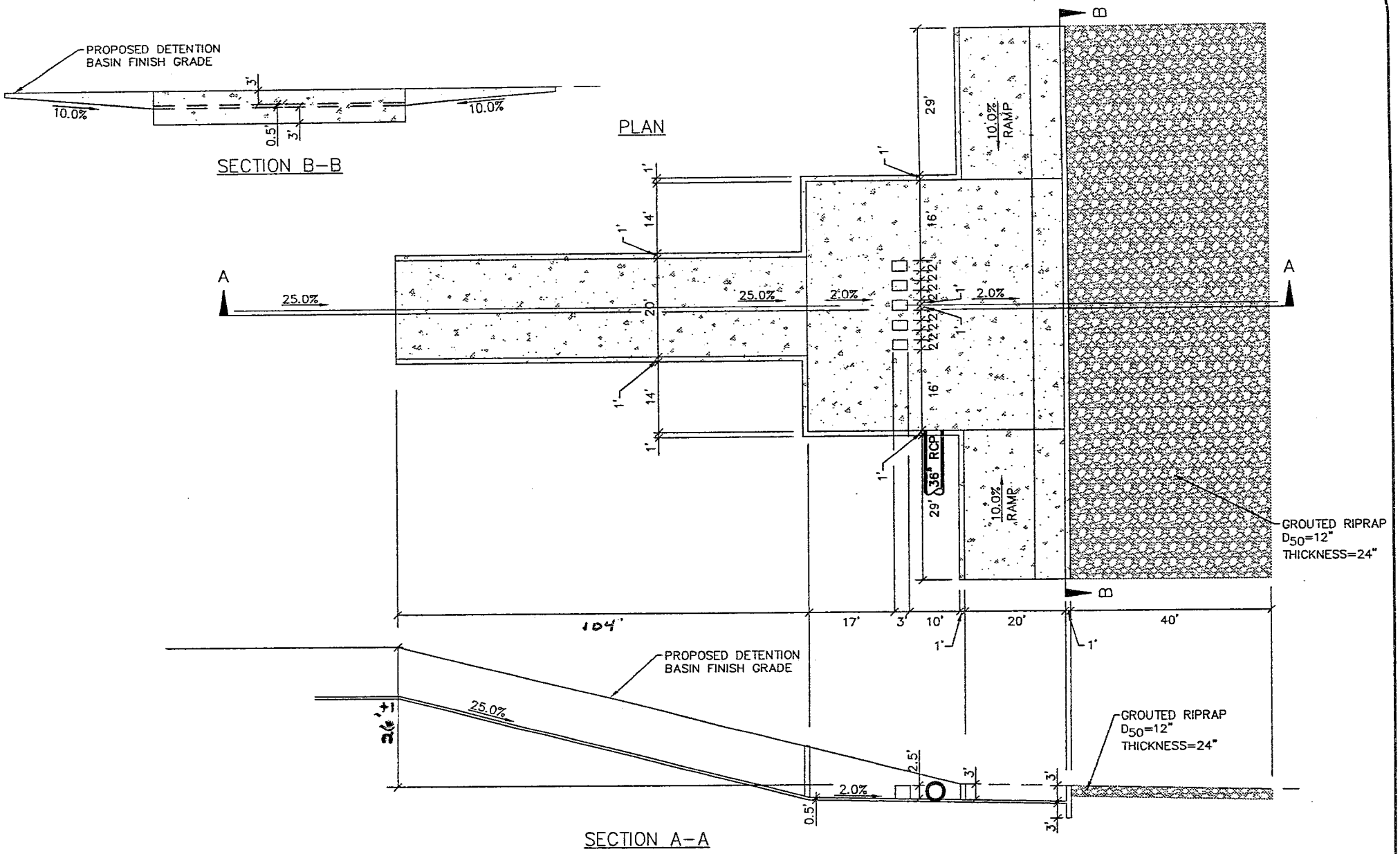
ORDINATE	Time	INFLOW	CUM. VOL.	STAGE	HEAD	OUTFLOW	Δ VOL	NEW VOLUME	NEW ELEVATION
	(hr)	(cfs)	(AC-ft)	(ft)	(ft)	(cfs)	(AC-ft)	(AC-ft)	(ft)
498	41.42	1	194.43	2730.74	0.14	35.97	0.248	194.187	2730.72
499	41.50	0	194.19	2730.72	0.14	35.71	0.246	193.941	2730.70
500	41.58	0	193.94	2730.70	0.14	35.51	0.245	193.697	2730.68
501	41.67	0	193.70	2730.68	0.14	35.36	0.244	193.453	2730.67
502	41.75	0	193.45	2730.67	0.14	35.24	0.243	193.210	2730.65
503	41.83	0	193.21	2730.65	0.14	35.15	0.242	192.968	2730.63
504	41.92	0	192.97	2730.63	0.14	35.08	0.242	192.727	2730.61
505	42.00	0	192.73	2730.61	0.14	35.02	0.241	192.486	2730.59
506	42.08	0	192.49	2730.59	0.14	34.97	0.241	192.245	2730.57
507	42.17	0	192.24	2730.57	0.14	34.94	0.241	192.004	2730.55
508	42.25	0	192.00	2730.55	0.14	34.91	0.240	191.764	2730.53
509	42.33	0	191.76	2730.53	0.14	34.88	0.240	191.523	2730.51
510	42.42	0	191.52	2730.51	0.14	34.86	0.240	191.283	2730.49
511	42.50	0	191.28	2730.49	0.13	34.84	0.240	191.043	2730.48
512	42.58	0	191.04	2730.48	0.13	34.82	0.240	190.804	2730.46
513	42.67	0	190.80	2730.46	0.13	34.80	0.240	190.564	2730.44
514	42.75	0	190.56	2730.44	0.13	34.79	0.240	190.324	2730.42
515	42.83	0	190.32	2730.42	0.13	34.77	0.239	190.085	2730.40
516	42.92	0	190.08	2730.40	0.13	34.76	0.239	189.846	2730.38
517	43.00	0	189.85	2730.38	0.13	34.74	0.239	189.606	2730.36
518	43.08	0	189.61	2730.36	0.13	34.73	0.239	189.367	2730.34
519	43.17	0	189.37	2730.34	0.13	34.72	0.239	189.128	2730.32
520	43.25	0	189.13	2730.32	0.13	34.70	0.239	188.889	2730.31
521	43.33	0	188.89	2730.31	0.13	34.69	0.239	188.650	2730.29
522	43.42	0	188.65	2730.29	0.13	34.68	0.239	188.411	2730.27
523	43.50	0	188.41	2730.27	0.13	34.67	0.239	188.172	2730.25
524	43.58	0	188.17	2730.25	0.13	34.65	0.239	187.934	2730.23
525	43.67	0	187.93	2730.23	0.13	34.64	0.239	187.695	2730.21
526	43.75	0	187.70	2730.21	0.13	34.63	0.238	187.457	2730.19
527	43.83	0	187.46	2730.19	0.13	34.62	0.238	187.218	2730.17
528	43.92	0	187.22	2730.17	0.13	34.61	0.238	186.980	2730.16
529	44.00	0	186.98	2730.16	0.13	34.59	0.238	186.742	2730.14
530	44.08	0	186.74	2730.14	0.13	34.58	0.238	186.504	2730.12
531	44.17	0	186.50	2730.12	0.13	34.57	0.238	186.266	2730.10
532	44.25	0	186.27	2730.10	0.13	34.56	0.238	186.028	2730.08
533	44.33	0	186.03	2730.08	0.12	31.24	0.215	185.812	2730.06
534	44.42	0	185.81	2730.06	0.11	27.86	0.192	185.621	2730.05
535	44.50	0	185.62	2730.05	0.10	25.35	0.175	185.446	2730.03
536	44.58	0	185.45	2730.03	0.09	23.50	0.162	185.284	2730.02
537	44.67	0	185.28	2730.02	0.09	22.13	0.152	185.132	2730.01
538	44.75	0	185.13	2730.01	0.08	21.12	0.145	184.986	2730.00
539	44.83	0	184.99	2730.00	0.08	20.31	0.140	184.846	2729.99
540	44.92	0	184.85	2729.99	0.08	19.41	0.134	184.713	2729.97
541	45.00	0	184.71	2729.97	0.07	18.76	0.129	184.583	2729.96
542	45.08	0	184.58	2729.96	0.07	18.29	0.126	184.457	2729.95
543	45.17	0	184.46	2729.95	0.07	17.95	0.124	184.334	2729.94
544	45.25	0	184.33	2729.94	0.07	17.71	0.122	184.212	2729.93
545	45.33	0	184.21	2729.93	0.07	17.53	0.121	184.091	2729.92
546	45.42	0	184.09	2729.92	0.07	17.40	0.120	183.971	2729.91
547	45.50	0	183.97	2729.91	0.07	17.30	0.119	183.852	2729.90
548	45.58	0	183.85	2729.90	0.07	17.23	0.119	183.733	2729.89
549	45.67	0	183.73	2729.89	0.07	17.18	0.118	183.615	2729.88
550	45.75	0	183.62	2729.88	0.07	17.15	0.118	183.497	2729.87
551	45.83	0	183.50	2729.87	0.07	17.12	0.118	183.379	2729.86
552	45.92	0	183.38	2729.86	0.07	17.10	0.118	183.261	2729.84
553	46.00	0	183.26	2729.84	0.07	17.08	0.118	183.144	2729.83
554	46.08	0	183.14	2729.83	0.07	17.07	0.118	183.026	2729.82
555	46.17	0	183.03	2729.82	0.07	17.06	0.117	182.909	2729.81
556	46.25	0	182.91	2729.81	0.07	17.05	0.117	182.791	2729.80
557	46.33	0	182.79	2729.80	0.07	17.04	0.117	182.674	2729.79
558	46.42	0	182.67	2729.79	0.07	17.03	0.117	182.557	2729.78
559	46.50	0	182.56	2729.78	0.07	17.03	0.117	182.439	2729.77
560	46.58	0	182.44	2729.77	0.07	17.02	0.117	182.322	2729.76
561	46.67	0	182.32	2729.76	0.07	17.02	0.117	182.205	2729.75
562	46.75	0	182.20	2729.75	0.07	17.01	0.117	182.088	2729.74
563	46.83	0	182.09	2729.74	0.07	17.01	0.117	181.971	2729.73
564	46.92	0	181.97	2729.73	0.07	17.00	0.117	181.853	2729.72
565	47.00	0	181.85	2729.72	0.07	17.00	0.117	181.736	2729.71
566	47.08	0	181.74	2729.71	0.07	17.00	0.117	181.619	2729.70
567	47.17	0	181.62	2729.70	0.07	16.99	0.117	181.502	2729.69
568	47.25	0	181.50	2729.69	0.07	16.99	0.117	181.385	2729.68
569	47.33	0	181.39	2729.68	0.07	16.99	0.117	181.268	2729.67
570	47.42	0	181.27	2729.67	0.07	16.98	0.117	181.151	2729.66
571	47.50	0	181.15	2729.66	0.07	16.98	0.117	181.034	2729.65
572	47.58	0	181.03	2729.65	0.07	16.97	0.117	180.918	2729.64
573	47.67	0	180.92	2729.64	0.07	16.97	0.117	180.801	2729.63
574	47.75	0	180.80	2729.63	0.07	16.97	0.117	180.684	2729.62
575	47.83	0	180.68	2729.62	0.07	16.96	0.117	180.567	2729.61
576	47.92	0	180.57	2729.61	0.07	16.96	0.117	180.450	2729.59
577	48.00	0	180.45	2729.59	0.07	16.95	0.117	180.333	2729.58
578	48.08	0	180.33	2729.58	0.07	16.95	0.117	180.217	2729.57
579	48.17	0	180.22	2729.57	0.07	16.95	0.117	180.100	2729.56
580	48.25	0	180.10	2729.56	0.07	16.94	0.117	179.983	2729.55

INFLOW	CUM. VOL.	STAGE	INFLOW FROM NORTH BASIN	ADDITIONAL VOLUME	NEW VOLUME	NEW ELEVATION	Head	Flow	Δ VOL	NEW ELEVATION	COMBINED VOLUME
(cfs)	(AC-ft)	(ft)	(cfs)	(AC-ft)		(ft)		(cfs)	(AC-ft)	(ft)	(AC-ft)
11	236.49	2730.61	35.97	0.248	236.737	2730.62	30.62	90.68	0.625	2730.59	430.300
11	236.19	2730.59	35.71	0.246	236.434	2730.61	30.61	90.65	0.624	2730.57	429.751
11	235.89	2730.57	35.51	0.245	236.130	2730.59	30.59	90.63	0.624	2730.55	429.203
11	235.58	2730.55	35.36	0.244	235.826	2730.57	30.57	90.60	0.624	2730.53	428.655
11	235.28	2730.53	35.24	0.243	235.520	2730.55	30.55	90.57	0.624	2730.51	428.107
11	234.97	2730.52	35.15	0.242	235.214	2730.53	30.53	90.54	0.624	2730.49	427.559
11	234.67	2730.50	35.08	0.242	234.908	2730.51	30.51	90.52	0.623	2730.47	427.011
11	234.36	2730.48	35.02	0.241	234.601	2730.49	30.49	90.49	0.623	2730.45	426.464
11	234.05	2730.46	34.97	0.241	234.295	2730.47	30.47	90.46	0.623	2730.44	425.917
11	233.75	2730.44	34.94	0.241	233.988	2730.45	30.45	90.43	0.623	2730.42	425.370
11	233.44	2730.42	34.91	0.240	233.682	2730.44	30.44	90.40	0.623	2730.40	424.823
11	233.13	2730.40	34.88	0.240	233.375	2730.42	30.42	90.38	0.622	2730.38	424.276
11	232.83	2730.38	34.86	0.240	233.068	2730.40	30.40	90.35	0.622	2730.36	423.730
11	232.52	2730.36	34.84	0.240	232.762	2730.38	30.38	90.32	0.622	2730.34	423.183
11	232.22	2730.35	34.82	0.240	232.455	2730.36	30.36	90.29	0.622	2730.32	422.637
11	231.91	2730.33	34.80	0.240	232.149	2730.34	30.34	90.26	0.622	2730.30	422.091
11	231.60	2730.31	34.79	0.240	231.843	2730.32	30.32	90.24	0.621	2730.28	421.546
11	231.30	2730.29	34.77	0.239	231.536	2730.30	30.30	90.21	0.621	2730.27	421.000
11	230.99	2730.27	34.76	0.239	231.230	2730.28	30.28	90.18	0.621	2730.25	420.455
11	230.69	2730.25	34.74	0.239	230.924	2730.27	30.27	90.15	0.621	2730.23	419.910
11	230.38	2730.23	34.73	0.239	230.618	2730.25	30.25	90.12	0.621	2730.21	419.365
11	230.07	2730.21	34.72	0.239	230.313	2730.23	30.23	90.10	0.620	2730.19	418.820
11	229.77	2730.19	34.70	0.239	230.007	2730.21	30.21	90.07	0.620	2730.17	418.276
11	229.46	2730.18	34.69	0.239	229.701	2730.19	30.19	90.04	0.620	2730.15	417.731
11	229.16	2730.16	34.68	0.239	229.396	2730.17	30.17	90.01	0.620	2730.13	417.187
11	228.85	2730.14	34.67	0.239	229.090	2730.15	30.15	89.98	0.620	2730.12	416.643
11	228.55	2730.12	34.65	0.239	228.785	2730.13	30.13	89.96	0.620	2730.10	416.099
11	228.24	2730.10	34.64	0.239	228.480	2730.12	30.12	89.93	0.619	2730.08	415.556
11	227.94	2730.08	34.63	0.238	228.175	2730.10	30.10	89.90	0.619	2730.06	415.012
11	227.63	2730.06	34.62	0.238	227.870	2730.08	30.08	89.87	0.619	2730.04	414.469
11	227.33	2730.04	34.61	0.238	227.565	2730.06	30.06	89.84	0.619	2730.02	413.926
11	227.02	2730.03	34.59	0.238	227.260	2730.04	30.04	89.82	0.619	2730.00	413.383
11	226.72	2730.01	34.58	0.238	226.955	2730.02	30.02	89.79	0.618	2729.98	412.841
11	226.41	2729.99	34.57	0.238	226.651	2730.00	30.00	89.76	0.618	2729.97	412.298
11	226.11	2729.97	34.56	0.238	226.346	2729.98	29.98	50.47	0.348	2729.96	412.026
11	226.07	2729.96	31.24	0.215	226.290	2729.98	29.98	50.47	0.348	2729.96	411.755
11	226.02	2729.96	27.86	0.192	226.210	2729.97	29.97	50.47	0.348	2729.95	411.483
11	225.94	2729.96	25.35	0.175	226.113	2729.97	29.97	50.46	0.348	2729.94	411.211
11	225.84	2729.95	23.50	0.162	226.003	2729.96	29.96	50.45	0.347	2729.94	410.939
11	225.73	2729.94	22.13	0.152	225.883	2729.95	29.95	50.45	0.347	2729.93	410.668
11	225.61	2729.93	21.12	0.145	225.757	2729.94	29.94	50.44	0.347	2729.92	410.396
11	225.49	2729.92	20.31	0.140	225.625	2729.93	29.93	50.43	0.347	2729.91	410.124
11	225.35	2729.92	19.41	0.134	225.488	2729.92	29.92	50.42	0.347	2729.90	409.853
11	225.22	2729.91	18.76	0.129	225.345	2729.91	29.91	50.42	0.347	2729.89	409.581
11	225.07	2729.90	18.29	0.126	225.200	2729.90	29.90	50.41	0.347	2729.88	409.310
11	224.93	2729.89	17.95	0.124	225.052	2729.89	29.89	50.40	0.347	2729.87	409.039
11	224.78	2729.88	17.71	0.122	224.903	2729.88	29.88	50.39	0.347	2729.86	408.767
11	224.63	2729.87	17.53	0.121	224.752	2729.87	29.87	50.38	0.347	2729.85	408.496
11	224.48	2729.86	17.40	0.120	224.601	2729.86	29.86	50.37	0.347	2729.84	408.225
11	224.33	2729.85	17.30	0.119	224.449	2729.85	29.85	50.36	0.347	2729.83	407.954
11	224.18	2729.84	17.23	0.119	224.296	2729.84	29.84	50.36	0.347	2729.82	407.683
11	224.03	2729.83	17.18	0.118	224.144	2729.83	29.83	50.35	0.347	2729.81	407.412
11	223.87	2729.81	17.15	0.118	223.991	2729.82	29.82	50.34	0.347	2729.80	407.141
11	223.72	2729.80	17.12	0.118	223.838	2729.81	29.81	50.33	0.347	2729.79	406.870
11	223.57	2729.79	17.10	0.118	223.685	2729.80	29.80	50.32	0.347	2729.78	406.599
11	223.41	2729.78	17.08	0.118	223.531	2729.79	29.79	50.31	0.346	2729.77	406.329
11	223.26	2729.77	17.07	0.118	223.378	2729.78	29.78	50.30	0.346	2729.76	406.058
11	223.11	2729.76	17.06	0.117	223.225	2729.77	29.77	50.29	0.346	2729.75	405.787
11	222.95	2729.75	17.05	0.117	223.072	2729.76	29.76	50.28	0.346	2729.74	405.517
11	222.80	2729.74	17.04	0.117	222.919	2729.75	29.75	50.28	0.346	2729.73	405.246
11	222.65	2729.73	17.03	0.117	222.765	2729.74	29.74	50.27	0.346	2729.72	404.976
11	222.49	2729.72	17.03	0.117	222.612	2729.73	29.73	50.26	0.346	2729.71	404.705
11	222.34	2729.71	17.02	0.117	222.459	2729.72	29.72	50.25	0.346	2729.70	404.435
11	222.19	2729.70	17.02	0.117	222.306	2729.71	29.71	50.24	0.346	2729.68	404.165
11	222.04	2729.69	17.01	0.117	222.153	2729.70	29.70	50.23	0.346	2729.67	403.895
11	221.88	2729.68	17.01	0.117	222.000	2729.69	29.69	50.22	0.346	2729.66	403.625
11	221.73	2729.67	17.00	0.117	221.847	2729.68	29.68	50.21	0.346	2729.65	403.354
11	221.58	2729.66	17.00	0.117	221.694	2729.67	29.67	50.21	0.346	2729.64	403.084
11	221.42	2729.65	17.00	0.117	221.541	2729.66	29.66	50.20	0.346	2729.63	402.815
11	221.27	2729.64	16.99	0.117	221.388	2729.65	29.65	50.19	0.346	2729.62	402.545
11	221.12	2729.63	16.99	0.117	221.235	2729.64	29.64	50.18	0.346	2729.61	402.275
11	220.97	2729.62	16.99	0.117	221.082	2729.63	29.63	50.17	0.346	2729.60	402.005
11	220.81	2729.61	16.98	0.117	220.929	2729.61	29.61	50.16	0.345	2729.59	401.735
11	220.66	2729.60	16.98	0.117	220.777	2729.60	29.60	50.15	0.345	2729.58	401.466
11	220.51	2729.59	16.97	0.117	220.624	2729.59	29.59	50.14	0.345	2729.57	401.196
11	220.35	2729.58	16.97	0.117	220.471	2729.58	29.58	50.13	0.345	2729.56	400.927
11	220.20	2729.57	16.97	0.117	220.318	2729.57	29.57	50.13	0.345	2729.55	400.657
11	220.05	2729.56	16.96	0.117	220.166	2729.56	29.56	50.12	0.345	2729.54	400.388
11	219.90	2729.54	16.96	0.117	220.013	2729.55	29.55	50.11	0.345	2729.53	400.118
11	219.74	2729.53	16.95	0.117	219.861	2729.54	29.54	50.10	0.345	2729.52	399.849
11	219.59	2729.52	16.95	0.117	219.708	2729.53	29.53	50.09	0.345	2729.51	399.580
11	219.44	2729.51	16.95	0.117	219.556	2729.52	29.52	50.08	0.345	2729.50	399.311
11	219.29	2729.50	16.94	0.117	219.403	2729.51	29.51	50.07	0.345	2729.49	399.042

ORDINATE	Time (hr)	INFLOW (cfs)	CUM. VOL (AC-ft)	STAGE (ft)	HEAD (ft)	OUTFLOW (cfs)	Δ VOL (AC-ft)	NEW VOLUME (AC-ft)	NEW ELEVATION (ft)
581	48.33	0	179.98	2729.55	0.07	16.94	0.117	179.867	2729.54
582	48.42	0	179.87	2729.54	0.07	16.94	0.117	179.750	2729.53
583	48.50	0	179.75	2729.53	0.07	16.93	0.117	179.633	2729.52
584	48.58	0	179.63	2729.52	0.07	16.93	0.117	179.517	2729.51
585	48.67	0	179.52	2729.51	0.07	16.92	0.117	179.400	2729.50
586	48.75	0	179.40	2729.50	0.07	16.92	0.117	179.284	2729.49
587	48.83	0	179.28	2729.49	0.07	16.92	0.117	179.167	2729.48
588	48.92	0	179.17	2729.48	0.07	16.91	0.116	179.051	2729.47
589	49.00	0	179.05	2729.47	0.07	16.91	0.116	178.934	2729.46
590	49.08	0	178.93	2729.46	0.07	16.90	0.116	178.818	2729.45
591	49.17	0	178.82	2729.45	0.07	16.90	0.116	178.702	2729.44
592	49.25	0	178.70	2729.44	0.07	16.90	0.116	178.585	2729.43
593	49.33	0	178.59	2729.43	0.07	16.89	0.116	178.469	2729.42
594	49.42	0	178.47	2729.42	0.07	16.89	0.116	178.352	2729.41
595	49.50	0	178.35	2729.41	0.07	16.89	0.116	178.236	2729.40
596	49.58	0	178.24	2729.40	0.07	16.88	0.116	178.120	2729.39
597	49.67	0	178.12	2729.39	0.07	16.88	0.116	178.004	2729.38
598	49.75	0	178.00	2729.38	0.07	16.87	0.116	177.887	2729.37
599	49.83	0	177.89	2729.37	0.07	16.87	0.116	177.771	2729.36
600	49.92	0	177.77	2729.36	0.07	16.87	0.116	177.655	2729.35
601	50.00	0	177.66	2729.35	0.07	16.86	0.116	177.539	2729.34
602	50.08	0	177.54	2729.34	0.07	16.86	0.116	177.423	2729.33
603	50.17	0	177.42	2729.33	0.07	16.86	0.116	177.307	2729.32
604	50.25	0	177.31	2729.32	0.07	16.85	0.116	177.191	2729.31
605	50.33	0	177.19	2729.31	0.07	16.85	0.116	177.075	2729.30
606	50.42	0	177.07	2729.30	0.07	16.84	0.116	176.959	2729.28
607	50.50	0	176.96	2729.28	0.07	16.84	0.116	176.843	2729.27
608	50.58	0	176.84	2729.27	0.07	16.84	0.116	176.727	2729.26
609	50.67	0	176.73	2729.26	0.07	16.83	0.116	176.611	2729.25
610	50.75	0	176.61	2729.25	0.07	16.83	0.116	176.495	2729.24
611	50.83	0	176.49	2729.24	0.07	16.83	0.116	176.379	2729.23
612	50.92	0	176.38	2729.23	0.07	16.82	0.116	176.263	2729.22
613	51.00	0	176.26	2729.22	0.07	16.82	0.116	176.147	2729.21
614	51.08	0	176.15	2729.21	0.07	16.81	0.116	176.032	2729.20
615	51.17	0	176.03	2729.20	0.07	16.81	0.116	175.916	2729.19
616	51.25	0	175.92	2729.19	0.07	16.81	0.116	175.800	2729.18
617	51.33	0	175.80	2729.18	0.07	16.80	0.116	175.684	2729.17
618	51.42	0	175.68	2729.17	0.07	16.80	0.116	175.569	2729.16
619	51.50	0	175.57	2729.16	0.07	16.79	0.116	175.453	2729.15
620	51.58	0	175.45	2729.15	0.07	16.79	0.116	175.337	2729.14
621	51.67	0	175.34	2729.14	0.07	16.79	0.116	175.222	2729.13
622	51.75	0	175.22	2729.13	0.07	16.78	0.116	175.106	2729.12
623	51.83	0	175.11	2729.12	0.07	16.78	0.116	174.991	2729.11
624	51.92	0	174.99	2729.11	0.07	16.78	0.116	174.875	2729.10
625	52.00	0	174.88	2729.10	0.06	16.77	0.116	174.760	2729.09
626	52.08	0	174.76	2729.09	0.06	16.77	0.115	174.644	2729.08
627	52.17	0	174.64	2729.08	0.06	16.76	0.115	174.529	2729.07
628	52.25	0	174.53	2729.07	0.06	16.76	0.115	174.413	2729.06
629	52.33	0	174.41	2729.06	0.06	16.76	0.115	174.298	2729.05
630	52.42	0	174.30	2729.05	0.06	16.75	0.115	174.182	2729.04
631	52.50	0	174.18	2729.04	0.06	16.75	0.115	174.067	2729.03
632	52.58	0	174.07	2729.03	0.06	16.75	0.115	173.952	2729.02
633	52.67	0	173.95	2729.02	0.06	16.74	0.115	173.836	2729.01
634	52.75	0	173.84	2729.01	0.06	16.74	0.115	173.721	2729.00
635	52.83	0	173.72	2729.00	0.06	16.73	0.115	173.606	2728.99
636	52.92	0	173.61	2728.99	0.06	16.73	0.115	173.491	2728.98
637	53.00	0	173.49	2728.98	0.06	16.73	0.115	173.375	2728.97
638	53.08	0	173.38	2728.97	0.06	16.72	0.115	173.260	2728.96
639	53.17	0	173.26	2728.96	0.06	16.72	0.115	173.145	2728.95
640	53.25	0	173.15	2728.95	0.06	16.72	0.115	173.030	2728.94
641	53.33	0	173.03	2728.94	0.06	16.71	0.115	172.915	2728.93
642	53.42	0	172.91	2728.93	0.06	16.71	0.115	172.800	2728.92
643	53.50	0	172.80	2728.92	0.06	16.70	0.115	172.685	2728.91
644	53.58	0	172.68	2728.91	0.06	16.70	0.115	172.570	2728.89
645	53.67	0	172.57	2728.89	0.06	16.70	0.115	172.455	2728.88
646	53.75	0	172.45	2728.88	0.06	16.69	0.115	172.340	2728.87
647	53.83	0	172.34	2728.87	0.06	16.69	0.115	172.225	2728.86
648	53.92	0	172.22	2728.86	0.06	16.68	0.115	172.110	2728.85
649	54.00	0	172.11	2728.85	0.06	16.68	0.115	171.995	2728.84
650	54.08	0	172.00	2728.84	0.06	16.68	0.115	171.880	2728.83
651	54.17	0	171.88	2728.83	0.06	16.67	0.115	171.765	2728.82
652	54.25	0	171.77	2728.82	0.06	16.67	0.115	171.651	2728.81
653	54.33	0	171.65	2728.81	0.06	16.67	0.115	171.536	2728.80
654	54.42	0	171.54	2728.80	0.06	16.66	0.115	171.421	2728.79
655	54.50	0	171.42	2728.79	0.06	16.66	0.115	171.306	2728.78
656	54.58	0	171.31	2728.78	0.06	16.65	0.115	171.192	2728.77
657	54.67	0	171.19	2728.77	0.06	16.65	0.115	171.077	2728.76
658	54.75	0	171.08	2728.76	0.06	16.65	0.115	170.962	2728.75
659	54.83	0	170.96	2728.75	0.06	16.64	0.115	170.848	2728.74
660	54.92	0	170.85	2728.74	0.06	16.64	0.115	170.733	2728.73
661	55.00	0	170.73	2728.73	0.06	16.64	0.115	170.619	2728.72
662	55.08	0	170.62	2728.72	0.06	16.63	0.115	170.504	2728.71
663	55.17	0	170.50	2728.71	0.06	16.63	0.115	170.389	2728.70

INFLOW (cfs)	CUM. VOL. (AC-ft)	STAGE (ft)	INFLOW FROM NORTH BASIN (cfs)	ADDITIONAL VOLUME (AC-ft)	NEW VOLUME	NEW ELEVATION (ft)	Head	Flow (cfs)	Δ VOL (AC-ft)	NEW ELEVATION (ft)	COMBINED VOLUME (AC-ft)
11	219.13	2729.49	16.94	0.117	219.251	2729.50	29.50	50.06	0.345	2729.48	398.773
11	218.98	2729.48	16.94	0.117	219.098	2729.49	29.49	50.06	0.345	2729.47	398.504
11	218.83	2729.47	16.93	0.117	218.946	2729.48	29.48	50.05	0.345	2729.46	398.235
11	218.68	2729.46	16.93	0.117	218.794	2729.47	29.47	50.04	0.345	2729.45	397.966
11	218.52	2729.45	16.92	0.117	218.641	2729.46	29.46	50.03	0.345	2729.44	397.697
11	218.37	2729.44	16.92	0.117	218.489	2729.45	29.45	50.02	0.344	2729.43	397.428
11	218.22	2729.43	16.92	0.117	218.337	2729.44	29.44	50.01	0.344	2729.42	397.160
11	218.07	2729.42	16.91	0.116	218.185	2729.43	29.43	50.00	0.344	2729.41	396.891
11	217.92	2729.41	16.91	0.116	218.032	2729.42	29.42	49.99	0.344	2729.39	396.622
11	217.76	2729.40	16.90	0.116	217.880	2729.41	29.41	49.99	0.344	2729.38	396.354
11	217.61	2729.39	16.90	0.116	217.728	2729.40	29.40	49.98	0.344	2729.37	396.086
11	217.46	2729.38	16.90	0.116	217.576	2729.39	29.39	49.97	0.344	2729.36	395.817
11	217.31	2729.37	16.89	0.116	217.424	2729.38	29.38	49.96	0.344	2729.35	395.549
11	217.16	2729.36	16.89	0.116	217.272	2729.37	29.37	49.95	0.344	2729.34	395.281
11	217.00	2729.35	16.89	0.116	217.120	2729.36	29.36	49.94	0.344	2729.33	395.012
11	216.85	2729.34	16.88	0.116	216.968	2729.35	29.35	49.93	0.344	2729.32	394.744
11	216.70	2729.33	16.88	0.116	216.816	2729.34	29.34	49.92	0.344	2729.31	394.476
11	216.55	2729.32	16.87	0.116	216.664	2729.33	29.33	49.92	0.344	2729.30	394.208
11	216.40	2729.31	16.87	0.116	216.513	2729.31	29.31	49.91	0.344	2729.29	393.940
11	216.24	2729.30	16.87	0.116	216.361	2729.30	29.30	49.90	0.344	2729.28	393.672
11	216.09	2729.29	16.86	0.116	216.209	2729.29	29.29	49.89	0.344	2729.27	393.404
11	215.94	2729.28	16.86	0.116	216.057	2729.28	29.28	49.88	0.344	2729.26	393.137
11	215.79	2729.27	16.86	0.116	215.906	2729.27	29.27	49.87	0.343	2729.25	392.869
11	215.64	2729.26	16.85	0.116	215.754	2729.26	29.26	49.86	0.343	2729.24	392.601
11	215.49	2729.25	16.85	0.116	215.602	2729.25	29.25	49.85	0.343	2729.23	392.334
11	215.33	2729.24	16.84	0.116	215.451	2729.24	29.24	49.85	0.343	2729.22	392.066
11	215.18	2729.22	16.84	0.116	215.299	2729.23	29.23	49.84	0.343	2729.21	391.799
11	215.03	2729.21	16.84	0.116	215.148	2729.22	29.22	49.83	0.343	2729.20	391.531
11	214.88	2729.20	16.83	0.116	214.996	2729.21	29.21	49.82	0.343	2729.19	391.264
11	214.73	2729.19	16.83	0.116	214.845	2729.20	29.20	49.81	0.343	2729.18	390.997
11	214.58	2729.18	16.83	0.116	214.693	2729.19	29.19	49.80	0.343	2729.17	390.729
11	214.43	2729.17	16.82	0.116	214.542	2729.18	29.18	49.79	0.343	2729.16	390.462
11	214.27	2729.16	16.82	0.116	214.391	2729.17	29.17	49.78	0.343	2729.15	390.195
11	214.12	2729.15	16.81	0.116	214.239	2729.16	29.16	49.78	0.343	2729.14	389.928
11	213.97	2729.14	16.81	0.116	214.088	2729.15	29.15	49.77	0.343	2729.13	389.661
11	213.82	2729.13	16.81	0.116	213.937	2729.14	29.14	49.76	0.343	2729.12	389.394
11	213.67	2729.12	16.80	0.116	213.786	2729.13	29.13	49.75	0.343	2729.11	389.127
11	213.52	2729.11	16.80	0.116	213.634	2729.12	29.12	49.74	0.343	2729.10	388.861
11	213.37	2729.10	16.79	0.116	213.483	2729.11	29.11	49.73	0.343	2729.09	388.594
11	213.22	2729.09	16.79	0.116	213.332	2729.10	29.10	49.72	0.342	2729.08	388.327
11	213.07	2729.08	16.79	0.116	213.181	2729.09	29.09	49.71	0.342	2729.07	388.060
11	212.91	2729.07	16.78	0.116	213.030	2729.08	29.08	49.71	0.342	2729.06	387.794
11	212.76	2729.06	16.78	0.116	212.879	2729.07	29.07	49.70	0.342	2729.05	387.527
11	212.61	2729.05	16.78	0.116	212.728	2729.06	29.06	49.69	0.342	2729.03	387.261
11	212.46	2729.04	16.77	0.116	212.577	2729.05	29.05	49.68	0.342	2729.02	386.995
11	212.31	2729.03	16.77	0.115	212.425	2729.04	29.04	49.67	0.342	2729.01	386.728
11	212.16	2729.02	16.76	0.115	212.275	2729.03	29.03	49.66	0.342	2729.00	386.462
11	212.01	2729.01	16.76	0.115	212.125	2729.02	29.02	49.65	0.342	2728.99	386.196
11	211.86	2729.00	16.76	0.115	211.974	2729.01	29.01	49.65	0.342	2728.98	385.930
11	211.71	2728.99	16.75	0.115	211.823	2729.00	29.00	49.64	0.342	2728.97	385.663
11	211.56	2728.98	16.75	0.115	211.672	2728.99	28.99	49.63	0.342	2728.96	385.397
11	211.41	2728.97	16.75	0.115	211.522	2728.98	28.98	49.62	0.342	2728.95	385.131
11	211.26	2728.96	16.74	0.115	211.371	2728.97	28.97	49.61	0.342	2728.94	384.866
11	211.10	2728.95	16.74	0.115	211.220	2728.96	28.96	49.60	0.342	2728.93	384.600
11	210.95	2728.94	16.73	0.115	211.070	2728.95	28.95	49.59	0.342	2728.92	384.334
11	210.80	2728.93	16.73	0.115	210.919	2728.94	28.94	49.58	0.341	2728.91	384.068
11	210.65	2728.92	16.73	0.115	210.769	2728.92	28.92	49.57	0.341	2728.90	383.803
11	210.50	2728.91	16.72	0.115	210.618	2728.91	28.91	49.57	0.341	2728.89	383.537
11	210.35	2728.90	16.72	0.115	210.468	2728.90	28.90	49.56	0.341	2728.88	383.271
11	210.20	2728.89	16.72	0.115	210.317	2728.89	28.89	49.55	0.341	2728.87	383.006
11	210.05	2728.88	16.71	0.115	210.167	2728.88	28.88	49.54	0.341	2728.86	382.740
11	209.90	2728.87	16.71	0.115	210.016	2728.87	28.87	49.53	0.341	2728.85	382.475
11	209.75	2728.86	16.70	0.115	209.866	2728.86	28.86	49.52	0.341	2728.84	382.210
11	209.60	2728.85	16.70	0.115	209.716	2728.85	28.85	49.51	0.341	2728.83	381.945
11	209.45	2728.84	16.70	0.115	209.566	2728.84	28.84	49.50	0.341	2728.82	381.679
11	209.30	2728.83	16.69	0.115	209.415	2728.83	28.83	49.50	0.341	2728.81	381.414
11	209.15	2728.82	16.69	0.115	209.265	2728.82	28.82	49.49	0.341	2728.80	381.149
11	209.00	2728.80	16.68	0.115	209.115	2728.81	28.81	49.48	0.341	2728.79	380.884
11	208.85	2728.79	16.68	0.115	208.965	2728.80	28.80	49.47	0.341	2728.78	380.619
11	208.70	2728.78	16.68	0.115	208.815	2728.79	28.79	49.46	0.341	2728.77	380.354
11	208.55	2728.77	16.67	0.115	208.665	2728.78	28.78	49.45	0.341	2728.76	380.090
11	208.40	2728.76	16.67	0.115	208.515	2728.77	28.77	49.44	0.341	2728.75	379.825
11	208.25	2728.75	16.67	0.115	208.365	2728.76	28.76	49.43	0.340	2728.74	379.560
11	208.10	2728.74	16.66	0.115	208.215	2728.75	28.75	49.43	0.340	2728.73	379.296
11	207.95	2728.73	16.66	0.115	208.065	2728.74	28.74	49.42	0.340	2728.72	379.031
11	207.80	2728.72	16.65	0.115	207.915	2728.73	28.73	49.41	0.340	2728.71	378.766
11	207.65	2728.71	16.65	0.115	207.765	2728.72	28.72	49.40	0.340	2728.70	378.502
11	207.50	2728.70	16.65	0.115	207.615	2728.71	28.71	49.39	0.340	2728.69	378.238
11	207.35	2728.69	16.64	0.115	207.466	2728.70	28.70	49.38	0.340	2728.68	377.973
11	207.20	2728.68	16.64	0.115	207.316	2728.69	28.69	49.37	0.340	2728.67	377.709
11	207.05	2728.67	16.64	0.115	207.166	2728.68	28.68	49.36	0.340	2728.66	377.445
11	206.90	2728.66	16.63	0.115	207.017	2728.67	28.67	49.35	0.340	2728.65	377.181
11	206.75	2728.65	16.63	0.115	206.867	2728.66	28.66	49.35	0.340	2728.64	376.917

ORDINATE	Time	INFLOW	CUM. VOL.	STAGE	HEAD	OUTFLOW	Δ VOL	NEW VOLUME	NEW ELEVATION	INFLOW	CUM. VOL.	STAGE	INFLOW FROM NORTH BASIN	ADDITIONAL VOLUME	NEW VOLUME	NEW ELEVATION	Head	Flow	Δ VOL	NEW ELEVATION	COMBINED VOLUME
	(hr)	(cfs)	(AC-ft)	(ft)	(ft)	(cfs)	(AC-ft)	(AC-ft)	(ft)	(cfs)	(AC-ft)	(ft)	(cfs)	(AC-ft)		(ft)		(cfs)	(AC-ft)	(ft)	(AC-ft)
664	55.25	0	170.39	2728.70	0.06	16.62	0.114	170.275	2728.69	11	206.60	2728.64	16.62	0.114	206.717	2728.65	28.65	49.34	0.340	2728.63	376.653
665	55.33	0	170.27	2728.69	0.06	16.62	0.114	170.161	2728.68	11	206.45	2728.63	16.62	0.114	206.568	2728.64	28.64	49.33	0.340	2728.62	376.389
666	55.42	0	170.16	2728.68	0.06	16.62	0.114	170.046	2728.67	11	206.30	2728.62	16.62	0.114	206.418	2728.63	28.63	49.32	0.340	2728.61	376.125
667	55.50	0	170.05	2728.67	0.06	16.61	0.114	169.932	2728.66	11	206.15	2728.61	16.61	0.114	206.269	2728.62	28.62	49.31	0.340	2728.60	375.861
668	55.58	0	169.93	2728.66	0.06	16.61	0.114	169.817	2728.65	11	206.00	2728.60	16.61	0.114	206.119	2728.61	28.61	49.30	0.340	2728.59	375.597
669	55.67	0	169.82	2728.65	0.06	16.60	0.114	169.703	2728.64	11	205.86	2728.59	16.60	0.114	205.970	2728.60	28.60	49.29	0.339	2728.58	375.333
670	55.75	0	169.70	2728.64	0.06	16.60	0.114	169.589	2728.63	11	205.71	2728.58	16.60	0.114	205.820	2728.59	28.59	49.28	0.339	2728.57	375.070
671	55.83	0	169.59	2728.63	0.06	16.60	0.114	169.474	2728.62	11	205.56	2728.57	16.60	0.114	205.671	2728.58	28.58	49.28	0.339	2728.56	374.806
672	55.92	0	169.47	2728.62	0.06	16.59	0.114	169.360	2728.61	11	205.41	2728.56	16.59	0.114	205.522	2728.57	28.57	49.27	0.339	2728.55	374.542
673	56.00	0	169.36	2728.61	0.06	16.59	0.114	169.246	2728.60	11	205.26	2728.55	16.59	0.114	205.372	2728.56	28.56	49.26	0.339	2728.54	374.279
674	56.08	0	169.25	2728.60	0.06	16.59	0.114	169.132	2728.59	11	205.11	2728.54	16.59	0.114	205.223	2728.55	28.55	49.25	0.339	2728.53	374.016
675	56.17	0	169.13	2728.59	0.06	16.58	0.114	169.017	2728.58	11	204.96	2728.53	16.58	0.114	205.074	2728.54	28.54	49.24	0.339	2728.52	373.752
676	56.25	0	169.02	2728.58	0.06	16.58	0.114	168.903	2728.57	11	204.81	2728.52	16.58	0.114	204.925	2728.53	28.53	49.23	0.339	2728.51	373.489
677	56.33	0	168.90	2728.57	0.06	16.57	0.114	168.789	2728.56	11	204.66	2728.51	16.57	0.114	204.776	2728.52	28.52	49.22	0.339	2728.49	373.226



(NORTH BASIN 2)
MODIFIED USBR TYPE III ENERGY DISSIPATOR

NOT TO SCALE

1
RSD23

HEC-RAS Version 3.1.1 May 2003
U.S. Army Corp of Engineers
Hydrologic Engineering Center
609 Second Street, Suite D
Davis, California 95616-4687
(916) 756-1104

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X     X  XXXXXX    XXXX        XXXX       XX      XXXX
X     X  X        X    X      X   X     X  X    X
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PROJECT DATA
Project Title: new db plan
Project File : 061704.prj
Run Date and Time: 7/26/2004 9:02:02 AM

Project in English units

Project Description:
Design Alternatives Memorandum
Model runs from top of north detention basin
through the energy dissipater.

PLAN DATA

Plan Title: Plan 01
Plan File : f:\451-002\Drainage\hecras\061704.p01

Geometry Title: Geo1
Geometry File : f:\451-002\Drainage\hecras\061704.g01

Flow Title : Flow1
Flow File : f:\451-002\Drainage\hecras\061704.f01

Plan Summary Information:

Number of:	Cross Sections	= 30	Mulitple Openings	=	0
	Culverts	= 0	Inline Structures	=	0
	Bridges	= 0	Lateral Structures	=	0

Computational Information
Water surface calculation tolerance = 0.01
Critical depth calculaton tolerance = 0.01
Maximum number of interations = 20
Maximum difference tolerance = 0.3
Flow tolerance factor = 0.001

Computation Options
Critical depth computed only where necessary
Conveyance Calculation Method: At breaks in n values only
Friction Slope Method: Average Conveyance
Computational Flow Regime: Mixed Flow

FLOW DATA

Flow Title: Flow1
Flow File : f:\451-002\Drainage\hecras\061704.f01

Flow Data (cfs)

River	Reach	RS	PF 1
Beltway Channel	Main	749.88	2182

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
Beltway Channel	Main	PF 1	Normal S = 0.0423	Known WS = 2709.84

GEOMETRY DATA

Geometry Title: Geo1
Geometry File : f:\451-002\Drainage\hecras\061704.g01

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 749.88

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2806.57	18	2796.57	32	2796.57	32	2806.57

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37 99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2823.39	Element	Left OB	Channel
Right OB				
Vel Head (ft)	22.75	Wt. n-Val.		0.015
W.S. Elev (ft)	2800.64	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2805.65	Flow Area (sq ft)		57.01
E.G. Slope (ft/ft)	0.042304	Area (sq ft)		57.01
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	38.27	Avg. Vel. (ft/s)		38.27
Max Chl Dpth (ft)	4.07	Hydr. Depth (ft)		4.07
Conv. Total (cfs)	10608.8	Conv. (cfs)		10608.8
Length Wtd. (ft)	99.37	Wetted Per. (ft)		22.14
Min Ch El (ft)	2796.57	Shear (lb/sq ft)		6.80
Alpha	1.00	Stream Power (lb/ft s)		260.23
Frctn Loss (ft)		Cum Volume (acre-ft)		3.43
C & E Loss (ft)		Cum SA (acres)		0.85

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 748.886*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2803.46	18	2793.46	32	2793.46	32	2803.46

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37 99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2818.94	Element	Left OB	Channel
Right OB				
Vel Head (ft)	21.27	Wt. n-Val.		0.015
W.S. Elev (ft)	2797.67	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2802.54	Flow Area (sq ft)		58.96

E.G. Slope (ft/ft)	0.038462	Area (sq ft)	58.96
Q Total (cfs)	2182.00	Flow (cfs)	2182.00
Top Width (ft)	14.00	Top Width (ft)	14.00
Vel Total (ft/s)	37.01	Avg. Vel. (ft/s)	37.01
Max Chl Dpth (ft)	4.21	Hydr. Depth (ft)	4.21
Conv. Total (cfs)	11125.9	Conv. (cfs)	11125.9
Length Wtd. (ft)	99.37	Wetted Per. (ft)	22.42
Min Ch El (ft)	2793.46	Shear (lb/sq ft)	6.31
Alpha	1.00	Stream Power (lb/ft s)	233.67
Frctn Loss (ft)	4.01	Cum Volume (acre-ft)	3.30
C & E Loss (ft)	0.44	Cum SA (acres)	0.82

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 747.892*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2800.36	18	2790.36	32	2790.36	32	2800.36

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37	99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2814.96	Element	Left OB	Channel
Right OB				
Vel Head (ft)	20.28	Wt. n-Val.		0.015
W.S. Elev (ft)	2794.67	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2799.44	Flow Area (sq ft)		60.37
E.G. Slope (ft/ft)	0.035967	Area (sq ft)		60.37
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	36.14	Avg. Vel. (ft/s)		36.14
Max Chl Dpth (ft)	4.31	Hydr. Depth (ft)		4.31
Conv. Total (cfs)	11505.5	Conv. (cfs)		11505.5
Length Wtd. (ft)	99.37	Wetted Per. (ft)		22.62
Min Ch El (ft)	2790.36	Shear (lb/sq ft)		5.99
Alpha	1.00	Stream Power (lb/ft s)		216.55
Frctn Loss (ft)	3.69	Cum Volume (acre-ft)		3.16
C & E Loss (ft)	0.30	Cum SA (acres)		0.79

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 746.898*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2797.25	18	2787.25	32	2787.25	32	2797.25

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37	99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2811.27	Element	Left OB	Channel
Right OB				
Vel Head (ft)	19.64	Wt. n-Val.		0.015
W.S. Elev (ft)	2791.63	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2796.33	Flow Area (sq ft)		61.36
E.G. Slope (ft/ft)	0.034356	Area (sq ft)		61.36
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	35.56	Avg. Vel. (ft/s)		35.56
Max Chl Dpth (ft)	4.38	Hydr. Depth (ft)		4.38
Conv. Total (cfs)	11772.1	Conv. (cfs)		11772.1
Length Wtd. (ft)	99.37	Wetted Per. (ft)		22.77
Min Ch El (ft)	2787.25	Shear (lb/sq ft)		5.78
Alpha	1.00	Stream Power (lb/ft s)		205.58
Frctn Loss (ft)	3.49	Cum Volume (acre-ft)		3.03
C & E Loss (ft)	0.19	Cum SA (acres)		0.76

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 745.905*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2794.15	18	2784.15	32	2784.15	32	2794.15

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37	99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2807.78	Element	Left OB	Channel
Right OB				
Vel Head (ft)	19.19	Wt. n-Val.		0.015
W.S. Elev (ft)	2788.58	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2793.23	Flow Area (sq ft)		62.06
E.G. Slope (ft/ft)	0.033269	Area (sq ft)		62.06
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	35.16	Avg. Vel. (ft/s)		35.16
Max Chl Dpth (ft)	4.43	Hydr. Depth (ft)		4.43
Conv. Total (cfs)	11962.9	Conv. (cfs)		11962.9
Length Wtd. (ft)	99.37	Wetted Per. (ft)		22.87
Min Ch El (ft)	2784.15	Shear (lb/sq ft)		5.64
Alpha	1.00	Stream Power (lb/ft s)		198.20
Frctn Loss (ft)	3.36	Cum Volume (acre-ft)		2.88
C & E Loss (ft)	0.13	Cum SA (acres)		0.73

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel

REACH: Main RS: 744.911*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2791.04	18	2781.04	32	2781.04	32	2791.04

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2804.42	Element	Left OB	Channel
Right OB				
Vel Head (ft)	18.91	Wt. n-Val.		0.015
W.S. Elev (ft)	2785.51	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2790.12	Flow Area (sq ft)		62.53
E.G. Slope (ft/ft)	0.032577	Area (sq ft)		62.53
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	34.90	Avg. Vel. (ft/s)		34.90
Max Chl Dpth (ft)	4.47	Hydr. Depth (ft)		4.47
Conv. Total (cfs)	12089.2	Conv. (cfs)		12089.2
Length Wtd. (ft)	99.37	Wetted Per. (ft)		22.93
Min Ch El (ft)	2781.04	Shear (lb/sq ft)		5.55
Alpha	1.00	Stream Power (lb/ft s)		193.51
Frctn Loss (ft)	3.27	Cum Volume (acre-ft)		2.74
C & E Loss (ft)	0.09	Cum SA (acres)		0.69

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 743.917*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2787.94	18	2777.94	32	2777.94	32	2787.94

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2801.14	Element	Left OB	Channel
Right OB				
Vel Head (ft)	18.71	Wt. n-Val.		0.015
W.S. Elev (ft)	2782.43	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2787.02	Flow Area (sq ft)		62.86
E.G. Slope (ft/ft)	0.032101	Area (sq ft)		62.86
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	34.71	Avg. Vel. (ft/s)		34.71
Max Chl Dpth (ft)	4.49	Hydr. Depth (ft)		4.49
Conv. Total (cfs)	12178.5	Conv. (cfs)		12178.5
Length Wtd. (ft)	99.37	Wetted Per. (ft)		22.98
Min Ch El (ft)	2777.94	Shear (lb/sq ft)		5.48
Alpha	1.00	Stream Power (lb/ft s)		190.30
Frctn Loss (ft)	3.21	Cum Volume (acre-ft)		2.60
C & E Loss (ft)	0.06	Cum SA (acres)		0.66

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 742.924*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2784.83	18	2774.83	32	2774.83	32	2784.83

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2797.93	Element	Left OB	Channel
Right OB				
Vel Head (ft)	18.60	Wt. n-Val.		0.015
W.S. Elev (ft)	2779.33	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2783.91	Flow Area (sq ft)		63.05
E.G. Slope (ft/ft)	0.031823	Area (sq ft)		63.05
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	34.61	Avg. Vel. (ft/s)		34.61
Max Chl Dpth (ft)	4.50	Hydr. Depth (ft)		4.50
Conv. Total (cfs)	12231.6	Conv. (cfs)		12231.6
Length Wtd. (ft)	99.37	Wetted Per. (ft)		23.01
Min Ch El (ft)	2774.83	Shear (lb/sq ft)		5.44
Alpha	1.00	Stream Power (lb/ft s)		188.42
Frctn Loss (ft)	3.18	Cum Volume (acre-ft)		2.46
C & E Loss (ft)	0.03	Cum SA (acres)		0.63

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 741.930*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2781.73	18	2771.73	32	2771.73	32	2781.73

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2794.75	Element	Left OB	Channel
Right OB				
Vel Head (ft)	18.51	Wt. n-Val.		0.015
W.S. Elev (ft)	2776.24	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2780.81	Flow Area (sq ft)		63.20
E.G. Slope (ft/ft)	0.031611	Area (sq ft)		63.20
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	34.52	Avg. Vel. (ft/s)		34.52
Max Chl Dpth (ft)	4.51	Hydr. Depth (ft)		4.51
Conv. Total (cfs)	12272.6	Conv. (cfs)		12272.6

Length Wtd. (ft)	99.37	Wetted Per. (ft)	23.03
Min Ch El (ft)	2771.73	Shear (lb/sq ft)	5.42
Alpha	1.00	Stream Power (lb/ft s)	186.99
Frctn Loss (ft)	3.15	Cum Volume (acre-ft)	2.31
C & E Loss (ft)	0.03	Cum SA (acres)	0.60

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 740.936*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2778.62	18	2768.62	32	2768.62	32	2778.62

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2791.61	Element	Left OB	Channel
Right OB				
Vel Head (ft)	18.47	Wt. n-Val.		0.015
W.S. Elev (ft)	2773.14	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2777.70	Flow Area (sq ft)		63.27
E.G. Slope (ft/ft)	0.031510	Area (sq ft)		63.27
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	34.49	Avg. Vel. (ft/s)		34.49
Max Chl Dpth (ft)	4.52	Hydr. Depth (ft)		4.52
Conv. Total (cfs)	12292.2	Conv. (cfs)		12292.2
Length Wtd. (ft)	99.37	Wetted Per. (ft)		23.04
Min Ch El (ft)	2768.62	Shear (lb/sq ft)		5.40
Alpha	1.00	Stream Power (lb/ft s)		186.31
Frctn Loss (ft)	3.14	Cum Volume (acre-ft)		2.17
C & E Loss (ft)	0.01	Cum SA (acres)		0.57

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 739.943*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2775.52	18	2765.52	32	2765.52	32	2775.52

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2788.47	Element	Left OB	Channel
Right OB				
Vel Head (ft)	18.43	Wt. n-Val.		0.015
W.S. Elev (ft)	2770.04	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2774.60	Flow Area (sq ft)		63.34
E.G. Slope (ft/ft)	0.031415	Area (sq ft)		63.34
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	34.45	Avg. Vel. (ft/s)		34.45
Max Chl Dpth (ft)	4.52	Hydr. Depth (ft)		4.52
Conv. Total (cfs)	12310.9	Conv. (cfs)		12310.9
Length Wtd. (ft)	99.37	Wetted Per. (ft)		23.05
Min Ch El (ft)	2765.52	Shear (lb/sq ft)		5.39
Alpha	1.00	Stream Power (lb/ft s)		185.67
Frctn Loss (ft)	3.13	Cum Volume (acre-ft)		2.02
C & E Loss (ft)	0.01	Cum SA (acres)		0.53

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 738.949*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2772.41	18	2762.41	32	2762.41	32	2772.41

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2785.35	Element	Left OB	Channel
Right OB				
Vel Head (ft)	18.41	Wt. n-Val.		0.015
W.S. Elev (ft)	2766.94	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2771.49	Flow Area (sq ft)		63.37
E.G. Slope (ft/ft)	0.031377	Area (sq ft)		63.37
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	34.43	Avg. Vel. (ft/s)		34.43
Max Chl Dpth (ft)	4.53	Hydr. Depth (ft)		4.53
Conv. Total (cfs)	12318.3	Conv. (cfs)		12318.3
Length Wtd. (ft)	99.37	Wetted Per. (ft)		23.05
Min Ch El (ft)	2762.41	Shear (lb/sq ft)		5.38
Alpha	1.00	Stream Power (lb/ft s)		185.41
Frctn Loss (ft)	3.12	Cum Volume (acre-ft)		1.88
C & E Loss (ft)	0.00	Cum SA (acres)		0.50

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 737.955*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2769.31	18	2759.31	32	2759.31	32	2769.31

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2782.23	Element	Left OB	Channel
Right OB				
Vel Head (ft)	18.39	Wt. n-Val.		0.015
W.S. Elev (ft)	2763.84	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2768.39	Flow Area (sq ft)		63.41
E.G. Slope (ft/ft)	0.031320	Area (sq ft)		63.41
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	34.41	Avg. Vel. (ft/s)		34.41
Max Chl Dpth (ft)	4.53	Hydr. Depth (ft)		4.53
Conv. Total (cfs)	12329.5	Conv. (cfs)		12329.5
Length Wtd. (ft)	99.37	Wetted Per. (ft)		23.06
Min Ch El (ft)	2759.31	Shear (lb/sq ft)		5.38
Alpha	1.00	Stream Power (lb/ft s)		185.03
Frctn Loss (ft)	3.12	Cum Volume (acre-ft)		1.73
C & E Loss (ft)	0.01	Cum SA (acres)		0.47

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 736.962*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2766.2	18	2756.2	32	2756.2	32	2766.2

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37 99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2779.12	Element	Left OB	Channel
Right OB				
Vel Head (ft)	18.39	Wt. n-Val.		0.015
W.S. Elev (ft)	2760.73	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2765.28	Flow Area (sq ft)		63.41
E.G. Slope (ft/ft)	0.031320	Area (sq ft)		63.41
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	34.41	Avg. Vel. (ft/s)		34.41
Max Chl Dpth (ft)	4.53	Hydr. Depth (ft)		4.53
Conv. Total (cfs)	12329.5	Conv. (cfs)		12329.5
Length Wtd. (ft)	99.37	Wetted Per. (ft)		23.06
Min Ch El (ft)	2756.20	Shear (lb/sq ft)		5.38
Alpha	1.00	Stream Power (lb/ft s)		185.03
Frctn Loss (ft)	3.11	Cum Volume (acre-ft)		1.59
C & E Loss (ft)	0.00	Cum SA (acres)		0.44

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 735.968*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2763.1	18	2753.1	32	2753.1	32	2763.1

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37 99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2776.00	Element	Left OB	Channel
Right OB				
Vel Head (ft)	18.37	Wt. n-Val.		0.015
W.S. Elev (ft)	2757.63	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2762.18	Flow Area (sq ft)		63.44
E.G. Slope (ft/ft)	0.031277	Area (sq ft)		63.44
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	34.39	Avg. Vel. (ft/s)		34.39
Max Chl Dpth (ft)	4.53	Hydr. Depth (ft)		4.53
Conv. Total (cfs)	12337.9	Conv. (cfs)		12337.9
Length Wtd. (ft)	99.37	Wetted Per. (ft)		23.06
Min Ch El (ft)	2753.10	Shear (lb/sq ft)		5.37
Alpha	1.00	Stream Power (lb/ft s)		184.74
Frctn Loss (ft)	3.11	Cum Volume (acre-ft)		1.44
C & E Loss (ft)	0.01	Cum SA (acres)		0.41

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 734.974*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2759.99	18	2749.99	32	2749.99	32	2759.99

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37 99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2772.89	Element	Left OB	Channel
Right OB				
Vel Head (ft)	18.37	Wt. n-Val.		0.015
W.S. Elev (ft)	2754.52	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2759.07	Flow Area (sq ft)		63.44
E.G. Slope (ft/ft)	0.031277	Area (sq ft)		63.44
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	34.39	Avg. Vel. (ft/s)		34.39
Max Chl Dpth (ft)	4.53	Hydr. Depth (ft)		4.53
Conv. Total (cfs)	12337.9	Conv. (cfs)		12337.9
Length Wtd. (ft)	99.37	Wetted Per. (ft)		23.06
Min Ch El (ft)	2749.99	Shear (lb/sq ft)		5.37
Alpha	1.00	Stream Power (lb/ft s)		184.74
Frctn Loss (ft)	3.11	Cum Volume (acre-ft)		1.30
C & E Loss (ft)	0.00	Cum SA (acres)		0.37

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 733.981*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2756.89	18	2746.89	32	2746.89	32	2756.89

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2769.79	Element	Left OB	Channel
Right OB				
Vel Head (ft)	18.37	Wt. n-Val.		0.015
W.S. Elev (ft)	2751.42	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2755.97	Flow Area (sq ft)		63.44
E.G. Slope (ft/ft)	0.031277	Area (sq ft)		63.44
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	34.39	Avg. Vel. (ft/s)		34.39
Max Chl Dpth (ft)	4.53	Hydr. Depth (ft)		4.53
Conv. Total (cfs)	12337.9	Conv. (cfs)		12337.9
Length Wtd. (ft)	99.37	Wetted Per. (ft)		23.06
Min Ch El (ft)	2746.89	Shear (lb/sq ft)		5.37
Alpha	1.00	Stream Power (lb/ft s)		184.74
Frctn Loss (ft)	3.11	Cum Volume (acre-ft)		1.16
C & E Loss (ft)	0.00	Cum SA (acres)		0.34

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 732.987*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2753.78	18	2743.78	32	2743.78	32	2753.78

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2766.68	Element	Left OB	Channel
Right OB				
Vel Head (ft)	18.37	Wt. n-Val.		0.015
W.S. Elev (ft)	2748.31	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2752.86	Flow Area (sq ft)		63.44
E.G. Slope (ft/ft)	0.031282	Area (sq ft)		63.44
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	34.40	Avg. Vel. (ft/s)		34.40
Max Chl Dpth (ft)	4.53	Hydr. Depth (ft)		4.53
Conv. Total (cfs)	12337.0	Conv. (cfs)		12337.0
Length Wtd. (ft)	99.37	Wetted Per. (ft)		23.06
Min Ch El (ft)	2743.78	Shear (lb/sq ft)		5.37
Alpha	1.00	Stream Power (lb/ft s)		184.77
Frctn Loss (ft)	3.11	Cum Volume (acre-ft)		1.01
C & E Loss (ft)	0.00	Cum SA (acres)		0.31

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 731.993*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2750.68	18	2740.68	32	2740.68	32	2750.68

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	99.37	99.37	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2763.58	Element	Left OB	Channel
Right OB				
Vel Head (ft)	18.37	Wt. n-Val.		0.015
W.S. Elev (ft)	2745.21	Reach Len. (ft)	99.37	99.37
99.37				
Crit W.S. (ft)	2749.76	Flow Area (sq ft)		63.44
E.G. Slope (ft/ft)	0.031282	Area (sq ft)		63.44
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	34.40	Avg. Vel. (ft/s)		34.40
Max Chl Dpth (ft)	4.53	Hydr. Depth (ft)		4.53
Conv. Total (cfs)	12337.0	Conv. (cfs)		12337.0
Length Wtd. (ft)	99.37	Wetted Per. (ft)		23.06
Min Ch El (ft)	2740.68	Shear (lb/sq ft)		5.37
Alpha	1.00	Stream Power (lb/ft s)		184.77
Frctn Loss (ft)	3.11	Cum Volume (acre-ft)		0.87
C & E Loss (ft)	0.00	Cum SA (acres)		0.28

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 731

INPUT
Description: sta 731 -- begin transition to 20' spillway
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
18	2747.57	18	2737.57	32	2737.57	32	2747.57

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
18	.015	18	.015	32	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
18	32	20	20	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2760.46	Element	Left OB	Channel
Right OB				
Vel Head (ft)	18.36	Wt. n-Val.		0.015
W.S. Elev (ft)	2742.10	Reach Len. (ft)	20.00	20.00
20.00				
Crit W.S. (ft)	2746.65	Flow Area (sq ft)		63.46
E.G. Slope (ft/ft)	0.031253	Area (sq ft)		63.46
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	14.00	Top Width (ft)		14.00
Vel Total (ft/s)	34.38	Avg. Vel. (ft/s)		34.38
Max Chl Dpth (ft)	4.53	Hydr. Depth (ft)		4.53
Conv. Total (cfs)	12342.6	Conv. (cfs)		12342.6
Length Wtd. (ft)	20.00	Wetted Per. (ft)		23.07
Min Ch El (ft)	2737.57	Shear (lb/sq ft)		5.37

Alpha	1.00	Stream Power (lb/ft s)	184.58
Frctn Loss (ft)	3.11	Cum Volume (acre-ft)	0.72
C & E Loss (ft)	0.00	Cum SA (acres)	0.25

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 730.80

INPUT
Description: Begin spillway
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
15	2747.47	15	2737.47	35	2737.47	35	2747.47

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
15	.015	15	.015	35	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
15	35	130	130	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2759.68	Element	Left OB	Channel
Right OB				
Vel Head (ft)	19.10	Wt. n-Val.		0.015
W.S. Elev (ft)	2740.58	Reach Len. (ft)	130.00	130.00
130.00				
Crit W.S. (ft)	2744.64	Flow Area (sq ft)		62.21
E.G. Slope (ft/ft)	0.039615	Area (sq ft)		62.21
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	20.00	Top Width (ft)		20.00
Vel Total (ft/s)	35.07	Avg. Vel. (ft/s)		35.07
Max Chl Dpth (ft)	3.11	Hydr. Depth (ft)		3.11
Conv. Total (cfs)	10962.9	Conv. (cfs)		10962.9
Length Wtd. (ft)	130.00	Wetted Per. (ft)		26.22
Min Ch El (ft)	2737.47	Shear (lb/sq ft)		5.87
Alpha	1.00	Stream Power (lb/ft s)		205.80
Frctn Loss (ft)	0.70	Cum Volume (acre-ft)		0.69
C & E Loss (ft)	0.07	Cum SA (acres)		0.24

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 729.51

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
15	2715.22	15	2705.22	35	2705.22	35	2715.22

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
15	.015	15	.015	35	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
15	35	1	1	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2748.89	Element	Left OB	Channel
Right OB				
Vel Head (ft)	41.56	Wt. n-Val.		0.015
W.S. Elev (ft)	2707.33	Reach Len. (ft)	1.00	1.00
1.00				
Crit W.S. (ft)	2712.40	Flow Area (sq ft)		42.18
E.G. Slope (ft/ft)	0.130158	Area (sq ft)		42.18
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	20.00	Top Width (ft)		20.00
Vel Total (ft/s)	51.73	Avg. Vel. (ft/s)		51.73
Max Chl Dpth (ft)	2.11	Hydr. Depth (ft)		2.11
Conv. Total (cfs)	6048.1	Conv. (cfs)		6048.1
Length Wtd. (ft)	1.00	Wetted Per. (ft)		24.22
Min Ch El (ft)	2705.22	Shear (lb/sq ft)		14.15
Alpha	1.00	Stream Power (lb/ft s)		732.12
Frctn Loss (ft)	8.56	Cum Volume (acre-ft)		0.54
C & E Loss (ft)	2.25	Cum SA (acres)		0.18

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than
0.7 or greater than 1.4. This may indicate the need for additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 729.50

INPUT
Description: Transition to Baffles with side slope
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2714.97	0	2704.97	50	2704.97	50	2714.97

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	50	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	17	17	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2748.57	Element	Left OB	Channel
Right OB				
Vel Head (ft)	42.77	Wt. n-Val.		0.015
W.S. Elev (ft)	2705.80	Reach Len. (ft)	17.00	17.00
17.00				
Crit W.S. (ft)	2708.86	Flow Area (sq ft)		41.58
E.G. Slope (ft/ft)	0.374938	Area (sq ft)		41.58
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	50.00	Top Width (ft)		50.00
Vel Total (ft/s)	52.48	Avg. Vel. (ft/s)		52.48
Max Chl Dpth (ft)	0.83	Hydr. Depth (ft)		0.83
Conv. Total (cfs)	3563.5	Conv. (cfs)		3563.5
Length Wtd. (ft)	17.00	Wetted Per. (ft)		51.66
Min Ch El (ft)	2704.97	Shear (lb/sq ft)		18.84
Alpha	1.00	Stream Power (lb/ft s)		988.62
Frctn Loss (ft)	0.21	Cum Volume (acre-ft)		0.54
C & E Loss (ft)	0.12	Cum SA (acres)		0.18

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than
0.7 or greater than 1.4. This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 729.33

INPUT
Description: Baffle blocks
Station Elevation Data num= 24

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev

0	2714.53	0	2704.63	16	2704.6	16	2707.83	18	2707.83
18	2704.59	20	2704.59	20	2707.83	22	2707.83	22	2704.59
24	2704.58	24	2707.83	26	2707.83	26	2704.58	28	2704.57
28	2707.83	30	2707.83	30	2704.57	32	2704.57	32	2707.83
34	2707.83	34	2704.56	50	2704.53	50	2714.53		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.04	0	.04	50	.04

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	3	3	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2732.85	Element	Left OB	Channel
Right OB				
Vel Head (ft)	26.96	Wt. n-Val.		0.040
W.S. Elev (ft)	2705.89	Reach Len. (ft)	3.00	3.00
3.00				
Crit W.S. (ft)	2709.11	Flow Area (sq ft)		52.37
E.G. Slope (ft/ft)	1.366469	Area (sq ft)		52.37
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	40.00	Top Width (ft)		40.00
Vel Total (ft/s)	41.67	Avg. Vel. (ft/s)		41.67
Max Chl Dpth (ft)	1.36	Hydr. Depth (ft)		1.31
Conv. Total (cfs)	1866.6	Conv. (cfs)		1866.6
Length Wtd. (ft)	3.00	Wetted Per. (ft)		55.71
Min Ch El (ft)	2704.53	Shear (lb/sq ft)		80.19
Alpha	1.00	Stream Power (lb/ft s)		3341.33
Frctn Loss (ft)	10.98	Cum Volume (acre-ft)		0.52
C & E Loss (ft)	4.74	Cum SA (acres)		0.16

Warning: Divided flow computed for this cross-section.
Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than
0.7 or greater than 1.4. This may indicate the need for additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 729.30

INPUT
Description: End of Baffle Blocks
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2714.47	0	2704.47	50	2704.47	50	2714.47

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	50	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2731.46	Element	Left OB	Channel
Right OB				
Vel Head (ft)	25.92	Wt. n-Val.		0.015
W.S. Elev (ft)	2705.54	Reach Len. (ft)	10.00	10.00
10.00				
Crit W.S. (ft)	2708.35	Flow Area (sq ft)		53.41
E.G. Slope (ft/ft)	0.164738	Area (sq ft)		53.41
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	50.00	Top Width (ft)		50.00
Vel Total (ft/s)	40.86	Avg. Vel. (ft/s)		40.86
Max Chl Dpth (ft)	1.07	Hydr. Depth (ft)		1.07
Conv. Total (cfs)	5376.0	Conv. (cfs)		5376.0
Length Wtd. (ft)	10.00	Wetted Per. (ft)		52.14
Min Ch El (ft)	2704.47	Shear (lb/sq ft)		10.54
Alpha	1.00	Stream Power (lb/ft s)		430.43
Frctn Loss (ft)	1.09	Cum Volume (acre-ft)		0.51
C & E Loss (ft)	0.31	Cum SA (acres)		0.16

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than
0.7 or greater than 1.4. This may indicate the need for additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 729.20

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2714.27	0	2704.27	50	2704.27	50	2714.27

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	50	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	1	1	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2729.33	Element	Left OB	Channel
Right OB				
Vel Head (ft)	23.94	Wt. n-Val.		0.015
W.S. Elev (ft)	2705.38	Reach Len. (ft)	1.00	1.00
1.00				
Crit W.S. (ft)	2708.15	Flow Area (sq ft)		55.57
E.G. Slope (ft/ft)	0.144657	Area (sq ft)		55.57
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	50.00	Top Width (ft)		50.00
Vel Total (ft/s)	39.27	Avg. Vel. (ft/s)		39.27
Max Chl Dpth (ft)	1.11	Hydr. Depth (ft)		1.11
Conv. Total (cfs)	5737.0	Conv. (cfs)		5737.0
Length Wtd. (ft)	1.00	Wetted Per. (ft)		52.22
Min Ch El (ft)	2704.27	Shear (lb/sq ft)		9.61
Alpha	1.00	Stream Power (lb/ft s)		377.34
Frctn Loss (ft)	1.54	Cum Volume (acre-ft)		0.50
C & E Loss (ft)	0.59	Cum SA (acres)		0.15

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 729.19

INPUT
Description: Access Ramps
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-30	2707.25	0	2704.25	50	2704.25	80	2707.25

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-30	.04	-30	.04	80	.04

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
-30	80	20	20	.6	.8

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2728.92	Element	Left OB	Channel
Right OB				
Vel Head (ft)	23.73	Wt. n-Val.		0.040
W.S. Elev (ft)	2705.19	Reach Len. (ft)	20.00	20.00
20.00				
Crit W.S. (ft)	2707.36	Flow Area (sq ft)		55.82
E.G. Slope (ft/ft)	1.466179	Area (sq ft)		55.82
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	68.79	Top Width (ft)		68.79
Vel Total (ft/s)	39.09	Avg. Vel. (ft/s)		39.09
Max Chl Dpth (ft)	0.94	Hydr. Depth (ft)		0.81
Conv. Total (cfs)	1802.0	Conv. (cfs)		1802.0
Length Wtd. (ft)	20.00	Wetted Per. (ft)		68.89
Min Ch El (ft)	2704.25	Shear (lb/sq ft)		74.16
Alpha	1.00	Stream Power (lb/ft s)		2899.30
Frctn Loss (ft)	0.34	Cum Volume (acre-ft)		0.50
C & E Loss (ft)	0.06	Cum SA (acres)		0.14

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than
0.7 or greater than 1.4. This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 728.99

INPUT
Description: End of Access Ramps
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-30	2706.85	0	2703.85	50	2703.85	80	2706.85

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-30	.04	-30	.04	80	.04

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
-30	80	1	1	.6	.8

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2710.97	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.16	Wt. n-Val.		0.040
W.S. Elev (ft)	2710.81	Reach Len. (ft)	1.00	1.00
1.00				
Crit W.S. (ft)	2706.96	Flow Area (sq ft)		675.09
E.G. Slope (ft/ft)	0.000742	Area (sq ft)		675.09
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	110.00	Top Width (ft)		110.00
Vel Total (ft/s)	3.23	Avg. Vel. (ft/s)		3.23
Max Chl Dpth (ft)	6.96	Hydr. Depth (ft)		6.14
Conv. Total (cfs)	80124.2	Conv. (cfs)		80124.2
Length Wtd. (ft)	1.00	Wetted Per. (ft)		118.21
Min Ch El (ft)	2703.85	Shear (lb/sq ft)		0.26
Alpha	1.00	Stream Power (lb/ft s)		0.85
Frctn Loss (ft)	0.00	Cum Volume (acre-ft)		0.33
C & E Loss (ft)	0.23	Cum SA (acres)		0.10

Warning: The cross-section end points had to be extended vertically for the computed water surface.
Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than
0.7 or greater than 1.4. This may indicate the need for additional cross sections.
Note: Hydraulic jump has occurred between this cross section and the previous upstream section.

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 728.98

INPUT
Description: 3 feet Sill and beginning of grouted rip rap
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-30	2716.85	-30	2706.85	80	2706.85	80	2716.85

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-30	.035	-30	.035	80	.035

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
-30	80	40	40	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2710.73	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.55	Wt. n-Val.		0.035
W.S. Elev (ft)	2710.18	Reach Len. (ft)	40.00	40.00
40.00				
Crit W.S. (ft)		Flow Area (sq ft)		366.63
E.G. Slope (ft/ft)	0.004269	Area (sq ft)		366.63
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	110.00	Top Width (ft)		110.00
Vel Total (ft/s)	5.95	Avg. Vel. (ft/s)		5.95
Max Chl Dpth (ft)	3.33	Hydr. Depth (ft)		3.33
Conv. Total (cfs)	33394.8	Conv. (cfs)		33394.8
Length Wtd. (ft)	40.00	Wetted Per. (ft)		116.67
Min Ch El (ft)	2706.85	Shear (lb/sq ft)		0.84
Alpha	1.00	Stream Power (lb/ft s)		4.98
Frctn Loss (ft)	0.20	Cum Volume (acre-ft)		0.32
C & E Loss (ft)	0.01	Cum SA (acres)		0.10

CROSS SECTION

RIVER: Beltway Channel
REACH: Main RS: 728.58

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-30	2716.84	-30	2706.84	80	2706.84	80	2716.84

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-30	.035	-30	.035	80	.035

Bank Sta: Left	Right	Coeff Contr.	Expan.
-30	80	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2710.52	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.68	Wt. n-Val.		0.035
W.S. Elev (ft)	2709.84	Reach Len. (ft)		
Crit W.S. (ft)	2709.14	Flow Area (sq ft)		330.00
E.G. Slope (ft/ft)	0.006018	Area (sq ft)		330.00
Q Total (cfs)	2182.00	Flow (cfs)		2182.00
Top Width (ft)	110.00	Top Width (ft)		110.00
Vel Total (ft/s)	6.61	Avg. Vel. (ft/s)		6.61
Max Chl Dpth (ft)	3.00	Hydr. Depth (ft)		3.00
Conv. Total (cfs)	28128.4	Conv. (cfs)		28128.4
Length Wtd. (ft)		Wetted Per. (ft)		116.00
Min Ch El (ft)	2706.84	Shear (lb/sq ft)		1.07
Alpha	1.00	Stream Power (lb/ft s)		7.07
Frctn Loss (ft)		Cum Volume (acre-ft)		
C & E Loss (ft)		Cum SA (acres)		

SUMMARY OF MANNING'S N VALUES

River:Beltway Channel

Reach	River Sta.	n1	n2	n3

Main	749.88	.015	.015	.015
Main	748.886*	.015	.015	.015
Main	747.892*	.015	.015	.015
Main	746.898*	.015	.015	.015
Main	745.905*	.015	.015	.015
Main	744.911*	.015	.015	.015
Main	743.917*	.015	.015	.015
Main	742.924*	.015	.015	.015
Main	741.930*	.015	.015	.015
Main	740.936*	.015	.015	.015
Main	739.943*	.015	.015	.015
Main	738.949*	.015	.015	.015
Main	737.955*	.015	.015	.015
Main	736.962*	.015	.015	.015
Main	735.968*	.015	.015	.015
Main	734.974*	.015	.015	.015
Main	733.981*	.015	.015	.015
Main	732.987*	.015	.015	.015
Main	731.993*	.015	.015	.015
Main	731	.015	.015	.015
Main	730.80	.015	.015	.015
Main	729.51	.015	.015	.015
Main	729.50	.015	.015	.015
Main	729.33	.04	.04	.04
Main	729.30	.015	.015	.015
Main	729.20	.015	.015	.015
Main	729.19	.04	.04	.04
Main	728.99	.04	.04	.04
Main	728.98	.035	.035	.035
Main	728.58	.035	.035	.035

SUMMARY OF REACH LENGTHS

River: Beltway Channel

Reach	River Sta.	Left	Channel	Right
Main	749.88	99.37	99.37	99.37
Main	748.886*	99.37	99.37	99.37
Main	747.892*	99.37	99.37	99.37
Main	746.898*	99.37	99.37	99.37
Main	745.905*	99.37	99.37	99.37
Main	744.911*	99.37	99.37	99.37
Main	743.917*	99.37	99.37	99.37
Main	742.924*	99.37	99.37	99.37
Main	741.930*	99.37	99.37	99.37
Main	740.936*	99.37	99.37	99.37
Main	739.943*	99.37	99.37	99.37
Main	738.949*	99.37	99.37	99.37
Main	737.955*	99.37	99.37	99.37
Main	736.962*	99.37	99.37	99.37
Main	735.968*	99.37	99.37	99.37
Main	734.974*	99.37	99.37	99.37
Main	733.981*	99.37	99.37	99.37
Main	732.987*	99.37	99.37	99.37
Main	731.993*	99.37	99.37	99.37
Main	731	20	20	20
Main	730.80	130	130	130
Main	729.51	1	1	1
Main	729.50	17	17	17
Main	729.33	3	3	3
Main	729.30	10	10	10
Main	729.20	1	1	1
Main	729.19	20	20	20
Main	728.99	1	1	1
Main	728.98	40	40	40
Main	728.58			

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: Beltway Channel

Reach	River Sta.	Contr.	Expan.
Main	749.88	.1	.3
Main	748.886*	.1	.3
Main	747.892*	.1	.3
Main	746.898*	.1	.3
Main	745.905*	.1	.3
Main	744.911*	.1	.3
Main	743.917*	.1	.3
Main	742.924*	.1	.3
Main	741.930*	.1	.3
Main	740.936*	.1	.3
Main	739.943*	.1	.3
Main	738.949*	.1	.3
Main	737.955*	.1	.3
Main	736.962*	.1	.3
Main	735.968*	.1	.3
Main	734.974*	.1	.3
Main	733.981*	.1	.3
Main	732.987*	.1	.3
Main	731.993*	.1	.3
Main	731	.1	.3
Main	730.80	.1	.3
Main	729.51	.1	.3
Main	729.50	.1	.3
Main	729.33	.1	.3
Main	729.30	.1	.3
Main	729.20	.1	.3
Main	729.19	.6	.8
Main	728.99	.6	.8
Main	728.98	.1	.3
Main	728.58	.1	.3

Profile Output Table - Standard Table 1

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Main	749.88	PF 1	2182.00	2796.57	2800.64	2805.65	2823.39	0.042304	38.27	57.01	14.00	3.34
Main	748.886*	PF 1	2182.00	2793.46	2797.67	2802.54	2818.94	0.038462	37.01	58.96	14.00	3.18
Main	747.892*	PF 1	2182.00	2790.36	2794.67	2799.44	2814.96	0.035967	36.14	60.37	14.00	3.07
Main	746.898*	PF 1	2182.00	2787.25	2791.63	2796.33	2811.27	0.034356	35.56	61.36	14.00	2.99
Main	745.905*	PF 1	2182.00	2784.15	2788.58	2793.23	2807.78	0.033269	35.16	62.06	14.00	2.94
Main	744.911*	PF 1	2182.00	2781.04	2785.51	2790.12	2804.42	0.032577	34.90	62.53	14.00	2.91
Main	743.917*	PF 1	2182.00	2777.94	2782.43	2787.02	2801.14	0.032101	34.71	62.86	14.00	2.89
Main	742.924*	PF 1	2182.00	2774.83	2779.33	2783.91	2797.93	0.031823	34.61	63.05	14.00	2.87
Main	741.930*	PF 1	2182.00	2771.73	2776.24	2780.81	2794.75	0.031611	34.52	63.20	14.00	2.86
Main	740.936*	PF 1	2182.00	2768.62	2773.14	2777.70	2791.61	0.031510	34.49	63.27	14.00	2.86
Main	739.943*	PF 1	2182.00	2765.52	2770.04	2774.60	2788.47	0.031415	34.45	63.34	14.00	2.85
Main	738.949*	PF 1	2182.00	2762.41	2766.94	2771.49	2785.35	0.031377	34.43	63.37	14.00	2.85
Main	737.955*	PF 1	2182.00	2759.31	2763.84	2768.39	2782.23	0.031320	34.41	63.41	14.00	2.85
Main	736.962*	PF 1	2182.00	2756.20	2760.73	2765.28	2779.12	0.031320	34.41	63.41	14.00	2.85
Main	735.968*	PF 1	2182.00	2753.10	2757.63	2762.18	2776.00	0.031277	34.39	63.44	14.00	2.85
Main	734.974*	PF 1	2182.00	2749.99	2754.52	2759.07	2772.89	0.031277	34.39	63.44	14.00	2.85
Main	733.981*	PF 1	2182.00	2746.89	2751.42	2755.97	2769.79	0.031277	34.39	63.44	14.00	2.85
Main	732.987*	PF 1	2182.00	2743.78	2748.31	2752.86	2766.68	0.031282	34.40	63.44	14.00	2.85
Main	731.993*	PF 1	2182.00	2740.68	2745.21	2749.76	2763.58	0.031282	34.40	63.44	14.00	2.85
Main	731	PF 1	2182.00	2737.57	2742.10	2746.65	2760.46	0.031253	34.38	63.46	14.00	2.85
Main	730.80	PF 1	2182.00	2737.47	2740.58	2744.64	2759.68	0.039615	35.07	62.21	20.00	3.50

Main	729.51	PF 1		2182.00	2705.22	2707.33	2712.40
2748.89	0.130158	51.73	42.18	20.00	6.28		
Main	729.50	PF 1		2182.00	2704.97	2705.80	2708.86
2748.57	0.374938	52.48	41.58	50.00	10.14		
Main	729.33	PF 1		2182.00	2704.53	2705.89	2709.11
2732.85	1.366469	41.67	52.37	40.00	6.42		
Main	729.30	PF 1		2182.00	2704.47	2705.54	2708.35
2731.46	0.164738	40.86	53.41	50.00	6.97		
Main	729.20	PF 1		2182.00	2704.27	2705.38	2708.15
2729.33	0.144657	39.27	55.57	50.00	6.56		
Main	729.19	PF 1		2182.00	2704.25	2705.19	2707.36
2728.92	1.466179	39.09	55.82	68.79	7.65		
Main	728.99	PF 1		2182.00	2703.85	2710.81	2706.96
2710.97	0.000742	3.23	675.09	110.00	0.23		
Main	728.98	PF 1		2182.00	2706.85	2710.18	
2710.73	0.004269	5.95	366.63	110.00	0.57		
Main	728.58	PF 1		2182.00	2706.84	2709.84	2709.14
2710.52	0.006018	6.61	330.00	110.00	0.67		

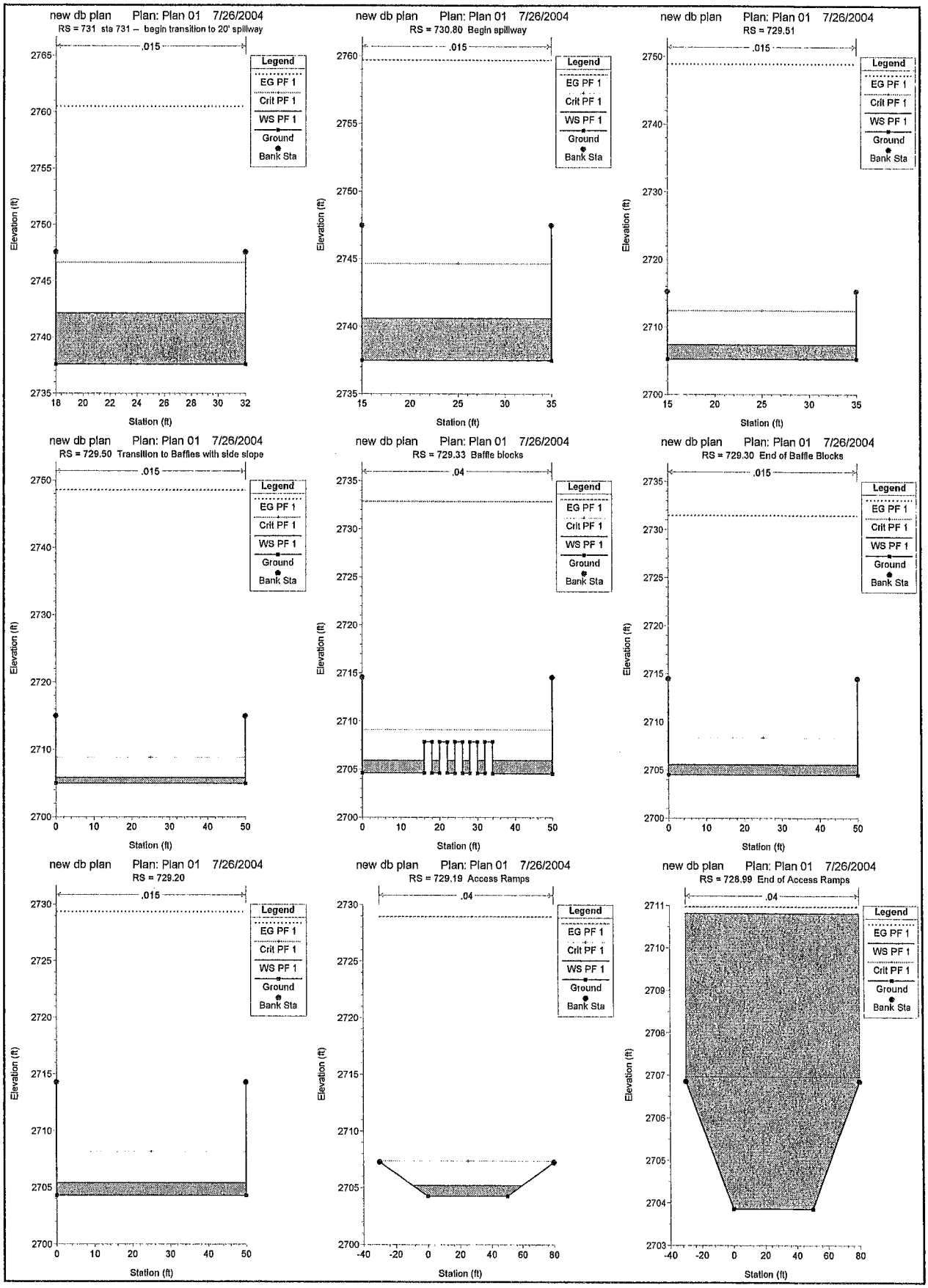
Profile Output Table - Standard Table 2

Reach	River Sta	Profile		E.G. Elev	W.S. Elev	Vel Head	Frctn Loss
C & E Loss	Q Left	Q Channel	Q Right	Top Width			
				(ft)	(ft)	(ft)	(ft)
(ft)	(cfs)	(cfs)	(cfs)	(ft)			
Main	749.88	PF 1		2823.39	2800.64	22.75	
2182.00	14.00						
Main	748.886*	PF 1		2818.94	2797.67	21.27	4.01
0.44	2182.00			14.00			
Main	747.892*	PF 1		2814.96	2794.67	20.28	3.69
0.30	2182.00			14.00			
Main	746.898*	PF 1		2811.27	2791.63	19.64	3.49
0.19	2182.00			14.00			
Main	745.905*	PF 1		2807.78	2788.58	19.19	3.36
0.13	2182.00			14.00			
Main	744.911*	PF 1		2804.42	2785.51	18.91	3.27
0.09	2182.00			14.00			
Main	743.917*	PF 1		2801.14	2782.43	18.71	3.21
0.06	2182.00			14.00			
Main	742.924*	PF 1		2797.93	2779.33	18.60	3.18
0.03	2182.00			14.00			
Main	741.930*	PF 1		2794.75	2776.24	18.51	3.15
0.03	2182.00			14.00			
Main	740.936*	PF 1		2791.61	2773.14	18.47	3.14
0.01	2182.00			14.00			
Main	739.943*	PF 1		2788.47	2770.04	18.43	3.13
0.01	2182.00			14.00			
Main	738.949*	PF 1		2785.35	2766.94	18.41	3.12
0.00	2182.00			14.00			
Main	737.955*	PF 1		2782.23	2763.84	18.39	3.12
0.01	2182.00			14.00			
Main	736.962*	PF 1		2779.12	2760.73	18.39	3.11
0.00	2182.00			14.00			
Main	735.968*	PF 1		2776.00	2757.63	18.37	3.11
0.01	2182.00			14.00			
Main	734.974*	PF 1		2772.89	2754.52	18.37	3.11
0.00	2182.00			14.00			
Main	733.981*	PF 1		2769.79	2751.42	18.37	3.11
0.00	2182.00			14.00			
Main	732.987*	PF 1		2766.68	2748.31	18.37	3.11
0.00	2182.00			14.00			
Main	731.993*	PF 1		2763.58	2745.21	18.37	3.11
0.00	2182.00			14.00			
Main	731	PF 1		2760.46	2742.10	18.36	3.11
0.00	2182.00			14.00			
Main	730.80	PF 1		2759.68	2740.58	19.10	0.70
0.07	2182.00			20.00			
Main	729.51	PF 1		2748.89	2707.33	41.56	8.56
2.25	2182.00			20.00			
Main	729.50	PF 1		2748.57	2705.80	42.77	0.21
0.12	2182.00			50.00			
Main	729.33	PF 1		2732.85	2705.89	26.96	10.98
4.74	2182.00			40.00			
Main	729.30	PF 1		2731.46	2705.54	25.92	1.09
0.31	2182.00			50.00			
Main	729.20	PF 1		2729.33	2705.38	23.94	1.54
0.59	2182.00			50.00			
Main	729.19	PF 1		2728.92	2705.19	23.73	0.34
0.06	2182.00			68.79			
Main	728.99	PF 1		2710.97	2710.81	0.16	0.00
0.23	2182.00			110.00			
Main	728.98	PF 1		2710.73	2710.18	0.55	0.20
0.01	2182.00			110.00			
Main	728.58	PF 1		2710.52	2709.84	0.68	
2182.00	110.00						

ERRORS WARNINGS AND NOTES
Errors Warnings and Notes for Plan : Plan 01

River: Beltway Channel Reach: Main RS: 748.886* Profile: PF 1
Warning:The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 747.892* Profile: PF 1
Warning:The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 746.898* Profile: PF 1
Warning:The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 745.905* Profile: PF 1
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 744.911* Profile: PF 1
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 743.917* Profile: PF 1
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 742.924* Profile: PF 1
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 741.930* Profile: PF 1
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 740.936* Profile: PF 1
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 739.943* Profile: PF 1
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 738.949* Profile: PF 1
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 737.955* Profile: PF 1
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 736.962* Profile: PF 1
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 735.968* Profile: PF 1
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 734.974* Profile: PF 1
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 733.981* Profile: PF 1

Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate
the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 732.987* Profile: PF 1
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate
the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 731.993* Profile: PF 1
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate
the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 731 Profile: PF 1
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate
the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 730.80 Profile: PF 1
Warning:The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 729.51 Profile: PF 1
Warning:The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.
Warning:The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.
This may indicate the need for additional cross sections.
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate
the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 729.50 Profile: PF 1
Warning:The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.
Warning:The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.
This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 729.33 Profile: PF 1
Warning:Divided flow computed for this cross-section.
Warning:The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.
Warning:The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.
This may indicate the need for additional cross sections.
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate
the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 729.30 Profile: PF 1
Warning:The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.
Warning:The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.
This may indicate the need for additional cross sections.
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate
the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 729.20 Profile: PF 1
Warning:The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.
Warning:The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section. This may indicate
the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 729.19 Profile: PF 1
Warning:The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.
This may indicate the need for additional cross sections.
River: Beltway Channel Reach: Main RS: 728.99 Profile: PF 1
Warning:The cross-section end points had to be extended vertically for the computed water surface.
Warning:The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.
This may indicate the need for additional cross sections.
Note: Hydraulic jump has occurred between this cross section and the previous upstream section.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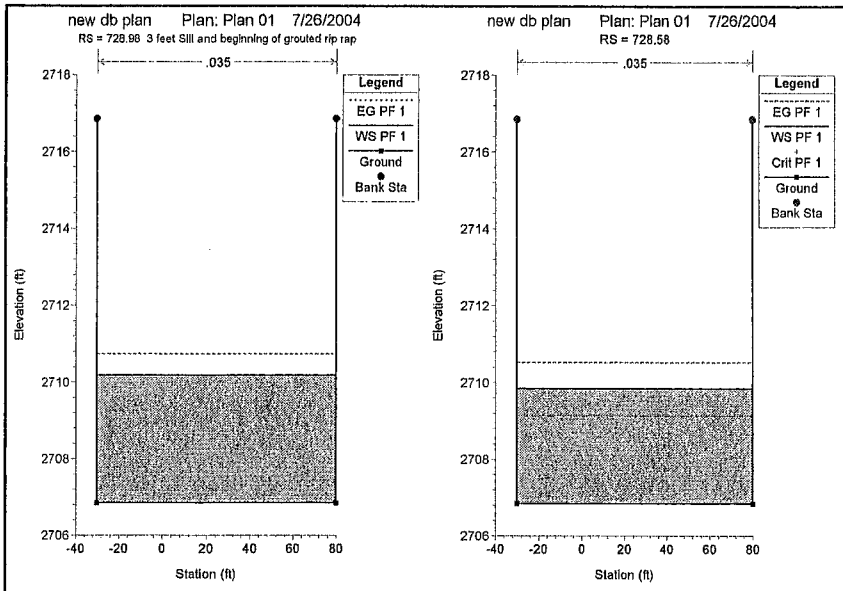
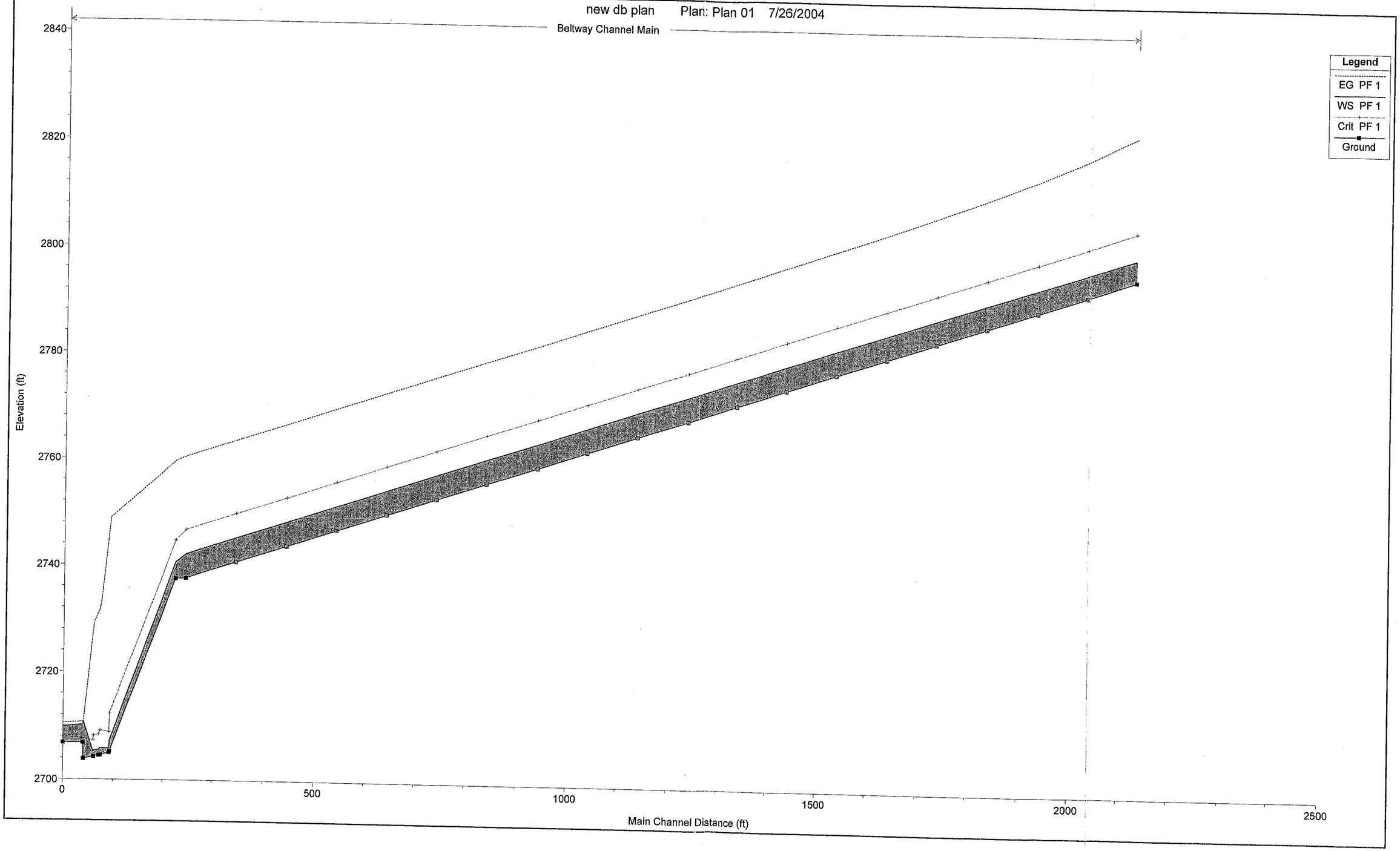
RS = 731 sta 731 – begin transition to 20' spillway
.015
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
new db plan Plan: Plan 01 7/26/2004
RS = 730.80 Begin spillway
.015
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
new db plan Plan: Plan 01 7/26/2004
RS = 729.51
.015
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
new db plan Plan: Plan 01 7/26/2004
RS = 729.50 Transition to Baffles with side slope
.015
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
new db plan Plan: Plan 01 7/26/2004
RS = 729.33 Baffle blocks
.04
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
new db plan Plan: Plan 01 7/26/2004
RS = 729.30 End of Baffle Blocks
.015
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
new db plan Plan: Plan 01 7/26/2004
RS = 729.20
.015
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
new db plan Plan: Plan 01 7/26/2004
RS = 729.19 Access Ramps
.04
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
new db plan Plan: Plan 01 7/26/2004
RS = 728.99 End of Access Ramps
.04
Legend
EG PF 1
WS PF 1
Crit PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


new db plan Plan: Plan 01 7/26/2004
RS = 728.98 3 feet Sill and beginning of grouted rip rap
.035
Legend
EG PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
new db plan Plan: Plan 01 7/26/2004
RS = 728.58
.035
Legend
EG PF 1
WS PF 1
Crit PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

new db plan Plan: Plan 01 7/26/2004

Beltway Channel Main



1	0130	19	4.	3.0	1.0	*	1	2345	286	91.	439.9	30.9	*	2	2200	553	91.	427.6	30.4
1	0135	20	5.	3.6	1.2	*	1	2350	287	91.	440.2	30.9	*	2	2205	554	91.	427.0	30.4
1	0140	21	6.	4.4	1.5	*	1	2355	288	91.	440.5	30.9	*	2	2210	555	91.	426.5	30.4
1	0145	22	7.	5.3	1.8	*	2	0000	289	91.	440.8	30.9	*	2	2215	556	90.	425.9	30.4
1	0150	23	9.	6.2	2.1	*	2	0005	290	91.	441.1	30.9	*	2	2220	557	90.	425.4	30.3
1	0155	24	10.	7.2	2.4	*	2	0010	291	91.	441.4	30.9	*	2	2225	558	90.	424.8	30.3
1	0200	25	11.	8.1	2.7	*	2	0015	292	91.	441.7	30.9	*	2	2230	559	90.	424.3	30.3
1	0205	26	12.	8.9	3.0	*	2	0020	293	91.	442.0	30.9	*	2	2235	560	90.	423.8	30.3
1	0210	27	14.	9.7	3.2	*	2	0025	294	91.	442.3	30.9	*	2	2240	561	90.	423.2	30.3
1	0215	28	15.	10.5	3.5	*	2	0030	295	91.	442.6	30.9	*	2	2245	562	90.	422.7	30.2
1	0220	29	16.	11.6	3.9	*	2	0035	296	91.	442.8	31.0	*	2	2250	563	90.	422.1	30.2
1	0225	30	18.	13.0	4.3	*	2	0040	297	91.	443.1	31.0	*	2	2255	564	90.	421.6	30.2
1	0230	31	20.	14.6	4.9	*	2	0045	298	91.	443.4	31.0	*	2	2300	565	90.	421.1	30.2
1	0235	32	22.	16.3	5.3	*	2	0050	299	91.	443.7	31.0	*	2	2305	566	90.	420.5	30.2
1	0240	33	22.	17.9	5.6	*	2	0055	300	91.	443.9	31.0	*	2	2310	567	90.	420.0	30.1
1	0245	34	23.	19.5	6.0	*	2	0100	301	91.	444.2	31.0	*	2	2315	568	90.	419.4	30.1
1	0250	35	24.	21.3	6.4	*	2	0105	302	91.	444.5	31.0	*	2	2320	569	90.	418.9	30.1
1	0255	36	24.	23.1	6.8	*	2	0110	303	91.	444.8	31.0	*	2	2325	570	90.	418.4	30.1
1	0300	37	25.	24.8	7.2	*	2	0115	304	91.	445.0	31.0	*	2	2330	571	90.	417.8	30.1
1	0305	38	26.	26.7	7.7	*	2	0120	305	91.	445.3	31.0	*	2	2335	572	90.	417.3	30.0
1	0310	39	27.	29.1	8.2	*	2	0125	306	91.	445.5	31.1	*	2	2340	573	90.	416.7	30.0
1	0315	40	28.	32.9	9.1	*	2	0130	307	91.	445.8	31.1	*	2	2345	574	90.	416.2	30.0
1	0320	41	30.	39.1	10.2	*	2	0135	308	92.	446.1	31.1	*	2	2350	575	90.	415.7	30.0
1	0325	42	32.	49.6	11.2	*	2	0140	309	92.	446.3	31.1	*	2	2355	576	90.	415.1	30.0
1	0330	43	34.	66.0	12.7	*	2	0145	310	92.	446.6	31.1	*	3	0000	577	89.	414.6	29.9
1	0335	44	37.	88.1	14.8	*	2	0150	311	92.	446.8	31.1	*	3	0005	578	89.	414.1	29.9
1	0340	45	38.	113.3	16.5	*	2	0155	312	92.	447.1	31.1	*	3	0010	579	89.	413.5	29.9
1	0345	46	40.	138.2	18.0	*	2	0200	313	92.	447.3	31.1	*	3	0015	580	89.	413.0	29.9
1	0350	47	41.	160.6	19.4	*	2	0205	314	92.	447.6	31.1	*	3	0020	581	89.	412.5	29.9
1	0355	48	42.	179.4	20.4	*	2	0210	315	92.	447.8	31.1	*	3	0025	582	88.	411.9	29.8
1	0400	49	43.	194.7	21.0	*	2	0215	316	92.	448.1	31.1	*	3	0030	583	88.	411.4	29.8
1	0405	50	43.	207.1	21.4	*	2	0220	317	92.	448.3	31.2	*	3	0035	584	88.	410.9	29.8
1	0410	51	43.	217.3	21.8	*	2	0225	318	92.	448.5	31.2	*	3	0040	585	88.	410.4	29.8
1	0415	52	44.	225.4	22.2	*	2	0230	319	92.	448.8	31.2	*	3	0045	586	88.	409.8	29.7
1	0420	53	44.	232.1	22.4	*	2	0235	320	92.	449.0	31.2	*	3	0050	587	88.	409.3	29.7
1	0425	54	44.	237.8	22.6	*	2	0240	321	92.	449.3	31.2	*	3	0055	588	87.	408.8	29.7
1	0430	55	44.	243.3	22.9	*	2	0245	322	92.	449.5	31.2	*	3	0100	589	87.	408.3	29.7
1	0435	56	44.	249.1	23.1	*	2	0250	323	92.	449.7	31.2	*	3	0105	590	87.	407.7	29.7
1	0440	57	45.	255.5	23.3	*	2	0255	324	92.	449.9	31.2	*	3	0110	591	87.	407.2	29.6
1	0445	58	45.	262.2	23.6	*	2	0300	325	92.	450.2	31.2	*	3	0115	592	87.	406.7	29.6
1	0450	59	45.	269.2	23.9	*	2	0305	326	92.	450.4	31.2	*	3	0120	593	86.	406.2	29.6
1	0455	60	45.	276.3	24.2	*	2	0310	327	92.	450.6	31.2	*	3	0125	594	86.	405.7	29.6
1	0500	61	46.	283.2	24.4	*	2	0315	328	92.	450.8	31.2	*	3	0130	595	86.	405.2	29.5
1	0505	62	46.	289.6	24.7	*	2	0320	329	92.	451.1	31.3	*	3	0135	596	86.	404.7	29.5
1	0510	63	46.	295.1	24.9	*	2	0325	330	92.	451.3	31.3	*	3	0140	597	86.	404.2	29.5
1	0515	64	47.	299.8	25.1	*	2	0330	331	92.	451.5	31.3	*	3	0145	598	85.	403.6	29.5
1	0520	65	48.	303.6	25.2	*	2	0335	332	92.	451.7	31.3	*	3	0150	599	85.	403.1	29.5
1	0525	66	49.	306.8	25.4	*	2	0340	333	92.	451.9	31.3	*	3	0155	600	85.	402.6	29.4
1	0530	67	50.	309.5	25.5	*	2	0345	334	92.	452.1	31.3	*	3	0200	601	85.	402.1	29.4
1	0535	68	51.	311.8	25.6	*	2	0350	335	92.	452.3	31.3	*	3	0205	602	85.	401.6	29.4
1	0540	69	52.	313.8	25.7	*	2	0355	336	92.	452.5	31.3	*	3	0210	603	84.	401.1	29.4
1	0545	70	53.	315.6	25.7	*	2	0400	337	92.	452.8	31.3	*	3	0215	604	84.	400.6	29.3
1	0550	71	53.	317.2	25.8	*	2	0405	338	92.	453.0	31.3	*	3	0220	605	84.	400.1	29.3
1	0555	72	54.	318.9	25.9	*	2	0410	339	92.	453.2	31.3	*	3	0225	606	84.	399.6	29.3
1	0600	73	54.	320.4	25.9	*	2	0415	340	92.	453.4	31.3	*	3	0230	607	84.	399.1	29.3
1	0605	74	55.	321.8	26.0	*	2	0420	341	92.	453.5	31.3	*	3	0235	608	84.	398.6	29.3
1	0610	75	55.	323.2	26.1	*	2	0425	342	92.	453.7	31.3	*	3	0240	609	83.	398.1	29.2
1	0615	76	56.	324.4	26.1	*	2	0430	343	92.	453.9	31.4	*	3	0245	610	83.	397.6	29.2
1	0620	77	56.	325.6	26.2	*	2	0435	344	92.	454.1	31.4	*	3	0250	611	83.	397.2	29.2
1	0625	78	57.	326.6	26.2	*	2	0440	345	92.	454.3	31.4	*	3	0255	612	83.	396.7	29.2
1	0630	79	57.	327.6	26.3	*	2	0445	346	92.	454.5	31.4	*	3	0300	613	83.	396.2	29.2
1	0635	80	57.	328.6	26.3	*	2	0450	347	92.	454.7	31.4	*	3	0305	614	82.	395.7	29.1
1	0640	81	58.	329.5	26.3	*	2	0455	348	92.	454.9	31.4	*	3	0310	615	82.	395.2	29.1
1	0645	82	58.	330.4	26.4	*	2	0500	349	92.	455.0	31.4	*	3	0315	616	82.	394.7	29.1
1	0650	83	58.	331.2	26.4	*	2	0505	350	92.	455.2	31.4	*	3	0320	617	82.	394.2	29.1
1	0655	84	59.	332.1	26.4	*	2	0510	351	92.	455.4	31.4	*	3	0325	618	82.	393.8	29.1
1	0700	85	59.	332.9	26.5	*	2	0515	352	92.	455.6	31.4	*	3	0330	619	82.	393.3	29.0
1	0705	86	59.	333.8	26.5	*	2	0520	353	92.	455.8	31.4	*	3	0335	620	81.	392.8	29.0
1	0710	87	60.	334.6	26.6	*	2	0525	354	92.	455.9	31.4	*	3	0340	621	81.	392.3	29.0
1	0715	88	60.	335.4	26.6	*	2	0530	355	92.	456.1	31.4	*	3	0345	622	81.	391.8	29.0
1	0720	89	60.	336.3	26.6	*	2	0535	356	92.	456.3	31.4	*	3	0350	623	81.	391.4	29.0
1	0725	90	61.	337.1	26.7	*	2	0540	357	92.	456.4	31.4	*	3	0355	624	81.	390.9	28.9
1	0730	91	61.	337.9	26.7	*	2	0545	358	92.	456.6	31.4	*	3	0400	625	80.	390.4	28.9
1	0735	92	61.	338.7	26.7	*	2	0550	359	92.	456.7	31.5	*	3	0405	626	80.	389.9	28.9
1	0740	93	61.	339.5	26.8	*	2	0555	360	92.	456.9	31.5	*	3	0410	627	80.	389.5	28.9
1	0745	94	62.	340.3	26.8	*	2	0600	361	92.	457.1	31.5	*	3	0415	628	80.	389.0	28.9
1	0750	95	62.	341.1	26.8	*	2	0605	362	92.	457.2	31.5	*	3	0420	629	80.	388.5	28.8
1	0755	96	62.	341.9	26.9	*	2	0610	363	92.	457.4	31.5	*	3	0425	630	80.	388.0	28.8
1	0800	97	63.	342.7	26.9	*	2	0615	364	92.	457.5	31.5	*	3	0430	631	79.	387.6	28.8
1	0805	98	63.	343.5	26.9	*	2	0620	365	92.	457.7	31.5	*	3	0435	632	79.	387.1	28.8
1	0810	99	63.	344.3	27.0	*	2	0625	366	92.	457.8	31.5	*	3	0440	633	79.	386.6	28.8
1	0815	100	64.	345.1	27.0	*	2	0630	367	92.	458.0	31.5	*	3	0445	634	79.	386.2	28.7
1	0820	101	64.	345.9	27.0	*	2	0635	368	92.	458.1	31.5	*	3	0450	635	79.	385.7	28.7
1	0825	102	64.	346.7	27.1	*	2	0640	369	92.	458.3	31.5	*	3	0455	636	79.	385.3	28.7
1	0830	103	64.	347.4	27.1	*	2	0645	370	92.	458.4	31.5	*	3	0500	637	78.	384.8	28.7
1	0835	104	65.	348.2	27.1	*	2	0650	371	92.	458.5	31.5	*	3	0505	638	78.	384.3	28.7
1	0840	105	65.	349.0	27.2	*	2	0655	372	92.	458.7	31.5	*	3	0510	639	78.	383.9	28.6
1	0845	106	65.	349.7	27.2	*	2	0700	373	92.	458.8	31.5	*	3	0515	640	78.	383.4	28.6
1	0850	107	66.	350.5	27.2	*	2	0705	374	92.	458.9	31.5	*	3	0520	641	78.	383.0	28.6
1	0855	108	66.	351.3	27.3	*	2	0710	375	92.	459.1	31.5	*	3	0525	642	78.	382.5	28.6
1	0900	109	66.	352.0	27.3	*	2	0715	376	92.	459.2	31.5	*	3	0530	643	77.	382.1	28.6
1	0905	110	66.	352.8	27.3	*	2	0720	377	92.	459.3	31.5	*	3	0535	644	77.	381.6	28.5
1	0910	111	67.	353.5	27.4	*	2	0725	378	92.	459.4	31.6	*	3	0540	645	77.	381.2	28.5
1	0915	112	67.	354.3	27.4	*	2	0730	379	92.	459.6	31.6	*	3	0545	646	77.	380.7	28.5
1	0920	113	67.	355.0	27.4	*	2	0735	380	92.	459.7	31.6	*	3	0550	647	77.	380.3	28.5

1	0925	114	68.	355.7	27.4	* 2	0740	381	92.	459.8	31.6	* 3	0555	648	77.	379.8	28.5
1	0930	115	68.	356.5	27.5	* 2	0745	382	92.	459.9	31.6	* 3	0600	649	76.	379.4	28.4
1	0935	116	68.	357.2	27.5	* 2	0750	383	92.	460.0	31.6	* 3	0605	650	76.	378.9	28.4
1	0940	117	68.	357.9	27.5	* 2	0755	384	92.	460.2	31.6	* 3	0610	651	76.	378.5	28.4
1	0945	118	69.	358.7	27.6	* 2	0800	385	92.	460.3	31.6	* 3	0615	652	76.	378.0	28.4
1	0950	119	69.	359.4	27.6	* 2	0805	386	92.	460.4	31.6	* 3	0620	653	76.	377.6	28.4
1	0955	120	69.	360.1	27.6	* 2	0810	387	92.	460.5	31.6	* 3	0625	654	76.	377.1	28.4
1	1000	121	69.	360.8	27.7	* 2	0815	388	92.	460.6	31.6	* 3	0630	655	75.	376.7	28.3
1	1005	122	70.	361.5	27.7	* 2	0820	389	92.	460.7	31.6	* 3	0635	656	75.	376.3	28.3
1	1010	123	70.	362.2	27.7	* 2	0825	390	92.	460.8	31.6	* 3	0640	657	75.	375.8	28.3
1	1015	124	70.	362.9	27.8	* 2	0830	391	92.	460.9	31.6	* 3	0645	658	75.	375.4	28.3
1	1020	125	70.	363.6	27.8	* 2	0835	392	92.	461.0	31.6	* 3	0650	659	75.	375.0	28.3
1	1025	126	71.	364.3	27.8	* 2	0840	393	92.	461.1	31.6	* 3	0655	660	75.	374.5	28.2
1	1030	127	71.	365.0	27.8	* 2	0845	394	92.	461.2	31.6	* 3	0700	661	74.	374.1	28.2
1	1035	128	71.	365.7	27.9	* 2	0850	395	92.	461.2	31.6	* 3	0705	662	74.	373.7	28.2
1	1040	129	72.	366.4	27.9	* 2	0855	396	92.	461.3	31.6	* 3	0710	663	74.	373.2	28.2
1	1045	130	72.	367.1	27.9	* 2	0900	397	92.	461.4	31.6	* 3	0715	664	74.	372.8	28.2
1	1050	131	72.	367.8	28.0	* 2	0905	398	92.	461.5	31.6	* 3	0720	665	74.	372.4	28.2
1	1055	132	72.	368.4	28.0	* 2	0910	399	92.	461.6	31.6	* 3	0725	666	74.	371.9	28.1
1	1100	133	73.	369.1	28.0	* 2	0915	400	92.	461.7	31.6	* 3	0730	667	73.	371.5	28.1
1	1105	134	73.	369.8	28.0	* 2	0920	401	92.	461.7	31.6	* 3	0735	668	73.	371.1	28.1
1	1110	135	73.	370.5	28.1	* 2	0925	402	92.	461.8	31.6	* 3	0740	669	73.	370.7	28.1
1	1115	136	73.	371.1	28.1	* 2	0930	403	92.	461.9	31.6	* 3	0745	670	73.	370.2	28.1
1	1120	137	74.	371.8	28.1	* 2	0935	404	92.	461.9	31.6	* 3	0750	671	73.	369.8	28.0
1	1125	138	74.	372.5	28.2	* 2	0940	405	92.	462.0	31.6	* 3	0755	672	73.	369.4	28.0
1	1130	139	74.	373.1	28.2	* 2	0945	406	92.	462.1	31.6	* 3	0800	673	72.	369.0	28.0
1	1135	140	74.	373.8	28.2	* 2	0950	407	92.	462.1	31.6	* 3	0805	674	72.	368.6	28.0
1	1140	141	74.	374.4	28.2	* 2	0955	408	92.	462.2	31.7	* 3	0810	675	72.	368.1	28.0
1	1145	142	75.	375.1	28.3	* 2	1000	409	92.	462.3	31.7	* 3	0815	676	72.	367.7	28.0
1	1150	143	75.	375.7	28.3	* 2	1005	410	92.	462.3	31.7	* 3	0820	677	72.	367.3	27.9
1	1155	144	75.	376.3	28.3	* 2	1010	411	92.	462.4	31.7	* 3	0825	678	72.	366.9	27.9
1	1200	145	75.	377.0	28.3	* 2	1015	412	92.	462.4	31.7	* 3	0830	679	72.	366.5	27.9
1	1205	146	76.	377.6	28.4	* 2	1020	413	92.	462.5	31.7	* 3	0835	680	71.	366.1	27.9
1	1210	147	76.	378.2	28.4	* 2	1025	414	92.	462.5	31.7	* 3	0840	681	71.	365.7	27.9
1	1215	148	76.	378.9	28.4	* 2	1030	415	92.	462.6	31.7	* 3	0845	682	71.	365.2	27.8
1	1220	149	76.	379.5	28.5	* 2	1035	416	92.	462.6	31.7	* 3	0850	683	71.	364.8	27.8
1	1225	150	77.	380.1	28.5	* 2	1040	417	92.	462.7	31.7	* 3	0855	684	71.	364.4	27.8
1	1230	151	77.	380.7	28.5	* 2	1045	418	92.	462.7	31.7	* 3	0900	685	71.	364.0	27.8
1	1235	152	77.	381.4	28.5	* 2	1050	419	92.	462.8	31.7	* 3	0905	686	70.	363.6	27.8
1	1240	153	77.	382.0	28.6	* 2	1055	420	92.	462.8	31.7	* 3	0910	687	70.	363.2	27.8
1	1245	154	78.	382.6	28.6	* 2	1100	421	92.	462.8	31.7	* 3	0915	688	70.	362.8	27.7
1	1250	155	78.	383.2	28.6	* 2	1105	422	92.	462.9	31.7	* 3	0920	689	70.	362.4	27.7
1	1255	156	78.	383.8	28.6	* 2	1110	423	92.	462.9	31.7	* 3	0925	690	70.	362.0	27.7
1	1300	157	78.	384.4	28.7	* 2	1115	424	92.	462.9	31.7	* 3	0930	691	70.	361.6	27.7
1	1305	158	78.	385.0	28.7	* 2	1120	425	92.	462.9	31.7	* 3	0935	692	70.	361.2	27.7
1	1310	159	79.	385.6	28.7	* 2	1125	426	92.	463.0	31.7	* 3	0940	693	69.	360.8	27.7
1	1315	160	79.	386.2	28.7	* 2	1130	427	92.	463.0	31.7	* 3	0945	694	69.	360.4	27.6
1	1320	161	79.	386.8	28.8	* 2	1135	428	92.	463.0	31.7	* 3	0950	695	69.	360.0	27.6
1	1325	162	79.	387.3	28.8	* 2	1140	429	92.	463.0	31.7	* 3	0955	696	69.	359.6	27.6
1	1330	163	80.	387.9	28.8	* 2	1145	430	92.	463.0	31.7	* 3	1000	697	69.	359.2	27.6
1	1335	164	80.	388.5	28.8	* 2	1150	431	92.	463.0	31.7	* 3	1005	698	69.	358.8	27.6
1	1340	165	80.	389.1	28.9	* 2	1155	432	92.	463.0	31.7	* 3	1010	699	69.	358.4	27.6
1	1345	166	80.	389.6	28.9	* 2	1200	433	92.	463.0	31.7	* 3	1015	700	68.	358.0	27.5
1	1350	167	80.	390.2	28.9	* 2	1205	434	92.	463.0	31.7	* 3	1020	701	68.	357.6	27.5
1	1355	168	81.	390.8	28.9	* 2	1210	435	92.	463.0	31.7	* 3	1025	702	68.	357.2	27.5
1	1400	169	81.	391.3	29.0	* 2	1215	436	92.	463.0	31.7	* 3	1030	703	68.	356.8	27.5
1	1405	170	81.	391.9	29.0	* 2	1220	437	92.	463.0	31.7	* 3	1035	704	68.	356.5	27.5
1	1410	171	81.	392.5	29.0	* 2	1225	438	92.	463.0	31.7	* 3	1040	705	68.	356.1	27.5
1	1415	172	81.	393.0	29.0	* 2	1230	439	92.	463.0	31.7	* 3	1045	706	68.	355.7	27.4
1	1420	173	82.	393.6	29.0	* 2	1235	440	92.	463.0	31.7	* 3	1050	707	67.	355.3	27.4
1	1425	174	82.	394.1	29.1	* 2	1240	441	92.	462.9	31.7	* 3	1055	708	67.	354.9	27.4
1	1430	175	82.	394.7	29.1	* 2	1245	442	92.	462.9	31.7	* 3	1100	709	67.	354.5	27.4
1	1435	176	82.	395.2	29.1	* 2	1250	443	92.	462.9	31.7	* 3	1105	710	67.	354.1	27.4
1	1440	177	82.	395.7	29.1	* 2	1255	444	92.	462.9	31.7	* 3	1110	711	67.	353.8	27.4
1	1445	178	83.	396.3	29.2	* 2	1300	445	92.	462.8	31.7	* 3	1115	712	67.	353.4	27.3
1	1450	179	83.	396.8	29.2	* 2	1305	446	92.	462.8	31.7	* 3	1120	713	67.	353.0	27.3
1	1455	180	83.	397.3	29.2	* 2	1310	447	92.	462.8	31.7	* 3	1125	714	66.	352.6	27.3
1	1500	181	83.	397.9	29.2	* 2	1315	448	92.	462.7	31.7	* 3	1130	715	66.	352.2	27.3
1	1505	182	83.	398.4	29.3	* 2	1320	449	92.	462.7	31.7	* 3	1135	716	66.	351.9	27.3
1	1510	183	84.	398.9	29.3	* 2	1325	450	92.	462.7	31.7	* 3	1140	717	66.	351.5	27.3
1	1515	184	84.	399.4	29.3	* 2	1330	451	92.	462.6	31.7	* 3	1145	718	66.	351.1	27.3
1	1520	185	84.	400.0	29.3	* 2	1335	452	92.	462.6	31.7	* 3	1150	719	66.	350.7	27.2
1	1525	186	84.	400.5	29.3	* 2	1340	453	92.	462.5	31.7	* 3	1155	720	66.	350.4	27.2
1	1530	187	84.	401.0	29.4	* 2	1345	454	92.	462.5	31.7	* 3	1200	721	65.	350.0	27.2
1	1535	188	85.	401.5	29.4	* 2	1350	455	92.	462.4	31.7	* 3	1205	722	65.	349.6	27.2
1	1540	189	85.	402.0	29.4	* 2	1355	456	92.	462.4	31.7	* 3	1210	723	65.	349.3	27.2
1	1545	190	85.	402.5	29.4	* 2	1400	457	92.	462.3	31.7	* 3	1215	724	65.	348.9	27.2
1	1550	191	85.	403.0	29.4	* 2	1405	458	92.	462.2	31.7	* 3	1220	725	65.	348.5	27.1
1	1555	192	85.	403.5	29.5	* 2	1410	459	92.	462.2	31.6	* 3	1225	726	65.	348.1	27.1
1	1600	193	86.	404.0	29.5	* 2	1415	460	92.	462.1	31.6	* 3	1230	727	65.	347.8	27.1
1	1605	194	86.	404.5	29.5	* 2	1420	461	92.	462.0	31.6	* 3	1235	728	64.	347.4	27.1
1	1610	195	86.	405.0	29.5	* 2	1425	462	92.	461.9	31.6	* 3	1240	729	64.	347.0	27.1
1	1615	196	86.	405.5	29.6	* 2	1430	463	92.	461.9	31.6	* 3	1245	730	64.	346.7	27.1
1	1620	197	86.	405.9	29.6	* 2	1435	464	92.	461.8	31.6	* 3	1250	731	64.	346.3	27.0
1	1625	198	86.	406.4	29.6	* 2	1440	465	92.	461.7	31.6	* 3	1255	732	64.	346.0	27.0
1	1630	199	87.	406.9	29.6	* 2	1445	466	92.	461.6	31.6	* 3	1300	733	64.	345.6	27.0
1	1635	200	87.	407.4	29.6	* 2	1450	467	92.	461.5	31.6	* 3	1305	734	64.	345.2	27.0
1	1640	201	87.	407.8	29.7	* 2	1455	468	92.	461.3	31.6	* 3	1310	735	63.	344.9	27.0
1	1645	202	87.	408.3	29.7	* 2	1500	469	92.	461.2	31.6	* 3	1315	736	63.	344.5	27.0
1	1650	203	87.	408.8	29.7	* 2	1505	470	92.	461.1	31.6	* 3	1320	737	63.	344.2	27.0
1	1655	204	87.	409.2	29.7	* 2	1510	471	92.	461.0	31.6	* 3	1325	738	63.	343.8	26.9
1	1700	205	88.	409.7	29.7	* 2	1515	472	92.	460.9	31.6	* 3	1330	739	63.	343.4	26.9
1	1705	206	88.	410.2	29.8	* 2	1520	473	92.	460.7	31.6	* 3	1335	740	63.	343.1	26.9
1	1710	207	88.	410.6	29.8	* 2	1525	474	92.	460.6	31.6	* 3	1340	741	63.	342.7	26.9
1	1715	208	88.	411.1	29.8	* 2	1530	475	92.	460.5	31.6	* 3	1345	742	63.	342.4	26.9

1	1720	209	88.	411.5	29.8	2	1535	476	92.	460.3	31.6	3	1350	743	62.	342.0	26.9
1	1725	210	88.	412.0	29.8	2	1540	477	92.	460.2	31.6	3	1355	744	62.	341.7	26.9
1	1730	211	89.	412.4	29.8	2	1545	478	92.	460.0	31.6	3	1400	745	62.	341.3	26.8
1	1735	212	89.	412.8	29.9	2	1550	479	92.	459.9	31.6	3	1405	746	62.	341.0	26.8
1	1740	213	89.	413.3	29.9	2	1555	480	92.	459.7	31.6	3	1410	747	62.	340.6	26.8
1	1745	214	89.	413.7	29.9	2	1600	481	92.	459.5	31.6	3	1415	748	62.	340.3	26.8
1	1750	215	89.	414.1	29.9	2	1605	482	92.	459.4	31.5	3	1420	749	62.	339.9	26.8
1	1755	216	89.	414.6	29.9	2	1610	483	92.	459.2	31.5	3	1425	750	62.	339.6	26.8
1	1800	217	90.	415.0	30.0	2	1615	484	92.	459.0	31.5	3	1430	751	61.	339.2	26.7
1	1805	218	90.	415.4	30.0	2	1620	485	92.	458.9	31.5	3	1435	752	61.	338.9	26.7
1	1810	219	90.	415.9	30.0	2	1625	486	92.	458.7	31.5	3	1440	753	61.	338.6	26.7
1	1815	220	90.	416.3	30.0	2	1630	487	92.	458.5	31.5	3	1445	754	61.	338.2	26.7
1	1820	221	90.	416.7	30.0	2	1635	488	92.	458.3	31.5	3	1450	755	61.	337.9	26.7
1	1825	222	90.	417.1	30.0	2	1640	489	92.	458.0	31.5	3	1455	756	61.	337.5	26.7
1	1830	223	90.	417.5	30.1	2	1645	490	92.	457.8	31.5	3	1500	757	61.	337.2	26.7
1	1835	224	90.	417.9	30.1	2	1650	491	92.	457.6	31.5	3	1505	758	60.	336.9	26.6
1	1840	225	90.	418.3	30.1	2	1655	492	92.	457.3	31.5	3	1510	759	60.	336.5	26.6
1	1845	226	90.	418.7	30.1	2	1700	493	92.	457.0	31.5	3	1515	760	60.	336.2	26.6
1	1850	227	90.	419.2	30.1	2	1705	494	92.	456.7	31.5	3	1520	761	60.	335.8	26.6
1	1855	228	90.	419.6	30.1	2	1710	495	92.	456.5	31.4	3	1525	762	60.	335.5	26.6
1	1900	229	90.	420.0	30.1	2	1715	496	92.	456.1	31.4	3	1530	763	60.	335.2	26.6
1	1905	230	90.	420.4	30.2	2	1720	497	92.	455.8	31.4	3	1535	764	60.	334.8	26.6
1	1910	231	90.	420.8	30.2	2	1725	498	92.	455.5	31.4	3	1540	765	60.	334.5	26.5
1	1915	232	90.	421.2	30.2	2	1730	499	92.	455.2	31.4	3	1545	766	59.	334.2	26.5
1	1920	233	90.	421.6	30.2	2	1735	500	92.	454.8	31.4	3	1550	767	59.	333.8	26.5
1	1925	234	90.	422.0	30.2	2	1740	501	92.	454.5	31.4	3	1555	768	59.	333.5	26.5
1	1930	235	90.	422.3	30.2	2	1745	502	92.	454.1	31.4	3	1600	769	59.	333.2	26.5
1	1935	236	90.	422.7	30.2	2	1750	503	92.	453.8	31.3	3	1605	770	59.	332.8	26.5
1	1940	237	90.	423.1	30.3	2	1755	504	92.	453.4	31.3	3	1610	771	59.	332.5	26.5
1	1945	238	90.	423.5	30.3	2	1800	505	92.	453.0	31.3	3	1615	772	59.	332.2	26.4
1	1950	239	90.	423.9	30.3	2	1805	506	92.	452.6	31.3	3	1620	773	59.	331.9	26.4
1	1955	240	90.	424.3	30.3	2	1810	507	92.	452.2	31.3	3	1625	774	59.	331.5	26.4
1	2000	241	90.	424.7	30.3	2	1815	508	92.	451.7	31.3	3	1630	775	58.	331.2	26.4
1	2005	242	90.	425.0	30.3	2	1820	509	92.	451.3	31.3	3	1635	776	58.	330.9	26.4
1	2010	243	90.	425.4	30.3	2	1825	510	92.	450.8	31.2	3	1640	777	58.	330.6	26.4
1	2015	244	90.	425.8	30.3	2	1830	511	92.	450.3	31.2	3	1645	778	58.	330.2	26.4
1	2020	245	91.	426.2	30.4	2	1835	512	92.	449.8	31.2	3	1650	779	58.	329.9	26.4
1	2025	246	91.	426.5	30.4	2	1840	513	92.	449.2	31.2	3	1655	780	58.	329.6	26.3
1	2030	247	91.	426.9	30.4	2	1845	514	92.	448.7	31.2	3	1700	781	58.	329.3	26.3
1	2035	248	91.	427.3	30.4	2	1850	515	92.	448.2	31.1	3	1705	782	58.	329.0	26.3
1	2040	249	91.	427.6	30.4	2	1855	516	92.	447.7	31.1	3	1710	783	57.	328.6	26.3
1	2045	250	91.	428.0	30.4	2	1900	517	92.	447.1	31.1	3	1715	784	57.	328.3	26.3
1	2050	251	91.	428.4	30.4	2	1905	518	92.	446.6	31.1	3	1720	785	57.	328.0	26.3
1	2055	252	91.	428.7	30.5	2	1910	519	92.	446.1	31.1	3	1725	786	57.	327.7	26.3
1	2100	253	91.	429.1	30.5	2	1915	520	91.	445.5	31.1	3	1730	787	57.	327.4	26.2
1	2105	254	91.	429.5	30.5	2	1920	521	91.	445.0	31.0	3	1735	788	57.	327.1	26.2
1	2110	255	91.	429.8	30.5	2	1925	522	91.	444.4	31.0	3	1740	789	57.	326.7	26.2
1	2115	256	91.	430.2	30.5	2	1930	523	91.	443.9	31.0	3	1745	790	57.	326.4	26.2
1	2120	257	91.	430.5	30.5	2	1935	524	91.	443.3	31.0	3	1750	791	56.	326.1	26.2
1	2125	258	91.	430.9	30.5	2	1940	525	91.	442.8	31.0	3	1755	792	56.	325.8	26.2
1	2130	259	91.	431.2	30.5	2	1945	526	91.	442.2	30.9	3	1800	793	56.	325.5	26.2
1	2135	260	91.	431.6	30.6	2	1950	527	91.	441.7	30.9	3	1805	794	56.	325.2	26.2
1	2140	261	91.	431.9	30.6	2	1955	528	91.	441.2	30.9	3	1810	795	56.	324.9	26.1
1	2145	262	91.	432.3	30.6	2	2000	529	91.	440.6	30.9	3	1815	796	56.	324.6	26.1
1	2150	263	91.	432.6	30.6	2	2005	530	91.	440.1	30.9	3	1820	797	56.	324.3	26.1
1	2155	264	91.	432.9	30.6	2	2010	531	91.	439.5	30.8	3	1825	798	56.	324.0	26.1
1	2200	265	91.	433.3	30.6	2	2015	532	91.	439.0	30.8	3	1830	799	56.	323.6	26.1
1	2205	266	91.	433.6	30.6	2	2020	533	91.	438.4	30.8	3	1835	800	55.	323.3	26.1
1	2210	267	91.	433.9	30.6	2	2025	534	91.	437.9	30.8						

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	66.58-HR
(CFS)	(HR)					
		(CFS)				
92.	35.92		92.	92.	77.	77.
		(INCHES)	.082	.326	.756	.756
		(AC-FT)	46.	182.	422.	422.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	66.58-HR
(AC-FT)	(HR)					
463.	36.00		462.	453.	380.	380.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	66.58-HR
(FEET)	(HR)					
31.68	36.00		31.66	31.31	27.89	27.89

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	.0	1	2215		268	90.	424.7	30.3	2	2030		535	90.	419.8	30.1
1	0005		2	0.	.0	.0	1	2220		269	90.	425.0	30.3	2	2035		536	90.	419.3	30.1
1	0010		3	0.	.0	.0	1	2225		270	90.	425.3	30.3	2	2040		537	90.	418.7	30.1

1	0015	4	0.	.0	.0	*	1	2230	271	90.	425.6	30.3	*	2	2045	538	90.	418.2	30.1
1	0020	5	0.	.0	.0	*	1	2235	272	90.	425.9	30.4	*	2	2050	539	90.	417.6	30.1
1	0025	6	0.	.0	.0	*	1	2240	273	91.	426.2	30.4	*	2	2055	540	90.	417.1	30.0
1	0030	7	0.	.1	.0	*	1	2245	274	91.	426.5	30.4	*	2	2100	541	90.	416.5	30.0
1	0035	8	0.	.3	.1	*	1	2250	275	91.	426.8	30.4	*	2	2105	542	90.	416.0	30.0
1	0040	9	1.	.5	.2	*	1	2255	276	91.	427.1	30.4	*	2	2110	543	90.	415.5	30.0
1	0045	10	1.	.7	.2	*	1	2300	277	91.	427.4	30.4	*	2	2115	544	90.	414.9	30.0
1	0050	11	1.	.8	.3	*	1	2305	278	91.	427.7	30.4	*	2	2120	545	89.	414.4	29.9
1	0055	12	1.	1.0	.3	*	1	2310	279	91.	428.0	30.4	*	2	2125	546	89.	413.9	29.9
1	0100	13	2.	1.1	.4	*	1	2315	280	91.	428.3	30.4	*	2	2130	547	89.	413.3	29.9
1	0105	14	2.	1.3	.4	*	1	2320	281	91.	428.6	30.5	*	2	2135	548	89.	412.8	29.9
1	0110	15	2.	1.5	.5	*	1	2325	282	91.	428.9	30.5	*	2	2140	549	89.	412.3	29.8
1	0115	16	2.	1.7	.6	*	1	2330	283	91.	429.2	30.5	*	2	2145	550	88.	411.7	29.8
1	0120	17	3.	2.0	.7	*	1	2335	284	91.	429.5	30.5	*	2	2150	551	88.	411.2	29.8
1	0125	18	3.	2.3	.8	*	1	2340	285	91.	429.8	30.5	*	2	2155	552	88.	410.7	29.8
1	0130	19	4.	2.7	.9	*	1	2345	286	91.	430.1	30.5	*	2	2200	553	88.	410.1	29.8
1	0135	20	5.	3.3	1.1	*	1	2350	287	91.	430.3	30.5	*	2	2205	554	88.	409.6	29.7
1	0140	21	6.	4.0	1.3	*	1	2355	288	91.	430.6	30.5	*	2	2210	555	87.	409.1	29.7
1	0145	22	7.	4.9	1.6	*	2	0000	289	91.	430.9	30.5	*	2	2215	556	87.	408.6	29.7
1	0150	23	8.	5.8	1.9	*	2	0005	290	91.	431.2	30.5	*	2	2220	557	87.	408.0	29.7
1	0155	24	9.	6.7	2.2	*	2	0010	291	91.	431.4	30.6	*	2	2225	558	87.	407.5	29.6
1	0200	25	11.	7.5	2.5	*	2	0015	292	91.	431.7	30.6	*	2	2230	559	87.	407.0	29.6
1	0205	26	12.	8.3	2.8	*	2	0020	293	91.	432.0	30.6	*	2	2235	560	86.	406.5	29.6
1	0210	27	13.	9.0	3.0	*	2	0025	294	91.	432.3	30.6	*	2	2240	561	86.	406.0	29.6
1	0215	28	14.	9.8	3.3	*	2	0030	295	91.	432.5	30.6	*	2	2245	562	86.	405.5	29.6
1	0220	29	15.	10.9	3.6	*	2	0035	296	91.	432.8	30.6	*	2	2250	563	86.	404.9	29.5
1	0225	30	17.	12.2	4.1	*	2	0040	297	91.	433.0	30.6	*	2	2255	564	86.	404.4	29.5
1	0230	31	19.	13.7	4.6	*	2	0045	298	91.	433.3	30.6	*	2	2300	565	85.	403.9	29.5
1	0235	32	21.	15.3	5.1	*	2	0050	299	91.	433.6	30.6	*	2	2305	566	85.	403.4	29.5
1	0240	33	22.	16.8	5.4	*	2	0055	300	91.	433.8	30.6	*	2	2310	567	85.	402.9	29.4
1	0245	34	22.	18.4	5.8	*	2	0100	301	91.	434.1	30.6	*	2	2315	568	85.	402.4	29.4
1	0250	35	23.	20.1	6.2	*	2	0105	302	91.	434.3	30.7	*	2	2320	569	85.	401.9	29.4
1	0255	36	24.	21.8	6.6	*	2	0110	303	91.	434.6	30.7	*	2	2325	570	85.	401.4	29.4
1	0300	37	24.	23.5	6.9	*	2	0115	304	91.	434.8	30.7	*	2	2330	571	84.	400.9	29.4
1	0305	38	25.	25.2	7.3	*	2	0120	305	91.	435.1	30.7	*	2	2335	572	84.	400.4	29.3
1	0310	39	26.	27.6	7.9	*	2	0125	306	91.	435.3	30.7	*	2	2340	573	84.	399.9	29.3
1	0315	40	28.	31.2	8.7	*	2	0130	307	91.	435.6	30.7	*	2	2345	574	84.	399.4	29.3
1	0320	41	30.	37.2	10.0	*	2	0135	308	91.	435.8	30.7	*	2	2350	575	84.	398.9	29.3
1	0325	42	31.	47.3	11.0	*	2	0140	309	91.	436.1	30.7	*	2	2355	576	83.	398.4	29.3
1	0330	43	33.	63.1	12.5	*	2	0145	310	91.	436.3	30.7	*	3	0000	577	83.	397.9	29.2
1	0335	44	36.	84.5	14.5	*	2	0150	311	91.	436.5	30.7	*	3	0005	578	83.	397.4	29.2
1	0340	45	38.	108.8	16.2	*	2	0155	312	91.	436.8	30.7	*	3	0010	579	83.	396.9	29.2
1	0345	46	40.	132.9	17.7	*	2	0200	313	91.	437.0	30.7	*	3	0015	580	83.	396.4	29.2
1	0350	47	41.	154.6	19.0	*	2	0205	314	91.	437.2	30.8	*	3	0020	581	83.	395.9	29.1
1	0355	48	42.	172.8	20.1	*	2	0210	315	91.	437.5	30.8	*	3	0025	582	82.	395.4	29.1
1	0400	49	43.	187.6	20.7	*	2	0215	316	91.	437.7	30.8	*	3	0030	583	82.	395.0	29.1
1	0405	50	43.	199.7	21.2	*	2	0220	317	91.	437.9	30.8	*	3	0035	584	82.	394.5	29.1
1	0410	51	43.	209.6	21.5	*	2	0225	318	91.	438.1	30.8	*	3	0040	585	82.	394.0	29.1
1	0415	52	43.	217.5	21.9	*	2	0230	319	91.	438.4	30.8	*	3	0045	586	82.	393.5	29.0
1	0420	53	44.	224.0	22.1	*	2	0235	320	91.	438.6	30.8	*	3	0050	587	81.	393.0	29.0
1	0425	54	44.	229.6	22.3	*	2	0240	321	91.	438.8	30.8	*	3	0055	588	81.	392.5	29.0
1	0430	55	44.	235.0	22.5	*	2	0245	322	91.	439.0	30.8	*	3	0100	589	81.	392.1	29.0
1	0435	56	44.	240.6	22.8	*	2	0250	323	91.	439.2	30.8	*	3	0105	590	81.	391.6	29.0
1	0440	57	44.	246.8	23.0	*	2	0255	324	91.	439.4	30.8	*	3	0110	591	81.	391.1	28.9
1	0445	58	45.	253.4	23.3	*	2	0300	325	91.	439.6	30.8	*	3	0115	592	81.	390.6	28.9
1	0450	59	45.	260.2	23.5	*	2	0305	326	91.	439.9	30.9	*	3	0120	593	80.	390.1	28.9
1	0455	60	45.	267.1	23.8	*	2	0310	327	91.	440.1	30.9	*	3	0125	594	80.	389.7	28.9
1	0500	61	45.	273.8	24.1	*	2	0315	328	91.	440.3	30.9	*	3	0130	595	80.	389.2	28.9
1	0505	62	45.	280.0	24.3	*	2	0320	329	91.	440.5	30.9	*	3	0135	596	80.	388.7	28.8
1	0510	63	46.	285.4	24.5	*	2	0325	330	91.	440.7	30.9	*	3	0140	597	80.	388.3	28.8
1	0515	64	46.	290.0	24.7	*	2	0330	331	91.	440.9	30.9	*	3	0145	598	79.	387.8	28.8
1	0520	65	46.	293.8	24.8	*	2	0335	332	91.	441.1	30.9	*	3	0150	599	79.	387.3	28.8
1	0525	66	46.	296.9	25.0	*	2	0340	333	91.	441.3	30.9	*	3	0155	600	79.	386.8	28.8
1	0530	67	47.	299.5	25.1	*	2	0345	334	91.	441.5	30.9	*	3	0200	601	79.	386.4	28.7
1	0535	68	47.	301.8	25.2	*	2	0350	335	91.	441.6	30.9	*	3	0205	602	79.	385.9	28.7
1	0540	69	48.	303.8	25.2	*	2	0355	336	91.	441.8	30.9	*	3	0210	603	79.	385.5	28.7
1	0545	70	49.	305.5	25.3	*	2	0400	337	91.	442.0	30.9	*	3	0215	604	78.	385.0	28.7
1	0550	71	49.	307.2	25.4	*	2	0405	338	91.	442.2	30.9	*	3	0220	605	78.	384.5	28.7
1	0555	72	50.	308.8	25.5	*	2	0410	339	91.	442.4	30.9	*	3	0225	606	78.	384.1	28.6
1	0600	73	51.	310.3	25.5	*	2	0415	340	91.	442.6	30.9	*	3	0230	607	78.	383.6	28.6
1	0605	74	51.	311.8	25.6	*	2	0420	341	91.	442.7	31.0	*	3	0235	608	78.	383.2	28.6
1	0610	75	52.	313.1	25.6	*	2	0425	342	91.	442.9	31.0	*	3	0240	609	78.	382.7	28.6
1	0615	76	52.	314.4	25.7	*	2	0430	343	91.	443.1	31.0	*	3	0245	610	77.	382.2	28.6
1	0620	77	53.	315.5	25.7	*	2	0435	344	91.	443.3	31.0	*	3	0250	611	77.	381.8	28.6
1	0625	78	53.	316.6	25.8	*	2	0440	345	91.	443.4	31.0	*	3	0255	612	77.	381.3	28.5
1	0630	79	53.	317.6	25.8	*	2	0445	346	91.	443.6	31.0	*	3	0300	613	77.	380.9	28.5
1	0635	80	54.	318.5	25.9	*	2	0450	347	91.	443.8	31.0	*	3	0305	614	77.	380.4	28.5
1	0640	81	54.	319.5	25.9	*	2	0455	348	91.	443.9	31.0	*	3	0310	615	77.	380.0	28.5
1	0645	82	54.	320.4	25.9	*	2	0500	349	91.	444.1	31.0	*	3	0315	616	76.	379.5	28.5
1	0650	83	55.	321.2	26.0	*	2	0505	350	91.	444.3	31.0	*	3	0320	617	76.	379.1	28.4
1	0655	84	55.	322.1	26.0	*	2	0510	351	91.	444.4	31.0	*	3	0325	618	76.	378.6	28.4
1	0700	85	55.	322.9	26.1	*	2	0515	352	91.	444.6	31.0	*	3	0330	619	76.	378.2	28.4
1	0705	86	56.	323.8	26.1	*	2	0520	353	91.	444.7	31.0	*	3	0335	620	76.	377.7	28.4
1	0710	87	56.	324.6	26.1	*	2	0525	354	91.	444.9	31.0	*	3	0340	621	76.	377.3	28.4
1	0715	88	56.	325.5	26.2	*	2	0530	355	91.	445.1	31.0	*	3	0345	622	75.	376.9	28.3
1	0720	89	57.	326.3	26.2	*	2	0535	356	91.	445.2	31.0	*	3	0350	623	75.	376.4	28.3
1	0725	90	57.	327.1	26.2	*	2	0540	357	91.	445.4	31.0	*	3	0355	624	75.	376.0	28.3
1	0730	91	57.	328.0	26.3	*	2	0545	358	91.	445.5	31.1	*	3	0400	625	75.	375.5	28.3
1	0735	92	57.	328.8	26.3	*	2	0550	359	91.	445.6	31.1	*	3	0405	626	75.	375.1	28.3
1	0740	93	58.	329.6	26.3	*	2	0555	360	91.	445.8	31.1	*	3	0410	627	75.	374.7	28.2
1	0745	94	58.	330.4	26.4	*	2	0600	361	91.	445.9	31.1	*	3	0415	628	74.	374.2	28.2
1	0750	95	58.	331.2	26.4	*	2	0605	362	92.	446.1	31.1	*	3	0420	629	74.	373.8	28.2
1	0755	96	59.	332.0	26.4	*	2	0610	363	92.	446.2	31.1	*	3	0425	630	74.	373.4	28.2
1	0800	97	59.	332.8	26.5	*	2	0615	364	92.	446.3	31.1	*	3	0430	631	74.	372.9	28.2
1	0805	98	59.	333.6	26.5	*	2	0620	365	92.	446.5	31.1	*	3	0435	632	74.	372.5	28.2

1	0810 99	60.	334.4	26.5 *	2	0625 366	92.	446.6	31.1 *	3	0440 633	74.	372.1	28.1
1	0815 100	60.	335.2	26.6 *	2	0630 367	92.	446.7	31.1 *	3	0445 634	73.	371.6	28.1
1	0820 101	60.	336.0	26.6 *	2	0635 368	92.	446.9	31.1 *	3	0450 635	73.	371.2	28.1
1	0825 102	60.	336.8	26.6 *	2	0640 369	92.	447.0	31.1 *	3	0455 636	73.	370.8	28.1
1	0830 103	61.	337.6	26.7 *	2	0645 370	92.	447.1	31.1 *	3	0500 637	73.	370.4	28.1
1	0835 104	61.	338.4	26.7 *	2	0650 371	92.	447.2	31.1 *	3	0505 638	73.	369.9	28.0
1	0840 105	61.	339.2	26.7 *	2	0655 372	92.	447.3	31.1 *	3	0510 639	73.	369.5	28.0
1	0845 106	62.	339.9	26.8 *	2	0700 373	92.	447.5	31.1 *	3	0515 640	73.	369.1	28.0
1	0850 107	62.	340.7	26.8 *	2	0705 374	92.	447.6	31.1 *	3	0520 641	72.	368.7	28.0
1	0855 108	62.	341.5	26.8 *	2	0710 375	92.	447.7	31.1 *	3	0525 642	72.	368.2	28.0
1	0900 109	62.	342.2	26.9 *	2	0715 376	92.	447.8	31.1 *	3	0530 643	72.	367.8	28.0
1	0905 110	63.	343.0	26.9 *	2	0720 377	92.	447.9	31.1 *	3	0535 644	72.	367.4	27.9
1	0910 111	63.	343.7	26.9 *	2	0725 378	92.	448.0	31.1 *	3	0540 645	72.	367.0	27.9
1	0915 112	63.	344.5	27.0 *	2	0730 379	92.	448.1	31.1 *	3	0545 646	72.	366.6	27.9
1	0920 113	64.	345.2	27.0 *	2	0735 380	92.	448.2	31.2 *	3	0550 647	71.	366.2	27.9
1	0925 114	64.	346.0	27.0 *	2	0740 381	92.	448.3	31.2 *	3	0555 648	71.	365.7	27.9
1	0930 115	64.	346.7	27.1 *	2	0745 382	92.	448.4	31.2 *	3	0600 649	71.	365.3	27.9
1	0935 116	64.	347.5	27.1 *	2	0750 383	92.	448.5	31.2 *	3	0605 650	71.	364.9	27.8
1	0940 117	65.	348.2	27.1 *	2	0755 384	92.	448.6	31.2 *	3	0610 651	71.	364.5	27.8
1	0945 118	65.	348.9	27.2 *	2	0800 385	92.	448.7	31.2 *	3	0615 652	71.	364.1	27.8
1	0950 119	65.	349.7	27.2 *	2	0805 386	92.	448.8	31.2 *	3	0620 653	70.	363.7	27.8
1	0955 120	66.	350.4	27.2 *	2	0810 387	92.	448.9	31.2 *	3	0625 654	70.	363.3	27.8
1	1000 121	66.	351.1	27.3 *	2	0815 388	92.	449.0	31.2 *	3	0630 655	70.	362.9	27.7
1	1005 122	66.	351.8	27.3 *	2	0820 389	92.	449.0	31.2 *	3	0635 656	70.	362.5	27.7
1	1010 123	66.	352.5	27.3 *	2	0825 390	92.	449.1	31.2 *	3	0640 657	70.	362.1	27.7
1	1015 124	67.	353.3	27.3 *	2	0830 391	92.	449.2	31.2 *	3	0645 658	70.	361.7	27.7
1	1020 125	67.	354.0	27.4 *	2	0835 392	92.	449.3	31.2 *	3	0650 659	70.	361.3	27.7
1	1025 126	67.	354.7	27.4 *	2	0840 393	92.	449.3	31.2 *	3	0655 660	69.	360.9	27.7
1	1030 127	67.	355.4	27.4 *	2	0845 394	92.	449.4	31.2 *	3	0700 661	69.	360.5	27.6
1	1035 128	68.	356.1	27.5 *	2	0850 395	92.	449.5	31.2 *	3	0705 662	69.	360.1	27.6
1	1040 129	68.	356.8	27.5 *	2	0855 396	92.	449.6	31.2 *	3	0710 663	69.	359.7	27.6
1	1045 130	68.	357.5	27.5 *	2	0900 397	92.	449.6	31.2 *	3	0715 664	69.	359.3	27.6
1	1050 131	68.	358.2	27.5 *	2	0905 398	92.	449.7	31.2 *	3	0720 665	69.	358.9	27.6
1	1055 132	69.	358.8	27.6 *	2	0910 399	92.	449.8	31.2 *	3	0725 666	69.	358.5	27.6
1	1100 133	69.	359.5	27.6 *	2	0915 400	92.	449.8	31.2 *	3	0730 667	68.	358.1	27.5
1	1105 134	69.	360.2	27.6 *	2	0920 401	92.	449.9	31.2 *	3	0735 668	68.	357.7	27.5
1	1110 135	69.	360.9	27.7 *	2	0925 402	92.	449.9	31.2 *	3	0740 669	68.	357.3	27.5
1	1115 136	70.	361.6	27.7 *	2	0930 403	92.	450.0	31.2 *	3	0745 670	68.	356.9	27.5
1	1120 137	70.	362.2	27.7 *	2	0935 404	92.	450.0	31.2 *	3	0750 671	68.	356.5	27.5
1	1125 138	70.	362.9	27.7 *	2	0940 405	92.	450.1	31.2 *	3	0755 672	68.	356.1	27.5
1	1130 139	70.	363.6	27.8 *	2	0945 406	92.	450.1	31.2 *	3	0800 673	68.	355.7	27.4
1	1135 140	71.	364.2	27.8 *	2	0950 407	92.	450.2	31.2 *	3	0805 674	67.	355.3	27.4
1	1140 141	71.	364.9	27.8 *	2	0955 408	92.	450.2	31.2 *	3	0810 675	67.	355.0	27.4
1	1145 142	71.	365.5	27.9 *	2	1000 409	92.	450.3	31.2 *	3	0815 676	67.	354.6	27.4
1	1150 143	71.	366.2	27.9 *	2	1005 410	92.	450.3	31.2 *	3	0820 677	67.	354.2	27.4
1	1155 144	72.	366.8	27.9 *	2	1010 411	92.	450.3	31.2 *	3	0825 678	67.	353.8	27.4
1	1200 145	72.	367.5	27.9 *	2	1015 412	92.	450.4	31.2 *	3	0830 679	67.	353.4	27.3
1	1205 146	72.	368.1	28.0 *	2	1020 413	92.	450.4	31.2 *	3	0835 680	67.	353.0	27.3
1	1210 147	72.	368.7	28.0 *	2	1025 414	92.	450.4	31.2 *	3	0840 681	66.	352.7	27.3
1	1215 148	73.	369.4	28.0 *	2	1030 415	92.	450.5	31.2 *	3	0845 682	66.	352.3	27.3
1	1220 149	73.	370.0	28.1 *	2	1035 416	92.	450.5	31.2 *	3	0850 683	66.	351.9	27.3
1	1225 150	73.	370.6	28.1 *	2	1040 417	92.	450.5	31.2 *	3	0855 684	66.	351.5	27.3
1	1230 151	73.	371.3	28.1 *	2	1045 418	92.	450.5	31.2 *	3	0900 685	66.	351.1	27.3
1	1235 152	74.	371.9	28.1 *	2	1050 419	92.	450.5	31.2 *	3	0905 686	66.	350.8	27.2
1	1240 153	74.	372.5	28.2 *	2	1055 420	92.	450.5	31.2 *	3	0910 687	66.	350.4	27.2
1	1245 154	74.	373.1	28.2 *	2	1100 421	92.	450.6	31.2 *	3	0915 688	65.	350.0	27.2
1	1250 155	74.	373.7	28.2 *	2	1105 422	92.	450.6	31.2 *	3	0920 689	65.	349.6	27.2
1	1255 156	74.	374.3	28.2 *	2	1110 423	92.	450.6	31.2 *	3	0925 690	65.	349.3	27.2
1	1300 157	75.	375.0	28.3 *	2	1115 424	92.	450.6	31.2 *	3	0930 691	65.	348.9	27.2
1	1305 158	75.	375.6	28.3 *	2	1120 425	92.	450.6	31.2 *	3	0935 692	65.	348.5	27.1
1	1310 159	75.	376.2	28.3 *	2	1125 426	92.	450.6	31.2 *	3	0940 693	65.	348.2	27.1
1	1315 160	75.	376.8	28.3 *	2	1130 427	92.	450.6	31.2 *	3	0945 694	65.	347.8	27.1
1	1320 161	76.	377.3	28.4 *	2	1135 428	92.	450.6	31.2 *	3	0950 695	64.	347.4	27.1
1	1325 162	76.	377.9	28.4 *	2	1140 429	92.	450.5	31.2 *	3	0955 696	64.	347.1	27.1
1	1330 163	76.	378.5	28.4 *	2	1145 430	92.	450.5	31.2 *	3	1000 697	64.	346.7	27.1
1	1335 164	76.	379.1	28.4 *	2	1150 431	92.	450.5	31.2 *	3	1005 698	64.	346.3	27.0
1	1340 165	76.	379.7	28.5 *	2	1155 432	92.	450.5	31.2 *	3	1010 699	64.	346.0	27.0
1	1345 166	77.	380.3	28.5 *	2	1200 433	92.	450.5	31.2 *	3	1015 700	64.	345.6	27.0
1	1350 167	77.	380.9	28.5 *	2	1205 434	92.	450.4	31.2 *	3	1020 701	64.	345.2	27.0
1	1355 168	77.	381.4	28.5 *	2	1210 435	92.	450.4	31.2 *	3	1025 702	63.	344.9	27.0
1	1400 169	77.	382.0	28.6 *	2	1215 436	92.	450.4	31.2 *	3	1030 703	63.	344.5	27.0
1	1405 170	78.	382.6	28.6 *	2	1220 437	92.	450.4	31.2 *	3	1035 704	63.	344.2	27.0
1	1410 171	78.	383.1	28.6 *	2	1225 438	92.	450.3	31.2 *	3	1040 705	63.	343.8	26.9
1	1415 172	78.	383.7	28.6 *	2	1230 439	92.	450.3	31.2 *	3	1045 706	63.	343.4	26.9
1	1420 173	78.	384.2	28.7 *	2	1235 440	92.	450.3	31.2 *	3	1050 707	63.	343.1	26.9
1	1425 174	78.	384.8	28.7 *	2	1240 441	92.	450.2	31.2 *	3	1055 708	63.	342.7	26.9
1	1430 175	79.	385.4	28.7 *	2	1245 442	92.	450.2	31.2 *	3	1100 709	63.	342.4	26.9
1	1435 176	79.	385.9	28.7 *	2	1250 443	92.	450.1	31.2 *	3	1105 710	62.	342.0	26.9
1	1440 177	79.	386.4	28.7 *	2	1255 444	92.	450.1	31.2 *	3	1110 711	62.	341.7	26.9
1	1445 178	79.	387.0	28.8 *	2	1300 445	92.	450.0	31.2 *	3	1115 712	62.	341.3	26.8
1	1450 179	79.	387.5	28.8 *	2	1305 446	92.	450.0	31.2 *	3	1120 713	62.	341.0	26.8
1	1455 180	80.	388.1	28.8 *	2	1310 447	92.	449.9	31.2 *	3	1125 714	62.	340.6	26.8
1	1500 181	80.	388.6	28.8 *	2	1315 448	92.	449.9	31.2 *	3	1130 715	62.	340.3	26.8
1	1505 182	80.	389.1	28.9 *	2	1320 449	92.	449.8	31.2 *	3	1135 716	62.	339.9	26.8
1	1510 183	80.	389.7	28.9 *	2	1325 450	92.	449.7	31.2 *	3	1140 717	61.	339.6	26.8
1	1515 184	80.	390.2	28.9 *	2	1330 451	92.	449.6	31.2 *	3	1145 718	61.	339.2	26.7
1	1520 185	81.	390.7	28.9 *	2	1335 452	92.	449.6	31.2 *	3	1150 719	61.	338.9	26.7
1	1525 186	81.	391.2	29.0 *	2	1340 453	92.	449.5	31.2 *	3	1155 720	61.	338.5	26.7
1	1530 187	81.	391.7	29.0 *	2	1345 454	92.	449.4	31.2 *	3	1200 721	61.	338.2	26.7
1	1535 188	81.	392.3	29.0 *	2	1350 455	92.	449.3	31.2 *	3	1205 722	61.	337.8	26.7
1	1540 189	81.	392.8	29.0 *	2	1355 456	92.	449.2	31.2 *	3	1210 723	61.	337.5	26.7
1	1545 190	82.	393.3	29.0 *	2	1400 457	92.	449.1	31.2 *	3	1215 724	61.	337.2	26.7
1	1550 191	82.	393.8	29.1 *	2	1405 458	92.	449.0	31.2 *	3	1220 725	60.	336.8	26.6
1	1555 192	82.	394.3	29.1 *	2	1410 459	92.	448.9	31.2 *	3	1225 726	60.	336.5	26.6
1	1600 193	82.	394.8	29.1 *	2	1415 460	92.	448.8	31.2 *	3	1230 727	60.	336.1	26.6

1	1605	194	82.	395.3	29.1	*	2	1420	461	92.	448.6	31.2	*	3	1235	728	60.	335.8	26.6
1	1610	195	82.	395.8	29.1	*	2	1425	462	92.	448.5	31.2	*	3	1240	729	60.	335.5	26.6
1	1615	196	83.	396.3	29.2	*	2	1430	463	92.	448.4	31.2	*	3	1245	730	60.	335.1	26.6
1	1620	197	83.	396.8	29.2	*	2	1435	464	92.	448.3	31.2	*	3	1250	731	60.	334.8	26.6
1	1625	198	83.	397.2	29.2	*	2	1440	465	92.	448.1	31.1	*	3	1255	732	60.	334.4	26.5
1	1630	199	83.	397.7	29.2	*	2	1445	466	92.	448.0	31.1	*	3	1300	733	59.	334.1	26.5
1	1635	200	83.	398.2	29.2	*	2	1450	467	92.	447.8	31.1	*	3	1305	734	59.	333.8	26.5
1	1640	201	84.	398.7	29.3	*	2	1455	468	92.	447.7	31.1	*	3	1310	735	59.	333.4	26.5
1	1645	202	84.	399.2	29.3	*	2	1500	469	92.	447.5	31.1	*	3	1315	736	59.	333.1	26.5
1	1650	203	84.	399.6	29.3	*	2	1505	470	92.	447.4	31.1	*	3	1320	737	59.	332.8	26.5
1	1655	204	84.	400.1	29.3	*	2	1510	471	92.	447.2	31.1	*	3	1325	738	59.	332.5	26.5
1	1700	205	84.	400.6	29.3	*	2	1515	472	92.	447.1	31.1	*	3	1330	739	59.	332.1	26.4
1	1705	206	84.	401.0	29.4	*	2	1520	473	92.	446.9	31.1	*	3	1335	740	59.	331.8	26.4
1	1710	207	85.	401.5	29.4	*	2	1525	474	92.	446.7	31.1	*	3	1340	741	58.	331.5	26.4
1	1715	208	85.	401.9	29.4	*	2	1530	475	92.	446.5	31.1	*	3	1345	742	58.	331.1	26.4
1	1720	209	85.	402.4	29.4	*	2	1535	476	92.	446.4	31.1	*	3	1350	743	58.	330.8	26.4
1	1725	210	85.	402.8	29.4	*	2	1540	477	92.	446.2	31.1	*	3	1355	744	58.	330.5	26.4
1	1730	211	85.	403.3	29.5	*	2	1545	478	91.	446.0	31.1	*	3	1400	745	58.	330.2	26.4
1	1735	212	85.	403.7	29.5	*	2	1550	479	91.	445.8	31.1	*	3	1405	746	58.	329.8	26.3
1	1740	213	86.	404.2	29.5	*	2	1555	480	91.	445.5	31.1	*	3	1410	747	58.	329.5	26.3
1	1745	214	86.	404.6	29.5	*	2	1600	481	91.	445.3	31.0	*	3	1415	748	58.	329.2	26.3
1	1750	215	86.	405.1	29.5	*	2	1605	482	91.	445.0	31.0	*	3	1420	749	58.	328.9	26.3
1	1755	216	86.	405.5	29.6	*	2	1610	483	91.	444.8	31.0	*	3	1425	750	57.	328.6	26.3
1	1800	217	86.	405.9	29.6	*	2	1615	484	91.	444.5	31.0	*	3	1430	751	57.	328.2	26.3
1	1805	218	86.	406.4	29.6	*	2	1620	485	91.	444.2	31.0	*	3	1435	752	57.	327.9	26.3
1	1810	219	87.	406.8	29.6	*	2	1625	486	91.	443.9	31.0	*	3	1440	753	57.	327.6	26.3
1	1815	220	87.	407.2	29.6	*	2	1630	487	91.	443.6	31.0	*	3	1445	754	57.	327.3	26.2
1	1820	221	87.	407.6	29.6	*	2	1635	488	91.	443.3	31.0	*	3	1450	755	57.	327.0	26.2
1	1825	222	87.	408.0	29.7	*	2	1640	489	91.	442.9	31.0	*	3	1455	756	57.	326.7	26.2
1	1830	223	87.	408.5	29.7	*	2	1645	490	91.	442.6	30.9	*	3	1500	757	57.	326.3	26.2
1	1835	224	87.	408.9	29.7	*	2	1650	491	91.	442.2	30.9	*	3	1505	758	56.	326.0	26.2
1	1840	225	87.	409.3	29.7	*	2	1655	492	91.	441.9	30.9	*	3	1510	759	56.	325.7	26.2
1	1845	226	88.	409.7	29.7	*	2	1700	493	91.	441.5	30.9	*	3	1515	760	56.	325.4	26.2
1	1850	227	88.	410.1	29.7	*	2	1705	494	91.	441.2	30.9	*	3	1520	761	56.	325.1	26.1
1	1855	228	88.	410.5	29.8	*	2	1710	495	91.	440.8	30.9	*	3	1525	762	56.	324.8	26.1
1	1900	229	88.	410.9	29.8	*	2	1715	496	91.	440.4	30.9	*	3	1530	763	56.	324.5	26.1
1	1905	230	88.	411.3	29.8	*	2	1720	497	91.	440.0	30.9	*	3	1535	764	56.	324.2	26.1
1	1910	231	88.	411.7	29.8	*	2	1725	498	91.	439.5	30.8	*	3	1540	765	56.	323.8	26.1
1	1915	232	89.	412.1	29.8	*	2	1730	499	91.	439.1	30.8	*	3	1545	766	56.	323.5	26.1
1	1920	233	89.	412.5	29.9	*	2	1735	500	91.	438.6	30.8	*	3	1550	767	55.	323.2	26.1
1	1925	234	89.	412.9	29.9	*	2	1740	501	91.	438.1	30.8	*	3	1555	768	55.	322.9	26.1
1	1930	235	89.	413.2	29.9	*	2	1745	502	91.	437.6	30.8	*	3	1600	769	55.	322.6	26.0
1	1935	236	89.	413.6	29.9	*	2	1750	503	91.	437.1	30.8	*	3	1605	770	55.	322.3	26.0
1	1940	237	89.	414.0	29.9	*	2	1755	504	91.	436.6	30.7	*	3	1610	771	55.	322.0	26.0
1	1945	238	89.	414.4	29.9	*	2	1800	505	91.	436.0	30.7	*	3	1615	772	55.	321.7	26.0
1	1950	239	90.	414.7	29.9	*	2	1805	506	91.	435.5	30.7	*	3	1620	773	55.	321.4	26.0
1	1955	240	90.	415.1	30.0	*	2	1810	507	91.	435.0	30.7	*	3	1625	774	55.	321.1	26.0
1	2000	241	90.	415.5	30.0	*	2	1815	508	91.	434.4	30.7	*	3	1630	775	55.	320.8	26.0
1	2005	242	90.	415.8	30.0	*	2	1820	509	91.	433.9	30.6	*	3	1635	776	54.	320.5	26.0
1	2010	243	90.	416.2	30.0	*	2	1825	510	91.	433.4	30.6	*	3	1640	777	54.	320.2	25.9
1	2015	244	90.	416.6	30.0	*	2	1830	511	91.	432.8	30.6	*	3	1645	778	54.	319.9	25.9
1	2020	245	90.	416.9	30.0	*	2	1835	512	91.	432.3	30.6	*	3	1650	779	54.	319.6	25.9
1	2025	246	90.	417.3	30.0	*	2	1840	513	91.	431.7	30.6	*	3	1655	780	54.	319.3	25.9
1	2030	247	90.	417.6	30.1	*	2	1845	514	91.	431.2	30.5	*	3	1700	781	54.	319.0	25.9
1	2035	248	90.	418.0	30.1	*	2	1850	515	91.	430.6	30.5	*	3	1705	782	54.	318.7	25.9
1	2040	249	90.	418.3	30.1	*	2	1855	516	91.	430.1	30.5	*	3	1710	783	54.	318.4	25.9
1	2045	250	90.	418.7	30.1	*	2	1900	517	91.	429.6	30.5	*	3	1715	784	54.	318.1	25.9
1	2050	251	90.	419.0	30.1	*	2	1905	518	91.	429.0	30.5	*	3	1720	785	53.	317.8	25.8
1	2055	252	90.	419.4	30.1	*	2	1910	519	91.	428.5	30.4	*	3	1725	786	53.	317.5	25.8
1	2100	253	90.	419.7	30.1	*	2	1915	520	91.	427.9	30.4	*	3	1730	787	53.	317.3	25.8
1	2105	254	90.	420.1	30.1	*	2	1920	521	91.	427.4	30.4	*	3	1735	788	53.	317.0	25.8
1	2110	255	90.	420.4	30.2	*	2	1925	522	91.	426.8	30.4	*	3	1740	789	53.	316.7	25.8
1	2115	256	90.	420.8	30.2	*	2	1930	523	91.	426.3	30.4	*	3	1745	790	53.	316.4	25.8
1	2120	257	90.	421.1	30.2	*	2	1935	524	90.	425.8	30.3	*	3	1750	791	53.	316.1	25.8
1	2125	258	90.	421.4	30.2	*	2	1940	525	90.	425.2	30.3	*	3	1755	792	53.	315.8	25.8
1	2130	259	90.	421.8	30.2	*	2	1945	526	90.	424.7	30.3	*	3	1800	793	53.	315.5	25.7
1	2135	260	90.	422.1	30.2	*	2	1950	527	90.	424.1	30.3	*	3	1805	794	52.	315.2	25.7
1	2140	261	90.	422.4	30.2	*	2	1955	528	90.	423.6	30.3	*	3	1810	795	52.	314.9	25.7
1	2145	262	90.	422.7	30.2	*	2	2000	529	90.	423.0	30.3	*	3	1815	796	52.	314.7	25.7
1	2150	263	90.	423.1	30.3	*	2	2005	530	90.	422.5	30.2	*	3	1820	797	52.	314.4	25.7
1	2155	264	90.	423.4	30.3	*	2	2010	531	90.	422.0	30.2	*	3	1825	798	52.	314.1	25.7
1	2200	265	90.	423.7	30.3	*	2	2015	532	90.	421.4	30.2	*	3	1830	799	52.	313.8	25.7
1	2205	266	90.	424.0	30.3	*	2	2020	533	90.	420.9	30.2	*	3	1835	800	52.	313.5	25.7
1	2210	267	90.	424.4	30.3	*	2	2025	534	90.	420.3	30.2	*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	66.58-HR
(CFS)	(HR)					
		(CFS)				
92.	35.25		92.	91.	74.	74.
		(INCHES)	.081	.324	.731	.731
		(AC-FT)	45.	181.	408.	408.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	66.58-HR
(AC-FT)	(HR)				
451.	35.25	450.	440.	369.	369.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	66.58-HR
(FEET)	(HR)				
31.23	35.25	31.21	30.86	27.43	27.43

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		2215	268	90.	420.0	30.1	2		2030	535	88.	411.3	29.8
1		0005	2	0.	.0	.0	1		2220	269	90.	420.4	30.2	2		2035	536	88.	410.8	29.8
1		0010	3	0.	.0	.0	1		2225	270	90.	420.7	30.2	2		2040	537	88.	410.3	29.8
1		0015	4	0.	.0	.0	1		2230	271	90.	421.0	30.2	2		2045	538	88.	409.7	29.7
1		0020	5	0.	.0	.0	1		2235	272	90.	421.3	30.2	2		2050	539	87.	409.2	29.7
1		0025	6	0.	.0	.0	1		2240	273	90.	421.6	30.2	2		2055	540	87.	408.7	29.7
1		0030	7	0.	.1	.0	1		2245	274	90.	421.9	30.2	2		2100	541	87.	408.2	29.7
1		0035	8	0.	.3	.1	1		2250	275	90.	422.2	30.2	2		2105	542	87.	407.6	29.6
1		0040	9	1.	.4	.1	1		2255	276	90.	422.4	30.2	2		2110	543	87.	407.1	29.6
1		0045	10	1.	.6	.2	1		2300	277	90.	422.7	30.2	2		2115	544	86.	406.6	29.6
1		0050	11	1.	.8	.3	1		2305	278	90.	423.0	30.3	2		2120	545	86.	406.1	29.6
1		0055	12	1.	.9	.3	1		2310	279	90.	423.3	30.3	2		2125	546	86.	405.6	29.6
1		0100	13	1.	1.1	.4	1		2315	280	90.	423.6	30.3	2		2130	547	86.	405.1	29.5
1		0105	14	2.	1.2	.4	1		2320	281	90.	423.9	30.3	2		2135	548	86.	404.5	29.5
1		0110	15	2.	1.4	.5	1		2325	282	90.	424.2	30.3	2		2140	549	86.	404.0	29.5
1		0115	16	2.	1.6	.5	1		2330	283	90.	424.5	30.3	2		2145	550	85.	403.5	29.5
1		0120	17	3.	1.9	.6	1		2335	284	90.	424.7	30.3	2		2150	551	85.	403.0	29.4
1		0125	18	3.	2.2	.7	1		2340	285	90.	425.0	30.3	2		2155	552	85.	402.5	29.4
1		0130	19	4.	2.6	.9	1		2345	286	90.	425.3	30.3	2		2200	553	85.	402.0	29.4
1		0135	20	4.	3.2	1.1	1		2350	287	90.	425.6	30.3	2		2205	554	85.	401.5	29.4
1		0140	21	5.	3.9	1.3	1		2355	288	90.	425.8	30.4	2		2210	555	84.	401.0	29.4
1		0145	22	7.	4.7	1.6	2		0000	289	91.	426.1	30.4	2		2215	556	84.	400.5	29.3
1		0150	23	8.	5.5	1.8	2		0005	290	91.	426.4	30.4	2		2220	557	84.	400.0	29.3
1		0155	24	9.	6.4	2.1	2		0010	291	91.	426.6	30.4	2		2225	558	84.	399.5	29.3
1		0200	25	10.	7.2	2.4	2		0015	292	91.	426.9	30.4	2		2230	559	84.	399.0	29.3
1		0205	26	11.	7.9	2.6	2		0020	293	91.	427.2	30.4	2		2235	560	83.	398.5	29.3
1		0210	27	12.	8.6	2.9	2		0025	294	91.	427.4	30.4	2		2240	561	83.	398.0	29.2
1		0215	28	13.	9.4	3.1	2		0030	295	91.	427.7	30.4	2		2245	562	83.	397.5	29.2
1		0220	29	15.	10.5	3.5	2		0035	296	91.	427.9	30.4	2		2250	563	83.	397.0	29.2
1		0225	30	17.	11.8	3.9	2		0040	297	91.	428.2	30.4	2		2255	564	83.	396.5	29.2
1		0230	31	19.	13.3	4.4	2		0045	298	91.	428.4	30.4	2		2300	565	83.	396.0	29.2
1		0235	32	21.	14.8	4.9	2		0050	299	91.	428.7	30.5	2		2305	566	82.	395.5	29.1
1		0240	33	22.	16.3	5.3	2		0055	300	91.	428.9	30.5	2		2310	567	82.	395.0	29.1
1		0245	34	22.	17.8	5.6	2		0100	301	91.	429.2	30.5	2		2315	568	82.	394.6	29.1
1		0250	35	23.	19.5	6.0	2		0105	302	91.	429.4	30.5	2		2320	569	82.	394.1	29.1
1		0255	36	24.	21.2	6.4	2		0110	303	91.	429.7	30.5	2		2325	570	82.	393.6	29.0
1		0300	37	24.	22.8	6.8	2		0115	304	91.	429.9	30.5	2		2330	571	81.	393.1	29.0
1		0305	38	25.	24.5	7.2	2		0120	305	91.	430.2	30.5	2		2335	572	81.	392.6	29.0
1		0310	39	26.	26.8	7.7	2		0125	306	91.	430.4	30.5	2		2340	573	81.	392.1	29.0
1		0315	40	27.	30.3	8.5	2		0130	307	91.	430.6	30.5	2		2345	574	81.	391.6	29.0
1		0320	41	30.	36.2	9.8	2		0135	308	91.	430.9	30.5	2		2350	575	81.	391.2	28.9
1		0325	42	31.	46.1	10.9	2		0140	309	91.	431.1	30.5	2		2355	576	81.	390.7	28.9
1		0330	43	33.	61.6	12.3	2		0145	310	91.	431.3	30.5	3		0000	577	80.	390.2	28.9
1		0335	44	36.	82.6	14.3	2		0150	311	91.	431.6	30.6	3		0005	578	80.	389.7	28.9
1		0340	45	38.	106.6	16.0	2		0155	312	91.	431.8	30.6	3		0010	579	80.	389.3	28.9
1		0345	46	40.	130.3	17.5	2		0200	313	91.	432.0	30.6	3		0015	580	80.	388.8	28.8
1		0350	47	41.	151.6	18.8	2		0205	314	91.	432.2	30.6	3		0020	581	80.	388.3	28.8
1		0355	48	42.	169.5	20.0	2		0210	315	91.	432.5	30.6	3		0025	582	80.	387.9	28.8
1		0400	49	42.	184.1	20.6	2		0215	316	91.	432.7	30.6	3		0030	583	79.	387.4	28.8
1		0405	50	43.	196.1	21.0	2		0220	317	91.	432.9	30.6	3		0035	584	79.	386.9	28.8
1		0410	51	43.	205.8	21.4	2		0225	318	91.	433.1	30.6	3		0040	585	79.	386.4	28.7
1		0415	52	43.	213.6	21.7	2		0230	319	91.	433.3	30.6	3		0045	586	79.	386.0	28.7
1		0420	53	44.	220.0	22.0	2		0235	320	91.	433.5	30.6	3		0050	587	79.	385.5	28.7
1		0425	54	44.	225.6	22.2	2		0240	321	91.	433.7	30.6	3		0055	588	78.	385.1	28.7
1		0430	55	44.	230.8	22.4	2		0245	322	91.	433.9	30.6	3		0100	589	78.	384.6	28.7
1		0435	56	44.	236.4	22.6	2		0250	323	91.	434.2	30.6	3		0105	590	78.	384.1	28.6
1		0440	57	44.	242.5	22.8	2		0255	324	91.	434.4	30.7	3		0110	591	78.	383.7	28.6
1		0445	58	44.	249.0	23.1	2		0300	325	91.	434.6	30.7	3		0115	592	78.	383.2	28.6
1		0450	59	45.	255.7	23.3	2		0305	326	91.	434.8	30.7	3		0120	593	78.	382.7	28.6
1		0455	60	45.	262.5	23.6	2		0310	327	91.	435.0	30.7	3		0125	594	77.	382.3	28.6
1		0500	61	45.	269.1	23.9	2		0315	328	91.	435.2	30.7	3		0130	595	77.	381.8	28.6
1		0505	62	45.	275.3	24.1	2		0320	329	91.	435.3	30.7	3		0135	596	77.	381.4	28.5
1		0510	63	45.	280.6	24.3	2		0325	330	91.	435.5	30.7	3		0140	597	77.	380.9	28.5
1		0515	64	46.	285.1	24.5	2		0330	331	91.	435.7	30.7	3		0145	598	77.	380.5	28.5
1		0520	65	46.	288.8	24.6	2		0335	332	91.	435.9	30.7	3		0150	599	77.	380.0	28.5
1		0525	66	46.	291.9	24.8	2		0340	333	91.	436.1	30.7	3		0155	600	76.	379.6	28.5
1		0530	67	46.	294.5	24.9	2		0345	334	91.	436.3	30.7	3		0200	601	76.	379.1	28.4
1		0535	68	46.	296.8	25.0	2		0350	335	91.	436.5	30.7	3		0205	602	76.	378.7	28.4
1		0540	69	46.	298.8	25.0	2		0355	336	91.	436.7	30.7	3		0210	603	76.	378.2	28.4
1		0545	70	47.	300.5	25.1	2		0400	337	91.	436.8	30.7	3		0215	604	76.	377.8	28.4
1		0550	71	48.	302.2	25.2	2		0405	338	91.	437.0	30.8	3		0220	605	76.	377.3	28.4
1		0555	72	48.	303.8	25.2	2		0410	339	91.	437.2	30.8	3		0225	606	75.	376.9	28.3
1		0600	73	49.	305.3	25.3	2		0415	340	91.	437.4	30.8	3		0230	607	75.	376.5	28.3
1		0605	74	49.	306.7	25.4	2		0420	341	91.	437.5	30.8	3		0235	608	75.	376.0	28.3
1		0610	75	50.	308.1	25.4	2		0425	342	91.	437.7	30.8	3		0240	609	75.	375.6	28.3
1		0615	76	50.	309.3	25.5	2		0430	343	91.	437.9	30.8	3		0245	610	75.	375.1	28.3
1		0620	77	51.	310.5	25.5	2		0435	344	91.	438.0	30.8	3		0250	611	75.	374.7	28.3
1		0625	78	51.	311.6	25.6	2		0440	345	91.	438.2	30.8	3		0255	612	74.	374.3	28.2
1		0630	79	51.	312.6	25.6	2		0445	346	91.	438.3	30.8	3		0300	613	74.	373.8	28.2
1		0635	80	52.	313.5	25.7	2		0450	347	91.	438.5	30.8	3		0305	614	74.	373.4	28.2
1		0640	81	52.	314.4	25.7	2		0455	348	91.	438.7	30.8	3		0310	615	74.	373.0	28.2
1		0645	82	52.	315.3	25.7	2		0500	349	91.	438.8	30.8	3		0315	616	74.	372.5	28.2
1		0650	83	53.	316.2	25.8	2		0505	350	91.	439.0	30.8	3		0320	617	74.	372.1	28.1

1	0655	84	53.	317.1	25.8 *	2	0510	351	91.	439.1	30.8 *	3	0325	618	73.	371.7	28.1
1	0700	85	53.	317.9	25.8 *	2	0515	352	91.	439.3	30.8 *	3	0330	619	73.	371.2	28.1
1	0705	86	54.	318.8	25.9 *	2	0520	353	91.	439.4	30.8 *	3	0335	620	73.	370.8	28.1
1	0710	87	54.	319.6	25.9 *	2	0525	354	91.	439.6	30.8 *	3	0340	621	73.	370.4	28.1
1	0715	88	54.	320.5	26.0 *	2	0530	355	91.	439.7	30.8 *	3	0345	622	73.	370.0	28.0
1	0720	89	55.	321.3	26.0 *	2	0535	356	91.	439.9	30.9 *	3	0350	623	73.	369.5	28.0
1	0725	90	55.	322.2	26.0 *	2	0540	357	91.	440.0	30.9 *	3	0355	624	73.	369.1	28.0
1	0730	91	55.	323.0	26.1 *	2	0545	358	91.	440.1	30.9 *	3	0400	625	72.	368.7	28.0
1	0735	92	56.	323.8	26.1 *	2	0550	359	91.	440.3	30.9 *	3	0405	626	72.	368.3	28.0
1	0740	93	56.	324.6	26.1 *	2	0555	360	91.	440.4	30.9 *	3	0410	627	72.	367.9	28.0
1	0745	94	56.	325.5	26.2 *	2	0600	361	91.	440.5	30.9 *	3	0415	628	72.	367.4	27.9
1	0750	95	57.	326.3	26.2 *	2	0605	362	91.	440.7	30.9 *	3	0420	629	72.	367.0	27.9
1	0755	96	57.	327.1	26.2 *	2	0610	363	91.	440.8	30.9 *	3	0425	630	72.	366.6	27.9
1	0800	97	57.	327.9	26.3 *	2	0615	364	91.	440.9	30.9 *	3	0430	631	71.	366.2	27.9
1	0805	98	57.	328.7	26.3 *	2	0620	365	91.	441.0	30.9 *	3	0435	632	71.	365.8	27.9
1	0810	99	58.	329.5	26.3 *	2	0625	366	91.	441.2	30.9 *	3	0440	633	71.	365.4	27.9
1	0815	100	58.	330.3	26.4 *	2	0630	367	91.	441.3	30.9 *	3	0445	634	71.	364.9	27.8
1	0820	101	58.	331.1	26.4 *	2	0635	368	91.	441.4	30.9 *	3	0450	635	71.	364.5	27.8
1	0825	102	59.	331.9	26.4 *	2	0640	369	91.	441.5	30.9 *	3	0455	636	71.	364.1	27.8
1	0830	103	59.	332.7	26.5 *	2	0645	370	91.	441.6	30.9 *	3	0500	637	71.	363.7	27.8
1	0835	104	59.	333.5	26.5 *	2	0650	371	91.	441.7	30.9 *	3	0505	638	70.	363.3	27.8
1	0840	105	60.	334.2	26.5 *	2	0655	372	91.	441.8	30.9 *	3	0510	639	70.	362.9	27.7
1	0845	106	60.	335.0	26.6 *	2	0700	373	91.	442.0	30.9 *	3	0515	640	70.	362.5	27.7
1	0850	107	60.	335.8	26.6 *	2	0705	374	91.	442.1	30.9 *	3	0520	641	70.	362.1	27.7
1	0855	108	60.	336.6	26.6 *	2	0710	375	91.	442.2	30.9 *	3	0525	642	70.	361.7	27.7
1	0900	109	61.	337.3	26.7 *	2	0715	376	91.	442.3	30.9 *	3	0530	643	70.	361.3	27.7
1	0905	110	61.	338.1	26.7 *	2	0720	377	91.	442.4	30.9 *	3	0535	644	69.	360.9	27.7
1	0910	111	61.	338.8	26.7 *	2	0725	378	91.	442.5	30.9 *	3	0540	645	69.	360.5	27.6
1	0915	112	62.	339.6	26.8 *	2	0730	379	91.	442.6	30.9 *	3	0545	646	69.	360.1	27.6
1	0920	113	62.	340.4	26.8 *	2	0735	380	91.	442.6	31.0 *	3	0550	647	69.	359.7	27.6
1	0925	114	62.	341.1	26.8 *	2	0740	381	91.	442.7	31.0 *	3	0555	648	69.	359.3	27.6
1	0930	115	62.	341.9	26.9 *	2	0745	382	91.	442.8	31.0 *	3	0600	649	69.	358.9	27.6
1	0935	116	63.	342.6	26.9 *	2	0750	383	91.	442.9	31.0 *	3	0605	650	69.	358.5	27.6
1	0940	117	63.	343.3	26.9 *	2	0755	384	91.	443.0	31.0 *	3	0610	651	68.	358.1	27.5
1	0945	118	63.	344.1	27.0 *	2	0800	385	91.	443.1	31.0 *	3	0615	652	68.	357.7	27.5
1	0950	119	63.	344.8	27.0 *	2	0805	386	91.	443.2	31.0 *	3	0620	653	68.	357.3	27.5
1	0955	120	64.	345.5	27.0 *	2	0810	387	91.	443.2	31.0 *	3	0625	654	68.	356.9	27.5
1	1000	121	64.	346.3	27.0 *	2	0815	388	91.	443.3	31.0 *	3	0630	655	68.	356.5	27.5
1	1005	122	64.	347.0	27.1 *	2	0820	389	91.	443.4	31.0 *	3	0635	656	68.	356.1	27.5
1	1010	123	65.	347.7	27.1 *	2	0825	390	91.	443.5	31.0 *	3	0640	657	68.	355.7	27.4
1	1015	124	65.	348.4	27.1 *	2	0830	391	91.	443.5	31.0 *	3	0645	658	67.	355.3	27.4
1	1020	125	65.	349.1	27.2 *	2	0835	392	91.	443.6	31.0 *	3	0650	659	67.	354.9	27.4
1	1025	126	65.	349.8	27.2 *	2	0840	393	91.	443.7	31.0 *	3	0655	660	67.	354.6	27.4
1	1030	127	66.	350.6	27.2 *	2	0845	394	91.	443.7	31.0 *	3	0700	661	67.	354.2	27.4
1	1035	128	66.	351.3	27.3 *	2	0850	395	91.	443.8	31.0 *	3	0705	662	67.	353.8	27.4
1	1040	129	66.	352.0	27.3 *	2	0855	396	91.	443.8	31.0 *	3	0710	663	67.	353.4	27.3
1	1045	130	66.	352.7	27.3 *	2	0900	397	91.	443.9	31.0 *	3	0715	664	67.	353.0	27.3
1	1050	131	67.	353.3	27.3 *	2	0905	398	91.	444.0	31.0 *	3	0720	665	66.	352.6	27.3
1	1055	132	67.	354.0	27.4 *	2	0910	399	91.	444.0	31.0 *	3	0725	666	66.	352.3	27.3
1	1100	133	67.	354.7	27.4 *	2	0915	400	91.	444.1	31.0 *	3	0730	667	66.	351.9	27.3
1	1105	134	67.	355.4	27.4 *	2	0920	401	91.	444.1	31.0 *	3	0735	668	66.	351.5	27.3
1	1110	135	68.	356.1	27.5 *	2	0925	402	91.	444.2	31.0 *	3	0740	669	66.	351.1	27.3
1	1115	136	68.	356.8	27.5 *	2	0930	403	91.	444.2	31.0 *	3	0745	670	66.	350.7	27.2
1	1120	137	68.	357.4	27.5 *	2	0935	404	91.	444.3	31.0 *	3	0750	671	66.	350.4	27.2
1	1125	138	68.	358.1	27.5 *	2	0940	405	91.	444.3	31.0 *	3	0755	672	65.	350.0	27.2
1	1130	139	69.	358.8	27.6 *	2	0945	406	91.	444.3	31.0 *	3	0800	673	65.	349.6	27.2
1	1135	140	69.	359.4	27.6 *	2	0950	407	91.	444.4	31.0 *	3	0805	674	65.	349.3	27.2
1	1140	141	69.	360.1	27.6 *	2	0955	408	91.	444.4	31.0 *	3	0810	675	65.	348.9	27.2
1	1145	142	69.	360.8	27.7 *	2	1000	409	91.	444.4	31.0 *	3	0815	676	65.	348.5	27.1
1	1150	143	70.	361.4	27.7 *	2	1005	410	91.	444.5	31.0 *	3	0820	677	65.	348.1	27.1
1	1155	144	70.	362.1	27.7 *	2	1010	411	91.	444.5	31.0 *	3	0825	678	65.	347.8	27.1
1	1200	145	70.	362.7	27.7 *	2	1015	412	91.	444.5	31.0 *	3	0830	679	64.	347.4	27.1
1	1205	146	70.	363.4	27.8 *	2	1020	413	91.	444.5	31.0 *	3	0835	680	64.	347.0	27.1
1	1210	147	71.	364.0	27.8 *	2	1025	414	91.	444.5	31.0 *	3	0840	681	64.	346.7	27.1
1	1215	148	71.	364.6	27.8 *	2	1030	415	91.	444.5	31.0 *	3	0845	682	64.	346.3	27.0
1	1220	149	71.	365.3	27.9 *	2	1035	416	91.	444.6	31.0 *	3	0850	683	64.	345.9	27.0
1	1225	150	71.	365.9	27.9 *	2	1040	417	91.	444.6	31.0 *	3	0855	684	64.	345.6	27.0
1	1230	151	72.	366.5	27.9 *	2	1045	418	91.	444.6	31.0 *	3	0900	685	64.	345.2	27.0
1	1235	152	72.	367.2	27.9 *	2	1050	419	91.	444.6	31.0 *	3	0905	686	63.	344.8	27.0
1	1240	153	72.	367.8	28.0 *	2	1055	420	91.	444.6	31.0 *	3	0910	687	63.	344.5	27.0
1	1245	154	72.	368.4	28.0 *	2	1100	421	91.	444.6	31.0 *	3	0915	688	63.	344.1	27.0
1	1250	155	72.	369.0	28.0 *	2	1105	422	91.	444.6	31.0 *	3	0920	689	63.	343.8	26.9
1	1255	156	73.	369.6	28.0 *	2	1110	423	91.	444.6	31.0 *	3	0925	690	63.	343.4	26.9
1	1300	157	73.	370.2	28.1 *	2	1115	424	91.	444.5	31.0 *	3	0930	691	63.	343.0	26.9
1	1305	158	73.	370.8	28.1 *	2	1120	425	91.	444.5	31.0 *	3	0935	692	63.	342.7	26.9
1	1310	159	73.	371.4	28.1 *	2	1125	426	91.	444.5	31.0 *	3	0940	693	63.	342.3	26.9
1	1315	160	74.	372.0	28.1 *	2	1130	427	91.	444.5	31.0 *	3	0945	694	62.	342.0	26.9
1	1320	161	74.	372.6	28.2 *	2	1135	428	91.	444.5	31.0 *	3	0950	695	62.	341.6	26.8
1	1325	162	74.	373.2	28.2 *	2	1140	429	91.	444.5	31.0 *	3	0955	696	62.	341.3	26.8
1	1330	163	74.	373.8	28.2 *	2	1145	430	91.	444.4	31.0 *	3	1000	697	62.	340.9	26.8
1	1335	164	74.	374.4	28.2 *	2	1150	431	91.	444.4	31.0 *	3	1005	698	62.	340.6	26.8
1	1340	165	75.	375.0	28.3 *	2	1155	432	91.	444.4	31.0 *	3	1010	699	62.	340.2	26.8
1	1345	166	75.	375.6	28.3 *	2	1200	433	91.	444.3	31.0 *	3	1015	700	62.	339.9	26.8
1	1350	167	75.	376.2	28.3 *	2	1205	434	91.	444.3	31.0 *	3	1020	701	61.	339.5	26.8
1	1355	168	75.	376.7	28.3 *	2	1210	435	91.	444.3	31.0 *	3	1025	702	61.	339.2	26.7
1	1400	169	76.	377.3	28.4 *	2	1215	436	91.	444.2	31.0 *	3	1030	703	61.	338.8	26.7
1	1405	170	76.	377.9	28.4 *	2	1220	437	91.	444.2	31.0 *	3	1035	704	61.	338.5	26.7
1	1410	171	76.	378.5	28.4 *	2	1225	438	91.	444.1	31.0 *	3	1040	705	61.	338.1	26.7
1	1415	172	76.	379.0	28.4 *	2	1230	439	91.	444.1	31.0 *	3	1045	706	61.	337.8	26.7
1	1420	173	76.	379.6	28.5 *	2	1235	440	91.	444.1	31.0 *	3	1050	707	61.	337.4	26.7
1	1425	174	77.	380.1	28.5 *	2	1240	441	91.	444.0	31.0 *	3	1055	708	61.	337.1	26.7
1	1430	175	77.	380.7	28.5 *	2	1245	442	91.	443.9	31.0 *	3	1100	709	60.	336.8	26.6
1	1435	176	77.	381.2	28.5 *	2	1250	443	91.	443.9	31.0 *	3	1105	710	60.	336.4	26.6
1	1440	177	77.	381.8	28.6 *	2	1255	444	91.	443.8	31.0 *	3	1110	711	60.	336.1	26.6
1	1445	178	77.	382.3	28.6 *	2	1300	445	91.	443.8	31.0 *	3	1115	712	60.	335.7	26.6

1	1450 179	78.	382.9	28.6 *	2	1305 446	91.	443.7	31.0 *	3	1120 713	60.	335.4	26.6
1	1455 180	78.	383.4	28.6 *	2	1310 447	91.	443.6	31.0 *	3	1125 714	60.	335.1	26.6
1	1500 181	78.	384.0	28.6 *	2	1315 448	91.	443.5	31.0 *	3	1130 715	60.	334.7	26.6
1	1505 182	78.	384.5	28.7 *	2	1320 449	91.	443.4	31.0 *	3	1135 716	60.	334.4	26.5
1	1510 183	78.	385.0	28.7 *	2	1325 450	91.	443.3	31.0 *	3	1140 717	59.	334.1	26.5
1	1515 184	79.	385.6	28.7 *	2	1330 451	91.	443.2	31.0 *	3	1145 718	59.	333.7	26.5
1	1520 185	79.	386.1	28.7 *	2	1335 452	91.	443.1	31.0 *	3	1150 719	59.	333.4	26.5
1	1525 186	79.	386.6	28.8 *	2	1340 453	91.	443.0	31.0 *	3	1155 720	59.	333.1	26.5
1	1530 187	79.	387.1	28.8 *	2	1345 454	91.	442.9	31.0 *	3	1200 721	59.	332.7	26.5
1	1535 188	79.	387.6	28.8 *	2	1350 455	91.	442.8	31.0 *	3	1205 722	59.	332.4	26.5
1	1540 189	80.	388.2	28.8 *	2	1355 456	91.	442.7	31.0 *	3	1210 723	59.	332.1	26.4
1	1545 190	80.	388.7	28.8 *	2	1400 457	91.	442.6	30.9 *	3	1215 724	59.	331.7	26.4
1	1550 191	80.	389.2	28.9 *	2	1405 458	91.	442.4	30.9 *	3	1220 725	58.	331.4	26.4
1	1555 192	80.	389.7	28.9 *	2	1410 459	91.	442.3	30.9 *	3	1225 726	58.	331.1	26.4
1	1600 193	80.	390.2	28.9 *	2	1415 460	91.	442.2	30.9 *	3	1230 727	58.	330.8	26.4
1	1605 194	81.	390.7	28.9 *	2	1420 461	91.	442.0	30.9 *	3	1235 728	58.	330.4	26.4
1	1610 195	81.	391.2	28.9 *	2	1425 462	91.	441.9	30.9 *	3	1240 729	58.	330.1	26.4
1	1615 196	81.	391.7	29.0 *	2	1430 463	91.	441.8	30.9 *	3	1245 730	58.	329.8	26.3
1	1620 197	81.	392.2	29.0 *	2	1435 464	91.	441.6	30.9 *	3	1250 731	58.	329.5	26.3
1	1625 198	81.	392.7	29.0 *	2	1440 465	91.	441.5	30.9 *	3	1255 732	58.	329.1	26.3
1	1630 199	81.	393.1	29.0 *	2	1445 466	91.	441.3	30.9 *	3	1300 733	57.	328.8	26.3
1	1635 200	82.	393.6	29.1 *	2	1450 467	91.	441.1	30.9 *	3	1305 734	57.	328.5	26.3
1	1640 201	82.	394.1	29.1 *	2	1455 468	91.	441.0	30.9 *	3	1310 735	57.	328.2	26.3
1	1645 202	82.	394.6	29.1 *	2	1500 469	91.	440.8	30.9 *	3	1315 736	57.	327.9	26.3
1	1650 203	82.	395.0	29.1 *	2	1505 470	91.	440.6	30.9 *	3	1320 737	57.	327.5	26.3
1	1655 204	82.	395.5	29.1 *	2	1510 471	91.	440.4	30.9 *	3	1325 738	57.	327.2	26.2
1	1700 205	83.	396.0	29.2 *	2	1515 472	91.	440.3	30.9 *	3	1330 739	57.	326.9	26.2
1	1705 206	83.	396.5	29.2 *	2	1520 473	91.	440.1	30.9 *	3	1335 740	57.	326.6	26.2
1	1710 207	83.	396.9	29.2 *	2	1525 474	91.	439.8	30.9 *	3	1340 741	57.	326.3	26.2
1	1715 208	83.	397.4	29.2 *	2	1530 475	91.	439.6	30.8 *	3	1345 742	56.	326.0	26.2
1	1720 209	83.	397.8	29.2 *	2	1535 476	91.	439.4	30.8 *	3	1350 743	56.	325.6	26.2
1	1725 210	83.	398.3	29.2 *	2	1540 477	91.	439.1	30.8 *	3	1355 744	56.	325.3	26.2
1	1730 211	84.	398.7	29.3 *	2	1545 478	91.	438.9	30.8 *	3	1400 745	56.	325.0	26.1
1	1735 212	84.	399.2	29.3 *	2	1550 479	91.	438.6	30.8 *	3	1405 746	56.	324.7	26.1
1	1740 213	84.	399.6	29.3 *	2	1555 480	91.	438.3	30.8 *	3	1410 747	56.	324.4	26.1
1	1745 214	84.	400.1	29.3 *	2	1600 481	91.	438.0	30.8 *	3	1415 748	56.	324.1	26.1
1	1750 215	84.	400.5	29.3 *	2	1605 482	91.	437.7	30.8 *	3	1420 749	56.	323.8	26.1
1	1755 216	84.	401.0	29.4 *	2	1610 483	91.	437.4	30.8 *	3	1425 750	55.	323.5	26.1
1	1800 217	85.	401.4	29.4 *	2	1615 484	91.	437.0	30.8 *	3	1430 751	55.	323.2	26.1
1	1805 218	85.	401.8	29.4 *	2	1620 485	91.	436.7	30.7 *	3	1435 752	55.	322.9	26.1
1	1810 219	85.	402.2	29.4 *	2	1625 486	91.	436.4	30.7 *	3	1440 753	55.	322.5	26.0
1	1815 220	85.	402.7	29.4 *	2	1630 487	91.	436.0	30.7 *	3	1445 754	55.	322.2	26.0
1	1820 221	85.	403.1	29.5 *	2	1635 488	91.	435.6	30.7 *	3	1450 755	55.	321.9	26.0
1	1825 222	85.	403.5	29.5 *	2	1640 489	91.	435.3	30.7 *	3	1455 756	55.	321.6	26.0
1	1830 223	86.	403.9	29.5 *	2	1645 490	91.	434.9	30.7 *	3	1500 757	55.	321.3	26.0
1	1835 224	86.	404.4	29.5 *	2	1650 491	91.	434.5	30.7 *	3	1505 758	55.	321.0	26.0
1	1840 225	86.	404.8	29.5 *	2	1655 492	91.	434.1	30.6 *	3	1510 759	54.	320.7	26.0
1	1845 226	86.	405.2	29.5 *	2	1700 493	91.	433.7	30.6 *	3	1515 760	54.	320.4	26.0
1	1850 227	86.	405.6	29.6 *	2	1705 494	91.	433.2	30.6 *	3	1520 761	54.	320.1	25.9
1	1855 228	86.	406.0	29.6 *	2	1710 495	91.	432.7	30.6 *	3	1525 762	54.	319.8	25.9
1	1900 229	86.	406.4	29.6 *	2	1715 496	91.	432.2	30.6 *	3	1530 763	54.	319.5	25.9
1	1905 230	87.	406.8	29.6 *	2	1720 497	91.	431.7	30.6 *	3	1535 764	54.	319.2	25.9
1	1910 231	87.	407.2	29.6 *	2	1725 498	91.	431.2	30.5 *	3	1540 765	54.	318.9	25.9
1	1915 232	87.	407.6	29.6 *	2	1730 499	91.	430.7	30.5 *	3	1545 766	54.	318.6	25.9
1	1920 233	87.	408.0	29.7 *	2	1735 500	91.	430.2	30.5 *	3	1550 767	54.	318.3	25.9
1	1925 234	87.	408.4	29.7 *	2	1740 501	91.	429.7	30.5 *	3	1555 768	53.	318.0	25.8
1	1930 235	87.	408.7	29.7 *	2	1745 502	91.	429.1	30.5 *	3	1600 769	53.	317.8	25.8
1	1935 236	87.	409.1	29.7 *	2	1750 503	91.	428.6	30.4 *	3	1605 770	53.	317.5	25.8
1	1940 237	88.	409.5	29.7 *	2	1755 504	91.	428.1	30.4 *	3	1610 771	53.	317.2	25.8
1	1945 238	88.	409.9	29.7 *	2	1800 505	91.	427.5	30.4 *	3	1615 772	53.	316.9	25.8
1	1950 239	88.	410.3	29.8 *	2	1805 506	91.	427.0	30.4 *	3	1620 773	53.	316.6	25.8
1	1955 240	88.	410.6	29.8 *	2	1810 507	91.	426.4	30.4 *	3	1625 774	53.	316.3	25.8
1	2000 241	88.	411.0	29.8 *	2	1815 508	90.	425.9	30.4 *	3	1630 775	53.	316.0	25.8
1	2005 242	88.	411.4	29.8 *	2	1820 509	90.	425.4	30.3 *	3	1635 776	53.	315.7	25.8
1	2010 243	88.	411.7	29.8 *	2	1825 510	90.	424.8	30.3 *	3	1640 777	52.	315.4	25.7
1	2015 244	89.	412.1	29.8 *	2	1830 511	90.	424.3	30.3 *	3	1645 778	52.	315.1	25.7
1	2020 245	89.	412.4	29.8 *	2	1835 512	90.	423.7	30.3 *	3	1650 779	52.	314.9	25.7
1	2025 246	89.	412.8	29.9 *	2	1840 513	90.	423.2	30.3 *	3	1655 780	52.	314.6	25.7
1	2030 247	89.	413.2	29.9 *	2	1845 514	90.	422.6	30.2 *	3	1700 781	52.	314.3	25.7
1	2035 248	89.	413.5	29.9 *	2	1850 515	90.	422.1	30.2 *	3	1705 782	52.	314.0	25.7
1	2040 249	89.	413.9	29.9 *	2	1855 516	90.	421.6	30.2 *	3	1710 783	52.	313.7	25.7
1	2045 250	89.	414.2	29.9 *	2	1900 517	90.	421.0	30.2 *	3	1715 784	52.	313.4	25.7
1	2050 251	89.	414.5	29.9 *	2	1905 518	90.	420.5	30.2 *	3	1720 785	52.	313.1	25.6
1	2055 252	90.	414.9	30.0 *	2	1910 519	90.	419.9	30.1 *	3	1725 786	52.	312.9	25.6
1	2100 253	90.	415.2	30.0 *	2	1915 520	90.	419.4	30.1 *	3	1730 787	51.	312.6	25.6
1	2105 254	90.	415.6	30.0 *	2	1920 521	90.	418.8	30.1 *	3	1735 788	51.	312.3	25.6
1	2110 255	90.	415.9	30.0 *	2	1925 522	90.	418.3	30.1 *	3	1740 789	51.	312.0	25.6
1	2115 256	90.	416.2	30.0 *	2	1930 523	90.	417.8	30.1 *	3	1745 790	51.	311.7	25.6
1	2120 257	90.	416.6	30.0 *	2	1935 524	90.	417.2	30.0 *	3	1750 791	51.	311.5	25.6
1	2125 258	90.	416.9	30.0 *	2	1940 525	90.	416.7	30.0 *	3	1755 792	51.	311.2	25.6
1	2130 259	90.	417.2	30.0 *	2	1945 526	90.	416.1	30.0 *	3	1800 793	51.	310.9	25.5
1	2135 260	90.	417.5	30.1 *	2	1950 527	90.	415.6	30.0 *	3	1805 794	51.	310.6	25.5
1	2140 261	90.	417.8	30.1 *	2	1955 528	90.	415.1	30.0 *	3	1810 795	51.	310.4	25.5
1	2145 262	90.	418.2	30.1 *	2	2000 529	89.	414.5	29.9 *	3	1815 796	51.	310.1	25.5
1	2150 263	90.	418.5	30.1 *	2	2005 530	89.	414.0	29.9 *	3	1820 797	50.	309.8	25.5
1	2155 264	90.	418.8	30.1 *	2	2010 531	89.	413.4	29.9 *	3	1825 798	50.	309.5	25.5
1	2200 265	90.	419.1	30.1 *	2	2015 532	89.	412.9	29.9 *	3	1830 799	50.	309.3	25.5
1	2205 266	90.	419.4	30.1 *	2	2020 533	89.	412.4	29.8 *	3	1835 800	50.	309.0	25.5
1	2210 267	90.	419.7	30.1 *	2	2025 534	88.	411.8	29.8 *					
				*					*					

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	66.58-HR
+ (CFS)	(HR)				

		(CFS)				
+ 91.	34.58		91.	91.	73.	73.
		(INCHES)	.081	.323	.718	.718
		(AC-FT)	45.	180.	401.	401.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	66.58-HR
+ (AC-FT)	(HR)				
445.	34.83	444.	434.	364.	364.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	66.58-HR
+ (FEET)	(HR)				
31.02	34.92	31.00	30.65	27.21	27.21

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		2215	268	88.	411.0	29.8	2		2030	535	82.	395.4	29.1
1		0005	2	0.	.0	.0	1		2220	269	88.	411.3	29.8	2		2035	536	82.	394.9	29.1
1		0010	3	0.	.0	.0	1		2225	270	88.	411.6	29.8	2		2040	537	82.	394.4	29.1
1		0015	4	0.	.0	.0	1		2230	271	88.	411.9	29.8	2		2045	538	82.	394.0	29.1
1		0020	5	0.	.0	.0	1		2235	272	89.	412.2	29.8	2		2050	539	82.	393.5	29.0
1		0025	6	0.	.0	.0	1		2240	273	89.	412.5	29.9	2		2055	540	81.	393.0	29.0
1		0030	7	0.	.1	.0	1		2245	274	89.	412.8	29.9	2		2100	541	81.	392.5	29.0
1		0035	8	0.	.2	.1	1		2250	275	89.	413.1	29.9	2		2105	542	81.	392.0	29.0
1		0040	9	1.	.4	.1	1		2255	276	89.	413.4	29.9	2		2110	543	81.	391.5	29.0
1		0045	10	1.	.6	.2	1		2300	277	89.	413.6	29.9	2		2115	544	81.	391.1	28.9
1		0050	11	1.	.7	.2	1		2305	278	89.	413.9	29.9	2		2120	545	81.	390.6	28.9
1		0055	12	1.	.8	.3	1		2310	279	89.	414.2	29.9	2		2125	546	80.	390.1	28.9
1		0100	13	1.	.9	.3	1		2315	280	89.	414.5	29.9	2		2130	547	80.	389.6	28.9
1		0105	14	1.	1.1	.4	1		2320	281	90.	414.7	29.9	2		2135	548	80.	389.1	28.9
1		0110	15	2.	1.2	.4	1		2325	282	90.	415.0	30.0	2		2140	549	80.	388.7	28.8
1		0115	16	2.	1.4	.5	1		2330	283	90.	415.3	30.0	2		2145	550	80.	388.2	28.8
1		0120	17	2.	1.7	.6	1		2335	284	90.	415.5	30.0	2		2150	551	79.	387.7	28.8
1		0125	18	3.	2.0	.7	1		2340	285	90.	415.8	30.0	2		2155	552	79.	387.3	28.8
1		0130	19	3.	2.4	.8	1		2345	286	90.	416.0	30.0	2		2200	553	79.	386.8	28.8
1		0135	20	4.	2.9	1.0	1		2350	287	90.	416.3	30.0	2		2205	554	79.	386.3	28.7
1		0140	21	5.	3.5	1.2	1		2355	288	90.	416.6	30.0	2		2210	555	79.	385.8	28.7
1		0145	22	6.	4.3	1.4	2		0000	289	90.	416.8	30.0	2		2215	556	79.	385.4	28.7
1		0150	23	7.	5.1	1.7	2		0005	290	90.	417.1	30.0	2		2220	557	78.	384.9	28.7
1		0155	24	8.	5.9	2.0	2		0010	291	90.	417.3	30.0	2		2225	558	78.	384.5	28.7
1		0200	25	9.	6.6	2.2	2		0015	292	90.	417.6	30.1	2		2230	559	78.	384.0	28.6
1		0205	26	10.	7.3	2.4	2		0020	293	90.	417.8	30.1	2		2235	560	78.	383.5	28.6
1		0210	27	11.	8.0	2.7	2		0025	294	90.	418.0	30.1	2		2240	561	78.	383.1	28.6
1		0215	28	12.	8.7	2.9	2		0030	295	90.	418.3	30.1	2		2245	562	78.	382.6	28.6
1		0220	29	14.	9.7	3.2	2		0035	296	90.	418.5	30.1	2		2250	563	77.	382.2	28.6
1		0225	30	15.	11.0	3.7	2		0040	297	90.	418.8	30.1	2		2255	564	77.	381.7	28.5
1		0230	31	17.	12.4	4.1	2		0045	298	90.	419.0	30.1	2		2300	565	77.	381.2	28.5
1		0235	32	19.	13.8	4.6	2		0050	299	90.	419.2	30.1	2		2305	566	77.	380.8	28.5
1		0240	33	21.	15.3	5.1	2		0055	300	90.	419.5	30.1	2		2310	567	77.	380.3	28.5
1		0245	34	22.	16.7	5.4	2		0100	301	90.	419.7	30.1	2		2315	568	77.	379.9	28.5
1		0250	35	22.	18.3	5.8	2		0105	302	90.	419.9	30.1	2		2320	569	76.	379.4	28.5
1		0255	36	23.	19.9	6.1	2		0110	303	90.	420.2	30.1	2		2325	570	76.	379.0	28.4
1		0300	37	24.	21.5	6.5	2		0115	304	90.	420.4	30.2	2		2330	571	76.	378.5	28.4
1		0305	38	24.	23.1	6.8	2		0120	305	90.	420.6	30.2	2		2335	572	76.	378.1	28.4
1		0310	39	25.	25.3	7.3	2		0125	306	90.	420.8	30.2	2		2340	573	76.	377.6	28.4
1		0315	40	27.	28.7	8.1	2		0130	307	90.	421.0	30.2	2		2345	574	76.	377.2	28.4
1		0320	41	29.	34.3	9.4	2		0135	308	90.	421.3	30.2	2		2350	575	75.	376.7	28.3
1		0325	42	31.	43.8	10.6	2		0140	309	90.	421.5	30.2	2		2355	576	75.	376.3	28.3
1		0330	43	33.	58.7	12.0	2		0145	310	90.	421.7	30.2	3		0000	577	75.	375.9	28.3
1		0335	44	36.	79.0	14.0	2		0150	311	90.	421.9	30.2	3		0005	578	75.	375.4	28.3
1		0340	45	38.	102.2	15.8	2		0155	312	90.	422.1	30.2	3		0010	579	75.	375.0	28.3
1		0345	46	39.	125.0	17.2	2		0200	313	90.	422.3	30.2	3		0015	580	75.	374.5	28.2
1		0350	47	40.	145.6	18.5	2		0205	314	90.	422.5	30.2	3		0020	581	74.	374.1	28.2
1		0355	48	42.	163.0	19.6	2		0210	315	90.	422.7	30.2	3		0025	582	74.	373.7	28.2
1		0400	49	42.	177.2	20.3	2		0215	316	90.	422.9	30.2	3		0030	583	74.	373.2	28.2
1		0405	50	43.	188.8	20.7	2		0220	317	90.	423.1	30.3	3		0035	584	74.	372.8	28.2
1		0410	51	43.	198.2	21.1	2		0225	318	90.	423.3	30.3	3		0040	585	74.	372.4	28.2
1		0415	52	43.	205.8	21.4	2		0230	319	90.	423.5	30.3	3		0045	586	74.	371.9	28.1
1		0420	53	43.	212.1	21.6	2		0235	320	90.	423.7	30.3	3		0050	587	73.	371.5	28.1
1		0425	54	43.	217.4	21.9	2		0240	321	90.	423.9	30.3	3		0055	588	73.	371.1	28.1
1		0430	55	44.	222.6	22.1	2		0245	322	90.	424.1	30.3	3		0100	589	73.	370.6	28.1
1		0435	56	44.	228.0	22.3	2		0250	323	90.	424.3	30.3	3		0105	590	73.	370.2	28.1
1		0440	57	44.	233.9	22.5	2		0255	324	90.	424.5	30.3	3		0110	591	73.	369.8	28.0
1		0445	58	44.	240.2	22.7	2		0300	325	90.	424.7	30.3	3		0115	592	73.	369.4	28.0
1		0450	59	44.	246.7	23.0	2		0305	326	90.	424.8	30.3	3		0120	593	72.	368.9	28.0
1		0455	60	45.	253.3	23.3	2		0310	327	90.	425.0	30.3	3		0125	594	72.	368.5	28.0
1		0500	61	45.	259.8	23.5	2		0315	328	90.	425.2	30.3	3		0130	595	72.	368.1	28.0
1		0505	62	45.	265.8	23.7	2		0320	329	90.	425.4	30.3	3		0135	596	72.	367.7	28.0
1		0510	63	45.	271.0	23.9	2		0325	330	90.	425.6	30.3	3		0140	597	72.	367.2	27.9
1		0515	64	45.	275.4	24.1	2		0330	331	90.	425.7	30.3	3		0145	598	72.	366.8	27.9
1		0520	65	45.	279.0	24.3	2		0335	332	90.	425.9	30.4	3		0150	599	72.	366.4	27.9
1		0525	66	46.	282.0	24.4	2		0340	333	91.	426.1	30.4	3		0155	600	71.	366.0	27.9
1		0530	67	46.	284.6	24.5	2		0345	334	91.	426.2	30.4	3		0200	601	71.	365.6	27.9
1		0535	68	46.	286.8	24.6	2		0350	335	91.	426.4	30.4	3		0205	602	71.	365.2	27.8

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1	1335	164	71.	364.9	27.8 *	2	1150	431	91.	432.4	30.6 *	3	1005	698	58.	329.8	26.3
1	1340	165	71.	365.5	27.9 *	2	1155	432	91.	432.3	30.6 *	3	1010	699	58.	329.5	26.3
1	1345	166	71.	366.1	27.9 *	2	1200	433	91.	432.3	30.6 *	3	1015	700	58.	329.2	26.3
1	1350	167	72.	366.7	27.9 *	2	1205	434	91.	432.2	30.6 *	3	1020	701	57.	328.8	26.3
1	1355	168	72.	367.3	27.9 *	2	1210	435	91.	432.2	30.6 *	3	1025	702	57.	328.5	26.3
1	1400	169	72.	367.9	28.0 *	2	1215	436	91.	432.1	30.6 *	3	1030	703	57.	328.2	26.3
1	1405	170	72.	368.5	28.0 *	2	1220	437	91.	432.0	30.6 *	3	1035	704	57.	327.9	26.3
1	1410	171	72.	369.0	28.0 *	2	1225	438	91.	431.9	30.6 *	3	1040	705	57.	327.5	26.3
1	1415	172	73.	369.6	28.0 *	2	1230	439	91.	431.8	30.6 *	3	1045	706	57.	327.2	26.2
1	1420	173	73.	370.2	28.1 *	2	1235	440	91.	431.8	30.6 *	3	1050	707	57.	326.9	26.2
1	1425	174	73.	370.7	28.1 *	2	1240	441	91.	431.7	30.6 *	3	1055	708	57.	326.6	26.2
1	1430	175	73.	371.3	28.1 *	2	1245	442	91.	431.6	30.6 *	3	1100	709	57.	326.3	26.2
1	1435	176	74.	371.8	28.1 *	2	1250	443	91.	431.5	30.6 *	3	1105	710	56.	326.0	26.2
1	1440	177	74.	372.4	28.2 *	2	1255	444	91.	431.4	30.5 *	3	1110	711	56.	325.6	26.2
1	1445	178	74.	373.0	28.2 *	2	1300	445	91.	431.2	30.5 *	3	1115	712	56.	325.3	26.2
1	1450	179	74.	373.5	28.2 *	2	1305	446	91.	431.1	30.5 *	3	1120	713	56.	325.0	26.1
1	1455	180	74.	374.1	28.2 *	2	1310	447	91.	431.0	30.5 *	3	1125	714	56.	324.7	26.1
1	1500	181	75.	374.6	28.2 *	2	1315	448	91.	430.9	30.5 *	3	1130	715	56.	324.4	26.1
1	1505	182	75.	375.1	28.3 *	2	1320	449	91.	430.8	30.5 *	3	1135	716	56.	324.1	26.1
1	1510	183	75.	375.7	28.3 *	2	1325	450	91.	430.6	30.5 *	3	1140	717	56.	323.8	26.1
1	1515	184	75.	376.2	28.3 *	2	1330	451	91.	430.5	30.5 *	3	1145	718	55.	323.5	26.1
1	1520	185	75.	376.7	28.3 *	2	1335	452	91.	430.3	30.5 *	3	1150	719	55.	323.1	26.1
1	1525	186	76.	377.3	28.4 *	2	1340	453	91.	430.2	30.5 *	3	1155	720	55.	322.8	26.1
1	1530	187	76.	377.8	28.4 *	2	1345	454	91.	430.1	30.5 *	3	1200	721	55.	322.5	26.0
1	1535	188	76.	378.3	28.4 *	2	1350	455	91.	429.9	30.5 *	3	1205	722	55.	322.2	26.0
1	1540	189	76.	378.8	28.4 *	2	1355	456	91.	429.7	30.5 *	3	1210	723	55.	321.9	26.0
1	1545	190	76.	379.4	28.4 *	2	1400	457	91.	429.6	30.5 *	3	1215	724	55.	321.6	26.0
1	1550	191	77.	379.9	28.5 *	2	1405	458	91.	429.4	30.5 *	3	1220	725	55.	321.3	26.0
1	1555	192	77.	380.4	28.5 *	2	1410	459	91.	429.3	30.5 *	3	1225	726	55.	321.0	26.0
1	1600	193	77.	380.9	28.5 *	2	1415	460	91.	429.1	30.5 *	3	1230	727	54.	320.7	26.0
1	1605	194	77.	381.4	28.5 *	2	1420	461	91.	428.9	30.5 *	3	1235	728	54.	320.4	25.9
1	1610	195	77.	381.9	28.6 *	2	1425	462	91.	428.7	30.5 *	3	1240	729	54.	320.1	25.9
1	1615	196	77.	382.4	28.6 *	2	1430	463	91.	428.5	30.4 *	3	1245	730	54.	319.8	25.9
1	1620	197	78.	382.9	28.6 *	2	1435	464	91.	428.3	30.4 *	3	1250	731	54.	319.5	25.9
1	1625	198	78.	383.4	28.6 *	2	1440	465	91.	428.1	30.4 *	3	1255	732	54.	319.2	25.9
1	1630	199	78.	383.9	28.6 *	2	1445	466	91.	427.8	30.4 *	3	1300	733	54.	318.9	25.9
1	1635	200	78.	384.4	28.7 *	2	1450	467	91.	427.6	30.4 *	3	1305	734	54.	318.6	25.9
1	1640	201	78.	384.8	28.7 *	2	1455	468	91.	427.3	30.4 *	3	1310	735	54.	318.3	25.9
1	1645	202	79.	385.3	28.7 *	2	1500	469	91.	427.1	30.4 *	3	1315	736	53.	318.0	25.8
1	1650	203	79.	385.8	28.7 *	2	1505	470	91.	426.8	30.4 *	3	1320	737	53.	317.7	25.8
1	1655	204	79.	386.3	28.7 *	2	1510	471	91.	426.5	30.4 *	3	1325	738	53.	317.4	25.8
1	1700	205	79.	386.8	28.8 *	2	1515	472	91.	426.2	30.4 *	3	1330	739	53.	317.1	25.8
1	1705	206	79.	387.2	28.8 *	2	1520	473	90.	425.9	30.4 *	3	1335	740	53.	316.8	25.8
1	1710	207	79.	387.7	28.8 *	2	1525	474	90.	425.5	30.3 *	3	1340	741	53.	316.5	25.8
1	1715	208	80.	388.2	28.8 *	2	1530	475	90.	425.2	30.3 *	3	1345	742	53.	316.2	25.8
1	1720	209	80.	388.6	28.8 *	2	1535	476	90.	424.9	30.3 *	3	1350	743	53.	315.9	25.8
1	1725	210	80.	389.1	28.9 *	2	1540	477	90.	424.5	30.3 *	3	1355	744	53.	315.7	25.7
1	1730	211	80.	389.5	28.9 *	2	1545	478	90.	424.2	30.3 *	3	1400	745	52.	315.4	25.7
1	1735	212	80.	390.0	28.9 *	2	1550	479	90.	423.8	30.3 *	3	1405	746	52.	315.1	25.7
1	1740	213	80.	390.4	28.9 *	2	1555	480	90.	423.4	30.3 *	3	1410	747	52.	314.8	25.7
1	1745	214	81.	390.9	28.9 *	2	1600	481	90.	423.0	30.3 *	3	1415	748	52.	314.5	25.7
1	1750	215	81.	391.3	29.0 *	2	1605	482	90.	422.6	30.2 *	3	1420	749	52.	314.2	25.7
1	1755	216	81.	391.8	29.0 *	2	1610	483	90.	422.2	30.2 *	3	1425	750	52.	313.9	25.7
1	1800	217	81.	392.2	29.0 *	2	1615	484	90.	421.7	30.2 *	3	1430	751	52.	313.6	25.7
1	1805	218	81.	392.6	29.0 *	2	1620	485	90.	421.3	30.2 *	3	1435	752	52.	313.4	25.7
1	1810	219	81.	393.1	29.0 *	2	1625	486	90.	420.8	30.2 *	3	1440	753	52.	313.1	25.6
1	1815	220	82.	393.5	29.0 *	2	1630	487	90.	420.3	30.2 *	3	1445	754	52.	312.8	25.6
1	1820	221	82.	393.9	29.1 *	2	1635	488	90.	419.8	30.1 *	3	1450	755	51.	312.5	25.6
1	1825	222	82.	394.4	29.1 *	2	1640	489	90.	419.2	30.1 *	3	1455	756	51.	312.2	25.6
1	1830	223	82.	394.8	29.1 *	2	1645	490	90.	418.7	30.1 *	3	1500	757	51.	311.9	25.6
1	1835	224	82.	395.2	29.1 *	2	1650	491	90.	418.2	30.1 *	3	1505	758	51.	311.7	25.6
1	1840	225	82.	395.6	29.1 *	2	1655	492	90.	417.7	30.1 *	3	1510	759	51.	311.4	25.6
1	1845	226	83.	396.0	29.2 *	2	1700	493	90.	417.1	30.0 *	3	1515	760	51.	311.1	25.6
1	1850	227	83.	396.4	29.2 *	2	1705	494	90.	416.6	30.0 *	3	1520	761	51.	310.8	25.5
1	1855	228	83.	396.9	29.2 *	2	1710	495	90.	416.1	30.0 *	3	1525	762	51.	310.6	25.5
1	1900	229	83.	397.3	29.2 *	2	1715	496	90.	415.5	30.0 *	3	1530	763	51.	310.3	25.5
1	1905	230	83.	397.7	29.2 *	2	1720	497	90.	415.0	30.0 *	3	1535	764	50.	310.0	25.5
1	1910	231	83.	398.1	29.2 *	2	1725	498	89.	414.5	29.9 *	3	1540	765	50.	309.7	25.5
1	1915	232	83.	398.5	29.3 *	2	1730	499	89.	413.9	29.9 *	3	1545	766	50.	309.4	25.5
1	1920	233	84.	398.9	29.3 *	2	1735	500	89.	413.4	29.9 *	3	1550	767	50.	309.2	25.5
1	1925	234	84.	399.3	29.3 *	2	1740	501	89.	412.9	29.9 *	3	1555	768	50.	308.9	25.5
1	1930	235	84.	399.6	29.3 *	2	1745	502	89.	412.3	29.8 *	3	1600	769	50.	308.6	25.5
1	1935	236	84.	400.0	29.3 *	2	1750	503	88.	411.8	29.8 *	3	1605	770	50.	308.4	25.4
1	1940	237	84.	400.4	29.3 *	2	1755	504	88.	411.3	29.8 *	3	1610	771	50.	308.1	25.4
1	1945	238	84.	400.8	29.4 *	2	1800	505	88.	410.7	29.8 *	3	1615	772	50.	307.8	25.4
1	1950	239	84.	401.2	29.4 *	2	1805	506	88.	410.2	29.8 *	3	1620	773	50.	307.5	25.4
1	1955	240	85.	401.6	29.4 *	2	1810	507	88.	409.7	29.7 *	3	1625	774	49.	307.3	25.4
1	2000	241	85.	401.9	29.4 *	2	1815	508	87.	409.2	29.7 *	3	1630	775	49.	307.0	25.4
1	2005	242	85.	402.3	29.4 *	2	1820	509	87.	408.6	29.7 *	3	1635	776	49.	306.7	25.4
1	2010	243	85.	402.7	29.4 *	2	1825	510	87.	408.1	29.7 *	3	1640	777	49.	306.5	25.4
1	2015	244	85.	403.0	29.5 *	2	1830	511	87.	407.6	29.6 *	3	1645	778	49.	306.2	25.3
1	2020	245	85.	403.4	29.5 *	2	1835	512	87.	407.1	29.6 *	3	1650	779	49.	305.9	25.3
1	2025	246	85.	403.8	29.5 *	2	1840	513	86.	406.5	29.6 *	3	1655	780	49.	305.7	25.3
1	2030	247	86.	404.1	29.5 *	2	1845	514	86.	406.0	29.6 *	3	1700	781	49.	305.4	25.3
1	2035	248	86.	404.5	29.5 *	2	1850	515	86.	405.5	29.6 *	3	1705	782	49.	305.1	25.3
1	2040	249	86.	404.8	29.5 *	2	1855	516	86.	405.0	29.5 *	3	1710	783	49.	304.9	25.3
1	2045	250	86.	405.2	29.5 *	2	1900	517	86.	404.5	29.5 *	3	1715	784	48.	304.6	25.3
1	2050	251	86.	405.5	29.6 *	2	1905	518	86.	404.0	29.5 *	3	1720	785	48.	304.4	25.3
1	2055	252	86.	405.9	29.6 *	2	1910	519	85.	403.4	29.5 *	3	1725	786	48.	304.1	25.3
1	2100	253	86.	406.2	29.6 *	2	1915	520	85.	402.9	29.4 *	3	1730	787	48.	303.8	25.2
1	2105	254	86.	406.5	29.6 *	2	1920	521	85.	402.4	29.4 *	3	1735	788	48.	303.6	25.2
1	2110	255	87.	406.9	29.6 *	2	1925	522	85.	401.9	29.4 *	3	1740	789	48.	303.3	25.2
1	2115	256	87.	407.2	29.6 *	2	1930	523	85.	401.4	29.4 *	3	1745	790	48.	303.1	25.2
1	2120	257	87.	407.5	29.6 *	2	1935	524	84.	400.9	29.4 *	3	1750	791	48.	302.8	25.2
1	2125	258	87.	407.9	29.7 *	2	1940	525	84.	400.4	29.3 *	3	1755	792	48.	302.5	25.2

1	2130	259	87.	408.2	29.7	*	2	1945	526	84.	399.9	29.3	*	3	1800	793	48.	302.3	25.2
1	2135	260	87.	408.5	29.7	*	2	1950	527	84.	399.4	29.3	*	3	1805	794	48.	302.0	25.2
1	2140	261	87.	408.8	29.7	*	2	1955	528	84.	398.9	29.3	*	3	1810	795	47.	301.8	25.2
1	2145	262	87.	409.2	29.7	*	2	2000	529	83.	398.4	29.3	*	3	1815	796	47.	301.5	25.1
1	2150	263	88.	409.5	29.7	*	2	2005	530	83.	397.9	29.2	*	3	1820	797	47.	301.3	25.1
1	2155	264	88.	409.8	29.7	*	2	2010	531	83.	397.4	29.2	*	3	1825	798	47.	301.0	25.1
1	2200	265	88.	410.1	29.7	*	2	2015	532	83.	396.9	29.2	*	3	1830	799	47.	300.8	25.1
1	2205	266	88.	410.4	29.8	*	2	2020	533	83.	396.4	29.2	*	3	1835	800	47.	300.5	25.1
1	2210	267	88.	410.7	29.8	*	2	2025	534	83.	395.9	29.1	*						
						*							*						

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PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	66.58-HR
(CFS)	(HR)				
	(CFS)				
91.	33.83	91.	90.	70.	70.
	(INCHES)	.081	.318	.691	.691
	(AC-FT)	45.	178.	386.	386.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	66.58-HR
(AC-FT)	(HR)				
433.	34.08	432.	422.	353.	353.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	66.58-HR
(FEET)	(HR)				
30.60	34.08	30.58	30.21	26.78	26.78

CUMULATIVE AREA = 10.47 SQ MI

1

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

OPERATION	STATION	AREA	PLAN		RATIOS APPLIED TO PRECIPITATION RATIO 1 1.00	RATIO 2 .98	RATIO 3 .97	RATIO 4 .95	RATIO 5 .93	RATIO 6 .91	RATIO 7 .90	RATIO 8 .88
HYDROGRAPH AT												
CAMDK1		.09	1	FLOW	126.	123.	121.	118.	114.	110.	109.	105.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
RCAMDK1		.09	1	FLOW	125.	123.	120.	118.	113.	110.	108.	104.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
CAMDK2		.25	1	FLOW	366.	356.	351.	342.	331.	321.	316.	306.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT												
COMDK2		.34	1	FLOW	491.	479.	471.	460.	444.	431.	424.	411.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO												
RCAMDK2		.34	1	FLOW	478.	465.	456.	447.	430.	416.	413.	399.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.75
HYDROGRAPH AT												
CAMDK3		.37	1	FLOW	485.	472.	465.	454.	439.	426.	420.	407.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
2 COMBINED AT												
COMDK3		.71	1	FLOW	961.	934.	919.	898.	866.	840.	830.	806.
				TIME	3.67	3.67	3.67	3.67	3.67	3.75	3.75	3.75
HYDROGRAPH AT												
CAM10D		.04	1	FLOW	88.	86.	85.	83.	81.	79.	78.	77.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
CAM10a		1.67	1	FLOW	1828.	1779.	1754.	1710.	1656.	1606.	1582.	1533.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
HYDROGRAPH AT												
CAM10b		.03	1	FLOW	60.	58.	57.	56.	54.	53.	52.	50.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
CAM10c		1.30	1	FLOW	1435.	1397.	1377.	1343.	1300.	1262.	1243.	1204.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
5 COMBINED AT												
COMCAM		3.75	1	FLOW	4149.	4037.	3983.	3882.	3759.	3647.	3592.	3482.
				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
ROUTED TO												
DETCAM10		3.75	1	FLOW	1025.	852.	737.	509.	168.	166.	165.	163.
				TIME	5.25	5.33	5.42	5.58	6.08	6.08	6.08	6.00

** PEAK STAGES IN FEET **

			1	STAGE	3000.32	3000.26	3000.21	3000.13	2999.93	2999.35	2999.07	2998.50
				TIME	5.25	5.33	5.42	5.58	6.08	6.08	6.08	6.08
ROUTED TO												
+	RCAM10	3.75	1	FLOW	1008.	828.	724.	506.	168.	166.	165.	163.
				TIME	5.25	5.33	5.42	5.58	6.08	6.08	6.08	6.08
HYDROGRAPH AT												
+	CDMNA3	.14	1	FLOW	167.	162.	159.	155.	149.	144.	142.	136.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	EFPOA1	.31	1	FLOW	351.	340.	334.	324.	312.	300.	295.	284.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT												
+	COM1A	.45	1	FLOW	518.	502.	494.	479.	461.	445.	436.	420.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO												
+	RCOM1A	.45	1	FLOW	509.	492.	484.	469.	451.	435.	427.	411.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	EFPOA2	.23	1	FLOW	245.	237.	233.	226.	217.	209.	205.	197.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT												
+	COM1B	.68	1	FLOW	754.	729.	716.	695.	667.	644.	632.	608.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO												
+	RCOM1B	.68	1	FLOW	735.	710.	698.	677.	651.	628.	616.	595.
				TIME	3.67	3.67	3.67	3.67	3.75	3.75	3.75	3.75
HYDROGRAPH AT												
+	EFPOB1	.24	1	FLOW	298.	290.	285.	277.	268.	259.	255.	246.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
3 COMBINED AT												
+	COM2	4.66	1	FLOW	1164.	1103.	1086.	1055.	1018.	986.	970.	938.
				TIME	5.25	3.67	3.67	3.67	3.75	3.75	3.75	3.75
ROUTED TO												
+	RCOM2	4.66	1	FLOW	1143.	1099.	1082.	1054.	1016.	984.	967.	935.
				TIME	5.25	3.75	3.75	3.75	3.75	3.75	3.75	3.75
HYDROGRAPH AT												
+	EFPOB2	.26	1	FLOW	396.	384.	379.	368.	356.	344.	339.	327.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	COM3	4.93	1	FLOW	1462.	1418.	1396.	1356.	1308.	1266.	1244.	1199.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	WBCA	.06	1	FLOW	75.	73.	72.	71.	69.	67.	66.	64.
				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
HYDROGRAPH AT												
+	HLBW1-CA	.39	1	FLOW	502.	487.	480.	467.	451.	437.	430.	416.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
3 COMBINED AT												
+	COM4	5.38	1	FLOW	2029.	1969.	1939.	1884.	1819.	1761.	1731.	1670.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO												
+	RCOM4	5.38	1	FLOW	2007.	1947.	1917.	1862.	1798.	1739.	1710.	1652.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.75
HYDROGRAPH AT												
+	HLBW1-CB	.12	1	FLOW	145.	140.	138.	134.	129.	125.	123.	118.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT												
+	COM5	5.50	1	FLOW	2152.	2087.	2055.	1996.	1927.	1864.	1833.	1767.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO												
+	RCOM5	5.50	1	FLOW	2130.	2065.	2034.	1978.	1909.	1850.	1819.	1758.
				TIME	3.67	3.67	3.67	3.75	3.75	3.75	3.75	3.75
HYDROGRAPH AT												
+	WBAW	.06	1	FLOW	81.	79.	78.	76.	73.	71.	70.	68.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	WRBW1	.24	1	FLOW	309.	300.	295.	287.	277.	268.	263.	254.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
3 COMBINED AT												
+	COM6	5.80	1	FLOW	2520.	2444.	2407.	2337.	2256.	2182.	2144.	2068.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67

ROUTED TO											
+	RCOM6	5.80	1	FLOW	2484.	2406.	2372.	2303.	2224.	2152.	2118.	2046.
				TIME	3.67	3.67	3.67	3.75	3.75	3.75	3.75	3.75
HYDROGRAPH AT											
+	LWBW1C	.06	1	FLOW	98.	96.	94.	92.	89.	86.	85.	83.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT											
+	LMDBN	.02	1	FLOW	34.	33.	32.	31.	30.	29.	29.	28.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT											
+	CLMDBN	5.88	1	FLOW	2589.	2508.	2474.	2400.	2314.	2239.	2200.	2119.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT											
+	BOXCANYO	3.41	1	FLOW	2842.	2762.	2722.	2649.	2562.	2482.	2442.	2363.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO											
+	DBOXDET	3.41	1	FLOW	15.	14.	14.	14.	13.	13.	13.	12.
				TIME	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67
			**	PEAK STAGES IN FEET **								
			1	STAGE	38.88	37.77	37.21	36.22	35.01	33.92	33.37	32.28
				TIME	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75
ROUTED TO											
+	RBOXDET	3.41	1	FLOW	15.	14.	14.	14.	13.	13.	13.	12.
				TIME	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75
HYDROGRAPH AT											
+	LWBW1A	.32	1	FLOW	399.	386.	380.	369.	356.	343.	337.	325.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT											
+	UVB1-2A	.25	1	FLOW	365.	354.	349.	340.	328.	318.	313.	302.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
DIVERSION TO											
+	EDIV2A	.25	1	FLOW	282.	282.	282.	282.	282.	282.	282.	282.
				TIME	3.50	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT											
+	NDIV2A	.25	1	FLOW	83.	72.	67.	58.	46.	36.	31.	20.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO											
+	RUVB1-2A	.25	1	FLOW	79.	72.	65.	55.	43.	30.	24.	17.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
3 COMBINED AT											
+	COM7	3.98	1	FLOW	480.	461.	447.	427.	401.	375.	363.	344.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO											
+	RCOM7	3.98	1	FLOW	470.	449.	437.	417.	392.	369.	357.	339.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT											
+	UVB1-2B	.02	1	FLOW	38.	37.	37.	36.	35.	34.	33.	33.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT											
+	LWBW1B	.08	1	FLOW	135.	132.	130.	127.	123.	120.	118.	115.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT											
+	COM8	4.08	1	FLOW	609.	584.	570.	547.	518.	491.	478.	456.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO											
+	RCOM8	4.08	1	FLOW	604.	580.	565.	543.	515.	489.	476.	455.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT											
+	RETDIV2A	.00	1	FLOW	282.	282.	282.	282.	282.	282.	282.	282.
				TIME	3.50	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO											
+	RDIV2A	.00	1	FLOW	282.	282.	282.	282.	282.	282.	282.	282.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT											
+	UVB1-2C	.03	1	FLOW	59.	58.	57.	56.	54.	53.	52.	50.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT											
+	COM10	.03	1	FLOW	341.	340.	338.	336.	332.	330.	328.	325.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT											
+	COM9	4.11	1	FLOW	932.	906.	891.	867.	838.	811.	798.	775.

				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	UVB1-1C	.02	1	FLOW	38.	37.	37.	36.	35.	34.	33.	32.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
ROUTED TO												
+	RUVB1-1C	.02	1	FLOW	35.	34.	34.	33.	32.	31.	31.	30.
				TIME	3.50	3.50	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	UVB1-1B	.01	1	FLOW	26.	26.	25.	25.	24.	23.	23.	22.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	COM11	.03	1	FLOW	62.	60.	59.	58.	56.	54.	54.	52.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	UVB1-1A	.22	1	FLOW	413.	403.	398.	389.	378.	368.	363.	352.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	RUVB1-1A	.22	1	FLOW	409.	399.	394.	385.	374.	363.	358.	348.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	UVB1-1D	.04	1	FLOW	70.	68.	67.	66.	64.	62.	61.	59.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	COM12	.26	1	FLOW	474.	462.	456.	446.	433.	421.	415.	404.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	RCOM12	.26	1	FLOW	470.	458.	453.	442.	430.	417.	411.	400.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	UVB1-1E	.03	1	FLOW	56.	55.	54.	53.	51.	50.	49.	48.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
ROUTED TO												
+	RUVB1-1E	.03	1	FLOW	54.	53.	51.	50.	49.	48.	47.	46.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT												
+	COM13	.31	1	FLOW	580.	565.	558.	545.	530.	515.	508.	494.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	WBCL	.03	1	FLOW	60.	59.	58.	57.	55.	54.	53.	51.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	LMBW1	.08	1	FLOW	112.	109.	107.	104.	100.	96.	94.	91.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT												
+	COM14	.43	1	FLOW	753.	733.	723.	706.	685.	665.	655.	636.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	LMDBS	.06	1	FLOW	92.	90.	88.	86.	83.	80.	79.	76.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
3 COMBINED AT												
+	CLMDBS	4.60	1	FLOW	1739.	1689.	1666.	1626.	1578.	1534.	1513.	1470.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CLMBWCDB	10.47	1	FLOW	4200.	4076.	4017.	3905.	3771.	3652.	3591.	3471.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO												
+	LMBWCDB	10.47	1	FLOW	95.	94.	94.	93.	92.	92.	91.	91.
				TIME	35.50	35.58	35.67	35.75	35.92	35.25	34.58	33.83
			** PEAK STAGES IN FEET **									
			1	STAGE	33.73	33.09	32.79	32.27	31.68	31.23	31.02	30.60
				TIME	35.75	35.83	35.92	36.00	36.00	35.25	34.92	34.08
HYDROGRAPH AT												
+	WBLM	.08	1	FLOW	129.	126.	124.	121.	117.	114.	112.	109.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	COM15	10.55	1	FLOW	167.	163.	161.	158.	154.	150.	148.	145.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	RLMBWDB	10.55	1	FLOW	163.	160.	158.	155.	151.	147.	146.	142.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67

SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING

(FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

ISTAQ	ELEMENT	DT	PEAK	TIME TO PEAK	VOLUME	DT	INTERPOLATED TO COMPUTATION INTERVAL PEAK	TIME TO PEAK	VOLUME
		(MIN)	(CFS)	(MIN)	(IN)	(MIN)	(CFS)	(MIN)	(IN)
FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.62	125.85	220.97	2.04	5.00	124.90	220.00	2.04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9257E+01 EXCESS= .0000E+00 OUTFLOW= .9263E+01 BASIN STORAGE= .2702E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.66	123.01	219.62	1.98	5.00	122.80	220.00	1.99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8992E+01 EXCESS= .0000E+00 OUTFLOW= .8997E+01 BASIN STORAGE= .2442E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.68	120.82	220.79	1.96	5.00	119.80	220.00	1.95

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8857E+01 EXCESS= .0000E+00 OUTFLOW= .8863E+01 BASIN STORAGE= .2048E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.72	118.38	219.24	1.90	5.00	118.06	220.00	1.90

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8623E+01 EXCESS= .0000E+00 OUTFLOW= .8628E+01 BASIN STORAGE= .2725E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.76	113.77	221.94	1.84	5.00	113.27	220.00	1.84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8333E+01 EXCESS= .0000E+00 OUTFLOW= .8339E+01 BASIN STORAGE= .2339E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.81	110.66	220.69	1.78	5.00	109.59	220.00	1.78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8069E+01 EXCESS= .0000E+00 OUTFLOW= .8074E+01 BASIN STORAGE= .2146E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.83	108.63	221.99	1.75	5.00	108.01	220.00	1.75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7940E+01 EXCESS= .0000E+00 OUTFLOW= .7945E+01 BASIN STORAGE= .2375E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.87	105.52	220.80	1.69	5.00	104.32	220.00	1.69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7678E+01 EXCESS= .0000E+00 OUTFLOW= .7683E+01 BASIN STORAGE= .2151E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK2	MANE	2.22	482.61	221.72	2.06	5.00	477.89	220.00	2.06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3740E+02 EXCESS= .0000E+00 OUTFLOW= .3741E+02 BASIN STORAGE= .2447E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCAMDK2	MANE	2.24	470.05	223.78	2.00	5.00	464.58	220.00	2.00

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3634E+02 EXCESS= .0000E+00 OUTFLOW= .3634E+02 BASIN STORAGE= .2664E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCAMDK2	MANE	2.25	464.84	222.92	1.97	5.00	456.22	220.00	1.97

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3579E+02 EXCESS= .0000E+00 OUTFLOW= .3580E+02 BASIN STORAGE= .2466E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCAMDK2	MANE	2.27	454.86	222.56	1.92	5.00	446.57	220.00	1.92

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3485E+02 EXCESS= .0000E+00 OUTFLOW= .3485E+02 BASIN STORAGE= .2759E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCAMDK2	MANE	2.30	437.88	223.15	1.86	5.00	429.88	220.00	1.86

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3367E+02 EXCESS= .0000E+00 OUTFLOW= .3367E+02 BASIN STORAGE= .2346E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAMDK2	MANE	2.33	424.38	223.41	1.80	5.00	416.22	220.00	1.80

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3260E+02 EXCESS= .0000E+00 OUTFLOW= .3261E+02 BASIN STORAGE= .2260E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAMDK2	MANE	2.34	419.81	222.34	1.77	5.00	413.21	220.00	1.77

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3211E+02 EXCESS= .0000E+00 OUTFLOW= .3211E+02 BASIN STORAGE= .2205E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAMDK2	MANE	2.37	405.94	222.67	1.71	5.00	398.71	225.00	1.71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3105E+02 EXCESS= .0000E+00 OUTFLOW= .3105E+02 BASIN STORAGE= .2094E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	1.83	1018.10	317.21	2.16	5.00	1007.66	315.00	2.16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4319E+03 EXCESS= .0000E+00 OUTFLOW= .4319E+03 BASIN STORAGE= .2978E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	1.90	839.36	323.44	2.10	5.00	827.59	320.00	2.10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4197E+03 EXCESS= .0000E+00 OUTFLOW= .4197E+03 BASIN STORAGE= .2920E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	1.96	729.32	327.11	2.07	5.00	723.58	325.00	2.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4136E+03 EXCESS= .0000E+00 OUTFLOW= .4136E+03 BASIN STORAGE= .2793E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	2.11	506.32	335.42	2.01	5.00	506.01	335.00	2.01

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4027E+03 EXCESS= .0000E+00 OUTFLOW= .4027E+03 BASIN STORAGE= .2783E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	2.63	168.26	365.84	1.95	5.00	168.26	365.00	1.95

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3893E+03 EXCESS= .0000E+00 OUTFLOW= .3893E+03 BASIN STORAGE= .2959E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	2.64	166.20	366.74	1.89	5.00	166.20	365.00	1.89

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3772E+03 EXCESS= .0000E+00 OUTFLOW= .3772E+03 BASIN STORAGE= .2918E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	2.64	165.20	364.54	1.86	5.00	165.20	365.00	1.86

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3713E+03 EXCESS= .0000E+00 OUTFLOW= .3713E+03 BASIN STORAGE= .2778E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	2.65	163.16	365.45	1.80	5.00	163.16	365.00	1.80

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3593E+03 EXCESS= .0000E+00 OUTFLOW= .3593E+03 BASIN STORAGE= .3052E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.35	514.38	221.58	1.60	5.00	508.79	220.00	1.60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3852E+02 EXCESS= .0000E+00 OUTFLOW= .3852E+02 BASIN STORAGE= .2138E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.37	497.26	221.74	1.55	5.00	491.95	220.00	1.55

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3726E+02 EXCESS= .0000E+00 OUTFLOW= .3726E+02 BASIN STORAGE= .2074E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.38	488.66	221.83	1.52	5.00	483.55	220.00	1.52

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3663E+02 EXCESS= .0000E+00 OUTFLOW= .3663E+02 BASIN STORAGE= .1961E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.39	474.52	221.76	1.48	5.00	469.00	220.00	1.48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3551E+02 EXCESS= .0000E+00 OUTFLOW= .3551E+02 BASIN STORAGE= .2069E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.42	456.55	220.94	1.42	5.00	450.61	220.00	1.42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3414E+02 EXCESS= .0000E+00 OUTFLOW= .3414E+02 BASIN STORAGE= .2121E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.44	441.68	221.28	1.37	5.00	434.99	220.00	1.37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3291E+02 EXCESS= .0000E+00 OUTFLOW= .3291E+02 BASIN STORAGE= .1912E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.45	434.21	221.47	1.34	5.00	427.39	220.00	1.34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3230E+02 EXCESS= .0000E+00 OUTFLOW= .3230E+02 BASIN STORAGE= .1834E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.47	416.40	221.90	1.29	5.00	410.53	220.00	1.29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3108E+02 EXCESS= .0000E+00 OUTFLOW= .3108E+02 BASIN STORAGE= .1959E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.25	750.30	221.49	1.58	5.00	735.50	220.00	1.59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5729E+02 EXCESS= .0000E+00 OUTFLOW= .5729E+02 BASIN STORAGE= .2148E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.27	724.43	221.95	1.53	5.00	709.96	220.00	1.53

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5540E+02 EXCESS= .0000E+00 OUTFLOW= .5540E+02 BASIN STORAGE= .2362E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.28	711.59	222.21	1.51	5.00	698.10	220.00	1.51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5447E+02 EXCESS= .0000E+00 OUTFLOW= .5447E+02 BASIN STORAGE= .2081E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.29	690.10	221.09	1.46	5.00	676.86	220.00	1.46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5279E+02 EXCESS= .0000E+00 OUTFLOW= .5278E+02 BASIN STORAGE= .2010E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.31	663.99	222.02	1.40	5.00	650.70	225.00	1.40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5074E+02 EXCESS= .0000E+00 OUTFLOW= .5073E+02 BASIN STORAGE= .2199E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.33	640.88	221.24	1.35	5.00	628.27	225.00	1.35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4890E+02 EXCESS= .0000E+00 OUTFLOW= .4889E+02 BASIN STORAGE= .2379E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.34	630.06	221.50	1.33	5.00	616.27	225.00	1.33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4798E+02 EXCESS= .0000E+00 OUTFLOW= .4798E+02 BASIN STORAGE= .2121E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.36	604.44	222.34	1.28	5.00	594.56	225.00	1.28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4615E+02 EXCESS= .0000E+00 OUTFLOW= .4615E+02 BASIN STORAGE= .2023E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.33	1156.68	316.18	2.06	5.00	1143.29	315.00	2.06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5127E+03 EXCESS= .0000E+00 OUTFLOW= .5127E+03 BASIN STORAGE= .2549E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.36	1103.94	222.62	2.00	5.00	1098.55	225.00	2.00

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4979E+03 EXCESS= .0000E+00 OUTFLOW= .4979E+03 BASIN STORAGE= .2494E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.37	1087.34	222.63	1.97	5.00	1082.40	225.00	1.97

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4905E+03 EXCESS= .0000E+00 OUTFLOW= .4905E+03 BASIN STORAGE= .2595E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.38	1056.83	222.41	1.92	5.00	1054.06	225.00	1.92

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4772E+03 EXCESS= .0000E+00 OUTFLOW= .4772E+03 BASIN STORAGE= .2569E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.40	1019.67	222.80	1.85	5.00	1015.86	225.00	1.85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4611E+03 EXCESS= .0000E+00 OUTFLOW= .4611E+03 BASIN STORAGE= .2501E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.42	987.53	222.83	1.79	5.00	983.76	225.00	1.79

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4464E+03 EXCESS= .0000E+00 OUTFLOW= .4464E+03 BASIN STORAGE= .2549E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.43	970.64	222.93	1.77	5.00	966.93	225.00	1.77

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4393E+03 EXCESS= .0000E+00 OUTFLOW= .4392E+03 BASIN STORAGE= .2587E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.45	936.66	222.98	1.71	5.00	934.66	225.00	1.71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4247E+03 EXCESS= .0000E+00 OUTFLOW= .4247E+03 BASIN STORAGE= .2581E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.62	2027.84	220.72	2.05	5.00	2007.10	220.00	2.05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5876E+03 EXCESS= .0000E+00 OUTFLOW= .5876E+03 BASIN STORAGE= .1482E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.63	1968.17	220.85	1.99	5.00	1946.98	220.00	1.99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5706E+03 EXCESS= .0000E+00 OUTFLOW= .5706E+03 BASIN STORAGE= .1478E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.63	1938.16	220.94	1.96	5.00	1916.97	220.00	1.96

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5621E+03 EXCESS= .0000E+00 OUTFLOW= .5621E+03 BASIN STORAGE= .1441E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.64	1883.37	220.94	1.91	5.00	1861.99	220.00	1.91

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5468E+03 EXCESS= .0000E+00 OUTFLOW= .5468E+03 BASIN STORAGE= .1471E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.65	1818.77	220.81	1.84	5.00	1797.58	220.00	1.84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5282E+03 EXCESS= .0000E+00 OUTFLOW= .5282E+03 BASIN STORAGE= .1482E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

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     RCOM4  MANE          .66   1760.10    221.09      1.78      5.00   1738.80    220.00        1.78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5115E+03 EXCESS= .0000E+00 OUTFLOW= .5115E+03 BASIN STORAGE= .1474E-02 PERCENT ERROR=    .0

     FOR PLAN = 1  RATIO=  .00
     RCOM4  MANE          .66   1730.13    221.28      1.75      5.00   1710.13    220.00        1.75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5032E+03 EXCESS= .0000E+00 OUTFLOW= .5032E+03 BASIN STORAGE= .1457E-02 PERCENT ERROR=    .0

     FOR PLAN = 1  RATIO=  .00
     RCOM4  MANE          .67   1669.98    221.11      1.70      5.00   1652.44    225.00        1.70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4865E+03 EXCESS= .0000E+00 OUTFLOW= .4865E+03 BASIN STORAGE= .1483E-02 PERCENT ERROR=    .0

     FOR PLAN = 1  RATIO=  .00
     RCOM5  MANE          .55   2151.51    220.87      2.04      5.00   2129.68    220.00        2.04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5982E+03 EXCESS= .0000E+00 OUTFLOW= .5982E+03 BASIN STORAGE= .1304E-02 PERCENT ERROR=    .0

     FOR PLAN = 1  RATIO=  .00
     RCOM5  MANE          .55   2087.28    220.80      1.98      5.00   2065.19    220.00        1.98

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5808E+03 EXCESS= .0000E+00 OUTFLOW= .5808E+03 BASIN STORAGE= .1301E-02 PERCENT ERROR=    .0

     FOR PLAN = 1  RATIO=  .00
     RCOM5  MANE          .56   2054.99    221.06      1.95      5.00   2033.93    220.00        1.95

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5721E+03 EXCESS= .0000E+00 OUTFLOW= .5721E+03 BASIN STORAGE= .1301E-02 PERCENT ERROR=    .0

     FOR PLAN = 1  RATIO=  .00
     RCOM5  MANE          .56   1996.59    220.83      1.90      5.00   1977.58    225.00        1.90

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5566E+03 EXCESS= .0000E+00 OUTFLOW= .5566E+03 BASIN STORAGE= .1333E-02 PERCENT ERROR=    .0

     FOR PLAN = 1  RATIO=  .00
     RCOM5  MANE          .57   1927.43    221.11      1.83      5.00   1909.36    225.00        1.83

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5377E+03 EXCESS= .0000E+00 OUTFLOW= .5377E+03 BASIN STORAGE= .1329E-02 PERCENT ERROR=    .0

     FOR PLAN = 1  RATIO=  .00
     RCOM5  MANE          .58   1864.67    221.17      1.78      5.00   1849.87    225.00        1.78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5206E+03 EXCESS= .0000E+00 OUTFLOW= .5206E+03 BASIN STORAGE= .1325E-02 PERCENT ERROR=    .0

     FOR PLAN = 1  RATIO=  .00
     RCOM5  MANE          .58   1833.65    220.90      1.75      5.00   1819.44    225.00        1.75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5121E+03 EXCESS= .0000E+00 OUTFLOW= .5121E+03 BASIN STORAGE= .1309E-02 PERCENT ERROR=    .0

     FOR PLAN = 1  RATIO=  .00
     RCOM5  MANE          .59   1768.55    221.20      1.69      5.00   1758.35    225.00        1.69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4951E+03 EXCESS= .0000E+00 OUTFLOW= .4951E+03 BASIN STORAGE= .1337E-02 PERCENT ERROR=    .0

     FOR PLAN = 1  RATIO=  .00
     RCOM6  MANE          .82   2514.44    220.91      2.03      5.00   2483.72    220.00        2.03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6268E+03 EXCESS= .0000E+00 OUTFLOW= .6268E+03 BASIN STORAGE= .2140E-02 PERCENT ERROR=    .0

     FOR PLAN = 1  RATIO=  .00
     RCOM6  MANE          .83   2437.41    221.14      1.97      5.00   2405.60    220.00        1.97

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6085E+03 EXCESS= .0000E+00 OUTFLOW= .6085E+03 BASIN STORAGE= .2082E-02 PERCENT ERROR=    .0

     FOR PLAN = 1  RATIO=  .00
     RCOM6  MANE          .84   2402.07    220.82      1.94      5.00   2372.08    220.00        1.94

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5994E+03 EXCESS= .0000E+00 OUTFLOW= .5994E+03 BASIN STORAGE= .2153E-02 PERCENT ERROR=    .0
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FOR PLAN = 1 RATIO= .00

RCOM6	MANE	.85	2331.20	220.91	1.89	5.00	2302.59	225.00	1.89

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5831E+03 EXCESS= .0000E+00 OUTFLOW= .5831E+03 BASIN STORAGE= .2176E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM6	MANE	.86	2250.60	221.46	1.82	5.00	2223.69	225.00	1.82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5631E+03 EXCESS= .0000E+00 OUTFLOW= .5631E+03 BASIN STORAGE= .2077E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM6	MANE	.87	2176.76	220.97	1.76	5.00	2152.49	225.00	1.76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5452E+03 EXCESS= .0000E+00 OUTFLOW= .5452E+03 BASIN STORAGE= .2093E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM6	MANE	.88	2139.69	221.65	1.73	5.00	2117.72	225.00	1.74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5363E+03 EXCESS= .0000E+00 OUTFLOW= .5363E+03 BASIN STORAGE= .2075E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM6	MANE	.89	2064.39	221.30	1.68	5.00	2046.27	225.00	1.68

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5184E+03 EXCESS= .0000E+00 OUTFLOW= .5184E+03 BASIN STORAGE= .2163E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RBOXDET	MANE	5.00	14.60	470.00	.38	5.00	14.60	470.00	.38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6957E+02 EXCESS= .0000E+00 OUTFLOW= .6947E+02 BASIN STORAGE= .1053E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RBOXDET	MANE	5.00	14.20	470.00	.37	5.00	14.20	470.00	.37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6767E+02 EXCESS= .0000E+00 OUTFLOW= .6757E+02 BASIN STORAGE= .1030E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RBOXDET	MANE	5.00	14.00	470.00	.37	5.00	14.00	470.00	.37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6672E+02 EXCESS= .0000E+00 OUTFLOW= .6662E+02 BASIN STORAGE= .1019E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RBOXDET	MANE	5.00	13.64	470.00	.36	5.00	13.64	470.00	.36

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6502E+02 EXCESS= .0000E+00 OUTFLOW= .6492E+02 BASIN STORAGE= .9978E-01 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RBOXDET	MANE	5.00	13.21	470.00	.34	5.00	13.21	470.00	.34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6295E+02 EXCESS= .0000E+00 OUTFLOW= .6285E+02 BASIN STORAGE= .9723E-01 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RBOXDET	MANE	5.00	12.82	470.00	.33	5.00	12.82	470.00	.33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6108E+02 EXCESS= .0000E+00 OUTFLOW= .6098E+02 BASIN STORAGE= .9491E-01 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RBOXDET	MANE	5.00	12.62	470.00	.33	5.00	12.62	470.00	.33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6014E+02 EXCESS= .0000E+00 OUTFLOW= .6005E+02 BASIN STORAGE= .9375E-01 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RBOXDET	MANE	5.00	12.23	470.00	.32	5.00	12.23	470.00	.32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5828E+02 EXCESS= .0000E+00 OUTFLOW= .5819E+02 BASIN STORAGE= .9142E-01 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RUVB1-2A	MANE	2.94	79.32	220.40	.13	5.00	79.13	220.00	.13

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1729E+01 EXCESS= .0000E+00 OUTFLOW= .1732E+01 BASIN STORAGE= .2098E-02 PERCENT ERROR= -.3

FOR PLAN = 1 RATIO= .00

RUVB1-2A	MANE	3.10	73.08	220.23	.11	5.00	71.92	220.00	.11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1474E+01 EXCESS= .0000E+00 OUTFLOW= .1477E+01 BASIN STORAGE= .2086E-02 PERCENT ERROR= -.4

FOR PLAN = 1 RATIO= .00

RUVB1-2A	MANE	3.20	66.86	220.53	.11	5.00	64.78	220.00	.11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1393E+01 EXCESS= .0000E+00 OUTFLOW= .1396E+01 BASIN STORAGE= .2199E-02 PERCENT ERROR= -.4

FOR PLAN = 1 RATIO= .00

RUVB1-2A	MANE	3.39	58.89	220.65	.10	5.00	55.46	220.00	.10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1239E+01 EXCESS= .0000E+00 OUTFLOW= .1243E+01 BASIN STORAGE= .2125E-02 PERCENT ERROR= -.5

FOR PLAN = 1 RATIO= .00

RUVB1-2A	MANE	3.71	44.61	218.79	.08	5.00	43.39	220.00	.08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1094E+01 EXCESS= .0000E+00 OUTFLOW= .1097E+01 BASIN STORAGE= .2252E-02 PERCENT ERROR= -.5

FOR PLAN = 1 RATIO= .00

RUVB1-2A	MANE	4.10	34.60	221.67	.07	5.00	29.61	220.00	.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9087E+00 EXCESS= .0000E+00 OUTFLOW= .9117E+00 BASIN STORAGE= .2159E-02 PERCENT ERROR= -.6

FOR PLAN = 1 RATIO= .00

RUVB1-2A	MANE	4.37	28.27	222.82	.06	5.00	24.09	220.00	.06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8376E+00 EXCESS= .0000E+00 OUTFLOW= .8405E+00 BASIN STORAGE= .2385E-02 PERCENT ERROR= -.6

FOR PLAN = 1 RATIO= .00

RUVB1-2A	MANE	5.00	16.57	220.00	.05	5.00	16.57	220.00	.05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6862E+00 EXCESS= .0000E+00 OUTFLOW= .6880E+00 BASIN STORAGE= .2129E-02 PERCENT ERROR= -.6

FOR PLAN = 1 RATIO= .00

RCOM7	MANE	.99	477.72	221.03	.47	5.00	470.39	220.00	.47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1003E+03 EXCESS= .0000E+00 OUTFLOW= .1002E+03 BASIN STORAGE= .9157E-01 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RCOM7	MANE	1.00	456.32	220.74	.46	5.00	449.38	220.00	.46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9721E+02 EXCESS= .0000E+00 OUTFLOW= .9717E+02 BASIN STORAGE= .9006E-01 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RCOM7	MANE	1.02	441.97	221.32	.45	5.00	436.58	220.00	.45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9568E+02 EXCESS= .0000E+00 OUTFLOW= .9564E+02 BASIN STORAGE= .8930E-01 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RCOM7	MANE	1.03	421.60	221.38	.44	5.00	416.76	220.00	.44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9301E+02 EXCESS= .0000E+00 OUTFLOW= .9297E+02 BASIN STORAGE= .8793E-01 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RCOM7	MANE	1.06	396.25	220.57	.42	5.00	392.20	220.00	.42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8977E+02 EXCESS= .0000E+00 OUTFLOW= .8973E+02 BASIN STORAGE= .8624E-01 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RCOM7	MANE	1.09	373.20	221.14	.41	5.00	368.60	220.00	.41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8681E+02 EXCESS= .0000E+00 OUTFLOW= .8677E+02 BASIN STORAGE= .8469E-01 PERCENT ERROR= -.1

```
 FOR PLAN = 1  RATIO=  .00
   RCOM7  MANE          1.10    359.78    220.64       .40      5.00    357.08    220.00         .40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8535E+02 EXCESS= .0000E+00 OUTFLOW= .8531E+02 BASIN STORAGE= .8391E-01 PERCENT ERROR=   -.1

 FOR PLAN = 1  RATIO=  .00
   RCOM7  MANE          1.13    342.28    221.11       .39      5.00    338.80    220.00         .39

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8244E+02 EXCESS= .0000E+00 OUTFLOW= .8240E+02 BASIN STORAGE= .8235E-01 PERCENT ERROR=   -.1

 FOR PLAN = 1  RATIO=  .00
   RCOM8  MANE           .61    606.65    220.61       .51      5.00    604.46    220.00         .51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1115E+03 EXCESS= .0000E+00 OUTFLOW= .1115E+03 BASIN STORAGE= .2463E-01 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RCOM8  MANE           .62    582.14    220.58       .50      5.00    579.59    220.00         .50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1081E+03 EXCESS= .0000E+00 OUTFLOW= .1081E+03 BASIN STORAGE= .2409E-01 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RCOM8  MANE           .62    567.27    220.45       .49      5.00    565.17    220.00         .49

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1065E+03 EXCESS= .0000E+00 OUTFLOW= .1064E+03 BASIN STORAGE= .2382E-01 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RCOM8  MANE           .62    544.40    220.39       .48      5.00    542.70    220.00         .48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1035E+03 EXCESS= .0000E+00 OUTFLOW= .1035E+03 BASIN STORAGE= .2333E-01 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RCOM8  MANE           .63    516.03    220.23       .46      5.00    515.07    220.00         .46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9993E+02 EXCESS= .0000E+00 OUTFLOW= .9990E+02 BASIN STORAGE= .2274E-01 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RCOM8  MANE           .64    489.71    220.68       .44      5.00    489.29    220.00         .44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9666E+02 EXCESS= .0000E+00 OUTFLOW= .9664E+02 BASIN STORAGE= .2219E-01 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RCOM8  MANE           .64    476.96    220.61       .44      5.00    476.47    220.00         .44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9505E+02 EXCESS= .0000E+00 OUTFLOW= .9503E+02 BASIN STORAGE= .2192E-01 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RCOM8  MANE           .65    455.17    220.08       .42      5.00    455.00    220.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9183E+02 EXCESS= .0000E+00 OUTFLOW= .9181E+02 BASIN STORAGE= .2138E-01 PERCENT ERROR=    .0

 FOR PLAN = 1  RATIO=  .00
   RDIV2A  MANE          .97    283.38    211.53     -1.00      5.00    282.00    220.00       -1.00


 FOR PLAN = 1  RATIO=  .00
   RDIV2A  MANE          .97    282.20    211.53     -1.00      5.00    281.99    220.00       -1.00


 FOR PLAN = 1  RATIO=  .00
   RDIV2A  MANE          .97    282.12    216.36     -1.00      5.00    281.95    220.00       -1.00


 FOR PLAN = 1  RATIO=  .00
   RDIV2A  MANE          .97    282.22    216.36     -1.00      5.00    281.89    220.00       -1.00


 FOR PLAN = 1  RATIO=  .00
   RDIV2A  MANE          .97    282.35    216.36     -1.00      5.00    281.82    220.00       -1.00
```

FOR PLAN = 1 RATIO= .00

RDIV2A	MANE	.97	282.46	216.36	-1.00	5.00	281.75	220.00	-1.00

FOR PLAN = 1 RATIO= .00

RDIV2A	MANE	.97	282.52	216.36	-1.00	5.00	281.72	220.00	-1.00

FOR PLAN = 1 RATIO= .00

RDIV2A	MANE	.97	282.63	216.36	-1.00	5.00	281.66	220.00	-1.00

FOR PLAN = 1 RATIO= .00

RUVB1-1C	MANE	2.14	37.77	212.13	2.29	5.00	35.35	210.00	2.28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2257E+01 EXCESS= .0000E+00 OUTFLOW= .2259E+01 BASIN STORAGE= .1139E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1C	MANE	2.16	36.78	212.10	2.23	5.00	34.41	210.00	2.23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2198E+01 EXCESS= .0000E+00 OUTFLOW= .2200E+01 BASIN STORAGE= .1191E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1C	MANE	2.18	35.71	213.19	2.20	5.00	33.76	215.00	2.19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2165E+01 EXCESS= .0000E+00 OUTFLOW= .2167E+01 BASIN STORAGE= .1214E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1C	MANE	2.20	35.02	213.00	2.14	5.00	33.11	215.00	2.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2112E+01 EXCESS= .0000E+00 OUTFLOW= .2114E+01 BASIN STORAGE= .1025E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1C	MANE	2.22	33.84	213.30	2.08	5.00	32.06	215.00	2.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2046E+01 EXCESS= .0000E+00 OUTFLOW= .2048E+01 BASIN STORAGE= .1331E-02 PERCENT ERROR= -.2

FOR PLAN = 1 RATIO= .00

RUVB1-1C	MANE	2.25	32.87	213.41	2.02	5.00	31.21	215.00	2.01

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1986E+01 EXCESS= .0000E+00 OUTFLOW= .1988E+01 BASIN STORAGE= .1024E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1C	MANE	2.26	33.05	212.35	1.99	5.00	31.08	215.00	1.99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1959E+01 EXCESS= .0000E+00 OUTFLOW= .1961E+01 BASIN STORAGE= .1031E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1C	MANE	2.29	32.04	212.52	1.93	5.00	30.29	215.00	1.93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1901E+01 EXCESS= .0000E+00 OUTFLOW= .1902E+01 BASIN STORAGE= .1040E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1A	MANE	.64	410.55	215.75	2.33	5.00	409.10	215.00	2.34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2735E+02 EXCESS= .0000E+00 OUTFLOW= .2736E+02 BASIN STORAGE= .8615E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RUVB1-1A	MANE	.65	400.48	215.31	2.27	5.00	398.61	215.00	2.27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2663E+02 EXCESS= .0000E+00 OUTFLOW= .2663E+02 BASIN STORAGE= .8152E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RUVB1-1A	MANE	.65	395.48	215.75	2.24	5.00	393.91	215.00	2.24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2627E+02 EXCESS= .0000E+00 OUTFLOW= .2627E+02 BASIN STORAGE= .7979E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RUVB1-1A	MANE	.66	386.01	215.79	2.19	5.00	384.69	215.00	2.19

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.36	54.35	212.41	2.24	5.00	52.68	215.00	2.24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3341E+01 EXCESS= .0000E+00 OUTFLOW= .3344E+01 BASIN STORAGE= .1555E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.37	53.13	213.50	2.21	5.00	51.42	215.00	2.20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3290E+01 EXCESS= .0000E+00 OUTFLOW= .3293E+01 BASIN STORAGE= .1679E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.39	52.10	213.13	2.15	5.00	50.45	215.00	2.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3210E+01 EXCESS= .0000E+00 OUTFLOW= .3213E+01 BASIN STORAGE= .1406E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.42	50.56	213.23	2.08	5.00	48.97	215.00	2.08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3110E+01 EXCESS= .0000E+00 OUTFLOW= .3113E+01 BASIN STORAGE= .1424E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.45	49.24	213.15	2.02	5.00	47.74	215.00	2.02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3021E+01 EXCESS= .0000E+00 OUTFLOW= .3023E+01 BASIN STORAGE= .1506E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.46	48.04	214.36	1.99	5.00	47.12	215.00	1.99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2976E+01 EXCESS= .0000E+00 OUTFLOW= .2979E+01 BASIN STORAGE= .1553E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.49	46.71	214.35	1.93	5.00	45.82	215.00	1.93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2886E+01 EXCESS= .0000E+00 OUTFLOW= .2889E+01 BASIN STORAGE= .1686E-02 PERCENT ERROR= -.2

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.67	166.56	217.39	.85	5.00	163.14	220.00	.85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4781E+03 EXCESS= .0000E+00 OUTFLOW= .4779E+03 BASIN STORAGE= .2867E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.69	162.88	217.61	.83	5.00	159.69	220.00	.83

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4661E+03 EXCESS= .0000E+00 OUTFLOW= .4659E+03 BASIN STORAGE= .2751E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.69	161.55	216.88	.82	5.00	157.64	220.00	.82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4595E+03 EXCESS= .0000E+00 OUTFLOW= .4593E+03 BASIN STORAGE= .2698E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.71	158.28	216.94	.79	5.00	154.59	220.00	.79

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4469E+03 EXCESS= .0000E+00 OUTFLOW= .4467E+03 BASIN STORAGE= .2609E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.73	153.97	217.50	.76	5.00	151.06	220.00	.76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4306E+03 EXCESS= .0000E+00 OUTFLOW= .4304E+03 BASIN STORAGE= .2508E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.74	150.03	217.96	.74	5.00	147.42	220.00	.74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4165E+03 EXCESS= .0000E+00 OUTFLOW= .4163E+03 BASIN STORAGE= .2407E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.75	148.42	217.33	.73	5.00	145.78	220.00	.73

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4092E+03 EXCESS= .0000E+00 OUTFLOW= .4090E+03 BASIN STORAGE= .2360E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.77	144.51	217.84	.70	5.00	142.26	220.00	.70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3939E+03 EXCESS= .0000E+00 OUTFLOW= .3937E+03 BASIN STORAGE= .2269E+00 PERCENT ERROR= .0

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

HEC-1 Model # 2 Ultimate Conditions

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1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*               JUN  1998               *
*            VERSION 4.1                *
*                                       *
*  RUN DATE   22JUL04  TIME  17:59:14   *
*                                       *
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*************************************
*                                   *
*    U.S. ARMY CORPS OF ENGINEERS   *
*    HYDROLOGIC ENGINEERING CENTER  *
*         609 SECOND STREET         *
*       DAVIS, CALIFORNIA 95616     *
*           (916) 756-1104          *
*                                   *
*************************************
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X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X                X
XXXXXXX  XXXX     X        XXXXX   X
X     X  X        X                X
X     X  X        X     X          X
X     X  XXXXXXX   XXXXX           XXX
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

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


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          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
                    *DIAGRAM
*** FREE ***
             1      ID    NORTHERN BELTWAY ANN ROAD TO EL CAPITAN
             2      ID    DRAFT 2002 MPU MODEL BY PBS&J WAS USED AS A BASE AND MODIFIED BY
             3      ID    THE LOUIS BERGER GROUP (LBG) FOR THE PURPOSES OF THE BELTWAY CHANNEL DESIGN
             4      ID    LBG MODEL WAS FURTHER MODIFIED BY G.C. WALLACE TO INCLUDE ONLY THOSE BASINS
             5      ID    IMPACTING THE LONE MOUNTAIN DETENTION BASINS
             6      ID    HYDROLOGIC TECH MEMO MODEL WAS MODIFIED TO SHOW ROUTING CHANGE AT SOUTH DB
             7      ID    INPUT FILE = WBMOD2.DAT
             8      ID    INPUT FILE DATE = 7/16/04
             9      ID    DESIGN STORM = 100-YEAR 6-HOUR STORM
            10      ID    STORM DISTRIBUTION = SDN3
            11      ID    MODELED BY = JTL
            12      IT       5       0       0     500
            13      IO       5       0       0
            14      IN       5       0       0
                    *     AREA     0.0     0.5     1.0     1.46    2.0     4.0     6.00    8.00
            15      JR    PREC    1.00    0.98    0.97    0.952   0.93    0.917
                    *
            16      KK  CDMNA3
            17      KM   BASIN FROM MPU
            18      PB    3.21
            19      PC   0.000   0.020   0.057   0.070   0.087   0.108   0.124   0.130   0.130   0.130
            20      PC   0.130   0.130   0.130   0.133   0.140   0.142   0.148   0.158   0.172   0.181
            21      PC   0.190   0.197   0.199   0.200   0.201   0.204   0.214   0.229   0.241   0.249
            22      PC   0.251   0.256   0.270   0.278   0.281   0.283   0.295   0.322   0.352   0.409
            23      PC   0.499   0.590   0.710   0.744   0.781   0.812   0.819   0.835   0.851   0.856
            24      PC   0.860   0.868   0.876   0.888   0.910   0.926   0.937   0.950   0.970   0.976
            25      PC   0.982   0.985   0.987   0.989   0.990   0.993   0.993   0.994   0.995   0.998
            26      PC   0.998   0.999   1.000
            27      BA   0.140
            28      LS       0    84.0
            29      UD   0.244
                    *
            30      KK  EFPOA1
            31      KM
            32      PB    3.22
            33      BA   0.311
            34      LS       0    82.1
            35      UD   0.233
                    *
            36      KK   COM1A
            37      KM   COMBINE CDMNA3 AND EFPOA1 JUST SOUTH OF TROPICAL PARKWAY
            38      HC       2
                    *
            39      KK  RCOM1A
            40      RD    1600    .005   0.015       0    TRAP      10       0
                    *
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          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
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```
   41          KK  EFPOA2
   42          KM
   43          PB    3.23
   44          BA   0.227
   45          LS       0    81.8
   46          UD   0.254
               *

   47          KK   COM1B
   48          KM   COMBINE RCOM1A, AND EFPOA2 JUST SOUTH OF TROPICAL PARKWAY
   49          HC       2
               *

   50          KK  RCOM1B
   51          KM   ROUTE TO EPOB1
   52          RD    1600    .005    .015       0    TRAP      12       0
               *

   53          KK  EFPOB1
   54          KM
   55          PB    3.25
   56          BA   0.238
   57          LS       0    85.6
   58          UD   0.262
               *

   59          KK    COM2
   60          KM   COMBINE RCOM1B, RCAM10, AND EFPOB1 AT WEST LA MANCHA AVENUE
   61          HC       2
               *

   62          KK   RCOM2
   63          KM   ROUTE TO ANN ROAD
   64          RD    1900    .005    .015       0    TRAP      14       0
               *

   65          KK  EFPOB2
   66          KM   BASIN BY LBG
   67          BA   0.260
   68          PB    3.28
   69          LS       0    85.6
   70          UD   0.168
               *

   71          KK    COM3
   72          KM   COMBINE RCOM2, AND EFPOB2 AT ANN ROAD
   73          HC       2
               *
1                                          HEC-1 INPUT                                          PAGE  3

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

   74          KK    WBCA
   75          KM   BASIN FROM CENT TO ANN
   76          BA  0.0597
   77          PB    3.20
   78          LS       0    92.0
   79          UD   0.394
               *

   80          KKHLBW1-CA
   81          BA  0.3933
   82          PB    3.30
   83          LS       0    86.6
   84          UD   0.281
               *

   85          KK    COM4
   86          KM  COMBINE COM3, WBCA, AND HLBW1-CA
   87          KM  LAS VEGAS BELTWAY @ ANN ROAD
   88          HC       3
               *

   89          KK   RCOM4
   90          KM  ROUTE COM4 TO HLBW1-CB
   91          RD    1800  0.0250   0.015       0    TRAP      14       0
               *

   92          KKHLBW1-CB
   93          BA  0.1171
   94          PB    3.22
   95          LS       0    83.7
   96          UD   0.214
               *

   97          KK    COM5
   98          KM  COMBINE RCOM4 & HLBW1-CB
   99          HC       2
               *

  100          KK   RCOM5
  101          KM  ROUTE COM5 TO WRBW1
  102          RD    2000   0.050   0.015       0    TRAP      14       0
               *
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                103          KK    WBAW
                104          BA  0.0570
                105          PB    3.20
                106          LS       0    88.0
                107          UD   0.223
                             *
1                                                  HEC-1 INPUT                                                  PAGE  4

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

                108          KK   WRBW1
                109          BA  0.2444
                110          PB    3.23
                111          LS       0    84.1
                112          UD   0.210
                             *

                113          KK    COM6
                114          KM  COMBINE RCOM5, WBAW, & WRBW1
                115          KM  LAS VEGAS BELTWAY @ WASHBURN ROAD
                116          HC       3
                             *

                117          KK   RCOM6
                118          KM  ROUTE COM6 TO CLMDBN
                119          RD    1600  0.0050   0.015       0    TRAP      14       0
                             *

                120          KK  LWBW1C
                121          BA  0.0570
                122          PB    3.20
                123          LS       0    88.3
                124          UD   0.126
                             *

                125          KK   LMDBN
                126          BA  0.0237
                127          PB    3.18
                128          LS       0    84.8
                129          UD   0.161
                             *

                130          KK  CLMDBN
                131          KM  COMBINE LMDBN AND RCOM6
                132          HC       3
                             *

                133          KK  LWBW1A
                134          BA  0.3213
                135          PB    3.31
                136          LS       0    83.0
                137          UD   0.223
                             *

                138          KK UVB1-2A
                139          BA  0.2453
                140          PB    3.30
                141          LS       0    86.4
                142          UD   0.191
                             *
1                                                  HEC-1 INPUT                                                  PAGE  5

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

                143          KK  NDIV2A
                144          KM   RATING CURVE DATA TAKEM FROM MPU
                145          KM  DIVERT 288 CFS FROM UVB1-2A TO PEACEFUL DAWN
                146          DT  EDIV2A
                147          DI       0     290    5000
                148          DQ       0     282     282
                             *

                149          KKRUVB1-2A
                150          RD     700  0.0050   0.016       0    TRAP      80       0
                             *

                151          KK    COM7
                152          KM  COMBINE LWBW1A, AND RUVB1-2A
                153          HC       2
                             *

                154          KK   RCOM7
                155          KM  ROUTE COM7 TO COM8
                156          RD    1000  0.0600   0.016       0    TRAP      80       0
                             *

                157          KK UVB1-2B
                158          BA  0.0192
                159          PB    3.23
                160          LS       0    91.0
                161          UD   0.100
                             *
```

```
  162          KK  LWBW1B
  163          BA  0.0755
  164          PB    3.24
  165          LS       0    90.0
  166          UD   0.151
               *

  167          KK    COM8
  168          KM  COMBINE LWBW1B, RCOM7, UVB1-2B
  169          KM  LAS VEGAS BELTWAY @ LONE MOUNTAIN
  170          HC       3
               *

  171          KK   RCOM8
  172          RD     800  0.0500   0.015       0    CIRC       5       0
               *

  173          KKRETDIV2A
  174          KM  RETRIEVE DIVERSION AT PEACEFUL DAWN
  175          DR  EDIV2A
               *
1                                        HEC-1 INPUT                                                    PAGE  6

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

  176          KK  RDIV2A
  177          KM  ROUTE DIV2A TO CUVB1-2C
  178          RD    1000  0.0700   0.016       0    TRAP      50       0
               *

  179          KK UVB1-2C
  180          BA  0.0323
  181          PB    3.23
  182          LS       0    90.0
  183          UD   0.125
               *

  184          KK   COM10
  185          KM  COMBINE RDIV2A AND UVB1-2C
  186          KM
  187          HC       2
               *

  188          KK    COM9
  189          KM  COMBINE RCOM8 & COM10
  190          HC       2
               *

  191          KK UVB1-1C
  192          BA  0.0185
  193          PB    3.23
  194          LS       0    91.0
  195          UD   0.091
               *

  196          KKRUVB1-1C
  197          KM  ROUTE UVB1-1C TO COM11
  198          RD     900   0.050   0.016       0    TRAP      50       0
               *

  199          KK UVB1-1B
  200          BA  0.0124
  201          PB    3.20
  202          LS       0    91.0
  203          UD   0.080
               *

  204          KK   COM11
  205          KM  COMBINE RUVB1-1C AND UVB1-1B
  206          HC       2
               *

  207          KK UVB1-1A
  208          BA  0.2198
  209          PB    3.28
  210          LS       0    91.0
  211          UD   0.149
               *
1                                        HEC-1 INPUT                                                    PAGE  7

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

  212          KKRUVB1-1A
  213          RD    1300   0.040   0.015       0    TRAP      10       0
               *

  214          KK UVB1-1D
  215          BA  0.0355
  216          PB    3.20
  217          LS       0    91.0
  218          UD   0.100
               *
```

```
219          KK   COM12
220          KM  COMBINE RUVB1-1A AND UVB1-1D
221          HC       2
             *

222          KK  RCOM12
223          KM  ROUTE COM12 TO COM13
224          RD    1200   0.042   0.015       0    TRAP      10       0
             *

225          KK UVB1-1E
226          BA  0.0280
227          PB    3.24
228          LS       0    91.0
229          UD   0.100
             *

230          KKRUVB1-1E
231          RD    2000   0.033   0.015       0    TRAP      10       0
             *

232          KK   COM13
233          KM  COMBINE RCOM11, RCOM12, & RUVB1-1E
234          HC       3
             *

235          KK    WBCL
236          BA  0.0312
237          PB    3.21
238          LS       0    92.0
239          UD   0.126
             *

240          KK   LMBW1
241          BA  0.0841
242          PB    3.18
243          LS       0    81.5
244          UD   0.119
             *
```



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

245          KK   COM14
246          KM  COMBINE LMBW1, WBCL, RCOM13
247          HC       3
             *

248          KK   LMDBS
249          BA  0.0589
250          PB    3.20
251          LS       0    84.8
252          UD   0.102
             *

253          KK  CLMDBS
254          KM  COMBINE COM9, COM14, & LMDBS
255          KM  COMBINE INFLOW INTO LONE MOUNTAIN - BELTWAY DETENTION BASIN
256          HC       3
             *

257          KKCLMBWCDB
258          KM  COMBINE CLMDBS & CLMDBN
259          KO       1
260          HC       2
             *

261          KK LMBWCDB
262          KM  LONE MOUNTAIN/BELTWAY DETENTION BASINS (COMBINED)
263          KM  ROUTE COMBINED INFLOWS TO OUTFALL IN BALANCING CONDUIT
264          KM  PEAK 100-YEAR DISCHARGE = 180 CFS
265          KO       1
266          RS       1    STOR      -1
267          SV       0      15      37      90     170     298     416     556     654
268          SQ       0      21      30      37      42      46      90      97     101
269          SE       0       5      10      15      20      25      30      35      38
             *

270          KK    WBLM
271          BA  0.0805
272          PB    3.17
273          LS       0    90.0
274          UD   0.190
             *

275          KK   COM15
276          KM  COMBINE WBLM & LMBWCDB
277          HC       2
             *

278          KK RLMBWDB
279          KM  ROUTE LMBWDB TO LMBW2-C
280          KM  FACILITY = GOWAN BELTWAY WEST
```

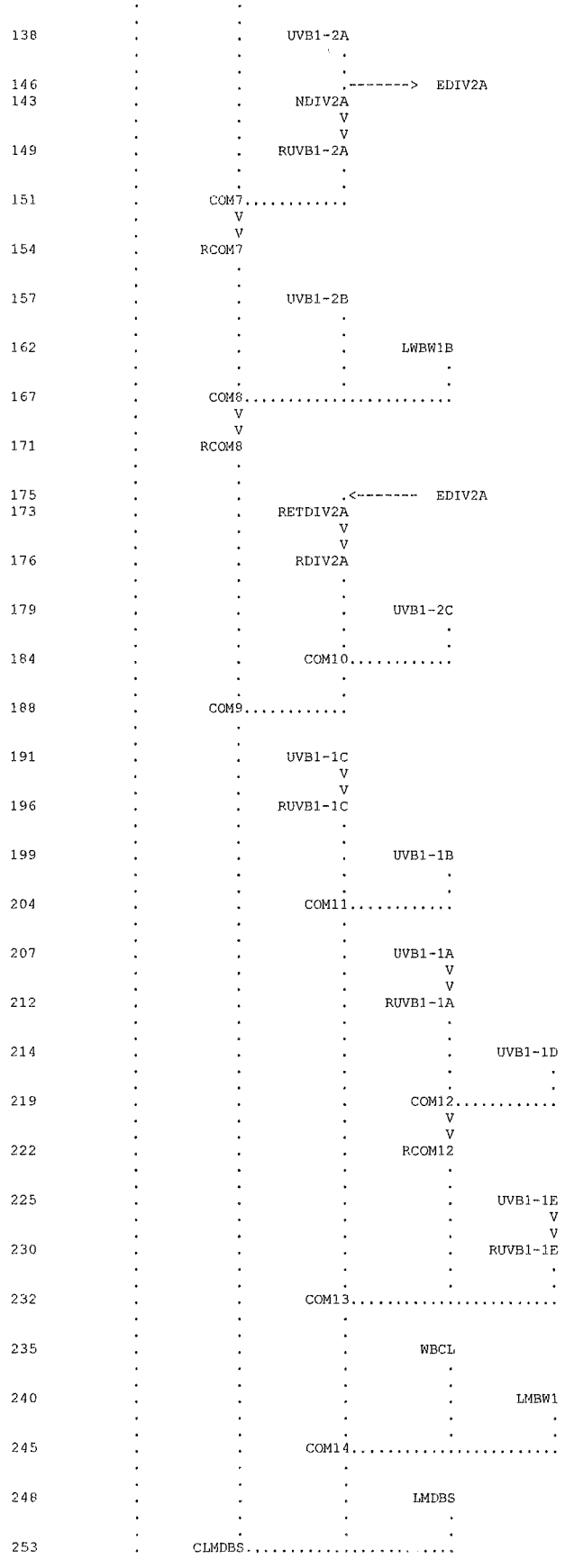
```
            281           KM  FACILITY # = GOBW 0000
            282           KM  LINING = RCP
            283           RD    2700   0.019   0.013       0    TRAP       5       0
                          +
1                                                  HEC-1 INPUT                                                    PAGE  9

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

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

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

    16      CDMNA3
                .
                .
    30          .       EFPOA1
                .           .
                .           .
    36       COM1A.............
                V
                V
    39      RCOM1A
                .
                .
    41          .       EFPOA2
                .           .
                .           .
    47       COM1B.............
                V
                V
    50      RCOM1B
                .
                .
    53          .       EFPOB1
                .           .
                .           .
    59        COM2.............
                V
                V
    62       RCOM2
                .
                .
    65          .       EFPOB2
                .           .
                .           .
    71        COM3.............
                .
                .
    74          .         WBCA
                .           .
                .           .
    80          .           .     HLBW1-CA
                .           .           .
                .           .           .
    85       COM4........................
                V
                V
    89       RCOM4
                .
                .
    92          .     HLBW1-CB
                .           .
                .           .
    97       COM5.............
                V
                V
   100       RCOM5
                .
                .
   103          .         WBAW
                .           .
                .           .
   108          .           .       WRBW1
                .           .           .
                .           .           .
   113        COM6.........................
                V
                V
   117       RCOM6
                .
                .
   120          .       LWBW1C
                .           .
                .           .
   125          .           .       LMDBN
                .           .           .
                .           .           .
   130      CLMDBN.........................
                .
                .
   133          .       LWBW1A
```


138 UVB1-2A
146
143 NDIV2A
149 RUVB1-2A
151 COM7
154 RCOM7
157 UVB1-2B
162 LWBW1B
167 COM8
171 RCOM8
175
173 RETDIV2A
176 RDIV2A
179 UVB1-2C
184 COM10
188 COM9
191 UVB1-1C
196 RUVB1-1C
199 UVB1-1B
204 COM11
207 UVB1-1A
212 RUVB1-1A
214 UVB1-1D
219 COM12
222 RCOM12
225 UVB1-1E
230 RUVB1-1E
232 COM13
235 WBCL
240 LMBW1
245 COM14
248 LMDBS
253 CLMDBS
EDIV2A
EDIV2A

```
                .           .
                .           .
  257     CLMBWCDB.....     .
                V           .
                V           .
  261      LMBWCDB           .
                .           .
                .           .
  270           .        WBLM
                .           .
                .           .
  275        COM15.....     .
                V           .
                V           .
  278      RLMBWDB           .

 (***) RUNOFF ALSO COMPUTED AT THIS LOCATION
1*****************************************                    ****************************************
*                                       *                    *                                      *
*    FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *                    *    U.S. ARMY CORPS OF ENGINEERS      *
*               JUN   1998              *                    *    HYDROLOGIC ENGINEERING CENTER     *
*            VERSION 4.1                *                    *         609 SECOND STREET            *
*                                       *                    *       DAVIS, CALIFORNIA 95616        *
*  RUN DATE   22JUL04  TIME  17:59:14   *                    *          (916) 756-1104              *
*                                       *                    *                                      *
*****************************************                    ****************************************

                            NORTHERN BELTWAY ANN ROAD TO EL CAPITAN
                            DRAFT 2002 MPU MODEL BY PBS&J WAS USED AS A BASE AND MODIFIED BY
                            THE LOUIS BERGER GROUP (LBG) FOR THE PURPOSES OF THE BELTWAY CHANNEL DESIGN
                            LBG MODEL WAS FURTHER MODIFIED BY G.C. WALLACE TO INCLUDE ONLY THOSE BASINS
                            IMPACTING THE LONE MOUNTAIN DETENTION BASINS
                            HYDROLOGIC TECH MEMO MODEL WAS MODIFIED TO SHOW ROUTING CHANGE AT SOUTH DB
                            INPUT FILE = WBMOD2.DAT
                            INPUT FILE DATE = 7/16/04
                            DESIGN STORM = 100-YEAR 6-HOUR STORM
                            STORM DISTRIBUTION = SDN3
                            MODELED BY = JTL

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

      IT          HYDROGRAPH TIME DATA
                         NMIN          5  MINUTES IN COMPUTATION INTERVAL
                        IDATE      1   0  STARTING DATE
                        ITIME       0000  STARTING TIME
                           NQ        500  NUMBER OF HYDROGRAPH ORDINATES
                       NDDATE      2   0  ENDING DATE
                       NDTIME       1735  ENDING TIME
                        ICENT         19  CENTURY MARK

                     COMPUTATION INTERVAL      .08 HOURS
                         TOTAL TIME BASE   41.58 HOURS

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

      JP          MULTI-PLAN OPTION
                        NPLAN          1  NUMBER OF PLANS

      JR          MULTI-RATIO OPTION
                      RATIOS OF PRECIPITATION
                     1.00       .98       .97       .95       .93       .92


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


              **************
              *            *
  257 KK      *  CLMBWCDB  *
              *            *
              **************

  259 KO          OUTPUT CONTROL VARIABLES
                        IPRNT          1  PRINT CONTROL
                        IPLOT          0  PLOT CONTROL
                        QSCAL          0.  HYDROGRAPH PLOT SCALE

  260 HC          HYDROGRAPH COMBINATION
                        ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
```

***

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = 1.00

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		1025	126	0.	1		2050	251	0.	2		0715	376	0.
1		0005	2	0.	1		1030	127	0.	1		2055	252	0.	2		0720	377	0.
1		0010	3	0.	1		1035	128	0.	1		2100	253	0.	2		0725	378	0.
1		0015	4	0.	1		1040	129	0.	1		2105	254	0.	2		0730	379	0.
1		0020	5	3.	1		1045	130	0.	1		2110	255	0.	2		0735	380	0.
1		0025	6	12.	1		1050	131	0.	1		2115	256	0.	2		0740	381	0.
1		0030	7	28.	1		1055	132	0.	1		2120	257	0.	2		0745	382	0.
1		0035	8	43.	1		1100	133	0.	1		2125	258	0.	2		0750	383	0.
1		0040	9	44.	1		1105	134	0.	1		2130	259	0.	2		0755	384	0.
1		0045	10	36.	1		1110	135	0.	1		2135	260	0.	2		0800	385	0.
1		0050	11	26.	1		1115	136	0.	1		2140	261	0.	2		0805	386	0.
1		0055	12	18.	1		1120	137	0.	1		2145	262	0.	2		0810	387	0.
1		0100	13	12.	1		1125	138	0.	1		2150	263	0.	2		0815	388	0.
1		0105	14	10.	1		1130	139	0.	1		2155	264	0.	2		0820	389	0.
1		0110	15	15.	1		1135	140	0.	1		2200	265	0.	2		0825	390	0.
1		0115	16	23.	1		1140	141	0.	1		2205	266	0.	2		0830	391	0.
1		0120	17	31.	1		1145	142	0.	1		2210	267	0.	2		0835	392	0.
1		0125	18	43.	1		1150	143	0.	1		2215	268	0.	2		0840	393	0.
1		0130	19	69.	1		1155	144	0.	1		2220	269	0.	2		0845	394	0.
1		0135	20	102.	1		1200	145	0.	1		2225	270	0.	2		0850	395	0.
1		0140	21	129.	1		1205	146	0.	1		2230	271	0.	2		0855	396	0.
1		0145	22	147.	1		1210	147	0.	1		2235	272	0.	2		0900	397	0.
1		0150	23	150.	1		1215	148	0.	1		2240	273	0.	2		0905	398	0.
1		0155	24	136.	1		1220	149	0.	1		2245	274	0.	2		0910	399	0.
1		0200	25	113.	1		1225	150	0.	1		2250	275	0.	2		0915	400	0.
1		0205	26	93.	1		1230	151	0.	1		2255	276	0.	2		0920	401	0.
1		0210	27	90.	1		1235	152	0.	1		2300	277	0.	2		0925	402	0.
1		0215	28	121.	1		1240	153	0.	1		2305	278	0.	2		0930	403	0.
1		0220	29	176.	1		1245	154	0.	1		2310	279	0.	2		0935	404	0.
1		0225	30	223.	1		1250	155	0.	1		2315	280	0.	2		0940	405	0.
1		0230	31	240.	1		1255	156	0.	1		2320	281	0.	2		0945	406	0.
1		0235	32	228.	1		1300	157	0.	1		2325	282	0.	2		0950	407	0.
1		0240	33	228.	1		1305	158	0.	1		2330	283	0.	2		0955	408	0.
1		0245	34	251.	1		1310	159	0.	1		2335	284	0.	2		1000	409	0.
1		0250	35	262.	1		1315	160	0.	1		2340	285	0.	2		1005	410	0.
1		0255	36	245.	1		1320	161	0.	1		2345	286	0.	2		1010	411	0.
1		0300	37	231.	1		1325	162	0.	1		2350	287	0.	2		1015	412	0.
1		0305	38	285.	1		1330	163	0.	1		2355	288	0.	2		1020	413	0.
1		0310	39	434.	1		1335	164	0.	2		0000	289	0.	2		1025	414	0.
1		0315	40	711.	1		1340	165	0.	2		0005	290	0.	2		1030	415	0.
1		0320	41	1258.	1		1345	166	0.	2		0010	291	0.	2		1035	416	0.
1		0325	42	2099.	1		1350	167	0.	2		0015	292	0.	2		1040	417	0.
1		0330	43	3146.	1		1355	168	0.	2		0020	293	0.	2		1045	418	0.
1		0335	44	3936.	1		1400	169	0.	2		0025	294	0.	2		1050	419	0.
1		0340	45	4092.	1		1405	170	0.	2		0030	295	0.	2		1055	420	0.
1		0345	46	3811.	1		1410	171	0.	2		0035	296	0.	2		1100	421	0.
1		0350	47	3254.	1		1415	172	0.	2		0040	297	0.	2		1105	422	0.
1		0355	48	2617.	1		1420	173	0.	2		0045	298	0.	2		1110	423	0.
1		0400	49	2098.	1		1425	174	0.	2		0050	299	0.	2		1115	424	0.
1		0405	50	1695.	1		1430	175	0.	2		0055	300	0.	2		1120	425	0.
1		0410	51	1339.	1		1435	176	0.	2		0100	301	0.	2		1125	426	0.
1		0415	52	1052.	1		1440	177	0.	2		0105	302	0.	2		1130	427	0.
1		0420	53	858.	1		1445	178	0.	2		0110	303	0.	2		1135	428	0.
1		0425	54	750.	1		1450	179	0.	2		0115	304	0.	2		1140	429	0.
1		0430	55	755.	1		1455	180	0.	2		0120	305	0.	2		1145	430	0.
1		0435	56	849.	1		1500	181	0.	2		0125	306	0.	2		1150	431	0.
1		0440	57	929.	1		1505	182	0.	2		0130	307	0.	2		1155	432	0.
1		0445	58	957.	1		1510	183	0.	2		0135	308	0.	2		1200	433	0.
1		0450	59	985.	1		1515	184	0.	2		0140	309	0.	2		1205	434	0.
1		0455	60	1000.	1		1520	185	0.	2		0145	310	0.	2		1210	435	0.
1		0500	61	936.	1		1525	186	0.	2		0150	311	0.	2		1215	436	0.
1		0505	62	818.	1		1530	187	0.	2		0155	312	0.	2		1220	437	0.
1		0510	63	675.	1		1535	188	0.	2		0200	313	0.	2		1225	438	0.
1		0515	64	535.	1		1540	189	0.	2		0205	314	0.	2		1230	439	0.
1		0520	65	415.	1		1545	190	0.	2		0210	315	0.	2		1235	440	0.
1		0525	66	324.	1		1550	191	0.	2		0215	316	0.	2		1240	441	0.
1		0530	67	259.	1		1555	192	0.	2		0220	317	0.	2		1245	442	0.
1		0535	68	203.	1		1600	193	0.	2		0225	318	0.	2		1250	443	0.
1		0540	69	161.	1		1605	194	0.	2		0230	319	0.	2		1255	444	0.
1		0545	70	136.	1		1610	195	0.	2		0235	320	0.	2		1300	445	0.
1		0550	71	125.	1		1615	196	0.	2		0240	321	0.	2		1305	446	0.
1		0555	72	111.	1		1620	197	0.	2		0245	322	0.	2		1310	447	0.
1		0600	73	98.	1		1625	198	0.	2		0250	323	0.	2		1315	448	0.
1		0605	74	86.	1		1630	199	0.	2		0255	324	0.	2		1320	449	0.
1		0610	75	71.	1		1635	200	0.	2		0300	325	0.	2		1325	450	0.
1		0615	76	55.	1		1640	201	0.	2		0305	326	0.	2		1330	451	0.
1		0620	77	40.	1		1645	202	0.	2		0310	327	0.	2		1335	452	0.
1		0625	78	28.	1		1650	203	0.	2		0315	328	0.	2		1340	453	0.
1		0630	79	19.	1		1655	204	0.	2		0320	329	0.	2		1345	454	0.
1		0635	80	13.	1		1700	205	0.	2		0325	330	0.	2		1350	455	0.
1		0640	81	8.	1		1705	206	0.	2		0330	331	0.	2		1355	456	0.
1		0645	82	5.	1		1710	207	0.	2		0335	332	0.	2		1400	457	0.
1		0650	83	3.	1		1715	208	0.	2		0340	333	0.	2		1405	458	0.

1	0655	84	2.	*	1	1720	209	0.	*	2	0345	334	0.	*	2	1410	459	0.
1	0700	85	1.	*	1	1725	210	0.	*	2	0350	335	0.	*	2	1415	460	0.
1	0705	86	1.	*	1	1730	211	0.	*	2	0355	336	0.	*	2	1420	461	0.
1	0710	87	1.	*	1	1735	212	0.	*	2	0400	337	0.	*	2	1425	462	0.
1	0715	88	0.	*	1	1740	213	0.	*	2	0405	338	0.	*	2	1430	463	0.
1	0720	89	0.	*	1	1745	214	0.	*	2	0410	339	0.	*	2	1435	464	0.
1	0725	90	0.	*	1	1750	215	0.	*	2	0415	340	0.	*	2	1440	465	0.
1	0730	91	0.	*	1	1755	216	0.	*	2	0420	341	0.	*	2	1445	466	0.
1	0735	92	0.	*	1	1800	217	0.	*	2	0425	342	0.	*	2	1450	467	0.
1	0740	93	0.	*	1	1805	218	0.	*	2	0430	343	0.	*	2	1455	468	0.
1	0745	94	0.	*	1	1810	219	0.	*	2	0435	344	0.	*	2	1500	469	0.
1	0750	95	0.	*	1	1815	220	0.	*	2	0440	345	0.	*	2	1505	470	0.
1	0755	96	0.	*	1	1820	221	0.	*	2	0445	346	0.	*	2	1510	471	0.
1	0800	97	0.	*	1	1825	222	0.	*	2	0450	347	0.	*	2	1515	472	0.
1	0805	98	0.	*	1	1830	223	0.	*	2	0455	348	0.	*	2	1520	473	0.
1	0810	99	0.	*	1	1835	224	0.	*	2	0500	349	0.	*	2	1525	474	0.
1	0815	100	0.	*	1	1840	225	0.	*	2	0505	350	0.	*	2	1530	475	0.
1	0820	101	0.	*	1	1845	226	0.	*	2	0510	351	0.	*	2	1535	476	0.
1	0825	102	0.	*	1	1850	227	0.	*	2	0515	352	0.	*	2	1540	477	0.
1	0830	103	0.	*	1	1855	228	0.	*	2	0520	353	0.	*	2	1545	478	0.
1	0835	104	0.	*	1	1900	229	0.	*	2	0525	354	0.	*	2	1550	479	0.
1	0840	105	0.	*	1	1905	230	0.	*	2	0530	355	0.	*	2	1555	480	0.
1	0845	106	0.	*	1	1910	231	0.	*	2	0535	356	0.	*	2	1600	481	0.
1	0850	107	0.	*	1	1915	232	0.	*	2	0540	357	0.	*	2	1605	482	0.
1	0855	108	0.	*	1	1920	233	0.	*	2	0545	358	0.	*	2	1610	483	0.
1	0900	109	0.	*	1	1925	234	0.	*	2	0550	359	0.	*	2	1615	484	0.
1	0905	110	0.	*	1	1930	235	0.	*	2	0555	360	0.	*	2	1620	485	0.
1	0910	111	0.	*	1	1935	236	0.	*	2	0600	361	0.	*	2	1625	486	0.
1	0915	112	0.	*	1	1940	237	0.	*	2	0605	362	0.	*	2	1630	487	0.
1	0920	113	0.	*	1	1945	238	0.	*	2	0610	363	0.	*	2	1635	488	0.
1	0925	114	0.	*	1	1950	239	0.	*	2	0615	364	0.	*	2	1640	489	0.
1	0930	115	0.	*	1	1955	240	0.	*	2	0620	365	0.	*	2	1645	490	0.
1	0935	116	0.	*	1	2000	241	0.	*	2	0625	366	0.	*	2	1650	491	0.
1	0940	117	0.	*	1	2005	242	0.	*	2	0630	367	0.	*	2	1655	492	0.
1	0945	118	0.	*	1	2010	243	0.	*	2	0635	368	0.	*	2	1700	493	0.
1	0950	119	0.	*	1	2015	244	0.	*	2	0640	369	0.	*	2	1705	494	0.
1	0955	120	0.	*	1	2020	245	0.	*	2	0645	370	0.	*	2	1710	495	0.
1	1000	121	0.	*	1	2025	246	0.	*	2	0650	371	0.	*	2	1715	496	0.
1	1005	122	0.	*	1	2030	247	0.	*	2	0655	372	0.	*	2	1720	497	0.
1	1010	123	0.	*	1	2035	248	0.	*	2	0700	373	0.	*	2	1725	498	0.
1	1015	124	0.	*	1	2040	249	0.	*	2	0705	374	0.	*	2	1730	499	0.
1	1020	125	0.	*	1	2045	250	0.	*	2	0710	375	0.	*	2	1735	500	0.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	41.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 4092.	3.67		660.	165.	95.	95.
		(INCHES)	1.855	1.858	1.858	1.858
		(AC-FT)	327.	328.	328.	328.

CUMULATIVE AREA = 3.31 SQ MI

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		1025	126	0.	1		2050	251	0.	2		0715	376	0.
1		0005	2	0.	1		1030	127	0.	1		2055	252	0.	2		0720	377	0.
1		0010	3	0.	1		1035	128	0.	1		2100	253	0.	2		0725	378	0.
1		0015	4	0.	1		1040	129	0.	1		2105	254	0.	2		0730	379	0.
1		0020	5	2.	1		1045	130	0.	1		2110	255	0.	2		0735	380	0.
1		0025	6	11.	1		1050	131	0.	1		2115	256	0.	2		0740	381	0.
1		0030	7	26.	1		1055	132	0.	1		2120	257	0.	2		0745	382	0.
1		0035	8	38.	1		1100	133	0.	1		2125	258	0.	2		0750	383	0.
1		0040	9	40.	1		1105	134	0.	1		2130	259	0.	2		0755	384	0.
1		0045	10	32.	1		1110	135	0.	1		2135	260	0.	2		0800	385	0.
1		0050	11	23.	1		1115	136	0.	1		2140	261	0.	2		0805	386	0.
1		0055	12	16.	1		1120	137	0.	1		2145	262	0.	2		0810	387	0.
1		0100	13	11.	1		1125	138	0.	1		2150	263	0.	2		0815	388	0.
1		0105	14	9.	1		1130	139	0.	1		2155	264	0.	2		0820	389	0.
1		0110	15	13.	1		1135	140	0.	1		2200	265	0.	2		0825	390	0.
1		0115	16	21.	1		1140	141	0.	1		2205	266	0.	2		0830	391	0.
1		0120	17	28.	1		1145	142	0.	1		2210	267	0.	2		0835	392	0.
1		0125	18	39.	1		1150	143	0.	1		2215	268	0.	2		0840	393	0.
1		0130	19	63.	1		1155	144	0.	1		2220	269	0.	2		0845	394	0.
1		0135	20	93.	1		1200	145	0.	1		2225	270	0.	2		0850	395	0.
1		0140	21	118.	1		1205	146	0.	1		2230	271	0.	2		0855	396	0.
1		0145	22	135.	1		1210	147	0.	1		2235	272	0.	2		0900	397	0.
1		0150	23	139.	1		1215	148	0.	1		2240	273	0.	2		0905	398	0.
1		0155	24	128.	1		1220	149	0.	1		2245	274	0.	2		0910	399	0.
1		0200	25	108.	1		1225	150	0.	1		2250	275	0.	2		0915	400	0.
1		0205	26	89.	1		1230	151	0.	1		2255	276	0.	2		0920	401	0.
1		0210	27	87.	1		1235	152	0.	1		2300	277	0.	2		0925	402	0.
1		0215	28	114.	1		1240	153	0.	1		2305	278	0.	2		0930	403	0.
1		0220	29	164.	1		1245	154	0.	1		2310	279	0.	2		0935	404	0.

1	0225	30	208.	*	1	1250	155	0.	*	1	2315	280	0.	*	2	0940	405	0.
1	0230	31	225.	*	1	1255	156	0.	*	1	2320	281	0.	*	2	0945	406	0.
1	0235	32	217.	*	1	1300	157	0.	*	1	2325	282	0.	*	2	0950	407	0.
1	0240	33	218.	*	1	1305	158	0.	*	1	2330	283	0.	*	2	0955	408	0.
1	0245	34	240.	*	1	1310	159	0.	*	1	2335	284	0.	*	2	1000	409	0.
1	0250	35	250.	*	1	1315	160	0.	*	1	2340	285	0.	*	2	1005	410	0.
1	0255	36	234.	*	1	1320	161	0.	*	1	2345	286	0.	*	2	1010	411	0.
1	0300	37	223.	*	1	1325	162	0.	*	1	2350	287	0.	*	2	1015	412	0.
1	0305	38	272.	*	1	1330	163	0.	*	1	2355	288	0.	*	2	1020	413	0.
1	0310	39	410.	*	1	1335	164	0.	*	2	0000	289	0.	*	2	1025	414	0.
1	0315	40	675.	*	1	1340	165	0.	*	2	0005	290	0.	*	2	1030	415	0.
1	0320	41	1207.	*	1	1345	166	0.	*	2	0010	291	0.	*	2	1035	416	0.
1	0325	42	2027.	*	1	1350	167	0.	*	2	0015	292	0.	*	2	1040	417	0.
1	0330	43	3049.	*	1	1355	168	0.	*	2	0020	293	0.	*	2	1045	418	0.
1	0335	44	3815.	*	1	1400	169	0.	*	2	0025	294	0.	*	2	1050	419	0.
1	0340	45	3974.	*	1	1405	170	0.	*	2	0030	295	0.	*	2	1055	420	0.
1	0345	46	3704.	*	1	1410	171	0.	*	2	0035	296	0.	*	2	1100	421	0.
1	0350	47	3162.	*	1	1415	172	0.	*	2	0040	297	0.	*	2	1105	422	0.
1	0355	48	2545.	*	1	1420	173	0.	*	2	0045	298	0.	*	2	1110	423	0.
1	0400	49	2043.	*	1	1425	174	0.	*	2	0050	299	0.	*	2	1115	424	0.
1	0405	50	1651.	*	1	1430	175	0.	*	2	0055	300	0.	*	2	1120	425	0.
1	0410	51	1305.	*	1	1435	176	0.	*	2	0100	301	0.	*	2	1125	426	0.
1	0415	52	1026.	*	1	1440	177	0.	*	2	0105	302	0.	*	2	1130	427	0.
1	0420	53	837.	*	1	1445	178	0.	*	2	0110	303	0.	*	2	1135	428	0.
1	0425	54	733.	*	1	1450	179	0.	*	2	0115	304	0.	*	2	1140	429	0.
1	0430	55	736.	*	1	1455	180	0.	*	2	0120	305	0.	*	2	1145	430	0.
1	0435	56	827.	*	1	1500	181	0.	*	2	0125	306	0.	*	2	1150	431	0.
1	0440	57	905.	*	1	1505	182	0.	*	2	0130	307	0.	*	2	1155	432	0.
1	0445	58	932.	*	1	1510	183	0.	*	2	0135	308	0.	*	2	1200	433	0.
1	0450	59	960.	*	1	1515	184	0.	*	2	0140	309	0.	*	2	1205	434	0.
1	0455	60	975.	*	1	1520	185	0.	*	2	0145	310	0.	*	2	1210	435	0.
1	0500	61	913.	*	1	1525	186	0.	*	2	0150	311	0.	*	2	1215	436	0.
1	0505	62	799.	*	1	1530	187	0.	*	2	0155	312	0.	*	2	1220	437	0.
1	0510	63	661.	*	1	1535	188	0.	*	2	0200	313	0.	*	2	1225	438	0.
1	0515	64	526.	*	1	1540	189	0.	*	2	0205	314	0.	*	2	1230	439	0.
1	0520	65	411.	*	1	1545	190	0.	*	2	0210	315	0.	*	2	1235	440	0.
1	0525	66	323.	*	1	1550	191	0.	*	2	0215	316	0.	*	2	1240	441	0.
1	0530	67	258.	*	1	1555	192	0.	*	2	0220	317	0.	*	2	1245	442	0.
1	0535	68	204.	*	1	1600	193	0.	*	2	0225	318	0.	*	2	1250	443	0.
1	0540	69	162.	*	1	1605	194	0.	*	2	0230	319	0.	*	2	1255	444	0.
1	0545	70	137.	*	1	1610	195	0.	*	2	0235	320	0.	*	2	1300	445	0.
1	0550	71	124.	*	1	1615	196	0.	*	2	0240	321	0.	*	2	1305	446	0.
1	0555	72	110.	*	1	1620	197	0.	*	2	0245	322	0.	*	2	1310	447	0.
1	0600	73	97.	*	1	1625	198	0.	*	2	0250	323	0.	*	2	1315	448	0.
1	0605	74	85.	*	1	1630	199	0.	*	2	0255	324	0.	*	2	1320	449	0.
1	0610	75	71.	*	1	1635	200	0.	*	2	0300	325	0.	*	2	1325	450	0.
1	0615	76	55.	*	1	1640	201	0.	*	2	0305	326	0.	*	2	1330	451	0.
1	0620	77	41.	*	1	1645	202	0.	*	2	0310	327	0.	*	2	1335	452	0.
1	0625	78	29.	*	1	1650	203	0.	*	2	0315	328	0.	*	2	1340	453	0.
1	0630	79	20.	*	1	1655	204	0.	*	2	0320	329	0.	*	2	1345	454	0.
1	0635	80	13.	*	1	1700	205	0.	*	2	0325	330	0.	*	2	1350	455	0.
1	0640	81	9.	*	1	1705	206	0.	*	2	0330	331	0.	*	2	1355	456	0.
1	0645	82	6.	*	1	1710	207	0.	*	2	0335	332	0.	*	2	1400	457	0.
1	0650	83	4.	*	1	1715	208	0.	*	2	0340	333	0.	*	2	1405	458	0.
1	0655	84	2.	*	1	1720	209	0.	*	2	0345	334	0.	*	2	1410	459	0.
1	0700	85	2.	*	1	1725	210	0.	*	2	0350	335	0.	*	2	1415	460	0.
1	0705	86	1.	*	1	1730	211	0.	*	2	0355	336	0.	*	2	1420	461	0.
1	0710	87	1.	*	1	1735	212	0.	*	2	0400	337	0.	*	2	1425	462	0.
1	0715	88	0.	*	1	1740	213	0.	*	2	0405	338	0.	*	2	1430	463	0.
1	0720	89	0.	*	1	1745	214	0.	*	2	0410	339	0.	*	2	1435	464	0.
1	0725	90	0.	*	1	1750	215	0.	*	2	0415	340	0.	*	2	1440	465	0.
1	0730	91	0.	*	1	1755	216	0.	*	2	0420	341	0.	*	2	1445	466	0.
1	0735	92	0.	*	1	1800	217	0.	*	2	0425	342	0.	*	2	1450	467	0.
1	0740	93	0.	*	1	1805	218	0.	*	2	0430	343	0.	*	2	1455	468	0.
1	0745	94	0.	*	1	1810	219	0.	*	2	0435	344	0.	*	2	1500	469	0.
1	0750	95	0.	*	1	1815	220	0.	*	2	0440	345	0.	*	2	1505	470	0.
1	0755	96	0.	*	1	1820	221	0.	*	2	0445	346	0.	*	2	1510	471	0.
1	0800	97	0.	*	1	1825	222	0.	*	2	0450	347	0.	*	2	1515	472	0.
1	0805	98	0.	*	1	1830	223	0.	*	2	0455	348	0.	*	2	1520	473	0.
1	0810	99	0.	*	1	1835	224	0.	*	2	0500	349	0.	*	2	1525	474	0.
1	0815	100	0.	*	1	1840	225	0.	*	2	0505	350	0.	*	2	1530	475	0.
1	0820	101	0.	*	1	1845	226	0.	*	2	0510	351	0.	*	2	1535	476	0.
1	0825	102	0.	*	1	1850	227	0.	*	2	0515	352	0.	*	2	1540	477	0.
1	0830	103	0.	*	1	1855	228	0.	*	2	0520	353	0.	*	2	1545	478	0.
1	0835	104	0.	*	1	1900	229	0.	*	2	0525	354	0.	*	2	1550	479	0.
1	0840	105	0.	*	1	1905	230	0.	*	2	0530	355	0.	*	2	1555	480	0.
1	0845	106	0.	*	1	1910	231	0.	*	2	0535	356	0.	*	2	1600	481	0.
1	0850	107	0.	*	1	1915	232	0.	*	2	0540	357	0.	*	2	1605	482	0.
1	0855	108	0.	*	1	1920	233	0.	*	2	0545	358	0.	*	2	1610	483	0.
1	0900	109	0.	*	1	1925	234	0.	*	2	0550	359	0.	*	2	1615	484	0.
1	0905	110	0.	*	1	1930	235	0.	*	2	0555	360	0.	*	2	1620	485	0.
1	0910	111	0.	*	1	1935	236	0.	*	2	0600	361	0.	*	2	1625	486	0.
1	0915	112	0.	*	1	1940	237	0.	*	2	0605	362	0.	*	2	1630	487	0.
1	0920	113	0.	*	1	1945	238	0.	*	2	0610	363	0.	*	2	1635	488	0.
1	0925	114	0.	*	1	1950	239	0.	*	2	0615	364	0.	*	2	1640	489	0.
1	0930	115	0.	*	1	1955	240	0.	*	2	0620	365	0.	*	2	1645	490	0.
1	0935	116	0.	*	1	2000	241	0.	*	2	0625	366	0.	*	2	1650	491	0.
1	0940	117	0.	*	1	2005	242	0.	*	2	0630	367	0.	*	2	1655	492	0.
1	0945	118	0.	*	1	2010	243	0.	*	2	0635	368	0.	*	2	1700	493	0.
1	0950	119	0.	*	1	2015	244	0.	*	2	0640	369	0.	*	2	1705	494	0.
1	0955	120	0.	*	1	2020	245	0.	*	2	0645	370	0.	*	2	1710	495	0.
1	1000	121	0.	*	1	2025	246	0.	*	2	0650	371	0.	*	2	1715	496	0.
1	1005	122	0.	*	1	2030	247	0.	*	2	0655	372	0.	*	2	1720	497	0.
1	1010	123	0.	*	1	2035	248	0.	*	2	0700	373	0.	*	2	1725	498	0.
1	1015	124	0.	*	1	2040	249	0.	*	2	0705	374	0.	*	2	1730	499	0.

1	1020	125	0.	*	1	2045	250	0.	*	2	0710	375	0.	*	2	1735	500	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	41.58-HR
(CFS)	(HR)				
		(CFS)			
3974.	3.67	641.	160.	93.	93.
		(INCHES) 1.799	1.802	1.802	1.802
		(AC-FT) 318.	318.	318.	318.

CUMULATIVE AREA = 3.31 SQ MI

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .97

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		1025	126	0.	1		2050	251	0.	2		0715	376	0.
1		0005	2	0.	1		1030	127	0.	1		2055	252	0.	2		0720	377	0.
1		0010	3	0.	1		1035	128	0.	1		2100	253	0.	2		0725	378	0.
1		0015	4	0.	1		1040	129	0.	1		2105	254	0.	2		0730	379	0.
1		0020	5	2.	1		1045	130	0.	1		2110	255	0.	2		0735	380	0.
1		0025	6	10.	1		1050	131	0.	1		2115	256	0.	2		0740	381	0.
1		0030	7	24.	1		1055	132	0.	1		2120	257	0.	2		0745	382	0.
1		0035	8	37.	1		1100	133	0.	1		2125	258	0.	2		0750	383	0.
1		0040	9	38.	1		1105	134	0.	1		2130	259	0.	2		0755	384	0.
1		0045	10	30.	1		1110	135	0.	1		2135	260	0.	2		0800	385	0.
1		0050	11	22.	1		1115	136	0.	1		2140	261	0.	2		0805	386	0.
1		0055	12	15.	1		1120	137	0.	1		2145	262	0.	2		0810	387	0.
1		0100	13	11.	1		1125	138	0.	1		2150	263	0.	2		0815	388	0.
1		0105	14	9.	1		1130	139	0.	1		2155	264	0.	2		0820	389	0.
1		0110	15	13.	1		1135	140	0.	1		2200	265	0.	2		0825	390	0.
1		0115	16	20.	1		1140	141	0.	1		2205	266	0.	2		0830	391	0.
1		0120	17	27.	1		1145	142	0.	1		2210	267	0.	2		0835	392	0.
1		0125	18	38.	1		1150	143	0.	1		2215	268	0.	2		0840	393	0.
1		0130	19	61.	1		1155	144	0.	1		2220	269	0.	2		0845	394	0.
1		0135	20	90.	1		1200	145	0.	1		2225	270	0.	2		0850	395	0.
1		0140	21	114.	1		1205	146	0.	1		2230	271	0.	2		0855	396	0.
1		0145	22	131.	1		1210	147	0.	1		2235	272	0.	2		0900	397	0.
1		0150	23	135.	1		1215	148	0.	1		2240	273	0.	2		0905	398	0.
1		0155	24	124.	1		1220	149	0.	1		2245	274	0.	2		0910	399	0.
1		0200	25	104.	1		1225	150	0.	1		2250	275	0.	2		0915	400	0.
1		0205	26	86.	1		1230	151	0.	1		2255	276	0.	2		0920	401	0.
1		0210	27	84.	1		1235	152	0.	1		2300	277	0.	2		0925	402	0.
1		0215	28	111.	1		1240	153	0.	1		2305	278	0.	2		0930	403	0.
1		0220	29	160.	1		1245	154	0.	1		2310	279	0.	2		0935	404	0.
1		0225	30	203.	1		1250	155	0.	1		2315	280	0.	2		0940	405	0.
1		0230	31	219.	1		1255	156	0.	1		2320	281	0.	2		0945	406	0.
1		0235	32	211.	1		1300	157	0.	1		2325	282	0.	2		0950	407	0.
1		0240	33	213.	1		1305	158	0.	1		2330	283	0.	2		0955	408	0.
1		0245	34	234.	1		1310	159	0.	1		2335	284	0.	2		1000	409	0.
1		0250	35	244.	1		1315	160	0.	1		2340	285	0.	2		1005	410	0.
1		0255	36	229.	1		1320	161	0.	1		2345	286	0.	2		1010	411	0.
1		0300	37	218.	1		1325	162	0.	1		2350	287	0.	2		1015	412	0.
1		0305	38	266.	1		1330	163	0.	1		2355	288	0.	2		1020	413	0.
1		0310	39	402.	1		1335	164	0.	2		0000	289	0.	2		1025	414	0.
1		0315	40	662.	1		1340	165	0.	2		0005	290	0.	2		1030	415	0.
1		0320	41	1183.	1		1345	166	0.	2		0010	291	0.	2		1035	416	0.
1		0325	42	1990.	1		1350	167	0.	2		0015	292	0.	2		1040	417	0.
1		0330	43	2998.	1		1355	168	0.	2		0020	293	0.	2		1045	418	0.
1		0335	44	3754.	1		1400	169	0.	2		0025	294	0.	2		1050	419	0.
1		0340	45	3911.	1		1405	170	0.	2		0030	295	0.	2		1055	420	0.
1		0345	46	3646.	1		1410	171	0.	2		0035	296	0.	2		1100	421	0.
1		0350	47	3116.	1		1415	172	0.	2		0040	297	0.	2		1105	422	0.
1		0355	48	2510.	1		1420	173	0.	2		0045	298	0.	2		1110	423	0.
1		0400	49	2015.	1		1425	174	0.	2		0050	299	0.	2		1115	424	0.
1		0405	50	1629.	1		1430	175	0.	2		0055	300	0.	2		1120	425	0.
1		0410	51	1288.	1		1435	176	0.	2		0100	301	0.	2		1125	426	0.
1		0415	52	1013.	1		1440	177	0.	2		0105	302	0.	2		1130	427	0.
1		0420	53	827.	1		1445	178	0.	2		0110	303	0.	2		1135	428	0.
1		0425	54	724.	1		1450	179	0.	2		0115	304	0.	2		1140	429	0.
1		0430	55	727.	1		1455	180	0.	2		0120	305	0.	2		1145	430	0.
1		0435	56	816.	1		1500	181	0.	2		0125	306	0.	2		1150	431	0.
1		0440	57	893.	1		1505	182	0.	2		0130	307	0.	2		1155	432	0.
1		0445	58	920.	1		1510	183	0.	2		0135	308	0.	2		1200	433	0.
1		0450	59	948.	1		1515	184	0.	2		0140	309	0.	2		1205	434	0.
1		0455	60	962.	1		1520	185	0.	2		0145	310	0.	2		1210	435	0.
1		0500	61	901.	1		1525	186	0.	2		0150	311	0.	2		1215	436	0.
1		0505	62	789.	1		1530	187	0.	2		0155	312	0.	2		1220	437	0.
1		0510	63	653.	1		1535	188	0.	2		0200	313	0.	2		1225	438	0.
1		0515	64	520.	1		1540	189	0.	2		0205	314	0.	2		1230	439	0.
1		0520	65	406.	1		1545	190	0.	2		0210	315	0.	2		1235	440	0.
1		0525	66	319.	1		1550	191	0.	2		0215	316	0.	2		1240	441	0.
1		0530	67	255.	1		1555	192	0.	2		0220	317	0.	2		1245	442	0.
1		0535	68	202.	1		1600	193	0.	2		0225	318	0.	2		1250	443	0.
1		0540	69	160.	1		1605	194	0.	2		0230	319	0.	2		1255	444	0.
1		0545	70	135.	1		1610	195	0.	2		0235	320	0.	2		1300	445	0.

1	0550	71	123.	*	1	1615	196	0.	*	2	0240	321	0.	*	2	1305	446	0.
1	0555	72	109.	*	1	1620	197	0.	*	2	0245	322	0.	*	2	1310	447	0.
1	0600	73	96.	*	1	1625	198	0.	*	2	0250	323	0.	*	2	1315	448	0.
1	0605	74	84.	*	1	1630	199	0.	*	2	0255	324	0.	*	2	1320	449	0.
1	0610	75	70.	*	1	1635	200	0.	*	2	0300	325	0.	*	2	1325	450	0.
1	0615	76	55.	*	1	1640	201	0.	*	2	0305	326	0.	*	2	1330	451	0.
1	0620	77	40.	*	1	1645	202	0.	*	2	0310	327	0.	*	2	1335	452	0.
1	0625	78	29.	*	1	1650	203	0.	*	2	0315	328	0.	*	2	1340	453	0.
1	0630	79	20.	*	1	1655	204	0.	*	2	0320	329	0.	*	2	1345	454	0.
1	0635	80	13.	*	1	1700	205	0.	*	2	0325	330	0.	*	2	1350	455	0.
1	0640	81	9.	*	1	1705	206	0.	*	2	0330	331	0.	*	2	1355	456	0.
1	0645	82	6.	*	1	1710	207	0.	*	2	0335	332	0.	*	2	1400	457	0.
1	0650	83	4.	*	1	1715	208	0.	*	2	0340	333	0.	*	2	1405	458	0.
1	0655	84	2.	*	1	1720	209	0.	*	2	0345	334	0.	*	2	1410	459	0.
1	0700	85	2.	*	1	1725	210	0.	*	2	0350	335	0.	*	2	1415	460	0.
1	0705	86	1.	*	1	1730	211	0.	*	2	0355	336	0.	*	2	1420	461	0.
1	0710	87	1.	*	1	1735	212	0.	*	2	0400	337	0.	*	2	1425	462	0.
1	0715	88	0.	*	1	1740	213	0.	*	2	0405	338	0.	*	2	1430	463	0.
1	0720	89	0.	*	1	1745	214	0.	*	2	0410	339	0.	*	2	1435	464	0.
1	0725	90	0.	*	1	1750	215	0.	*	2	0415	340	0.	*	2	1440	465	0.
1	0730	91	0.	*	1	1755	216	0.	*	2	0420	341	0.	*	2	1445	466	0.
1	0735	92	0.	*	1	1800	217	0.	*	2	0425	342	0.	*	2	1450	467	0.
1	0740	93	0.	*	1	1805	218	0.	*	2	0430	343	0.	*	2	1455	468	0.
1	0745	94	0.	*	1	1810	219	0.	*	2	0435	344	0.	*	2	1500	469	0.
1	0750	95	0.	*	1	1815	220	0.	*	2	0440	345	0.	*	2	1505	470	0.
1	0755	96	0.	*	1	1820	221	0.	*	2	0445	346	0.	*	2	1510	471	0.
1	0800	97	0.	*	1	1825	222	0.	*	2	0450	347	0.	*	2	1515	472	0.
1	0805	98	0.	*	1	1830	223	0.	*	2	0455	348	0.	*	2	1520	473	0.
1	0810	99	0.	*	1	1835	224	0.	*	2	0500	349	0.	*	2	1525	474	0.
1	0815	100	0.	*	1	1840	225	0.	*	2	0505	350	0.	*	2	1530	475	0.
1	0820	101	0.	*	1	1845	226	0.	*	2	0510	351	0.	*	2	1535	476	0.
1	0825	102	0.	*	1	1850	227	0.	*	2	0515	352	0.	*	2	1540	477	0.
1	0830	103	0.	*	1	1855	228	0.	*	2	0520	353	0.	*	2	1545	478	0.
1	0835	104	0.	*	1	1900	229	0.	*	2	0525	354	0.	*	2	1550	479	0.
1	0840	105	0.	*	1	1905	230	0.	*	2	0530	355	0.	*	2	1555	480	0.
1	0845	106	0.	*	1	1910	231	0.	*	2	0535	356	0.	*	2	1600	481	0.
1	0850	107	0.	*	1	1915	232	0.	*	2	0540	357	0.	*	2	1605	482	0.
1	0855	108	0.	*	1	1920	233	0.	*	2	0545	358	0.	*	2	1610	483	0.
1	0900	109	0.	*	1	1925	234	0.	*	2	0550	359	0.	*	2	1615	484	0.
1	0905	110	0.	*	1	1930	235	0.	*	2	0555	360	0.	*	2	1620	485	0.
1	0910	111	0.	*	1	1935	236	0.	*	2	0600	361	0.	*	2	1625	486	0.
1	0915	112	0.	*	1	1940	237	0.	*	2	0605	362	0.	*	2	1630	487	0.
1	0920	113	0.	*	1	1945	238	0.	*	2	0610	363	0.	*	2	1635	488	0.
1	0925	114	0.	*	1	1950	239	0.	*	2	0615	364	0.	*	2	1640	489	0.
1	0930	115	0.	*	1	1955	240	0.	*	2	0620	365	0.	*	2	1645	490	0.
1	0935	116	0.	*	1	2000	241	0.	*	2	0625	366	0.	*	2	1650	491	0.
1	0940	117	0.	*	1	2005	242	0.	*	2	0630	367	0.	*	2	1655	492	0.
1	0945	118	0.	*	1	2010	243	0.	*	2	0635	368	0.	*	2	1700	493	0.
1	0950	119	0.	*	1	2015	244	0.	*	2	0640	369	0.	*	2	1705	494	0.
1	0955	120	0.	*	1	2020	245	0.	*	2	0645	370	0.	*	2	1710	495	0.
1	1000	121	0.	*	1	2025	246	0.	*	2	0650	371	0.	*	2	1715	496	0.
1	1005	122	0.	*	1	2030	247	0.	*	2	0655	372	0.	*	2	1720	497	0.
1	1010	123	0.	*	1	2035	248	0.	*	2	0700	373	0.	*	2	1725	498	0.
1	1015	124	0.	*	1	2040	249	0.	*	2	0705	374	0.	*	2	1730	499	0.
1	1020	125	0.	*	1	2045	250	0.	*	2	0710	375	0.	*	2	1735	500	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	41.58-HR
(CFS)	(HR)				
		(CFS)			
3911.	3.67	631.	158.	91.	91.
		(INCHES) 1.771	1.774	1.774	1.774
		(AC-FT) 313.	313.	313.	313.

CUMULATIVE AREA = 3.31 SQ MI

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .95

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		1025	126	0.	*	1		2050	251	0.	*	2		0715	376	0.
1		0005	2	0.	*	1		1030	127	0.	*	1		2055	252	0.	*	2		0720	377	0.
1		0010	3	0.	*	1		1035	128	0.	*	1		2100	253	0.	*	2		0725	378	0.
1		0015	4	0.	*	1		1040	129	0.	*	1		2105	254	0.	*	2		0730	379	0.
1		0020	5	2.	*	1		1045	130	0.	*	1		2110	255	0.	*	2		0735	380	0.
1		0025	6	9.	*	1		1050	131	0.	*	1		2115	256	0.	*	2		0740	381	0.
1		0030	7	22.	*	1		1055	132	0.	*	1		2120	257	0.	*	2		0745	382	0.
1		0035	8	34.	*	1		1100	133	0.	*	1		2125	258	0.	*	2		0750	383	0.
1		0040	9	35.	*	1		1105	134	0.	*	1		2130	259	0.	*	2		0755	384	0.
1		0045	10	28.	*	1		1110	135	0.	*	1		2135	260	0.	*	2		0800	385	0.
1		0050	11	20.	*	1		1115	136	0.	*	1		2140	261	0.	*	2		0805	386	0.
1		0055	12	14.	*	1		1120	137	0.	*	1		2145	262	0.	*	2		0810	387	0.
1		0100	13	10.	*	1		1125	138	0.	*	1		2150	263	0.	*	2		0815	388	0.
1		0105	14	8.	*	1		1130	139	0.	*	1		2155	264	0.	*	2		0820	389	0.
1		0110	15	12.	*	1		1135	140	0.	*	1		2200	265	0.	*	2		0825	390	0.
1		0115	16	19.	*	1		1140	141	0.	*	1		2205	266	0.	*	2		0830	391	0.

1	0120	17	25.	*	1	1145	142	0.	*	1	2210	267	0.	*	2	0835	392	0.
1	0125	18	35.	*	1	1150	143	0.	*	1	2215	268	0.	*	2	0840	393	0.
1	0130	19	57.	*	1	1155	144	0.	*	1	2220	269	0.	*	2	0845	394	0.
1	0135	20	84.	*	1	1200	145	0.	*	1	2225	270	0.	*	2	0850	395	0.
1	0140	21	107.	*	1	1205	146	0.	*	1	2230	271	0.	*	2	0855	396	0.
1	0145	22	123.	*	1	1210	147	0.	*	1	2235	272	0.	*	2	0900	397	0.
1	0150	23	127.	*	1	1215	148	0.	*	1	2240	273	0.	*	2	0905	398	0.
1	0155	24	117.	*	1	1220	149	0.	*	1	2245	274	0.	*	2	0910	399	0.
1	0200	25	98.	*	1	1225	150	0.	*	1	2250	275	0.	*	2	0915	400	0.
1	0205	26	82.	*	1	1230	151	0.	*	1	2255	276	0.	*	2	0920	401	0.
1	0210	27	80.	*	1	1235	152	0.	*	1	2300	277	0.	*	2	0925	402	0.
1	0215	28	106.	*	1	1240	153	0.	*	1	2305	278	0.	*	2	0930	403	0.
1	0220	29	152.	*	1	1245	154	0.	*	1	2310	279	0.	*	2	0935	404	0.
1	0225	30	194.	*	1	1250	155	0.	*	1	2315	280	0.	*	2	0940	405	0.
1	0230	31	210.	*	1	1255	156	0.	*	1	2320	281	0.	*	2	0945	406	0.
1	0235	32	202.	*	1	1300	157	0.	*	1	2325	282	0.	*	2	0950	407	0.
1	0240	33	204.	*	1	1305	158	0.	*	1	2330	283	0.	*	2	0955	408	0.
1	0245	34	224.	*	1	1310	159	0.	*	1	2335	284	0.	*	2	1000	409	0.
1	0250	35	234.	*	1	1315	160	0.	*	1	2340	285	0.	*	2	1005	410	0.
1	0255	36	220.	*	1	1320	161	0.	*	1	2345	286	0.	*	2	1010	411	0.
1	0300	37	209.	*	1	1325	162	0.	*	1	2350	287	0.	*	2	1015	412	0.
1	0305	38	256.	*	1	1330	163	0.	*	1	2355	288	0.	*	2	1020	413	0.
1	0310	39	387.	*	1	1335	164	0.	*	2	0000	289	0.	*	2	1025	414	0.
1	0315	40	638.	*	1	1340	165	0.	*	2	0005	290	0.	*	2	1030	415	0.
1	0320	41	1142.	*	1	1345	166	0.	*	2	0010	291	0.	*	2	1035	416	0.
1	0325	42	1925.	*	1	1350	167	0.	*	2	0015	292	0.	*	2	1040	417	0.
1	0330	43	2906.	*	1	1355	168	0.	*	2	0020	293	0.	*	2	1045	418	0.
1	0335	44	3650.	*	1	1400	169	0.	*	2	0025	294	0.	*	2	1050	419	0.
1	0340	45	3803.	*	1	1405	170	0.	*	2	0030	295	0.	*	2	1055	420	0.
1	0345	46	3544.	*	1	1410	171	0.	*	2	0035	296	0.	*	2	1100	421	0.
1	0350	47	3036.	*	1	1415	172	0.	*	2	0040	297	0.	*	2	1105	422	0.
1	0355	48	2447.	*	1	1420	173	0.	*	2	0045	298	0.	*	2	1110	423	0.
1	0400	49	1966.	*	1	1425	174	0.	*	2	0050	299	0.	*	2	1115	424	0.
1	0405	50	1590.	*	1	1430	175	0.	*	2	0055	300	0.	*	2	1120	425	0.
1	0410	51	1258.	*	1	1435	176	0.	*	2	0100	301	0.	*	2	1125	426	0.
1	0415	52	990.	*	1	1440	177	0.	*	2	0105	302	0.	*	2	1130	427	0.
1	0420	53	807.	*	1	1445	178	0.	*	2	0110	303	0.	*	2	1135	428	0.
1	0425	54	707.	*	1	1450	179	0.	*	2	0115	304	0.	*	2	1140	429	0.
1	0430	55	710.	*	1	1455	180	0.	*	2	0120	305	0.	*	2	1145	430	0.
1	0435	56	797.	*	1	1500	181	0.	*	2	0125	306	0.	*	2	1150	431	0.
1	0440	57	871.	*	1	1505	182	0.	*	2	0130	307	0.	*	2	1155	432	0.
1	0445	58	898.	*	1	1510	183	0.	*	2	0135	308	0.	*	2	1200	433	0.
1	0450	59	925.	*	1	1515	184	0.	*	2	0140	309	0.	*	2	1205	434	0.
1	0455	60	940.	*	1	1520	185	0.	*	2	0145	310	0.	*	2	1210	435	0.
1	0500	61	880.	*	1	1525	186	0.	*	2	0150	311	0.	*	2	1215	436	0.
1	0505	62	771.	*	1	1530	187	0.	*	2	0155	312	0.	*	2	1220	437	0.
1	0510	63	638.	*	1	1535	188	0.	*	2	0200	313	0.	*	2	1225	438	0.
1	0515	64	509.	*	1	1540	189	0.	*	2	0205	314	0.	*	2	1230	439	0.
1	0520	65	398.	*	1	1545	190	0.	*	2	0210	315	0.	*	2	1235	440	0.
1	0525	66	312.	*	1	1550	191	0.	*	2	0215	316	0.	*	2	1240	441	0.
1	0530	67	250.	*	1	1555	192	0.	*	2	0220	317	0.	*	2	1245	442	0.
1	0535	68	198.	*	1	1600	193	0.	*	2	0225	318	0.	*	2	1250	443	0.
1	0540	69	157.	*	1	1605	194	0.	*	2	0230	319	0.	*	2	1255	444	0.
1	0545	70	133.	*	1	1610	195	0.	*	2	0235	320	0.	*	2	1300	445	0.
1	0550	71	120.	*	1	1615	196	0.	*	2	0240	321	0.	*	2	1305	446	0.
1	0555	72	106.	*	1	1620	197	0.	*	2	0245	322	0.	*	2	1310	447	0.
1	0600	73	94.	*	1	1625	198	0.	*	2	0250	323	0.	*	2	1315	448	0.
1	0605	74	82.	*	1	1630	199	0.	*	2	0255	324	0.	*	2	1320	449	0.
1	0610	75	68.	*	1	1635	200	0.	*	2	0300	325	0.	*	2	1325	450	0.
1	0615	76	53.	*	1	1640	201	0.	*	2	0305	326	0.	*	2	1330	451	0.
1	0620	77	40.	*	1	1645	202	0.	*	2	0310	327	0.	*	2	1335	452	0.
1	0625	78	28.	*	1	1650	203	0.	*	2	0315	328	0.	*	2	1340	453	0.
1	0630	79	19.	*	1	1655	204	0.	*	2	0320	329	0.	*	2	1345	454	0.
1	0635	80	13.	*	1	1700	205	0.	*	2	0325	330	0.	*	2	1350	455	0.
1	0640	81	9.	*	1	1705	206	0.	*	2	0330	331	0.	*	2	1355	456	0.
1	0645	82	6.	*	1	1710	207	0.	*	2	0335	332	0.	*	2	1400	457	0.
1	0650	83	4.	*	1	1715	208	0.	*	2	0340	333	0.	*	2	1405	458	0.
1	0655	84	2.	*	1	1720	209	0.	*	2	0345	334	0.	*	2	1410	459	0.
1	0700	85	2.	*	1	1725	210	0.	*	2	0350	335	0.	*	2	1415	460	0.
1	0705	86	1.	*	1	1730	211	0.	*	2	0355	336	0.	*	2	1420	461	0.
1	0710	87	1.	*	1	1735	212	0.	*	2	0400	337	0.	*	2	1425	462	0.
1	0715	88	0.	*	1	1740	213	0.	*	2	0405	338	0.	*	2	1430	463	0.
1	0720	89	0.	*	1	1745	214	0.	*	2	0410	339	0.	*	2	1435	464	0.
1	0725	90	0.	*	1	1750	215	0.	*	2	0415	340	0.	*	2	1440	465	0.
1	0730	91	0.	*	1	1755	216	0.	*	2	0420	341	0.	*	2	1445	466	0.
1	0735	92	0.	*	1	1800	217	0.	*	2	0425	342	0.	*	2	1450	467	0.
1	0740	93	0.	*	1	1805	218	0.	*	2	0430	343	0.	*	2	1455	468	0.
1	0745	94	0.	*	1	1810	219	0.	*	2	0435	344	0.	*	2	1500	469	0.
1	0750	95	0.	*	1	1815	220	0.	*	2	0440	345	0.	*	2	1505	470	0.
1	0755	96	0.	*	1	1820	221	0.	*	2	0445	346	0.	*	2	1510	471	0.
1	0800	97	0.	*	1	1825	222	0.	*	2	0450	347	0.	*	2	1515	472	0.
1	0805	98	0.	*	1	1830	223	0.	*	2	0455	348	0.	*	2	1520	473	0.
1	0810	99	0.	*	1	1835	224	0.	*	2	0500	349	0.	*	2	1525	474	0.
1	0815	100	0.	*	1	1840	225	0.	*	2	0505	350	0.	*	2	1530	475	0.
1	0820	101	0.	*	1	1845	226	0.	*	2	0510	351	0.	*	2	1535	476	0.
1	0825	102	0.	*	1	1850	227	0.	*	2	0515	352	0.	*	2	1540	477	0.
1	0830	103	0.	*	1	1855	228	0.	*	2	0520	353	0.	*	2	1545	478	0.
1	0835	104	0.	*	1	1900	229	0.	*	2	0525	354	0.	*	2	1550	479	0.
1	0840	105	0.	*	1	1905	230	0.	*	2	0530	355	0.	*	2	1555	480	0.
1	0845	106	0.	*	1	1910	231	0.	*	2	0535	356	0.	*	2	1600	481	0.
1	0850	107	0.	*	1	1915	232	0.	*	2	0540	357	0.	*	2	1605	482	0.
1	0855	108	0.	*	1	1920	233	0.	*	2	0545	358	0.	*	2	1610	483	0.
1	0900	109	0.	*	1	1925	234	0.	*	2	0550	359	0.	*	2	1615	484	0.
1	0905	110	0.	*	1	1930	235	0.	*	2	0555	360	0.	*	2	1620	485	0.
1	0910	111	0.	*	1	1935	236	0.	*	2	0600	361	0.	*	2	1625	486	0.

1	0915	112	0.	*	1	1940	237	0.	*	2	0605	362	0.	*	2	1630	487	0.
1	0920	113	0.	*	1	1945	238	0.	*	2	0610	363	0.	*	2	1635	488	0.
1	0925	114	0.	*	1	1950	239	0.	*	2	0615	364	0.	*	2	1640	489	0.
1	0930	115	0.	*	1	1955	240	0.	*	2	0620	365	0.	*	2	1645	490	0.
1	0935	116	0.	*	1	2000	241	0.	*	2	0625	366	0.	*	2	1650	491	0.
1	0940	117	0.	*	1	2005	242	0.	*	2	0630	367	0.	*	2	1655	492	0.
1	0945	118	0.	*	1	2010	243	0.	*	2	0635	368	0.	*	2	1700	493	0.
1	0950	119	0.	*	1	2015	244	0.	*	2	0640	369	0.	*	2	1705	494	0.
1	0955	120	0.	*	1	2020	245	0.	*	2	0645	370	0.	*	2	1710	495	0.
1	1000	121	0.	*	1	2025	246	0.	*	2	0650	371	0.	*	2	1715	496	0.
1	1005	122	0.	*	1	2030	247	0.	*	2	0655	372	0.	*	2	1720	497	0.
1	1010	123	0.	*	1	2035	248	0.	*	2	0700	373	0.	*	2	1725	498	0.
1	1015	124	0.	*	1	2040	249	0.	*	2	0705	374	0.	*	2	1730	499	0.
1	1020	125	0.	*	1	2045	250	0.	*	2	0710	375	0.	*	2	1735	500	0.
				*					*					*				

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	41.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 3803.	3.67		613.	153.	89.	89.
		(INCHES)	1.721	1.724	1.724	1.724
		(AC-FT)	304.	304.	304.	304.

CUMULATIVE AREA = 3.31 SQ MI

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HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .93

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DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
					*						*						*					
1		0000	1	0.	*	1		1025	126	0.	*	1		2050	251	0.	*	2		0715	376	0.
1		0005	2	0.	*	1		1030	127	0.	*	1		2055	252	0.	*	2		0720	377	0.
1		0010	3	0.	*	1		1035	128	0.	*	1		2100	253	0.	*	2		0725	378	0.
1		0015	4	0.	*	1		1040	129	0.	*	1		2105	254	0.	*	2		0730	379	0.
1		0020	5	1.	*	1		1045	130	0.	*	1		2110	255	0.	*	2		0735	380	0.
1		0025	6	8.	*	1		1050	131	0.	*	1		2115	256	0.	*	2		0740	381	0.
1		0030	7	20.	*	1		1055	132	0.	*	1		2120	257	0.	*	2		0745	382	0.
1		0035	8	30.	*	1		1100	133	0.	*	1		2125	258	0.	*	2		0750	383	0.
1		0040	9	31.	*	1		1105	134	0.	*	1		2130	259	0.	*	2		0755	384	0.
1		0045	10	25.	*	1		1110	135	0.	*	1		2135	260	0.	*	2		0800	385	0.
1		0050	11	18.	*	1		1115	136	0.	*	1		2140	261	0.	*	2		0805	386	0.
1		0055	12	12.	*	1		1120	137	0.	*	1		2145	262	0.	*	2		0810	387	0.
1		0100	13	9.	*	1		1125	138	0.	*	1		2150	263	0.	*	2		0815	388	0.
1		0105	14	7.	*	1		1130	139	0.	*	1		2155	264	0.	*	2		0820	389	0.
1		0110	15	11.	*	1		1135	140	0.	*	1		2200	265	0.	*	2		0825	390	0.
1		0115	16	17.	*	1		1140	141	0.	*	1		2205	266	0.	*	2		0830	391	0.
1		0120	17	23.	*	1		1145	142	0.	*	1		2210	267	0.	*	2		0835	392	0.
1		0125	18	32.	*	1		1150	143	0.	*	1		2215	268	0.	*	2		0840	393	0.
1		0130	19	52.	*	1		1155	144	0.	*	1		2220	269	0.	*	2		0845	394	0.
1		0135	20	78.	*	1		1200	145	0.	*	1		2225	270	0.	*	2		0850	395	0.
1		0140	21	99.	*	1		1205	146	0.	*	1		2230	271	0.	*	2		0855	396	0.
1		0145	22	114.	*	1		1210	147	0.	*	1		2235	272	0.	*	2		0900	397	0.
1		0150	23	118.	*	1		1215	148	0.	*	1		2240	273	0.	*	2		0905	398	0.
1		0155	24	108.	*	1		1220	149	0.	*	1		2245	274	0.	*	2		0910	399	0.
1		0200	25	91.	*	1		1225	150	0.	*	1		2250	275	0.	*	2		0915	400	0.
1		0205	26	76.	*	1		1230	151	0.	*	1		2255	276	0.	*	2		0920	401	0.
1		0210	27	74.	*	1		1235	152	0.	*	1		2300	277	0.	*	2		0925	402	0.
1		0215	28	99.	*	1		1240	153	0.	*	1		2305	278	0.	*	2		0930	403	0.
1		0220	29	143.	*	1		1245	154	0.	*	1		2310	279	0.	*	2		0935	404	0.
1		0225	30	183.	*	1		1250	155	0.	*	1		2315	280	0.	*	2		0940	405	0.
1		0230	31	198.	*	1		1255	156	0.	*	1		2320	281	0.	*	2		0945	406	0.
1		0235	32	191.	*	1		1300	157	0.	*	1		2325	282	0.	*	2		0950	407	0.
1		0240	33	192.	*	1		1305	158	0.	*	1		2330	283	0.	*	2		0955	408	0.
1		0245	34	213.	*	1		1310	159	0.	*	1		2335	284	0.	*	2		1000	409	0.
1		0250	35	222.	*	1		1315	160	0.	*	1		2340	285	0.	*	2		1005	410	0.
1		0255	36	209.	*	1		1320	161	0.	*	1		2345	286	0.	*	2		1010	411	0.
1		0300	37	199.	*	1		1325	162	0.	*	1		2350	287	0.	*	2		1015	412	0.
1		0305	38	243.	*	1		1330	163	0.	*	1		2355	288	0.	*	2		1020	413	0.
1		0310	39	369.	*	1		1335	164	0.	*	2		0000	289	0.	*	2		1025	414	0.
1		0315	40	608.	*	1		1340	165	0.	*	2		0005	290	0.	*	2		1030	415	0.
1		0320	41	1092.	*	1		1345	166	0.	*	2		0010	291	0.	*	2		1035	416	0.
1		0325	42	1847.	*	1		1350	167	0.	*	2		0015	292	0.	*	2		1040	417	0.
1		0330	43	2795.	*	1		1355	168	0.	*	2		0020	293	0.	*	2		1045	418	0.
1		0335	44	3524.	*	1		1400	169	0.	*	2		0025	294	0.	*	2		1050	419	0.
1		0340	45	3671.	*	1		1405	170	0.	*	2		0030	295	0.	*	2		1055	420	0.
1		0345	46	3420.	*	1		1410	171	0.	*	2		0035	296	0.	*	2		1100	421	0.
1		0350	47	2937.	*	1		1415	172	0.	*	2		0040	297	0.	*	2		1105	422	0.
1		0355	48	2369.	*	1		1420	173	0.	*	2		0045	298	0.	*	2		1110	423	0.
1		0400	49	1905.	*	1		1425	174	0.	*	2		0050	299	0.	*	2		1115	424	0.
1		0405	50	1542.	*	1		1430	175	0.	*	2		0055	300	0.	*	2		1120	425	0.
1		0410	51	1220.	*	1		1435	176	0.	*	2		0100	301	0.	*	2		1125	426	0.
1		0415	52	961.	*	1		1440	177	0.	*	2		0105	302	0.	*	2		1130	427	0.
1		0420	53	784.	*	1		1445	178	0.	*	2		0110	303	0.	*	2		1135	428	0.
1		0425	54	687.	*	1		1450	179	0.	*	2		0115	304	0.	*	2		1140	429	0.
1		0430	55	689.	*	1		1455	180	0.	*	2		0120	305	0.	*	2		1145	430	0.
1		0435	56	773.	*	1		1500	181	0.	*	2		0125	306	0.	*	2		1150	431	0.
1		0440	57	845.	*	1		1505	182	0.	*	2		0130	307	0.	*	2		1155	432	0.

1	0445	58	871.	*	1	1510	183	0.	*	2	0135	308	0.	*	2	1200	433	0.
1	0450	59	898.	*	1	1515	184	0.	*	2	0140	309	0.	*	2	1205	434	0.
1	0455	60	912.	*	1	1520	185	0.	*	2	0145	310	0.	*	2	1210	435	0.
1	0500	61	855.	*	1	1525	186	0.	*	2	0150	311	0.	*	2	1215	436	0.
1	0505	62	749.	*	1	1530	187	0.	*	2	0155	312	0.	*	2	1220	437	0.
1	0510	63	621.	*	1	1535	188	0.	*	2	0200	313	0.	*	2	1225	438	0.
1	0515	64	495.	*	1	1540	189	0.	*	2	0205	314	0.	*	2	1230	439	0.
1	0520	65	387.	*	1	1545	190	0.	*	2	0210	315	0.	*	2	1235	440	0.
1	0525	66	304.	*	1	1550	191	0.	*	2	0215	316	0.	*	2	1240	441	0.
1	0530	67	244.	*	1	1555	192	0.	*	2	0220	317	0.	*	2	1245	442	0.
1	0535	68	193.	*	1	1600	193	0.	*	2	0225	318	0.	*	2	1250	443	0.
1	0540	69	153.	*	1	1605	194	0.	*	2	0230	319	0.	*	2	1255	444	0.
1	0545	70	129.	*	1	1610	195	0.	*	2	0235	320	0.	*	2	1300	445	0.
1	0550	71	117.	*	1	1615	196	0.	*	2	0240	321	0.	*	2	1305	446	0.
1	0555	72	104.	*	1	1620	197	0.	*	2	0245	322	0.	*	2	1310	447	0.
1	0600	73	92.	*	1	1625	198	0.	*	2	0250	323	0.	*	2	1315	448	0.
1	0605	74	80.	*	1	1630	199	0.	*	2	0255	324	0.	*	2	1320	449	0.
1	0610	75	67.	*	1	1635	200	0.	*	2	0300	325	0.	*	2	1325	450	0.
1	0615	76	52.	*	1	1640	201	0.	*	2	0305	326	0.	*	2	1330	451	0.
1	0620	77	39.	*	1	1645	202	0.	*	2	0310	327	0.	*	2	1335	452	0.
1	0625	78	28.	*	1	1650	203	0.	*	2	0315	328	0.	*	2	1340	453	0.
1	0630	79	19.	*	1	1655	204	0.	*	2	0320	329	0.	*	2	1345	454	0.
1	0635	80	13.	*	1	1700	205	0.	*	2	0325	330	0.	*	2	1350	455	0.
1	0640	81	9.	*	1	1705	206	0.	*	2	0330	331	0.	*	2	1355	456	0.
1	0645	82	6.	*	1	1710	207	0.	*	2	0335	332	0.	*	2	1400	457	0.
1	0650	83	4.	*	1	1715	208	0.	*	2	0340	333	0.	*	2	1405	458	0.
1	0655	84	2.	*	1	1720	209	0.	*	2	0345	334	0.	*	2	1410	459	0.
1	0700	85	2.	*	1	1725	210	0.	*	2	0350	335	0.	*	2	1415	460	0.
1	0705	86	1.	*	1	1730	211	0.	*	2	0355	336	0.	*	2	1420	461	0.
1	0710	87	1.	*	1	1735	212	0.	*	2	0400	337	0.	*	2	1425	462	0.
1	0715	88	0.	*	1	1740	213	0.	*	2	0405	338	0.	*	2	1430	463	0.
1	0720	89	0.	*	1	1745	214	0.	*	2	0410	339	0.	*	2	1435	464	0.
1	0725	90	0.	*	1	1750	215	0.	*	2	0415	340	0.	*	2	1440	465	0.
1	0730	91	0.	*	1	1755	216	0.	*	2	0420	341	0.	*	2	1445	466	0.
1	0735	92	0.	*	1	1800	217	0.	*	2	0425	342	0.	*	2	1450	467	0.
1	0740	93	0.	*	1	1805	218	0.	*	2	0430	343	0.	*	2	1455	468	0.
1	0745	94	0.	*	1	1810	219	0.	*	2	0435	344	0.	*	2	1500	469	0.
1	0750	95	0.	*	1	1815	220	0.	*	2	0440	345	0.	*	2	1505	470	0.
1	0755	96	0.	*	1	1820	221	0.	*	2	0445	346	0.	*	2	1510	471	0.
1	0800	97	0.	*	1	1825	222	0.	*	2	0450	347	0.	*	2	1515	472	0.
1	0805	98	0.	*	1	1830	223	0.	*	2	0455	348	0.	*	2	1520	473	0.
1	0810	99	0.	*	1	1835	224	0.	*	2	0500	349	0.	*	2	1525	474	0.
1	0815	100	0.	*	1	1840	225	0.	*	2	0505	350	0.	*	2	1530	475	0.
1	0820	101	0.	*	1	1845	226	0.	*	2	0510	351	0.	*	2	1535	476	0.
1	0825	102	0.	*	1	1850	227	0.	*	2	0515	352	0.	*	2	1540	477	0.
1	0830	103	0.	*	1	1855	228	0.	*	2	0520	353	0.	*	2	1545	478	0.
1	0835	104	0.	*	1	1900	229	0.	*	2	0525	354	0.	*	2	1550	479	0.
1	0840	105	0.	*	1	1905	230	0.	*	2	0530	355	0.	*	2	1555	480	0.
1	0845	106	0.	*	1	1910	231	0.	*	2	0535	356	0.	*	2	1600	481	0.
1	0850	107	0.	*	1	1915	232	0.	*	2	0540	357	0.	*	2	1605	482	0.
1	0855	108	0.	*	1	1920	233	0.	*	2	0545	358	0.	*	2	1610	483	0.
1	0900	109	0.	*	1	1925	234	0.	*	2	0550	359	0.	*	2	1615	484	0.
1	0905	110	0.	*	1	1930	235	0.	*	2	0555	360	0.	*	2	1620	485	0.
1	0910	111	0.	*	1	1935	236	0.	*	2	0600	361	0.	*	2	1625	486	0.
1	0915	112	0.	*	1	1940	237	0.	*	2	0605	362	0.	*	2	1630	487	0.
1	0920	113	0.	*	1	1945	238	0.	*	2	0610	363	0.	*	2	1635	488	0.
1	0925	114	0.	*	1	1950	239	0.	*	2	0615	364	0.	*	2	1640	489	0.
1	0930	115	0.	*	1	1955	240	0.	*	2	0620	365	0.	*	2	1645	490	0.
1	0935	116	0.	*	1	2000	241	0.	*	2	0625	366	0.	*	2	1650	491	0.
1	0940	117	0.	*	1	2005	242	0.	*	2	0630	367	0.	*	2	1655	492	0.
1	0945	118	0.	*	1	2010	243	0.	*	2	0635	368	0.	*	2	1700	493	0.
1	0950	119	0.	*	1	2015	244	0.	*	2	0640	369	0.	*	2	1705	494	0.
1	0955	120	0.	*	1	2020	245	0.	*	2	0645	370	0.	*	2	1710	495	0.
1	1000	121	0.	*	1	2025	246	0.	*	2	0650	371	0.	*	2	1715	496	0.
1	1005	122	0.	*	1	2030	247	0.	*	2	0655	372	0.	*	2	1720	497	0.
1	1010	123	0.	*	1	2035	248	0.	*	2	0700	373	0.	*	2	1725	498	0.
1	1015	124	0.	*	1	2040	249	0.	*	2	0705	374	0.	*	2	1730	499	0.
1	1020	125	0.	*	1	2045	250	0.	*	2	0710	375	0.	*	2	1735	500	0.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	41.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 3671.	3.67		591.	148.	85.	85.
		(INCHES)	1.660	1.663	1.663	1.663
		(AC-FT)	293.	294.	294.	294.

CUMULATIVE AREA = 3.31 SQ MI

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .92

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		1025	126	0.	1		2050	251	0.	2		0715	376	0.
1		0005	2	0.	1		1030	127	0.	1		2055	252	0.	2		0720	377	0.
1		0010	3	0.	1		1035	128	0.	1		2100	253	0.	2		0725	378	0.

1	0015	4	0.	*	1	1040	129	0.	*	1	2105	254	0.	*	2	0730	379	0.
1	0020	5	1.	*	1	1045	130	0.	*	1	2110	255	0.	*	2	0735	380	0.
1	0025	6	7.	*	1	1050	131	0.	*	1	2115	256	0.	*	2	0740	381	0.
1	0030	7	18.	*	1	1055	132	0.	*	1	2120	257	0.	*	2	0745	382	0.
1	0035	8	29.	*	1	1100	133	0.	*	1	2125	258	0.	*	2	0750	383	0.
1	0040	9	29.	*	1	1105	134	0.	*	1	2130	259	0.	*	2	0755	384	0.
1	0045	10	23.	*	1	1110	135	0.	*	1	2135	260	0.	*	2	0800	385	0.
1	0050	11	16.	*	1	1115	136	0.	*	1	2140	261	0.	*	2	0805	386	0.
1	0055	12	11.	*	1	1120	137	0.	*	1	2145	262	0.	*	2	0810	387	0.
1	0100	13	8.	*	1	1125	138	0.	*	1	2150	263	0.	*	2	0815	388	0.
1	0105	14	7.	*	1	1130	139	0.	*	1	2155	264	0.	*	2	0820	389	0.
1	0110	15	10.	*	1	1135	140	0.	*	1	2200	265	0.	*	2	0825	390	0.
1	0115	16	16.	*	1	1140	141	0.	*	1	2205	266	0.	*	2	0830	391	0.
1	0120	17	21.	*	1	1145	142	0.	*	1	2210	267	0.	*	2	0835	392	0.
1	0125	18	30.	*	1	1150	143	0.	*	1	2215	268	0.	*	2	0840	393	0.
1	0130	19	49.	*	1	1155	144	0.	*	1	2220	269	0.	*	2	0845	394	0.
1	0135	20	74.	*	1	1200	145	0.	*	1	2225	270	0.	*	2	0850	395	0.
1	0140	21	94.	*	1	1205	146	0.	*	1	2230	271	0.	*	2	0855	396	0.
1	0145	22	108.	*	1	1210	147	0.	*	1	2235	272	0.	*	2	0900	397	0.
1	0150	23	112.	*	1	1215	148	0.	*	1	2240	273	0.	*	2	0905	398	0.
1	0155	24	103.	*	1	1220	149	0.	*	1	2245	274	0.	*	2	0910	399	0.
1	0200	25	87.	*	1	1225	150	0.	*	1	2250	275	0.	*	2	0915	400	0.
1	0205	26	72.	*	1	1230	151	0.	*	1	2255	276	0.	*	2	0920	401	0.
1	0210	27	71.	*	1	1235	152	0.	*	1	2300	277	0.	*	2	0925	402	0.
1	0215	28	95.	*	1	1240	153	0.	*	1	2305	278	0.	*	2	0930	403	0.
1	0220	29	138.	*	1	1245	154	0.	*	1	2310	279	0.	*	2	0935	404	0.
1	0225	30	176.	*	1	1250	155	0.	*	1	2315	280	0.	*	2	0940	405	0.
1	0230	31	191.	*	1	1255	156	0.	*	1	2320	281	0.	*	2	0945	406	0.
1	0235	32	184.	*	1	1300	157	0.	*	1	2325	282	0.	*	2	0950	407	0.
1	0240	33	186.	*	1	1305	158	0.	*	1	2330	283	0.	*	2	0955	408	0.
1	0245	34	206.	*	1	1310	159	0.	*	1	2335	284	0.	*	2	1000	409	0.
1	0250	35	215.	*	1	1315	160	0.	*	1	2340	285	0.	*	2	1005	410	0.
1	0255	36	203.	*	1	1320	161	0.	*	1	2345	286	0.	*	2	1010	411	0.
1	0300	37	193.	*	1	1325	162	0.	*	1	2350	287	0.	*	2	1015	412	0.
1	0305	38	236.	*	1	1330	163	0.	*	1	2355	288	0.	*	2	1020	413	0.
1	0310	39	358.	*	1	1335	164	0.	*	2	0000	289	0.	*	2	1025	414	0.
1	0315	40	591.	*	1	1340	165	0.	*	2	0005	290	0.	*	2	1030	415	0.
1	0320	41	1062.	*	1	1345	166	0.	*	2	0010	291	0.	*	2	1035	416	0.
1	0325	42	1800.	*	1	1350	167	0.	*	2	0015	292	0.	*	2	1040	417	0.
1	0330	43	2729.	*	1	1355	168	0.	*	2	0020	293	0.	*	2	1045	418	0.
1	0335	44	3449.	*	1	1400	169	0.	*	2	0025	294	0.	*	2	1050	419	0.
1	0340	45	3591.	*	1	1405	170	0.	*	2	0030	295	0.	*	2	1055	420	0.
1	0345	46	3349.	*	1	1410	171	0.	*	2	0035	296	0.	*	2	1100	421	0.
1	0350	47	2876.	*	1	1415	172	0.	*	2	0040	297	0.	*	2	1105	422	0.
1	0355	48	2323.	*	1	1420	173	0.	*	2	0045	298	0.	*	2	1110	423	0.
1	0400	49	1869.	*	1	1425	174	0.	*	2	0050	299	0.	*	2	1115	424	0.
1	0405	50	1514.	*	1	1430	175	0.	*	2	0055	300	0.	*	2	1120	425	0.
1	0410	51	1199.	*	1	1435	176	0.	*	2	0100	301	0.	*	2	1125	426	0.
1	0415	52	944.	*	1	1440	177	0.	*	2	0105	302	0.	*	2	1130	427	0.
1	0420	53	770.	*	1	1445	178	0.	*	2	0110	303	0.	*	2	1135	428	0.
1	0425	54	675.	*	1	1450	179	0.	*	2	0115	304	0.	*	2	1140	429	0.
1	0430	55	677.	*	1	1455	180	0.	*	2	0120	305	0.	*	2	1145	430	0.
1	0435	56	759.	*	1	1500	181	0.	*	2	0125	306	0.	*	2	1150	431	0.
1	0440	57	829.	*	1	1505	182	0.	*	2	0130	307	0.	*	2	1155	432	0.
1	0445	58	856.	*	1	1510	183	0.	*	2	0135	308	0.	*	2	1200	433	0.
1	0450	59	882.	*	1	1515	184	0.	*	2	0140	309	0.	*	2	1205	434	0.
1	0455	60	896.	*	1	1520	185	0.	*	2	0145	310	0.	*	2	1210	435	0.
1	0500	61	840.	*	1	1525	186	0.	*	2	0150	311	0.	*	2	1215	436	0.
1	0505	62	736.	*	1	1530	187	0.	*	2	0155	312	0.	*	2	1220	437	0.
1	0510	63	610.	*	1	1535	188	0.	*	2	0200	313	0.	*	2	1225	438	0.
1	0515	64	487.	*	1	1540	189	0.	*	2	0205	314	0.	*	2	1230	439	0.
1	0520	65	381.	*	1	1545	190	0.	*	2	0210	315	0.	*	2	1235	440	0.
1	0525	66	299.	*	1	1550	191	0.	*	2	0215	316	0.	*	2	1240	441	0.
1	0530	67	240.	*	1	1555	192	0.	*	2	0220	317	0.	*	2	1245	442	0.
1	0535	68	190.	*	1	1600	193	0.	*	2	0225	318	0.	*	2	1250	443	0.
1	0540	69	151.	*	1	1605	194	0.	*	2	0230	319	0.	*	2	1255	444	0.
1	0545	70	127.	*	1	1610	195	0.	*	2	0235	320	0.	*	2	1300	445	0.
1	0550	71	115.	*	1	1615	196	0.	*	2	0240	321	0.	*	2	1305	446	0.
1	0555	72	102.	*	1	1620	197	0.	*	2	0245	322	0.	*	2	1310	447	0.
1	0600	73	90.	*	1	1625	198	0.	*	2	0250	323	0.	*	2	1315	448	0.
1	0605	74	79.	*	1	1630	199	0.	*	2	0255	324	0.	*	2	1320	449	0.
1	0610	75	65.	*	1	1635	200	0.	*	2	0300	325	0.	*	2	1325	450	0.
1	0615	76	51.	*	1	1640	201	0.	*	2	0305	326	0.	*	2	1330	451	0.
1	0620	77	38.	*	1	1645	202	0.	*	2	0310	327	0.	*	2	1335	452	0.
1	0625	78	27.	*	1	1650	203	0.	*	2	0315	328	0.	*	2	1340	453	0.
1	0630	79	19.	*	1	1655	204	0.	*	2	0320	329	0.	*	2	1345	454	0.
1	0635	80	13.	*	1	1700	205	0.	*	2	0325	330	0.	*	2	1350	455	0.
1	0640	81	8.	*	1	1705	206	0.	*	2	0330	331	0.	*	2	1355	456	0.
1	0645	82	6.	*	1	1710	207	0.	*	2	0335	332	0.	*	2	1400	457	0.
1	0650	83	4.	*	1	1715	208	0.	*	2	0340	333	0.	*	2	1405	458	0.
1	0655	84	2.	*	1	1720	209	0.	*	2	0345	334	0.	*	2	1410	459	0.
1	0700	85	2.	*	1	1725	210	0.	*	2	0350	335	0.	*	2	1415	460	0.
1	0705	86	1.	*	1	1730	211	0.	*	2	0355	336	0.	*	2	1420	461	0.
1	0710	87	1.	*	1	1735	212	0.	*	2	0400	337	0.	*	2	1425	462	0.
1	0715	88	0.	*	1	1740	213	0.	*	2	0405	338	0.	*	2	1430	463	0.
1	0720	89	0.	*	1	1745	214	0.	*	2	0410	339	0.	*	2	1435	464	0.
1	0725	90	0.	*	1	1750	215	0.	*	2	0415	340	0.	*	2	1440	465	0.
1	0730	91	0.	*	1	1755	216	0.	*	2	0420	341	0.	*	2	1445	466	0.
1	0735	92	0.	*	1	1800	217	0.	*	2	0425	342	0.	*	2	1450	467	0.
1	0740	93	0.	*	1	1805	218	0.	*	2	0430	343	0.	*	2	1455	468	0.
1	0745	94	0.	*	1	1810	219	0.	*	2	0435	344	0.	*	2	1500	469	0.
1	0750	95	0.	*	1	1815	220	0.	*	2	0440	345	0.	*	2	1505	470	0.
1	0755	96	0.	*	1	1820	221	0.	*	2	0445	346	0.	*	2	1510	471	0.
1	0800	97	0.	*	1	1825	222	0.	*	2	0450	347	0.	*	2	1515	472	0.
1	0805	98	0.	*	1	1830	223	0.	*	2	0455	348	0.	*	2	1520	473	0.

1	0810	99	0.	*	1	1835	224	0.	*	2	0500	349	0.	*	2	1525	474	0.
1	0815	100	0.	*	1	1840	225	0.	*	2	0505	350	0.	*	2	1530	475	0.
1	0820	101	0.	*	1	1845	226	0.	*	2	0510	351	0.	*	2	1535	476	0.
1	0825	102	0.	*	1	1850	227	0.	*	2	0515	352	0.	*	2	1540	477	0.
1	0830	103	0.	*	1	1855	228	0.	*	2	0520	353	0.	*	2	1545	478	0.
1	0835	104	0.	*	1	1900	229	0.	*	2	0525	354	0.	*	2	1550	479	0.
1	0840	105	0.	*	1	1905	230	0.	*	2	0530	355	0.	*	2	1555	480	0.
1	0845	106	0.	*	1	1910	231	0.	*	2	0535	356	0.	*	2	1600	481	0.
1	0850	107	0.	*	1	1915	232	0.	*	2	0540	357	0.	*	2	1605	482	0.
1	0855	108	0.	*	1	1920	233	0.	*	2	0545	358	0.	*	2	1610	483	0.
1	0900	109	0.	*	1	1925	234	0.	*	2	0550	359	0.	*	2	1615	484	0.
1	0905	110	0.	*	1	1930	235	0.	*	2	0555	360	0.	*	2	1620	485	0.
1	0910	111	0.	*	1	1935	236	0.	*	2	0600	361	0.	*	2	1625	486	0.
1	0915	112	0.	*	1	1940	237	0.	*	2	0605	362	0.	*	2	1630	487	0.
1	0920	113	0.	*	1	1945	238	0.	*	2	0610	363	0.	*	2	1635	488	0.
1	0925	114	0.	*	1	1950	239	0.	*	2	0615	364	0.	*	2	1640	489	0.
1	0930	115	0.	*	1	1955	240	0.	*	2	0620	365	0.	*	2	1645	490	0.
1	0935	116	0.	*	1	2000	241	0.	*	2	0625	366	0.	*	2	1650	491	0.
1	0940	117	0.	*	1	2005	242	0.	*	2	0630	367	0.	*	2	1655	492	0.
1	0945	118	0.	*	1	2010	243	0.	*	2	0635	368	0.	*	2	1700	493	0.
1	0950	119	0.	*	1	2015	244	0.	*	2	0640	369	0.	*	2	1705	494	0.
1	0955	120	0.	*	1	2020	245	0.	*	2	0645	370	0.	*	2	1710	495	0.
1	1000	121	0.	*	1	2025	246	0.	*	2	0650	371	0.	*	2	1715	496	0.
1	1005	122	0.	*	1	2030	247	0.	*	2	0655	372	0.	*	2	1720	497	0.
1	1010	123	0.	*	1	2035	248	0.	*	2	0700	373	0.	*	2	1725	498	0.
1	1015	124	0.	*	1	2040	249	0.	*	2	0705	374	0.	*	2	1730	499	0.
1	1020	125	0.	*	1	2045	250	0.	*	2	0710	375	0.	*	2	1735	500	0.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	41.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 3591.	3.67		578.	145.	84.	84.
		(INCHES)	1.624	1.627	1.627	1.627
		(AC-FT)	287.	287.	287.	287.

CUMULATIVE AREA = 3.31 SQ MI

*** ***

```
            **************
            *            *
261 KK      *   LMBWCDB  *
            *            *
            **************
```

265 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

266 RS STORAGE ROUTING
NSTPS 1 NUMBER OF SUBREACHES
ITYP STOR TYPE OF INITIAL CONDITION
RSVRIC -1.00 INITIAL CONDITION
X .00 WORKING R AND D COEFFICIENT

267 SV	STORAGE	.0	15.0	37.0	90.0	170.0	298.0	416.0	556.0	654.0
268 SQ	DISCHARGE	0.	21.	30.	37.	42.	46.	90.	97.	101.
269 SE	ELEVATION	.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00	38.00

***

HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = 1.00

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		1355	168	46.	284.4	24.5	2		0350	335	44.	232.9	22.5
1		0005	2	0.	.0	.0	1		1400	169	46.	284.1	24.5	2		0355	336	44.	232.6	22.4
1		0010	3	0.	.0	.0	1		1405	170	46.	283.8	24.4	2		0400	337	44.	232.3	22.4
1		0015	4	0.	.0	.0	1		1410	171	46.	283.4	24.4	2		0405	338	44.	232.0	22.4
1		0020	5	0.	.0	.0	1		1415	172	46.	283.1	24.4	2		0410	339	44.	231.7	22.4
1		0025	6	0.	.1	.0	1		1420	173	46.	282.8	24.4	2		0415	340	44.	231.4	22.4
1		0030	7	0.	.2	.1	1		1425	174	46.	282.5	24.4	2		0420	341	44.	231.1	22.4
1		0035	8	1.	.4	.1	1		1430	175	46.	282.2	24.4	2		0425	342	44.	230.8	22.4
1		0040	9	1.	.7	.2	1		1435	176	45.	281.9	24.4	2		0430	343	44.	230.5	22.4
1		0045	10	1.	1.0	.3	1		1440	177	45.	281.6	24.4	2		0435	344	44.	230.2	22.4
1		0050	11	2.	1.2	.4	1		1445	178	45.	281.3	24.3	2		0440	345	44.	229.9	22.3
1		0055	12	2.	1.3	.4	1		1450	179	45.	280.9	24.3	2		0445	346	44.	229.6	22.3
1		0100	13	2.	1.4	.5	1		1455	180	45.	280.6	24.3	2		0450	347	44.	229.3	22.3

| | | |

gcw1117.dwg,020912.rln

74/2=37 CFS

13 CFS

24 CFS

STA 12+17.62 SH R
INV 2748.50

4 CFS

SAG GRATED INLET

9 CFS

40' DEPRESSED CURB

10'W CONCRETE FLUME 24 CFS
(ANALYSIS ASSUMES ALL 37 CFS)

6%

13+00

12+00

11+00

10+00

434 LF ~ 36" RCP

10'W FLUME WITH GROUTED RIPRAP

STA 12+17.62 R
INV 2748.50

4:1

24 CFS

10' WIDE CONCRETE SPILLWAY WEIR

82.83 LF ~ 8'x8' RCB @ 0.50%

SO STA 9+70.00
INV 2699.85

STA 10+00.00 TS
INV 2700.00

30' LONG RIPRAP PAD

NORTH

GRAPHIC SCALE

40 0 20 40

(IN FEET)

1 inch = 40 ft.

STA 10+00.00
INV 2743.00 (WSPG CARD)

FLOW DIRECTION

G.C. WALLACE, INC.
Engineers/Planners/Surveyors
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146
TELEPHONE: (702) 804-2000 • FAX: (702) 804-2299

WESTERN SEGMENT OF THE LAS VEGAS BELTWAY

CRAIG ROAD TO HUALAPAI WAY

WSPG EXHIBIT - LONDIBS.WSP
LONE MOUNTAIN COLLECTOR

SHEET
FIG 27
OF SHTS

06-30-04 10:03:41 F:\451-002\Drainage\fig\FIG-27.dwg
rlee

LOND1BS

```
0
T1 WESTERN BELTWAY #451-002
T2 LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (SOUTH HALF STREET)
T3 96 CFS TOTAL - 48 CFS PER LEG - LOND1BS.WSP
SO    970.002699.85  2                          2700.38
TS   1000.002700.00  1      .025
R    1217.622748.50  1      .037
R    1417.622761.10  1      .013                          80.00
SH   1417.622761.10  1
CD   1  2              3.00   10.00
CD   2  1              2.00   32.00 3.00 3.00
```

0
Q 37.0

DATE: 6/30/2004
TIME: 7:33

F0515P
WATER SURFACE PROFILE - CHANNEL DEFINITION LISTING

CARD CODE	SECT NO	CHN TYPE	NO OF PIERS	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	1	2	0	0.00	3.00	10.00			0.00										
CD	2	1	0	0.00	2.00	32.00	3.00	3.00	0.00										

F 0 5 1 5 P

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

WESTERN BELTWAY #451-002

HEADING LINE NO 2 IS -

LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (SOUTH HALF STREET)

HEADING LINE NO 3 IS -

74 CFS TOTAL - 37 CFS PER LEG - LOND1BS.WSP

F 0 5 1 5 P

WATER SURFACE PROFILE - ELEMENT CARD LISTING

ELEMENT NO 1 IS A SYSTEM OUTLET * * *

U/S DATA	STATION	INVERT	SECT	W S ELEV
	970.00	2699.85	2	2700.38

ELEMENT NO 2 IS A TRANSITION * * *

U/S DATA	STATION	INVERT	SECT	N
	1000.00	2700.00	1	0.025

ELEMENT NO 3 IS A REACH * * *

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MANH
	1217.62	2748.50	1	0.037	0.00	0.00	0.00	0

ELEMENT NO 4 IS A REACH * * *

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MANH
	1417.62	2761.10	1	0.013	80.00	0.00	0.00	0

ELEMENT NO 5 IS A SYSTEM HEADWORKS * *

U/S DATA	STATION	INVERT	SECT	W S ELEV
	1417.62	2761.10	1	0.00

NO EDIT ERRORS ENCOUNTERED-COMPUTATION IS NOW BEGINNING
** WARNING NO. 2 ** - WATER SURFACE ELEVATION GIVEN IS LESS THAN OR EQUALS INVERT ELEVATION IN HDWKDS, W.S.ELEV = INV + DC
LICENSEE: G.C. WALLACE, INCORPORATED F0515P

WATER SURFACE PROFILE LISTING

WESTERN BELTWAY #451-002

LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (SOUTH HALF STREET)

74 CFS TOTAL - 37 CFS PER LEG - LOND1BS.WSP

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH	HGT/ DIA	BASE/ ID NO.	ZL	NO PIER AVBPR
L/ELEM	SO					SF AVE	HF		NORM DEPTH			ZR	
970.00	2699.85	0.530	2700.380	37.0	2.08	0.067	2700.447	0.00	0.343	2.00	32.00	3.00	0 0.00
TRANS STR	0.00500											3.00	
1000.00	2700.00	0.386	2700.386	37.0	9.59	1.427	2701.813	0.00	0.752	3.00	10.00	0.00	0 0.00
202.61	0.22287					.223807	45.35		0.386			0.00	
1202.61	2745.15	0.386	2745.540	37.0	9.59	1.427	2746.967	0.00	0.752	3.00	10.00	0.00	0 0.00
5.71	0.22287					.228913	1.31		0.386			0.00	
1208.32	2746.43	0.381	2746.809	37.0	9.72	1.467	2748.276	0.00	0.752	3.00	10.00	0.00	0 0.00
4.20	0.22287					.253563	1.06		0.386			0.00	

1212.52	2747.36	0.363	2747.727	37.0	10.19	1.613	2749.340	0.00	0.752		3.00	10.00	0.00	0
0.00														
1.98	0.22287					.295944	0.59			0.386			0.00	
1214.50	2747.80	0.346	2748.151	37.0	10.69	1.775	2749.926	0.00	0.752		3.00	10.00	0.00	0
0.00														
1.32	0.22287					.345471	0.46			0.386			0.00	
1215.82	2748.10	0.330	2748.428	37.0	11.21	1.952	2750.380	0.00	0.752		3.00	10.00	0.00	0
0.00														
0.99	0.22287					.403361	0.40			0.386			0.00	
1216.81	2748.32	0.315	2748.635	37.0	11.76	2.148	2750.783	0.00	0.752		3.00	10.00	0.00	0
0.00														
0.81	0.22287					.471032	0.38			0.386			0.00	
1217.62	2748.50	0.300	2748.800	37.0	12.33	2.362	2751.162	0.59	0.752		3.00	10.00	0.00	0
0.00														
96.24	0.06300					.062650	6.03			0.300			0.00	
1313.86	2754.56	0.300	2754.863	37.0	12.33	2.362	2757.225	0.59	0.752		3.00	10.00	0.00	0
0.00														
33.90	0.06300					.061432	2.08			0.300			0.00	
1347.76	2756.70	0.304	2757.003	37.0	12.18	2.305	2759.308	0.58	0.752		3.00	10.00	0.00	0
0.00														
27.38	0.06300					.055888	1.53			0.300			0.00	

WATER SURFACE PROFILE LISTING

WESTERN BELTWAY #451-002

LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (SOUTH HALF STREET)

74 CFS TOTAL - 37 CFS PER LEG - LOND1BS.WSP

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q.	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH		HGT/ DIA	BASE/ ID NO.	ZL	NO PIER
AVBPR														
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR	
1375.14	2758.42	0.318	2758.741	37.0	11.62	2.096	2760.837	0.52	0.752		3.00	10.00	0.00	0
0.00														
11.55	0.06300					.047861	0.55			0.300			0.00	
1386.69	2759.15	0.334	2759.486	37.0	11.08	1.906	2761.392	0.48	0.752		3.00	10.00	0.00	0
0.00														
7.13	0.06300					.040994	0.29			0.300			0.00	
1393.82	2759.60	0.350	2759.951	37.0	10.56	1.732	2761.683	0.43	0.752		3.00	10.00	0.00	0
0.00														
5.04	0.06300					.035118	0.18			0.300			0.00	
1398.86	2759.92	0.367	2760.285	37.0	10.07	1.575	2761.860	0.39	0.752		3.00	10.00	0.00	0
0.00														
3.80	0.06300					.030090	0.11			0.300			0.00	
1402.66	2760.16	0.385	2760.542	37.0	9.60	1.431	2761.973	0.36	0.752		3.00	10.00	0.00	0
0.00														
2.99	0.06300					.025788	0.08			0.300			0.00	
1405.65	2760.35	0.404	2760.750	37.0	9.15	1.301	2762.051	0.33	0.752		3.00	10.00	0.00	0
0.00														
2.41	0.06300					.022105	0.05			0.300			0.00	
1408.06	2760.50	0.424	2760.922	37.0	8.73	1.183	2762.105	0.30	0.752		3.00	10.00	0.00	0
0.00														
1.97	0.06300					.018952	0.04			0.300			0.00	

```
  1410.03  2760.62    0.445  2761.067      37.0    8.32     1.075  2762.142   0.27    0.752              3.00   10.00   0.00    0
0.00

     1.63  0.06300                                          .016252     0.03                  0.300                      0.00

  1411.66  2760.72    0.466  2761.190      37.0    7.93     0.978  2762.168   0.24    0.752              3.00   10.00   0.00    0
0.00

     1.35  0.06300                                          .013940     0.02                  0.300                      0.00

  1413.01  2760.81    0.489  2761.298      37.0    7.56     0.889  2762.187   0.22    0.752              3.00   10.00   0.00    0
0.00

     1.11  0.06300                                          .011960     0.01                  0.300                      0.00

  1414.12  2760.88    0.513  2761.393      37.0    7.21     0.808  2762.201   0.20    0.752              3.00   10.00   0.00    0
0.00

     0.92  0.06300                                          .010264     0.01                  0.300                      0.00
```


WATER SURFACE PROFILE LISTING

WESTERN BELTWAY #451-002

LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (SOUTH HALF STREET)

74 CFS TOTAL - 37 CFS PER LEG - LOND1BS.WSP

```
 STATION     INVERT   DEPTH     W.S.        Q      VEL      VEL      ENERGY   SUPER  CRITICAL          HGT/   BASE/    ZL    NO
AVBPR
              ELEV   OF FLOW    ELEV                         HEAD     GRD.EL.  ELEV   DEPTH             DIA    ID NO.         PIER

 L/ELEM       SO                                          SF AVE     HF                  NORM DEPTH                 ZR
**********************************************************************************************************************************
*
  1415.04  2760.94    0.538  2761.475      37.0    6.88     0.734  2762.209   0.18    0.752              3.00   10.00   0.00    0
0.00

     0.75  0.06300                                          .008810     0.01                  0.300                      0.00

  1415.79  2760.99    0.564  2761.549      37.0    6.56     0.668  2762.217   0.17    0.752              3.00   10.00   0.00    0
0.00

     0.60  0.06300                                          .007565     0.00                  0.300                      0.00

  1416.39  2761.02    0.592  2761.614      37.0    6.25     0.607  2762.221   0.15    0.752              3.00   10.00   0.00    0
0.00

     0.46  0.06300                                          .006497     0.00                  0.300                      0.00

  1416.85  2761.05    0.621  2761.673      37.0    5.96     0.552  2762.225   0.14    0.752              3.00   10.00   0.00    0
0.00

     0.35  0.06300                                          .005582     0.00                  0.300                      0.00

  1417.20  2761.07    0.651  2761.724      37.0    5.68     0.502  2762.226   0.13    0.752              3.00   10.00   0.00    0
0.00

     0.24  0.06300                                          .004797     0.00                  0.300                      0.00

  1417.44  2761.09    0.683  2761.771      37.0    5.42     0.456  2762.227   0.11    0.752              3.00   10.00   0.00    0
0.00

     0.13  0.06300                                          .004124     0.00                  0.300                      0.00

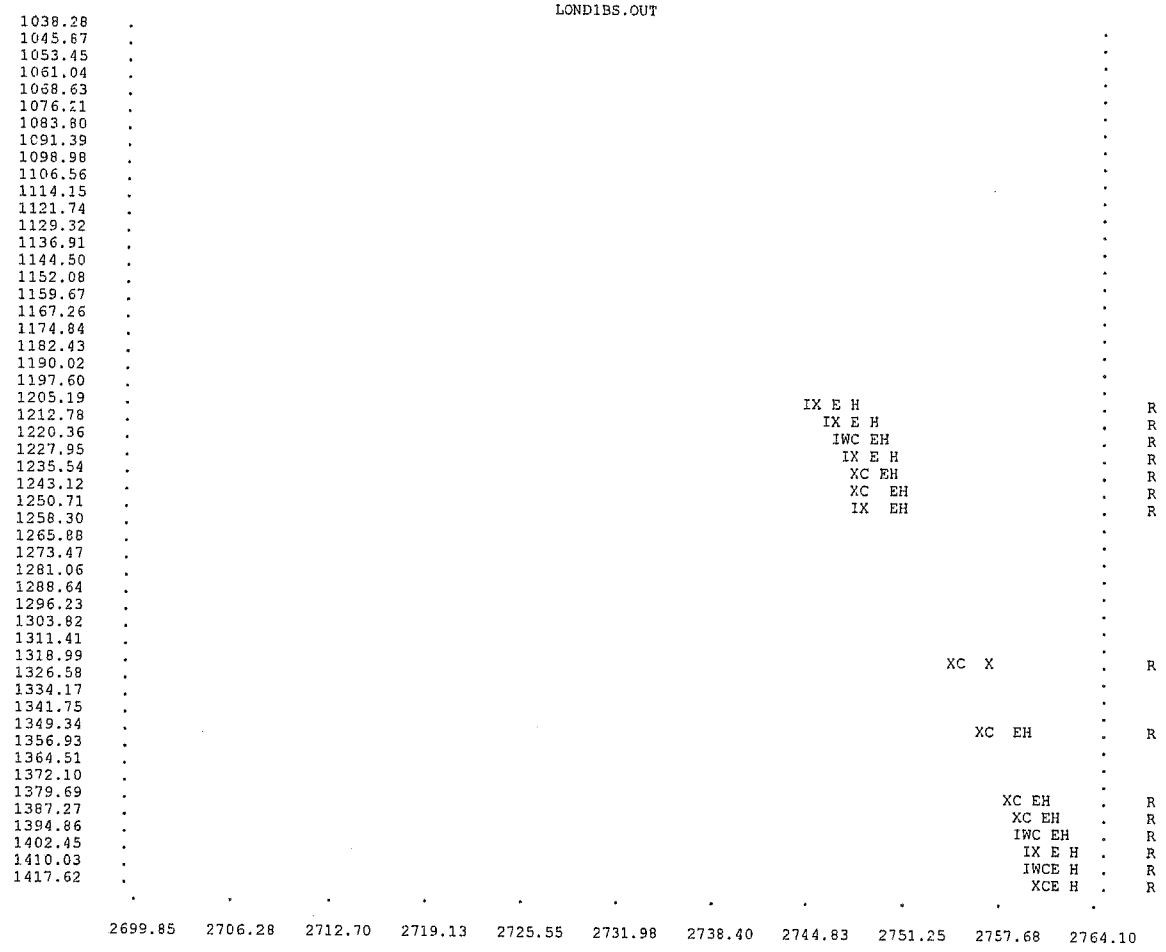
  1417.57  2761.10    0.716  2761.813      37.0    5.17     0.415  2762.228   0.10    0.752              3.00   10.00   0.00    0
0.00

     0.05  0.06300                                          .003540     0.00                  0.300                      0.00

  1417.62  2761.10    0.752  2761.852      37.0    4.92     0.376  2762.228   0.09    0.752              3.00   10.00   0.00    0
0.00
```

WESTERN BELTWAY #451-002
LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (SOUTH HALF STREET)
74 CFS TOTAL - 37 CFS PER LEG - LOND1BS.WSP

```
    970.00    .X  H                                                                                                    .    TX
    977.59    .                                                                                                        .
    985.17    .                                                                                                        .
    992.76    .                                                                                                        .
   1000.35    .XC EH                                                                                                   .    R
   1007.93    .                                                                                                        .
   1015.52    .                                                                                                        .
   1023.11    .                                                                                                        .
   1030.69    .                                                                                                        .
```



N O T E S
1. GLOSSARY
   I = INVERT ELEVATION
   C = CRITICAL DEPTH
   W = WATER SURFACE ELEVATION
   H = HEIGHT OF CHANNEL
   E = ENERGY GRADE LINE
   X = CURVES CROSSING OVER
   B = BRIDGE ENTRANCE OR EXIT
   Y = WALL ENTRANCE OR EXIT
2. STATIONS FOR POINTS AT A JUMP MAY NOT BE PLOTTED EXACTLY□

WESTERN SEGMENT OF THE LAS VEGAS BELTWAY
CRAIG ROAD TO HUALAPAI WAY
FACILITIES COST ESTIMATE ALTERNATIVE 1

FACILITY #	SHEET #	FACILITY DESCRIPTION	QUANTITY	UNIT	COST	TOTAL
2A	SD-1	(2) 110' DEPRESSED CURB	220	LF	$265.00	$58,300.00
2B	SD-1	6'X4' RCB	205	LF	$180.00	$36,900.00
2C	SD-1	6'X4' RCB TRANSITION TO 20'X4' RCB	1	LS	$1,950.00	$1,950.00
2D	SD-1	20'X4' RCB	20	LF	$800.00	$16,000.00
2E	SD-1	20' WIDE CONCRETE CHANNEL	15	CY	$70.00	$1,037.04
2F	SD-1	20' TRANSITION TO 10' STEPPED SPILLWAY	14	CY	$70.00	$969.63
2G	SD-1	10' WIDE STEPPED SPILLWAY	148	CY	$70.00	$10,344.45
2H	SD-1	IMPACT BASIN/DROP STRUCTURE	1	LS	$48,000.00	$48,000.00
2I	SD-1	66" RCP STORM DRAIN	481	LF	$160.00	$76,960.00
2J	SD-1	12'X4' RCB	38	LF	$650.00	$24,700.00
						$275,161.11
8A	SD-2, 3	40' DEPRESSED CURB	40	LF	$150.00	$6,000.00
8C	SD-2, 3	3' GRATED INLET	1	LS	$2,500.00	$2,500.00
8E	SD-2, 3	10' WIDE FLUME	120	LF	$120.00	$14,400.00
8F	SD-2	10' FLUME WITH GROUTED RIP RAP	160	LF	$120.00	$19,200.00
8G	SD-2	CONCRETE PAD	225	LF	$7.50	$1,687.50
						$43,787.50
9A	SD-2, 3	40' DEPRESSED CURB	40	LF	$150.00	$6,000.00
9C	SD-2, 3	3' GRATED INLET	1	LS	$2,500.00	$2,500.00
9E	SD-2, 3	10' WIDE FLUME	200	LF	$120.00	$24,000.00
9F	SD-2, 3	10' FLUME WITH GROUTED RIP RAP	200	LF	$120.00	$24,000.00
9G	SD-2, 3	CONCRETE PAD	225	LF	$7.50	$1,687.50
						$58,187.50
					TOTAL	$377,136.11

Storm Drain Facilities Option 2

Lone Mountain Hydraulic files:
Option 2

LONU2A.prj	Upstream Collector – Side weir calculations – 150' side weir Design incoming flow = 224 cfs per half street. Intercepted flow = 215 cfs per half street Bypassing flow = 9 cfs per half street Note: side weir collectors and downstream facilities conservatively assume no bypassing and 224 cfs is collected in side weir.
LONU2B.WSP	Upstream Collector – Lone Mountain 6'x4' RCB side weir collectors to spillway. Design flow = 564 cfs (215 cfs side weir + 215 cfs side weir + 134 cfs storm drain = 564 cfs)
LONU2D.WSP	Upstream Collector – 72" RCP and 12'x 4' RCB with baffles Design flow = 564 cfs

NORTH

GRAPHIC SCALE

0 30 60

(IN FEET)

1 inch = 60 ft.

G.C. WALLACE, INC.

Engineers/Planners/Surveyors

1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146

TELEPHONE: (702) 804-2000 • FAX: (702) 804-2299

F:\451-002\Drainage\Fig\PRE-27option2.dwg

bhunter

DESIGN:
DRAWN:
CHECK:
ISSUE DATE:
ISSUE EDITOR:
PLOT DATE: 07-26-04
PLOT TIME: 14:33:58

REV	DATE	DESCRIPTION	DATE	AGEN. APP	DATE	BCOW. APP.	DATE

WESTERN SEGMENT OF THE LAS VEGAS BELTWAY

CRAIG ROAD TO HUALAPAI WAY

LONE MOUNTAIN COLLECTOR-ALT. 2

DRAWING

FIG A2

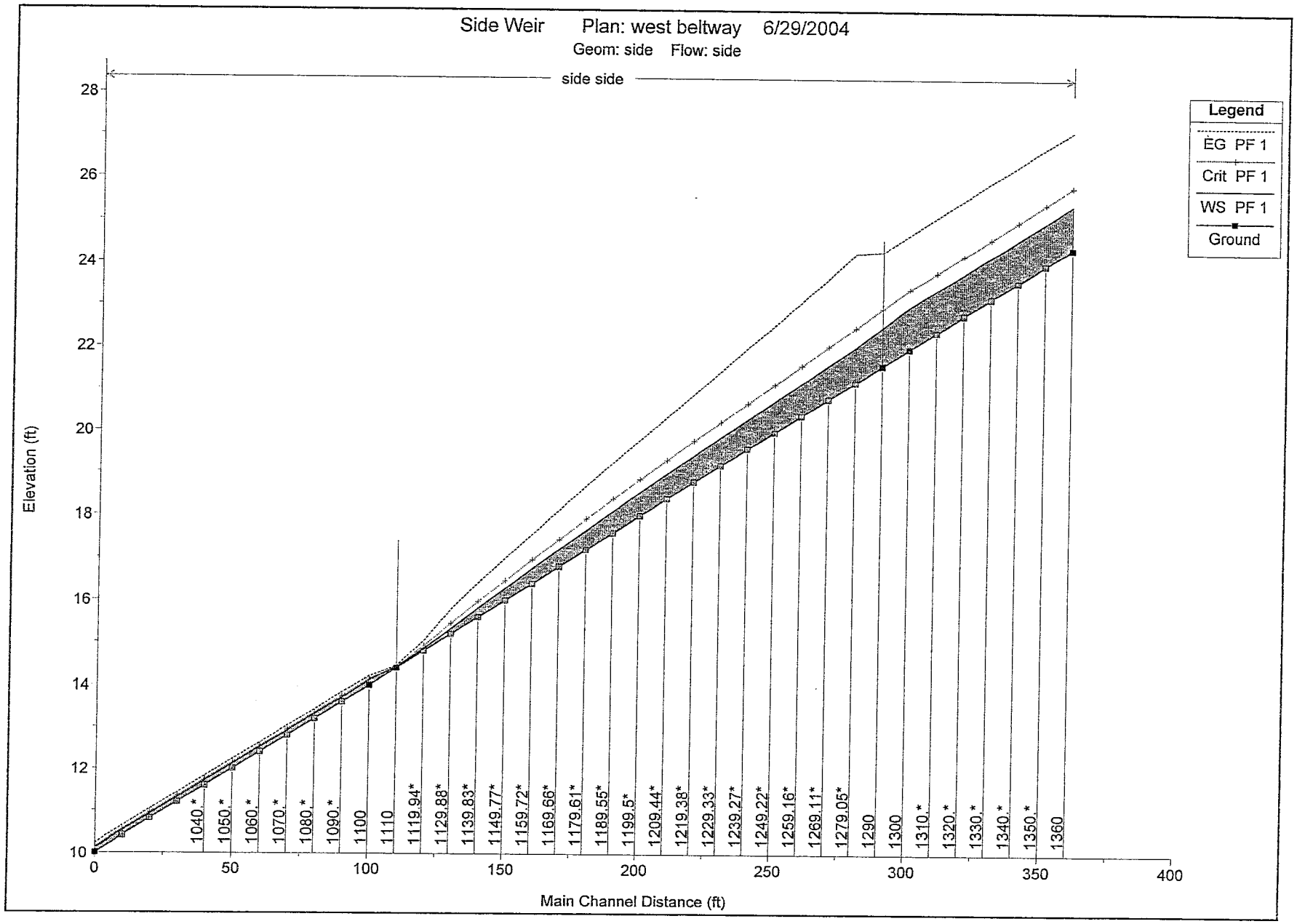
1 OF SHTS

LONU2A.prj
150' SIDE WEIR

HEC-RAS Plan: west beltway River: side Reach: side Profile: PF 1

Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
side	1360	PF 1	224.00	24.40	25.40	1.00	25.82	27.13	0.040027	10.56	21.22	48.60	2.82
side	1350.*	PF 1	224.00	24.00	25.00	1.00	25.42	26.73	0.039854	10.54	21.25	48.63	2.81
side	1340.*	PF 1	224.00	23.60	24.60	1.00	25.02	26.32	0.039705	10.52	21.28	48.66	2.80
side	1330.*	PF 1	224.00	23.20	24.20	1.00	24.62	25.93	0.040032	10.56	21.22	48.60	2.82
side	1320.*	PF 1	224.00	22.80	23.80	1.00	24.22	25.52	0.039704	10.52	21.28	48.66	2.80
side	1310.*	PF 1	224.00	22.40	23.40	1.00	23.82	25.13	0.040065	10.56	21.21	48.59	2.82
side	1300	PF 1	224.00	22.00	23.00	1.00	23.42	24.73	0.039776	10.53	21.27	48.65	2.81
side	1290	PF 1	224.00	21.60	22.53	0.93	22.96	24.33	0.038718	10.78	20.79	44.93	2.79
side	1289		Lat Struct										
side	1279.05*	PF 1	202.21	21.20	22.04	0.84	22.51	24.28	0.055216	12.02	16.82	40.28	3.28
side	1269.11*	PF 1	182.21	20.80	21.61	0.81	22.05	23.69	0.053560	11.58	15.73	38.89	3.21
side	1259.16*	PF 1	162.94	20.40	21.18	0.78	21.60	23.12	0.052463	11.19	14.57	37.37	3.16
side	1249.22*	PF 1	144.51	20.00	20.74	0.74	21.15	22.57	0.052007	10.83	13.34	35.69	3.12
side	1239.27*	PF 1	127.00	19.60	20.31	0.71	20.69	22.02	0.052027	10.50	12.10	33.90	3.10
side	1229.33*	PF 1	110.42	19.20	19.87	0.67	20.24	21.47	0.051702	10.13	10.90	32.09	3.06
side	1219.38*	PF 1	94.83	18.80	19.43	0.63	19.79	20.91	0.051587	9.76	9.72	30.19	3.03
side	1209.44*	PF 1	80.26	18.40	18.99	0.59	19.32	20.36	0.051794	9.40	8.54	28.18	3.01
side	1199.5*	PF 1	66.73	18.00	18.55	0.55	18.86	19.81	0.052139	9.02	7.40	26.07	2.98
side	1189.55*	PF 1	54.27	17.60	18.11	0.51	18.39	19.27	0.052785	8.64	6.28	23.83	2.97
side	1179.61*	PF 1	42.88	17.20	17.66	0.46	17.92	18.70	0.052892	8.19	5.23	21.52	2.93
side	1169.66*	PF 1	32.62	16.80	17.21	0.41	17.44	18.14	0.053319	7.73	4.22	19.01	2.89
side	1159.72*	PF 1	23.56	16.40	16.76	0.36	16.96	17.57	0.053866	7.25	3.25	16.27	2.86
side	1149.77*	PF 1	15.75	16.00	16.29	0.29	16.47	17.00	0.054502	6.73	2.34	13.18	2.82
side	1139.83*	PF 1	9.26	15.60	15.82	0.22	15.98	16.42	0.054657	6.23	1.49	9.40	2.76
side	1129.88*	PF 1	4.28	15.20	15.33	0.13	15.45	15.79	0.066285	5.49	0.78	6.94	2.89
side	1119.94*	PF 1	1.14	14.80	14.86	0.06	14.92	15.04	0.068874	3.45	0.33	6.16	2.62
side	1110	PF 1	0.22	14.40	14.43	0.03	14.43	14.46	0.021212	1.29	0.17	5.85	1.32
side	1100	PF 1	0.22	14.00	14.13	0.13	14.15	14.21	0.027282	2.33	0.10	1.49	1.62
side	1090.*	PF 1	0.22	13.60	13.72	0.12	13.75	13.85	0.049575	2.91	0.08	1.33	2.14
side	1080.*	PF 1	0.22	13.20	13.32	0.12	13.35	13.42	0.034591	2.55	0.09	1.42	1.81
side	1070.*	PF 1	0.22	12.80	12.92	0.12	12.95	13.04	0.043262	2.77	0.08	1.37	2.01
side	1060.*	PF 1	0.22	12.40	12.52	0.12	12.55	12.63	0.037452	2.62	0.09	1.40	1.87
side	1050.*	PF 1	0.22	12.00	12.12	0.12	12.15	12.23	0.041567	2.73	0.08	1.38	1.97
side	1040.*	PF 1	0.22	11.60	11.72	0.12	11.75	11.83	0.039353	2.67	0.08	1.39	1.92
side	1030.*	PF 1	0.22	11.20	11.32	0.12	11.35	11.43	0.039354	2.67	0.08	1.39	1.92
side	1020.*	PF 1	0.22	10.80	10.92	0.12	10.95	11.03	0.039982	2.69	0.08	1.39	1.93
side	1010.*	PF 1	0.22	10.40	10.52	0.12	10.55	10.63	0.040183	2.69	0.08	1.39	1.94
side	1000	PF 1	0.22	10.00	10.12	0.12	10.15	10.23	0.040183	2.69	0.08	1.39	1.94

150' DEPRESSION


Side Weir
Plan: west beltway 6/29/2004
Geom: side Flow: side
side side
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Elevation (ft)
Main Channel Distance (ft)
10
12
14
16
18
20
22
24
26
28
0
50
100
150
200
250
300
350
400
1040 *
1050 *
1060 *
1070 *
1080 *
1090 *
1100
1110
1119.94*
1129.88*
1139.83*
1149.77*
1159.72*
1169.66*
1179.61*
1189.55*
1199.5*
1209.44*
1219.38*
1229.33*
1239.27*
1249.22*
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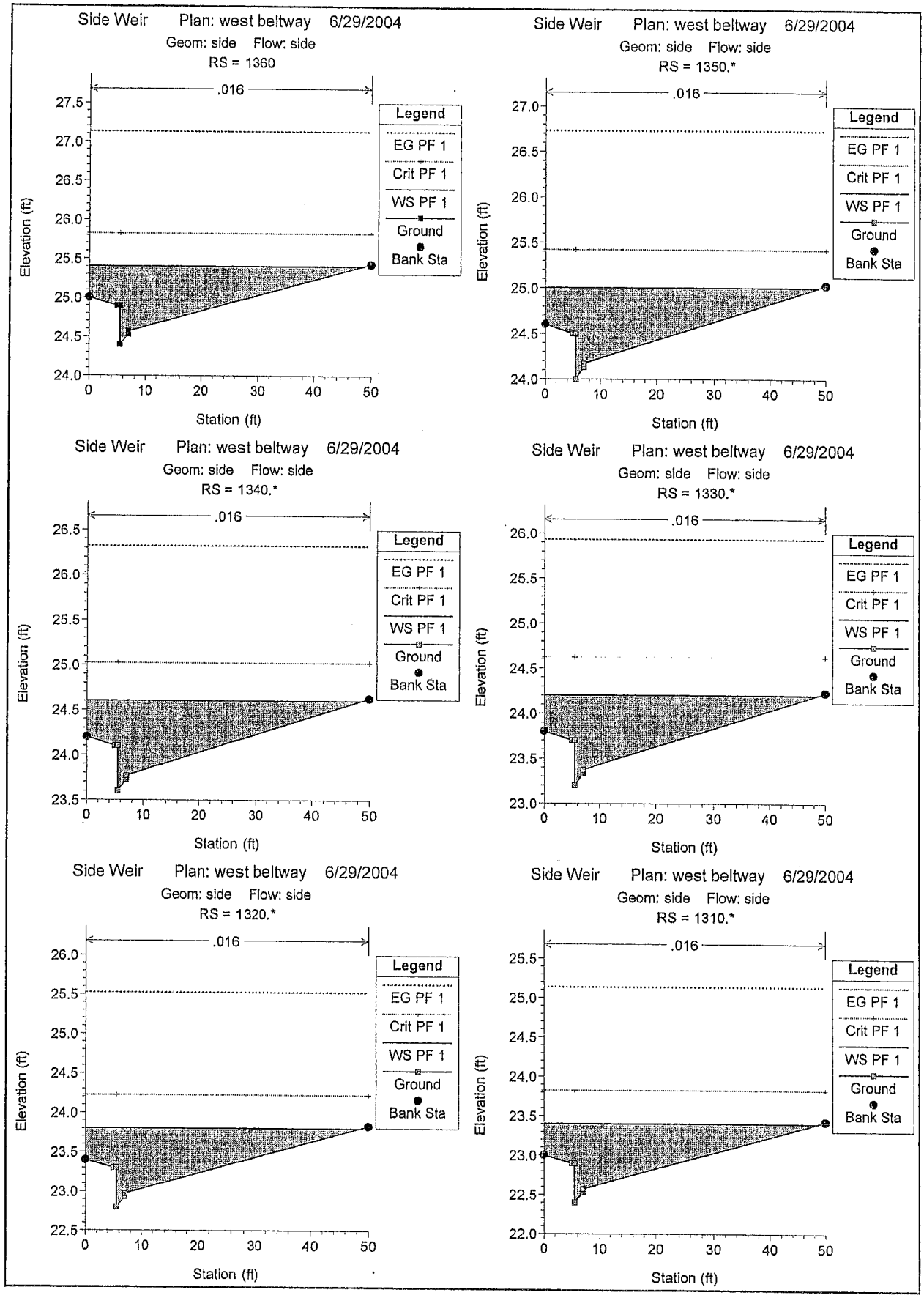
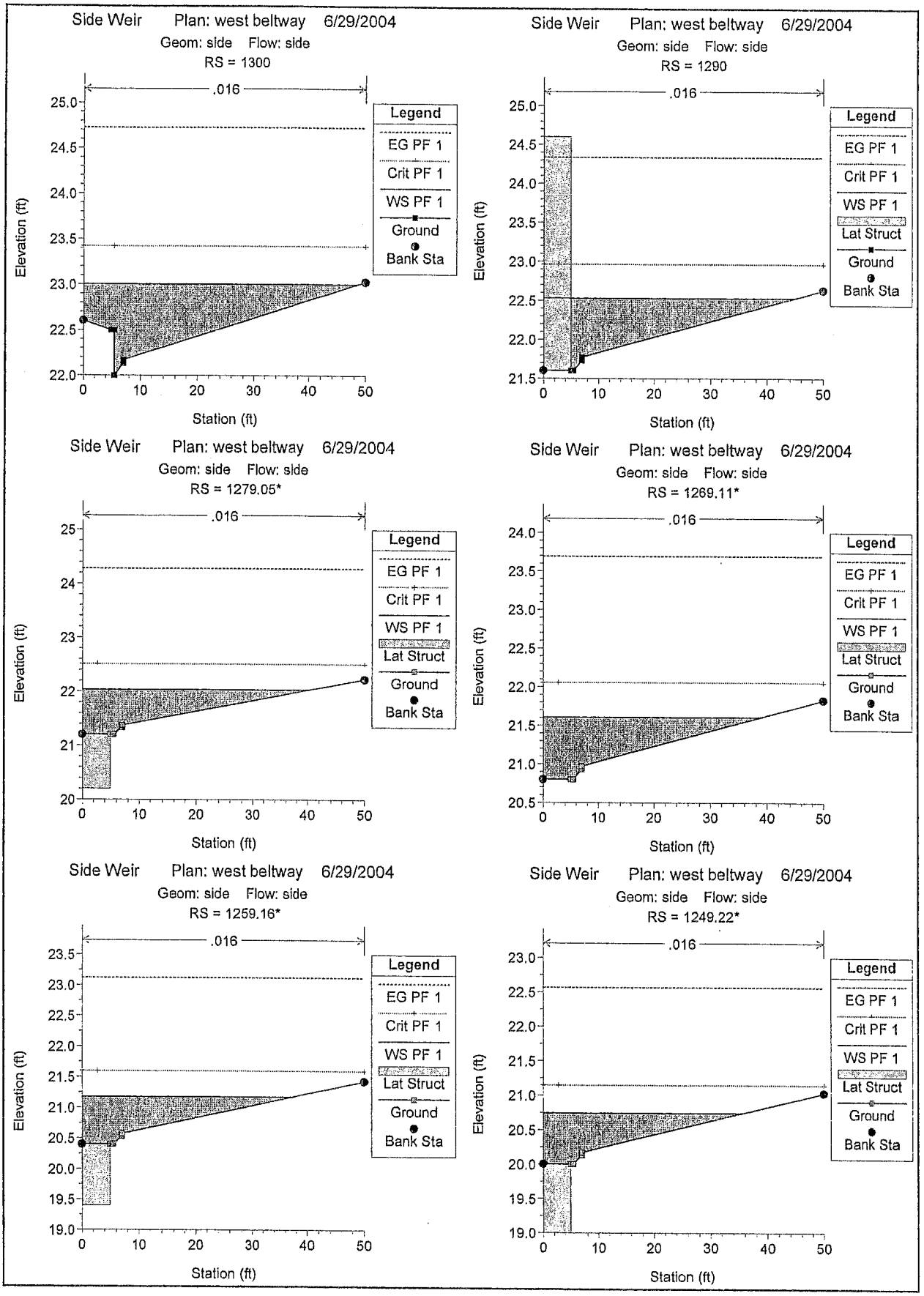
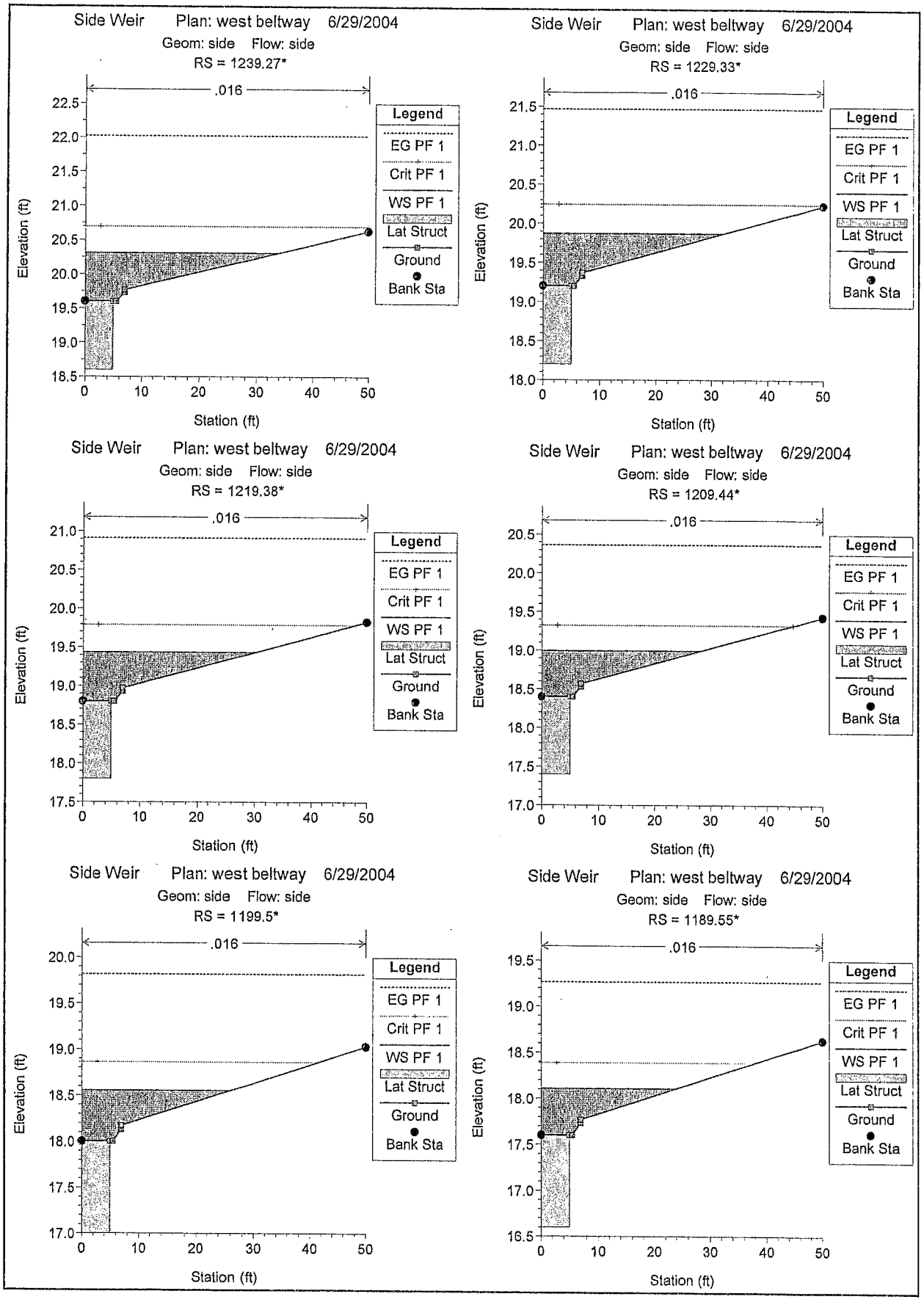
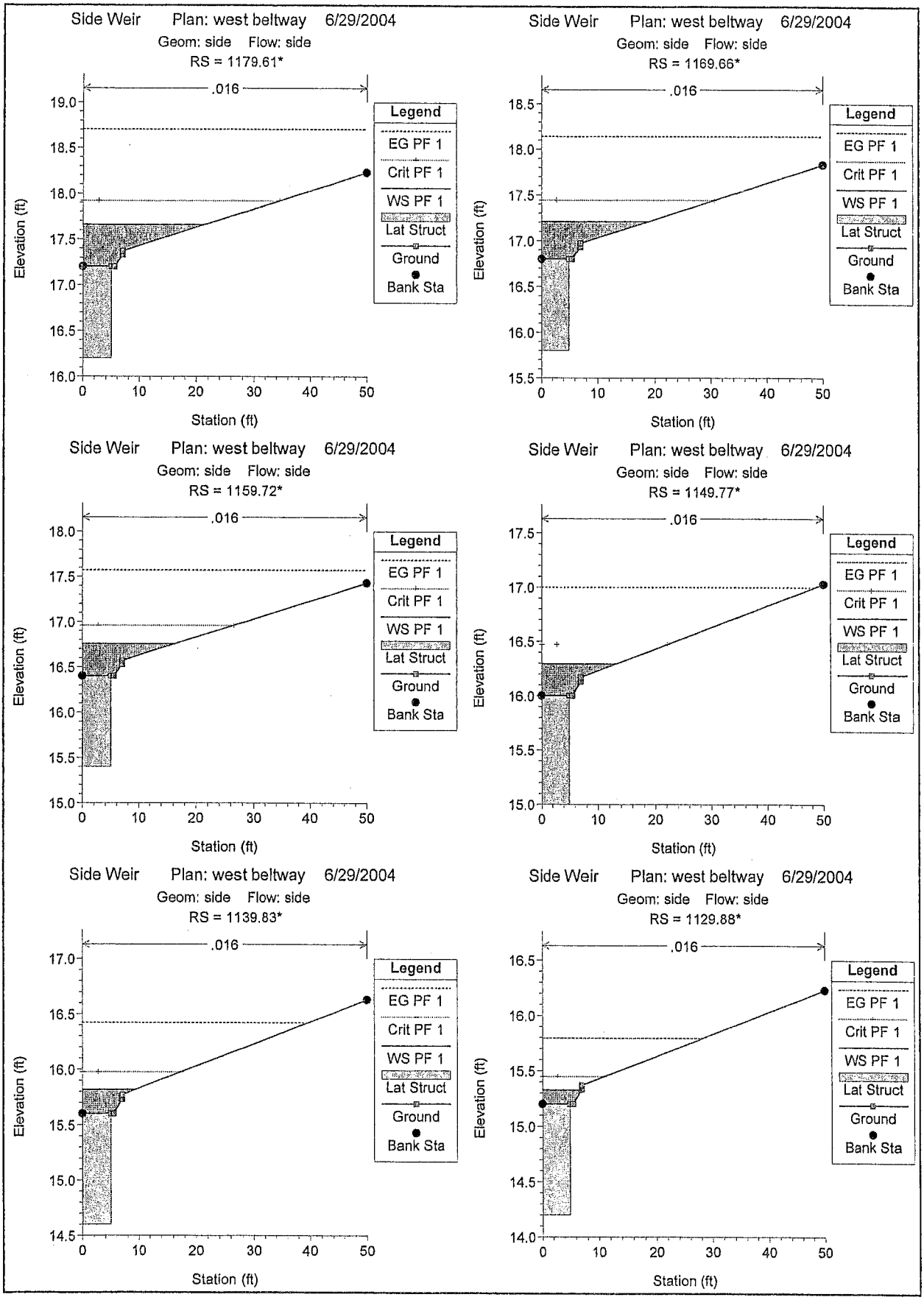
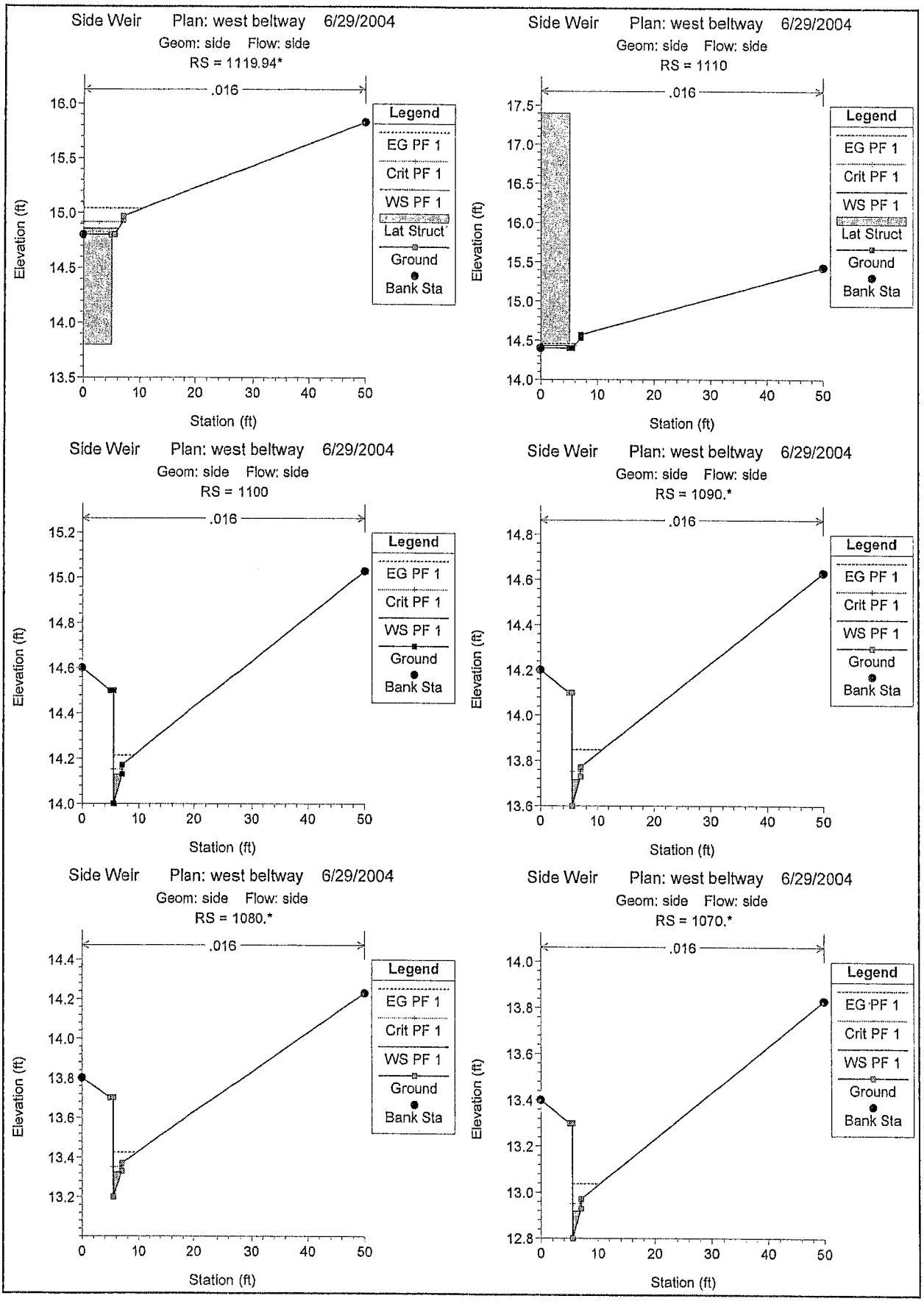
1290
1300
1310 *
1320 *
1330 *
1340 *
1350 *
1360


Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1360
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1350.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1340.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1330.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1320.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1310.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

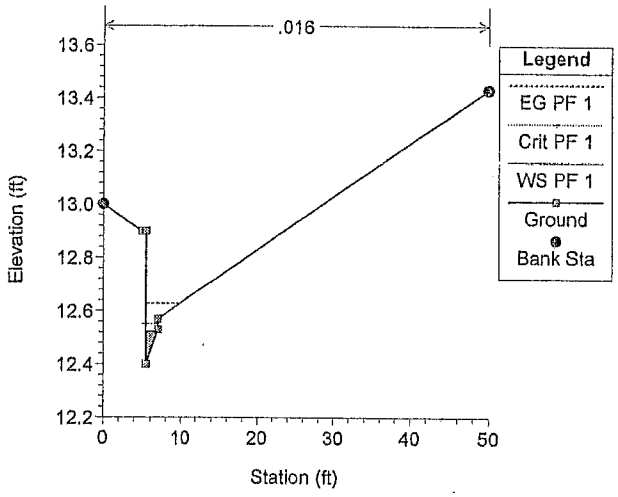

Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1300
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1290
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1279.05*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1269.11*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1259.16*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1249.22*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)


Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1239.27*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1229.33*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1219.38*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1209.44*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1199.5*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1189.55*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)

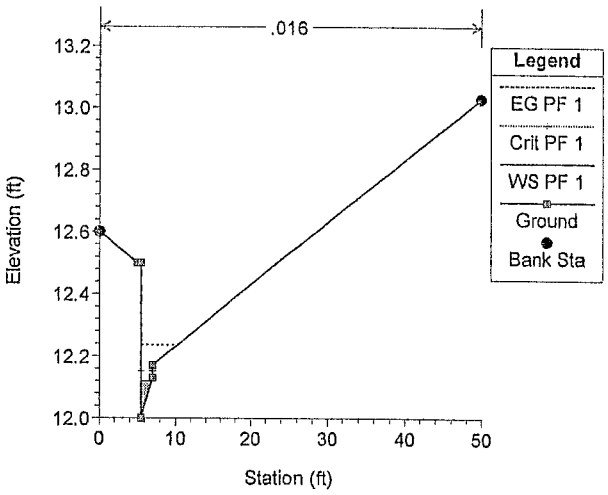

Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1179.61*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1169.66*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1159.72*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1149.77*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1139.83*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1129.88*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)


Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1119.94*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1110
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1100
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1090.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1080.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1070.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

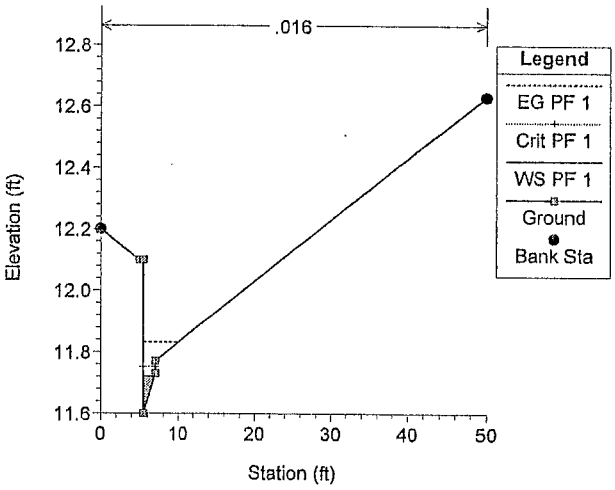
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1060.*



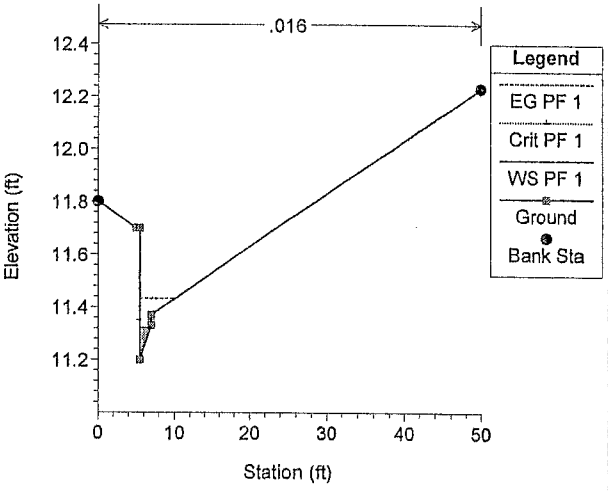
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1050.*



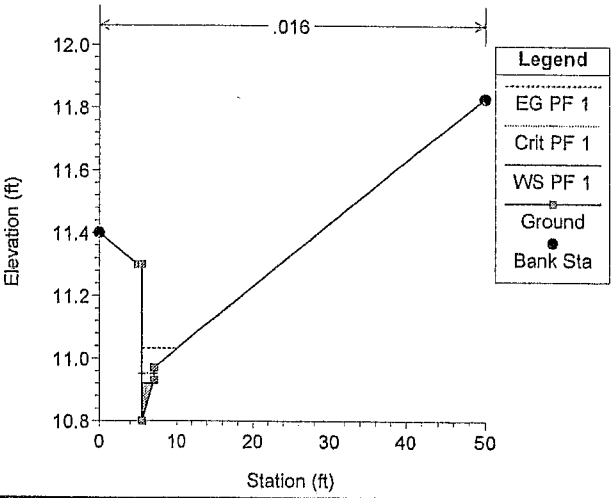
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1040.*



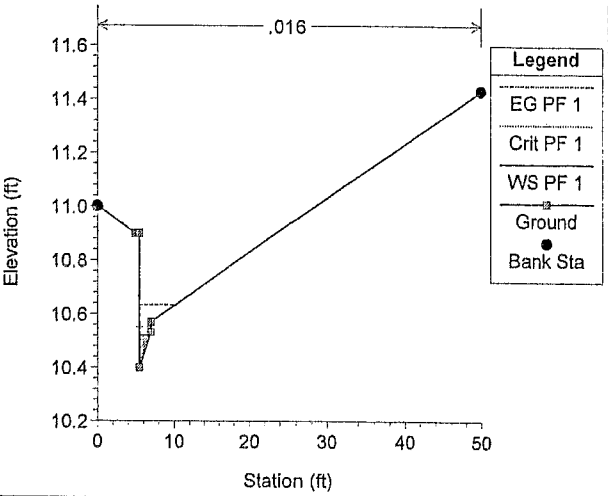
Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1030.*

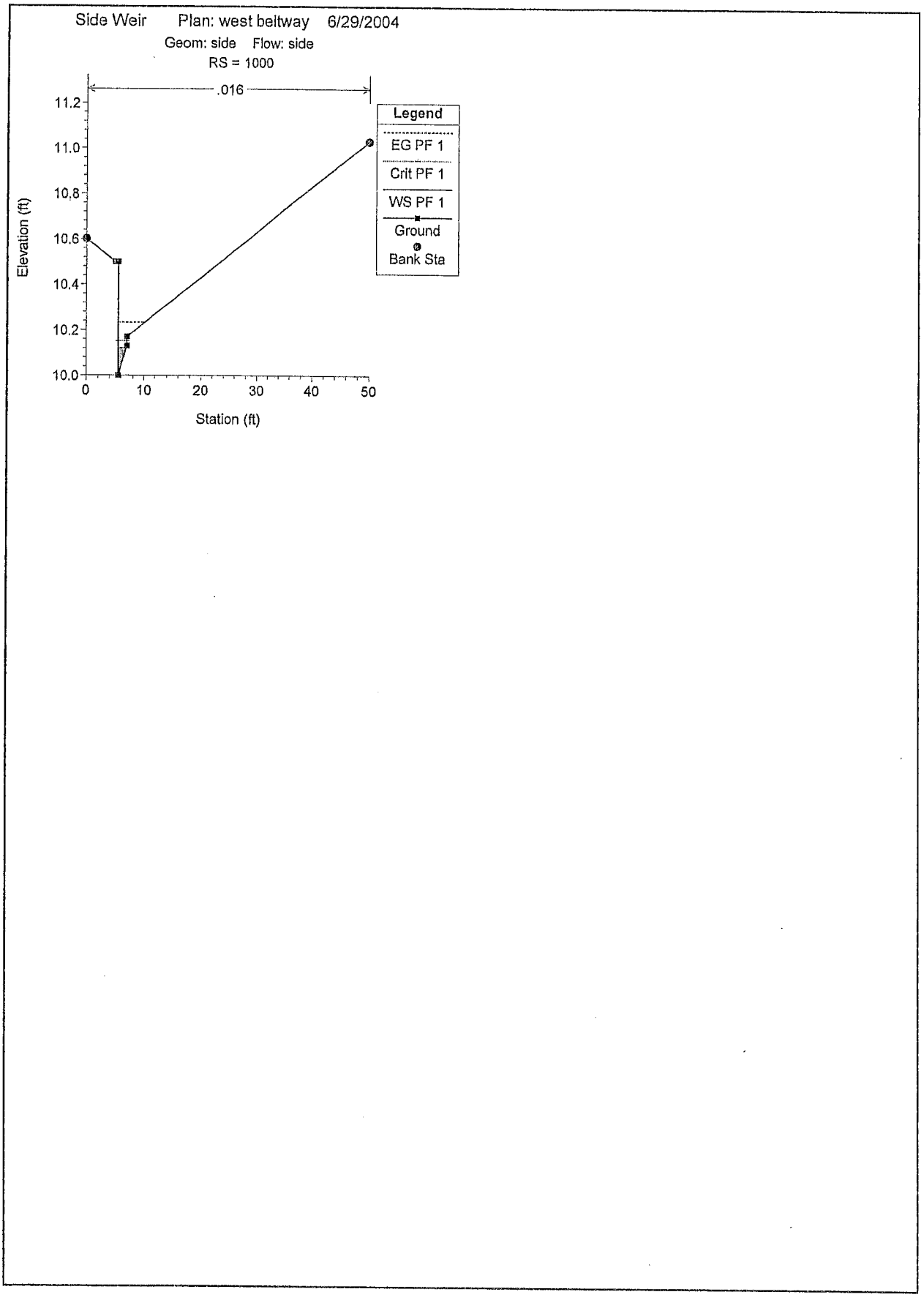


Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1020.*



Side Weir Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1010.*




Side Weir
Plan: west beltway 6/29/2004
Geom: side Flow: side
RS = 1000
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
11.2
11.0
10.8
10.6
10.4
10.2
10.0
0
10
20
30
40
50

HEC-RAS Version 3.1.1 May 2003
U.S. Army Corp of Engineers
Hydrologic Engineering Center
609 Second Street, Suite D
Davis, California 95616-4687
(916) 756-1104

```
X     X  XXXXXX    XXXX        XXXX       XX      XXXX
X     X  X        X    X      X   X     X  X    X
X     X  X        X           X   X    X    X   X
XXXXXXX  XXXX     X       XXX  XXXX     XXXXXX    XXXX
X     X  X        X            X  X     X    X        X
X     X  X        X    X       X   X    X    X        X
X     X  XXXXXX    XXXX        X    X   X    X   XXXXX
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PROJECT DATA
Project Title: Side Weir
Project File : LONU2A.prj
Run Date and Time: 6/29/2004 3:04:02 PM

Project in English units

PLAN DATA

Plan Title: west beltway
Plan File : f:\451-002\Drainage\calcs\ras\Side Weir West\LONU2A.p01

Geometry Title: side
Geometry File : f:\451-002\Drainage\calcs\ras\Side Weir West\LONU2A.g01

Flow Title : side
Flow File : f:\451-002\Drainage\calcs\ras\Side Weir West\LONU2A.f01

Plan Summary Information:

Number of:	Cross Sections	= 37	Mulitple Openings	=	0
	Culverts	= 0	Inline Structures	=	0
	Bridges	= 0	Lateral Structures	=	1

Computational Information
Water surface calculation tolerance = 0.01
Critical depth calculaton tolerance = 0.01
Maximum number of interations = 20
Maximum difference tolerance = 0.3
Flow tolerance factor = 0.001

Computation Options
Critical depth computed at all cross sections
Conveyance Calculation Method: At breaks in n values only
Friction Slope Method: Average Conveyance
Computational Flow Regime: Mixed Flow

FLOW DATA

Flow Title: side
Flow File : f:\451-002\Drainage\calcs\ras\Side Weir West\LONU2A.f01

Flow Data (cfs)

River	Reach	RS	PF 1
side	side	1360	224

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
side	side	PF 1	Normal S = 0.04	Normal S = 0.04

GEOMETRY DATA

Geometry Title: side
Geometry File : f:\451-002\Drainage\calcs\ras\Side Weir West\LONU2A.g01

CROSS SECTION

RIVER: side
REACH: side RS: 1360

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	25	5	24.9	5.5	24.9	5.5	24.4	7	24.53
7	24.57	50	25.43						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1350.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	24.6	5	24.5	5.5	24.5	5.5	24	7	24.13
7	24.17	50	25.03						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1340.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	24.2	5	24.1	5.5	24.1	5.5	23.6	7	23.73
7	23.77	50	24.63						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1330.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	23.8	5	23.7	5.5	23.7	5.5	23.2	7	23.33
7	23.37	50	24.23						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

```
Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
             0      50             10      10      10            .1       .3

CROSS SECTION


RIVER: side
REACH: side               RS: 1320.*

INPUT
Description:
Station Elevation Data    num=       7
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
       0    23.4       5    23.3     5.5    23.3     5.5    22.8       7   22.93
       7   22.97      50   23.83

Manning's n Values        num=       3
     Sta   n Val      Sta   n Val      Sta   n Val
       0    .016       0    .016       50    .016

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
             0      50             10      10      10            .1       .3

CROSS SECTION


RIVER: side
REACH: side               RS: 1310.*

INPUT
Description:
Station Elevation Data    num=       7
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
       0      23       5    22.9     5.5    22.9     5.5    22.4       7   22.53
       7   22.57      50   23.43

Manning's n Values        num=       3
     Sta   n Val      Sta   n Val      Sta   n Val
       0    .016       0    .016       50    .016

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
             0      50             10      10      10            .1       .3

CROSS SECTION


RIVER: side
REACH: side               RS: 1300

INPUT
Description:
Station Elevation Data    num=       7
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
       0    22.6       5    22.5     5.5    22.5     5.5      22       7   22.13
       7   22.17      50   23.03

Manning's n Values        num=       3
     Sta   n Val      Sta   n Val      Sta   n Val
       0    .016       0    .016       50    .016

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
             0      50             10      10      10            .1       .3

CROSS SECTION


RIVER: side
REACH: side               RS: 1290

INPUT
Description:
Station Elevation Data    num=       6
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
       0    21.6       5    21.6     5.5    21.6       7   21.73       7   21.77
      50   22.63

Manning's n Values        num=       3
     Sta   n Val      Sta   n Val      Sta   n Val
       0    .016       0    .016       50    .016
```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
0 50 10 10 10 .1 .3

LATERAL STRUCTURE

RIVER: side
REACH: side RS: 1289

INPUT
Description:
Lateral structure position = Left overbank
Distance from Upstream XS = 0
Deck/Roadway Width = 5
Weir Coefficient = 3.1
Weir Flow Reference = Water Surface
Weir Embankment Coordinates num = 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	24.6	0	21.6	180	14.4	180	17.4

Weir crest shape = Broad Crested

LATERAL STRUCTURE OUTPUT Profile #PF 1 Lat Struct

E.G. US. (ft)	24.33	Weir Sta US (ft)	0.00
W.S. US. (ft)	22.53	Weir Sta DS (ft)	180.00
E.G. DS (ft)	14.46	Weir Max Depth (ft)	0.93
W.S. DS (ft)	14.43	Weir Avg Depth (ft)	0.51
Q US (cfs)	224.00	Weir Submerg	0.00
Q Leaving Total (cfs)	224.60	Min El Weir Flow (ft)	14.40
Q DS (cfs)	0.22	Wr Top Wdth (ft)	180.00
Perc Q Leaving	99.90	Q Gate Group (cfs)	
Q Weir (cfs)	224.60	Gate Open Ht (ft)	
Q Gates (cfs)		Gate #Open	
Q Culv (cfs)		Gate Area (sq ft)	
Q Lat RC (cfs)		Gate Submerg	
Weir Flow Area (sq ft)	92.29	Gate Invert (ft)	

CROSS SECTION

RIVER: side
REACH: side RS: 1279.05*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	21.2	5	21.2	5.5	21.2	7	21.33	7	21.37
50	22.23								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
0 50 10 10 10 .1 .3

CROSS SECTION

RIVER: side
REACH: side RS: 1269.11*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	20.8	5	20.8	5.5	20.8	7	20.93	7	20.97
50	21.83								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
0 50 10 10 10 .1 .3

CROSS SECTION

RIVER: side
REACH: side RS: 1259.16*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	20.4	5	20.4	5.5	20.4	7	20.53	7	20.57
50	21.43								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1249.22*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	20	5	20	5.5	20	7	20.13	7	20.17
50	21.03								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1239.27*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	19.6	5	19.6	5.5	19.6	7	19.73	7	19.77
50	20.63								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1229.33*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	19.2	5	19.2	5.5	19.2	7	19.33	7	19.37
50	20.23								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	14.6	5	14.5	5.5	14.5	5.5	14	7	14.13
7	14.17	50	15.03						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1090.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	14.2	5	14.1	5.5	14.1	5.5	13.6	7	13.73
7	13.77	50	14.63						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1080.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	13.8	5	13.7	5.5	13.7	5.5	13.2	7	13.33
7	13.37	50	14.23						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1070.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	13.4	5	13.3	5.5	13.3	5.5	12.8	7	12.93
7	12.97	50	13.83						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1060.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	13	5	12.9	5.5	12.9	5.5	12.4	7	12.53
7	12.57	50	13.43						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1050.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	12.6	5	12.5	5.5	12.5	5.5	12	7	12.13
7	12.17	50	13.03						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1040.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	12.2	5	12.1	5.5	12.1	5.5	11.6	7	11.73
7	11.77	50	12.63						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1030.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	11.8	5	11.7	5.5	11.7	5.5	11.2	7	11.33
7	11.37	50	12.23						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1020.*

INPUT

Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	11.4	5	11.3	5.5	11.3	5.5	10.8	7	10.93
7	10.97	50	11.83						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1010.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	11	5	10.9	5.5	10.9	5.5	10.4	7	10.53
7	10.57	50	11.43						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1000

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	10.6	5	10.5	5.5	10.5	5.5	10	7	10.13
7	10.17	50	11.03						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Coeff Contr.	Expan.
0	50	.1	.3

SUMMARY OF MANNING'S N VALUES

River:side

Reach	River Sta.	n1	n2	n3
side	1360	.016	.016	.016
side	1350.*	.016	.016	.016
side	1340.*	.016	.016	.016
side	1330.*	.016	.016	.016
side	1320.*	.016	.016	.016
side	1310.*	.016	.016	.016
side	1300	.016	.016	.016
side	1290	.016	.016	.016
side	1289	Lat Struct		
side	1279.05*	.016	.016	.016
side	1269.11*	.016	.016	.016
side	1259.16*	.016	.016	.016
side	1249.22*	.016	.016	.016
side	1239.27*	.016	.016	.016
side	1229.33*	.016	.016	.016
side	1219.38*	.016	.016	.016
side	1209.44*	.016	.016	.016
side	1199.5*	.016	.016	.016
side	1189.55*	.016	.016	.016
side	1179.61*	.016	.016	.016

side	1169.66*	.016	.016	.016
side	1159.72*	.016	.016	.016
side	1149.77*	.016	.016	.016
side	1139.83*	.016	.016	.016
side	1129.88*	.016	.016	.016
side	1119.94*	.016	.016	.016
side	1110	.016	.016	.016
side	1100	.016	.016	.016
side	1090.*	.016	.016	.016
side	1080.*	.016	.016	.016
side	1070.*	.016	.016	.016
side	1060.*	.016	.016	.016
side	1050.*	.016	.016	.016
side	1040.*	.016	.016	.016
side	1030.*	.016	.016	.016
side	1020.*	.016	.016	.016
side	1010.*	.016	.016	.016
side	1000	.016	.016	.016

SUMMARY OF REACH LENGTHS

River: side

Reach	River Sta.	Left	Channel	Right
side	1360	10	10	10
side	1350.*	10	10	10
side	1340.*	10	10	10
side	1330.*	10	10	10
side	1320.*	10	10	10
side	1310.*	10	10	10
side	1300	10	10	10
side	1290	10	10	10
side	1289	Lat Struct		
side	1279.05*	10	10	10
side	1269.11*	10	10	10
side	1259.16*	10	10	10
side	1249.22*	10	10	10
side	1239.27*	10	10	10
side	1229.33*	10	10	10
side	1219.38*	10	10	10
side	1209.44*	10	10	10
side	1199.5*	10	10	10
side	1189.55*	10	10	10
side	1179.61*	10	10	10
side	1169.66*	10	10	10
side	1159.72*	10	10	10
side	1149.77*	10	10	10
side	1139.83*	10	10	10
side	1129.88*	10	10	10
side	1119.94*	10	10	10
side	1110	10	10	10
side	1100	10	10	10
side	1090.*	10	10	10
side	1080.*	10	10	10
side	1070.*	10	10	10
side	1060.*	10	10	10
side	1050.*	10	10	10
side	1040.*	10	10	10
side	1030.*	10	10	10
side	1020.*	10	10	10
side	1010.*	10	10	10
side	1000			

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: side

Reach	River Sta.	Contr.	Expan.
side	1360	.1	.3
side	1350.*	.1	.3
side	1340.*	.1	.3
side	1330.*	.1	.3
side	1320.*	.1	.3

side	1310.*	.1	.3
side	1300	.1	.3
side	1290	.1	.3
side	1289	Lat Struct	
side	1279.05*	.1	.3
side	1269.11*	.1	.3
side	1259.16*	.1	.3
side	1249.22*	.1	.3
side	1239.27*	.1	.3
side	1229.33*	.1	.3
side	1219.38*	.1	.3
side	1209.44*	.1	.3
side	1199.5*	.1	.3
side	1189.55*	.1	.3
side	1179.61*	.1	.3
side	1169.66*	.1	.3
side	1159.72*	.1	.3
side	1149.77*	.1	.3
side	1139.83*	.1	.3
side	1129.88*	.1	.3
side	1119.94*	.1	.3
side	1110	.1	.3
side	1100	.1	.3
side	1090.*	.1	.3
side	1080.*	.1	.3
side	1070.*	.1	.3
side	1060.*	.1	.3
side	1050.*	.1	.3
side	1040.*	.1	.3
side	1030.*	.1	.3
side	1020.*	.1	.3
side	1010.*	.1	.3
side	1000	.1	.3

LONU2B

```
0
T1 WESTERN BELTWAY
T2 LONE MOUNTAIN 6'X 4' RCB SIDE WEIR COLLECTORS TO SPILLWAY
T3 JOB #451-002 - LONU2B.WSP
SO    1000.002836.82  1                              2840.46
R     1010.002836.87  1       .030
R     1034.002836.99  1       .013
JX    1035.002837.00  1  2    .013    215.0         2837.00          90.00
R     1039.002837.02  1       .013
WX    1039.002837.02  2
R     1046.002837.06  2       .013                                          70.50
JX    1108.502839.56  2  4    .013    134.0         2840.06          19.50
R     1301.002847.26  2       .013                                          30.00
R     1306.002847.46  2       .013
WE    1306.002847.46  3       .500
R     1321.002848.06  3       .013
SH    1321.002848.06  3
CD    1  2                 4.00    20.00
CD    2  3                 4.00     6.00
CD    3  2                 4.00     6.00
CD    4  4                 3.50
```

0
Q 215.0

DATE: 6/30/2004
TIME: 11:12

F0515P

WATER SURFACE PROFILE - CHANNEL DEFINITION LISTING

CARD CODE	SECT NO	CHN TYPE	NO OF PIERS	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	1	2	0	0.00	4.00	20.00			0.00										
CD	2	3	0	0.00	4.00	6.00	0.00	0.00	0.00										
CD	3	2	0	0.00	4.00	6.00			0.00										
CD	4	4			3.50														

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

WESTERN BELTWAY

HEADING LINE NO 2 IS -

LONE MOUNTAIN 6'X 4' RCB SIDE WEIR COLLECTORS TO SPILLWAY

HEADING LINE NO 3 IS -

JOB #451-002 - LONU2B.WSP

WATER SURFACE PROFILE - ELEMENT CARD LISTING

ELEMENT NO 1 IS A SYSTEM OUTLET

U/S DATA	STATION	INVERT	SECT	W S ELEV
	1000.00	2836.82	1	2840.46

ELEMENT NO 2 IS A REACH

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1010.00	2836.87	1	0.030	0.00	0.00	0.00	0

ELEMENT NO 3 IS A REACH

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1034.00	2836.99	1	0.013	0.00	0.00	0.00	0

ELEMENT NO 4 IS A JUNCTION

U/S DATA	STATION	INVERT	SECT	LAT-1	LAT-2	N	Q3	Q4	INVERT-3	INVERT-4	PHI 3	PHI 4
	1035.00	2837.00	1	2	0	0.013	215.0	0.0	2837.00	0.00	90.00	0.00

ELEMENT NO 5 IS A REACH

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1039.00	2837.02	1	0.013	0.00	0.00	0.00	0

ELEMENT NO 6 IS A WALL EXIT

U/S DATA	STATION	INVERT	SECT
	1039.00	2837.02	2

ELEMENT NO 7 IS A REACH

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1046.00	2837.06	2	0.013	0.00	0.00	70.50	0

ELEMENT NO 8 IS A JUNCTION

U/S DATA	STATION	INVERT	SECT	LAT-1	LAT-2	N	Q3	Q4	INVERT-3	INVERT-4	PHI 3	PHI 4
	1108.50	2839.56	2	4	0	0.013	134.0	0.0	2840.06	0.00	19.50	0.00

ELEMENT NO 9 IS A REACH

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1301.00	2847.26	2	0.013	0.00	0.00	30.00	0

ELEMENT NO 10 IS A REACH

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1306.00	2847.46	2	0.013	0.00	0.00	0.00	0

ELEMENT NO 11 IS A WALL ENTRANCE

U/S DATA	STATION	INVERT	SECT	FP
	1306.00	2847.46	3	0.500

WATER SURFACE PROFILE - ELEMENT CARD LISTING

ELEMENT NO 12 IS A REACH		*	*	*					
	U/S DATA	STATION	INVERT	SECT	N		RADIUS	ANGLE	ANG PT	MAN H
		1321.00	2848.06	3	0.013		0.00	0.00	0.00	0

ELEMENT NO 13 IS A SYSTEM HEADWORKS			*		*		
	U/S DATA	STATION	INVERT	SECT		W S ELEV	
		1321.00	2848.06	3		0.00	

NO EDIT ERRORS ENCOUNTERED-COMPUTATION IS NOW BEGINNING

** WARNING NO. 2 ** - WATER SURFACE ELEVATION GIVEN IS LESS THAN OR EQUALS INVERT ELEVATION IN HDWKDS, W.S.ELEV = INV + DC

WATER SURFACE PROFILE LISTING

WESTERN BELTWAY
LONE MOUNTAIN 6'X 4' RCB SIDE WEIR COLLECTORS TO SPILLWAY
JOB #451-002 - LONU2B.WSP

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH		HGT/ DIA	BASE/ ID NO.	ZL	NO PIER	AVBPR
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR		
1000.00	2836.82	3.640	2840.460	564.0	7.75	0.932	2841.392	0.00	2.913		4.00	20.00	0.00	0	0.00
10.00	0.00500					.006526	0.07			3.999			0.00		
1010.00	2836.87	3.671	2840.541	564.0	7.68	0.916	2841.457	0.00	2.913		4.00	20.00	0.00	0	0.00
21.43	0.00500					.001302	0.03			2.299			0.00		
1031.43	2836.98	3.500	2840.477	564.0	8.06	1.008	2841.485	0.00	2.913		4.00	20.00	0.00	0	0.00
2.57	0.00500					.001408	0.00			2.299			0.00		
1034.00	2836.99	3.479	2840.469	564.0	8.11	1.020	2841.489	0.00	2.913		4.00	20.00	0.00	0	0.00
JUNCT STR	0.01000					.000821	0.00						0.00		
1035.00	2837.00	4.713	2841.713	349.0	3.70	0.213	2841.926	0.00	2.115		4.00	20.00	0.00	0	0.00
4.00	0.00500					.000224	0.00			1.689			0.00		
1039.00	2837.02	4.692	2841.712	349.0	3.72	0.215	2841.927	0.00	2.115		4.00	20.00	0.00	0	0.00
HYDRAULIC JUMP													0.00		
1039.00	2837.02	2.778	2839.798	349.0	20.94	6.810	2846.608	0.00	4.000		4.00	6.00	0.00	0	0.00
7.00	0.00571					.020871	0.15			4.000			0.00		
1046.00	2837.06	2.751	2839.811	349.0	21.15	6.943	2846.754	0.00	4.000		4.00	6.00	0.00	0	0.00
JUNCT STR	0.04000					.026797	1.67						0.00		
1108.50	2839.56	1.663	2841.223	215.0	21.54	7.207	2848.430	0.00	3.417		4.00	6.00	0.00	0	0.00
14.95	0.04000					.032022	0.48			1.546			0.00		
1123.45	2840.16	1.679	2841.837	215.0	21.34	7.073	2848.910	0.00	3.417		4.00	6.00	0.00	0	0.00
53.87	0.04000					.029588	1.59			1.546			0.00		
1177.32	2842.31	1.761	2844.074	215.0	20.35	6.429	2850.503	0.00	3.417		4.00	6.00	0.00	0	0.00
35.21	0.04000					.025841	0.91			1.546			0.00		

WATER SURFACE PROFILE LISTING

WESTERN BELTWAY
LONE MOUNTAIN 6'X 4' RCB SIDE WEIR COLLECTORS TO SPILLWAY
JOB #451-002 - LONU2B.WSP

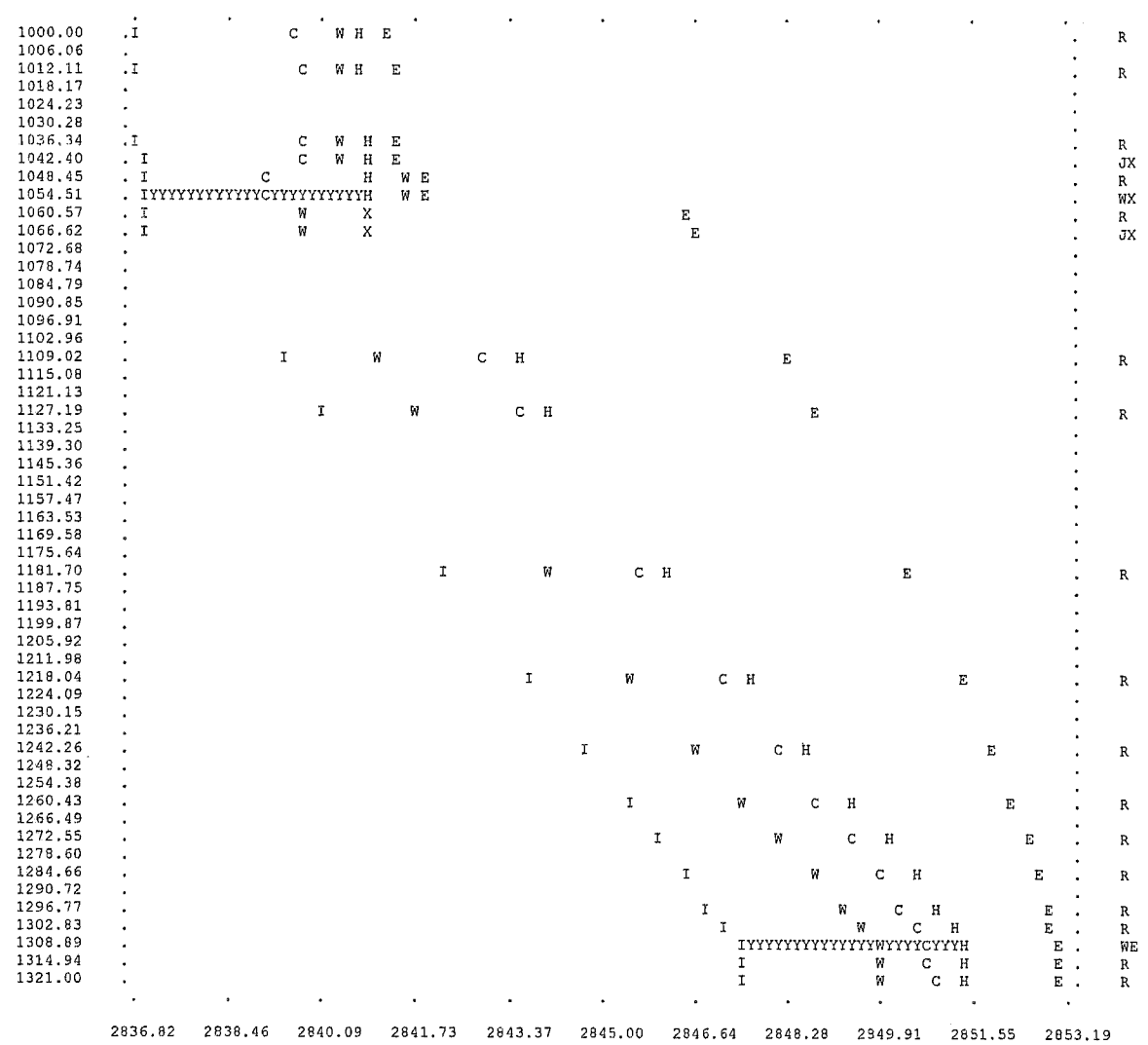
STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH	HGT/ DIA	BASE/ ID NO.	ZL	NO PIER	AVBPR
L/ELEM	SO					SF AVE	HF		NORM DEPTH			ZR		
1212.53	2843.72	1.847	2845.568	215.0	19.40	5.845	2851.413	0.00	3.417	4.00	6.00	0.00	0	0.00
25.34	0.04000					.022586	0.57		1.546			0.00		
1237.87	2844.74	1.937	2846.672	215.0	18.50	5.313	2851.985	0.00	3.417	4.00	6.00	0.00	0	0.00
19.18	0.04000					.019755	0.38		1.546			0.00		
1257.05	2845.50	2.032	2847.534	215.0	17.64	4.830	2852.364	0.00	3.417	4.00	6.00	0.00	0	0.00
14.97	0.04000					.017291	0.26		1.546			0.00		
1272.02	2846.10	2.131	2848.232	215.0	16.82	4.391	2852.623	0.00	3.417	4.00	6.00	0.00	0	0.00
11.88	0.04000					.015145	0.18		1.546			0.00		
1283.90	2846.58	2.235	2848.811	215.0	16.03	3.992	2852.803	0.00	3.417	4.00	6.00	0.00	0	0.00
9.50	0.04000					.013275	0.13		1.546			0.00		
1293.40	2846.96	2.344	2849.300	215.0	15.29	3.629	2852.929	0.00	3.417	4.00	6.00	0.00	0	0.00
7.60	0.04000					.011645	0.09		1.546			0.00		
1301.00	2847.26	2.458	2849.718	215.0	14.58	3.299	2853.017	0.00	3.417	4.00	6.00	0.00	0	0.00
5.00	0.04000					.010343	0.05		1.546			0.00		
1306.00	2847.46	2.555	2850.015	215.0	14.02	3.054	2853.069	0.00	3.417	4.00	6.00	0.00	0	0.00
WALL ENTRANCE												0.00		
1306.00	2847.46	2.556	2850.016	215.0	14.02	3.052	2853.068	0.00	3.417	4.00	6.00	0.00	0	0.00
0.49	0.04000					.009736	0.00		1.546			0.00		
1306.49	2847.48	2.566	2850.046	215.0	13.96	3.027	2853.073	0.00	3.417	4.00	6.00	0.00	0	0.00
4.85	0.04000					.009095	0.04		1.546			0.00		
1311.34	2847.67	2.692	2850.366	215.0	13.31	2.752	2853.118	0.00	3.417	4.00	6.00	0.00	0	0.00
3.71	0.04000					.007995	0.03		1.546			0.00		

WATER SURFACE PROFILE LISTING

WESTERN BELTWAY
LONE MOUNTAIN 6'X 4' RCB SIDE WEIR COLLECTORS TO SPILLWAY
JOB #451-002 - LONU2B.WSP

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH		HGT/ DIA	BASE/ ID NO.	ZL	NO PIER	AVBPR
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR		
1315.05	2847.82	2.823	2850.645	215.0	12.69	2.502	2853.147	0.00	3.417		4.00	6.00	0.00	0	0.00
2.72	0.04000					.007033	0.02			1.546			0.00		
1317.77	2847.93	2.961	2850.892	215.0	12.10	2.274	2853.166	0.00	3.417		4.00	6.00	0.00	0	0.00
1.84	0.04000					.006193	0.01			1.546			0.00		
1319.61	2848.00	3.105	2851.109	215.0	11.54	2.067	2853.176	0.00	3.417		4.00	6.00	0.00	0	0.00
1.05	0.04000					.005457	0.01			1.546			0.00		
1320.66	2848.05	3.257	2851.303	215.0	11.00	1.880	2853.183	0.00	3.417		4.00	6.00	0.00	0	0.00
0.34	0.04000					.004810	0.00			1.546			0.00		
1321.00	2848.06	3.417	2851.477	215.0	10.49	1.708	2853.185	0.00	3.417		4.00	6.00	0.00	0	0.00

WESTERN BELTWAY
LONE MOUNTAIN 6'X 4' RCB SIDE WEIR COLLECTORS TO SPILLWAY
JOB #451-002 - LONU2B.WSP



N O T E S
1. GLOSSARY
   I = INVERT ELEVATION
   C = CRITICAL DEPTH
   W = WATER SURFACE ELEVATION
   H = HEIGHT OF CHANNEL
   E = ENERGY GRADE LINE
   X = CURVES CROSSING OVER
   B = BRIDGE ENTRANCE OR EXIT
   Y = WALL ENTRANCE OR EXIT
2. STATIONS FOR POINTS AT A JUMP MAY NOT BE PLOTTED EXACTLY

LONU2D.

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T1 WEST DETENTION BASIN
T2 72" RCP TO 12'X4' CULVERT WITH (3) 2' WIDE X 1.0' HIGH BAFFLES
T3 JOB #451-002 - LONU2D.WSP
SO   1000.002743.00  1                              2747.00
R    1027.002743.11  1      .013
WX   1027.002743.11  3
R    1029.002743.12  3      .013
WE   1029.002743.12  1      .500
R    1032.002743.15  1      .013                                          90.00
WX   1032.002743.15  4
TS   1038.002743.15  5                                                    8.00
WX   1038.002743.15  2
R    1512.302753.21  2      .013
SH   1512.302753.21  2
CD   1  3              4.00   12.00
CD   2  4              6.00
CD   3  6
CD   4  3              4.00    6.00
CD   5  3              5.50    6.00
PTS  316  0.00  0.00  1.00  0.00  1.10  1.00  2.90  1.00  3.00  0.00
PTS       5.00  0.00  5.10  1.00  6.90  1.00  7.00  0.00  9.00  0.00
PTS       9.10  1.00 10.90  1.00 11.00  0.00 12.00  0.00 11.99  4.00
PTS       0.01  4.00
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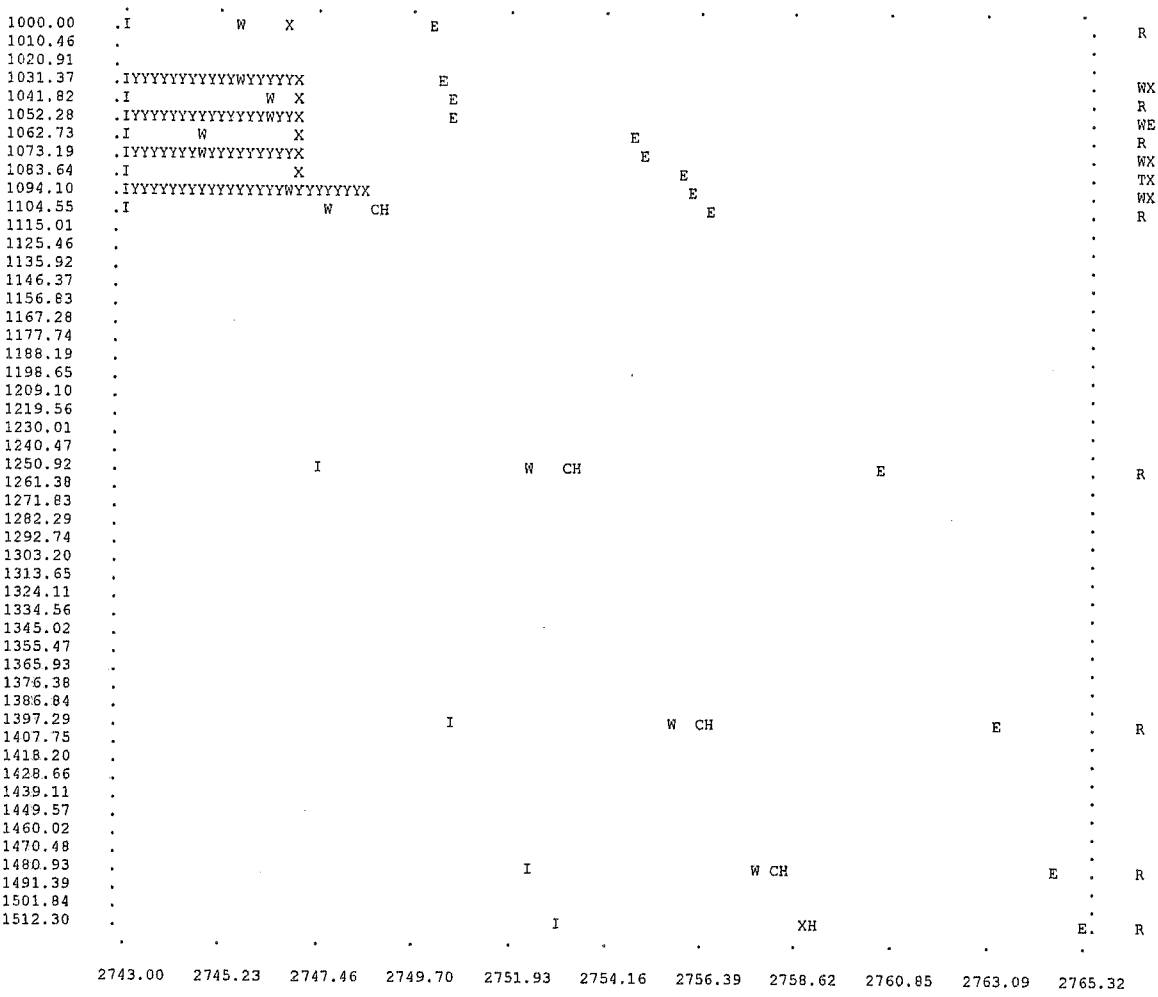
WEST DETENTION BASIN
72" RCP TO 12'X4' CULVERT WITH (3) 2' WIDE X 1.0' HIGH BAFFLES
JOB #451-002 - LONU2D.WSP



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2. STATIONS FOR POINTS AT A JUMP MAY NOT BE PLOTTED EXACTLY

CRAIG ROAD TO HUALAPAI WAY

FACILITIES COST ESTIMATE ALTERNATIVE 2

FACILITY #	SHEET #	FACILITY DESCRIPTION	QUANTITY	UNIT	COST	TOTAL
2A	SD-1	(2) 150' DEPRESSED CURB	300	LF	$265.00	$79,500.00
2B	SD-1	6'X4' RCB	205	LF	$180.00	$36,900.00
2C	SD-1	6'X4' RCB TRANSITION TO 20'X4' RCB	1	LS	$1,950.00	$1,950.00
2D	SD-1	20'X4' RCB	20	LF	$800.00	$16,000.00
2E	SD-1	20' WIDE CONCRETE CHANNEL	15	CY	$70.00	$1,037.04
2F	SD-1	20' TRANSITION TO 10' STEPPED SPILLWAY	14	CY	$70.00	$969.63
2G	SD-1	10' WIDE STEPPED SPILLWAY	148	CY	$70.00	$10,344.45
2H	SD-1	IMPACT BASIN/DROP STRUCTURE	1	LS	$48,000.00	$48,000.00
2I	SD-1	72" RCP STORM DRAIN	481	LF	$220.00	$105,820.00
2J	SD-1	12'X4' RCB	38	LF	$650.00	$24,700.00
					TOTAL	**$325,221.11**

Storm Drain Facilities Option 3

1	0130	19	4.	3.0	1.0	*	1	2345	286	91.	439.9	30.9	*	2	2200	553	91.	427.6	30.4
1	0135	20	5.	3.6	1.2	*	1	2350	287	91.	440.2	30.9	*	2	2205	554	91.	427.0	30.4
1	0140	21	6.	4.4	1.5	*	1	2355	288	91.	440.5	30.9	*	2	2210	555	91.	426.5	30.4
1	0145	22	7.	5.3	1.8	*	2	0000	289	91.	440.8	30.9	*	2	2215	556	90.	425.9	30.4
1	0150	23	9.	6.2	2.1	*	2	0005	290	91.	441.1	30.9	*	2	2220	557	90.	425.4	30.3
1	0155	24	10.	7.2	2.4	*	2	0010	291	91.	441.4	30.9	*	2	2225	558	90.	424.8	30.3
1	0200	25	11.	8.1	2.7	*	2	0015	292	91.	441.7	30.9	*	2	2230	559	90.	424.3	30.3
1	0205	26	12.	8.9	3.0	*	2	0020	293	91.	442.0	30.9	*	2	2235	560	90.	423.8	30.3
1	0210	27	14.	9.7	3.2	*	2	0025	294	91.	442.3	30.9	*	2	2240	561	90.	423.2	30.3
1	0215	28	15.	10.5	3.5	*	2	0030	295	91.	442.6	30.9	*	2	2245	562	90.	422.7	30.2
1	0220	29	16.	11.6	3.9	*	2	0035	296	91.	442.8	31.0	*	2	2250	563	90.	422.1	30.2
1	0225	30	18.	13.0	4.3	*	2	0040	297	91.	443.1	31.0	*	2	2255	564	90.	421.6	30.2
1	0230	31	20.	14.6	4.9	*	2	0045	298	91.	443.4	31.0	*	2	2300	565	90.	421.1	30.2
1	0235	32	22.	16.3	5.3	*	2	0050	299	91.	443.7	31.0	*	2	2305	566	90.	420.5	30.2
1	0240	33	22.	17.9	5.6	*	2	0055	300	91.	443.9	31.0	*	2	2310	567	90.	420.0	30.1
1	0245	34	23.	19.5	6.0	*	2	0100	301	91.	444.2	31.0	*	2	2315	568	90.	419.4	30.1
1	0250	35	24.	21.3	6.4	*	2	0105	302	91.	444.5	31.0	*	2	2320	569	90.	418.9	30.1
1	0255	36	24.	23.1	6.8	*	2	0110	303	91.	444.8	31.0	*	2	2325	570	90.	418.4	30.1
1	0300	37	25.	24.8	7.2	*	2	0115	304	91.	445.0	31.0	*	2	2330	571	90.	417.8	30.1
1	0305	38	26.	26.7	7.7	*	2	0120	305	91.	445.3	31.0	*	2	2335	572	90.	417.3	30.0
1	0310	39	27.	29.1	8.2	*	2	0125	306	91.	445.5	31.1	*	2	2340	573	90.	416.7	30.0
1	0315	40	28.	32.9	9.1	*	2	0130	307	91.	445.8	31.1	*	2	2345	574	90.	416.2	30.0
1	0320	41	30.	39.1	10.2	*	2	0135	308	92.	446.1	31.1	*	2	2350	575	90.	415.7	30.0
1	0325	42	32.	49.6	11.2	*	2	0140	309	92.	446.3	31.1	*	2	2355	576	90.	415.1	30.0
1	0330	43	34.	66.0	12.7	*	2	0145	310	92.	446.6	31.1	*	3	0000	577	89.	414.6	29.9
1	0335	44	37.	88.1	14.8	*	2	0150	311	92.	446.8	31.1	*	3	0005	578	89.	414.1	29.9
1	0340	45	38.	113.3	16.5	*	2	0155	312	92.	447.1	31.1	*	3	0010	579	89.	413.5	29.9
1	0345	46	40.	138.2	18.0	*	2	0200	313	92.	447.3	31.1	*	3	0015	580	89.	413.0	29.9
1	0350	47	41.	160.6	19.4	*	2	0205	314	92.	447.6	31.1	*	3	0020	581	89.	412.5	29.9
1	0355	48	42.	179.4	20.4	*	2	0210	315	92.	447.8	31.1	*	3	0025	582	88.	411.9	29.8
1	0400	49	43.	194.7	21.0	*	2	0215	316	92.	448.1	31.1	*	3	0030	583	88.	411.4	29.8
1	0405	50	43.	207.1	21.4	*	2	0220	317	92.	448.3	31.2	*	3	0035	584	88.	410.9	29.8
1	0410	51	43.	217.3	21.8	*	2	0225	318	92.	448.5	31.2	*	3	0040	585	88.	410.4	29.8
1	0415	52	44.	225.4	22.2	*	2	0230	319	92.	448.8	31.2	*	3	0045	586	88.	409.8	29.7
1	0420	53	44.	232.1	22.4	*	2	0235	320	92.	449.0	31.2	*	3	0050	587	88.	409.3	29.7
1	0425	54	44.	237.8	22.6	*	2	0240	321	92.	449.3	31.2	*	3	0055	588	87.	408.8	29.7
1	0430	55	44.	243.3	22.9	*	2	0245	322	92.	449.5	31.2	*	3	0100	589	87.	408.3	29.7
1	0435	56	44.	249.1	23.1	*	2	0250	323	92.	449.7	31.2	*	3	0105	590	87.	407.7	29.7
1	0440	57	45.	255.5	23.3	*	2	0255	324	92.	449.9	31.2	*	3	0110	591	87.	407.2	29.6
1	0445	58	45.	262.2	23.6	*	2	0300	325	92.	450.2	31.2	*	3	0115	592	87.	406.7	29.6
1	0450	59	45.	269.2	23.9	*	2	0305	326	92.	450.4	31.2	*	3	0120	593	86.	406.2	29.6
1	0455	60	45.	276.3	24.2	*	2	0310	327	92.	450.6	31.2	*	3	0125	594	86.	405.7	29.6
1	0500	61	46.	283.2	24.4	*	2	0315	328	92.	450.8	31.2	*	3	0130	595	86.	405.2	29.5
1	0505	62	46.	289.6	24.7	*	2	0320	329	92.	451.1	31.3	*	3	0135	596	86.	404.7	29.5
1	0510	63	46.	295.1	24.9	*	2	0325	330	92.	451.3	31.3	*	3	0140	597	86.	404.2	29.5
1	0515	64	47.	299.8	25.1	*	2	0330	331	92.	451.5	31.3	*	3	0145	598	85.	403.6	29.5
1	0520	65	48.	303.6	25.2	*	2	0335	332	92.	451.7	31.3	*	3	0150	599	85.	403.1	29.5
1	0525	66	49.	306.8	25.4	*	2	0340	333	92.	451.9	31.3	*	3	0155	600	85.	402.6	29.4
1	0530	67	50.	309.5	25.5	*	2	0345	334	92.	452.1	31.3	*	3	0200	601	85.	402.1	29.4
1	0535	68	51.	311.8	25.6	*	2	0350	335	92.	452.3	31.3	*	3	0205	602	85.	401.6	29.4
1	0540	69	52.	313.8	25.7	*	2	0355	336	92.	452.5	31.3	*	3	0210	603	84.	401.1	29.4
1	0545	70	53.	315.6	25.7	*	2	0400	337	92.	452.8	31.3	*	3	0215	604	84.	400.6	29.3
1	0550	71	53.	317.2	25.8	*	2	0405	338	92.	453.0	31.3	*	3	0220	605	84.	400.1	29.3
1	0555	72	54.	318.9	25.9	*	2	0410	339	92.	453.2	31.3	*	3	0225	606	84.	399.6	29.3
1	0600	73	54.	320.4	25.9	*	2	0415	340	92.	453.4	31.3	*	3	0230	607	84.	399.1	29.3
1	0605	74	55.	321.8	26.0	*	2	0420	341	92.	453.5	31.3	*	3	0235	608	84.	398.6	29.3
1	0610	75	55.	323.2	26.1	*	2	0425	342	92.	453.7	31.3	*	3	0240	609	83.	398.1	29.2
1	0615	76	56.	324.4	26.1	*	2	0430	343	92.	453.9	31.4	*	3	0245	610	83.	397.6	29.2
1	0620	77	56.	325.6	26.2	*	2	0435	344	92.	454.1	31.4	*	3	0250	611	83.	397.2	29.2
1	0625	78	57.	326.6	26.2	*	2	0440	345	92.	454.3	31.4	*	3	0255	612	83.	396.7	29.2
1	0630	79	57.	327.6	26.3	*	2	0445	346	92.	454.5	31.4	*	3	0300	613	83.	396.2	29.2
1	0635	80	57.	328.6	26.3	*	2	0450	347	92.	454.7	31.4	*	3	0305	614	82.	395.7	29.1
1	0640	81	58.	329.5	26.3	*	2	0455	348	92.	454.9	31.4	*	3	0310	615	82.	395.2	29.1
1	0645	82	58.	330.4	26.4	*	2	0500	349	92.	455.0	31.4	*	3	0315	616	82.	394.7	29.1
1	0650	83	58.	331.2	26.4	*	2	0505	350	92.	455.2	31.4	*	3	0320	617	82.	394.2	29.1
1	0655	84	59.	332.1	26.4	*	2	0510	351	92.	455.4	31.4	*	3	0325	618	82.	393.8	29.1
1	0700	85	59.	332.9	26.5	*	2	0515	352	92.	455.6	31.4	*	3	0330	619	82.	393.3	29.0
1	0705	86	59.	333.8	26.5	*	2	0520	353	92.	455.8	31.4	*	3	0335	620	81.	392.8	29.0
1	0710	87	60.	334.6	26.6	*	2	0525	354	92.	455.9	31.4	*	3	0340	621	81.	392.3	29.0
1	0715	88	60.	335.4	26.6	*	2	0530	355	92.	456.1	31.4	*	3	0345	622	81.	391.8	29.0
1	0720	89	60.	336.3	26.6	*	2	0535	356	92.	456.3	31.4	*	3	0350	623	81.	391.4	29.0
1	0725	90	61.	337.1	26.7	*	2	0540	357	92.	456.4	31.4	*	3	0355	624	81.	390.9	28.9
1	0730	91	61.	337.9	26.7	*	2	0545	358	92.	456.6	31.4	*	3	0400	625	80.	390.4	28.9
1	0735	92	61.	338.7	26.7	*	2	0550	359	92.	456.7	31.5	*	3	0405	626	80.	389.9	28.9
1	0740	93	61.	339.5	26.8	*	2	0555	360	92.	456.9	31.5	*	3	0410	627	80.	389.5	28.9
1	0745	94	62.	340.3	26.8	*	2	0600	361	92.	457.1	31.5	*	3	0415	628	80.	389.0	28.9
1	0750	95	62.	341.1	26.8	*	2	0605	362	92.	457.2	31.5	*	3	0420	629	80.	388.5	28.8
1	0755	96	62.	341.9	26.9	*	2	0610	363	92.	457.4	31.5	*	3	0425	630	80.	388.0	28.8
1	0800	97	63.	342.7	26.9	*	2	0615	364	92.	457.5	31.5	*	3	0430	631	79.	387.6	28.8
1	0805	98	63.	343.5	26.9	*	2	0620	365	92.	457.7	31.5	*	3	0435	632	79.	387.1	28.8
1	0810	99	63.	344.3	27.0	*	2	0625	366	92.	457.8	31.5	*	3	0440	633	79.	386.6	28.8
1	0815	100	64.	345.1	27.0	*	2	0630	367	92.	458.0	31.5	*	3	0445	634	79.	386.2	28.7
1	0820	101	64.	345.9	27.0	*	2	0635	368	92.	458.1	31.5	*	3	0450	635	79.	385.7	28.7
1	0825	102	64.	346.7	27.1	*	2	0640	369	92.	458.3	31.5	*	3	0455	636	79.	385.3	28.7
1	0830	103	64.	347.4	27.1	*	2	0645	370	92.	458.4	31.5	*	3	0500	637	78.	384.8	28.7
1	0835	104	65.	348.2	27.1	*	2	0650	371	92.	458.5	31.5	*	3	0505	638	78.	384.3	28.7
1	0840	105	65.	349.0	27.2	*	2	0655	372	92.	458.7	31.5	*	3	0510	639	78.	383.9	28.6
1	0845	106	65.	349.7	27.2	*	2	0700	373	92.	458.8	31.5	*	3	0515	640	78.	383.4	28.6
1	0850	107	66.	350.5	27.2	*	2	0705	374	92.	458.9	31.5	*	3	0520	641	78.	383.0	28.6
1	0855	108	66.	351.3	27.3	*	2	0710	375	92.	459.1	31.5	*	3	0525	642	78.	382.5	28.6
1	0900	109	66.	352.0	27.3	*	2	0715	376	92.	459.2	31.5	*	3	0530	643	77.	382.1	28.6
1	0905	110	66.	352.8	27.3	*	2	0720	377	92.	459.3	31.5	*	3	0535	644	77.	381.6	28.5
1	0910	111	67.	353.5	27.4	*	2	0725	378	92.	459.4	31.6	*	3	0540	645	77.	381.2	28.5
1	0915	112	67.	354.3	27.4	*	2	0730	379	92.	459.6	31.6	*	3	0545	646	77.	380.7	28.5
1	0920	113	67.	355.0	27.4	*	2	0735	380	92.	459.7	31.6	*	3	0550	647	77.	380.3	28.5

1	0925	114	68.	355.7	27.4	*	2	0740	381	92.	459.8	31.6	*	3	0555	648	77.	379.8	28.5
1	0930	115	68.	356.5	27.5	*	2	0745	382	92.	459.9	31.6	*	3	0600	649	76.	379.4	28.4
1	0935	116	68.	357.2	27.5	*	2	0750	383	92.	460.0	31.6	*	3	0605	650	76.	378.9	28.4
1	0940	117	68.	357.9	27.5	*	2	0755	384	92.	460.2	31.6	*	3	0610	651	76.	378.5	28.4
1	0945	118	69.	358.7	27.6	*	2	0800	385	92.	460.3	31.6	*	3	0615	652	76.	378.0	28.4
1	0950	119	69.	359.4	27.6	*	2	0805	386	92.	460.4	31.6	*	3	0620	653	76.	377.6	28.4
1	0955	120	69.	360.1	27.6	*	2	0810	387	92.	460.5	31.6	*	3	0625	654	76.	377.1	28.4
1	1000	121	69.	360.8	27.7	*	2	0815	388	92.	460.6	31.6	*	3	0630	655	75.	376.7	28.3
1	1005	122	70.	361.5	27.7	*	2	0820	389	92.	460.7	31.6	*	3	0635	656	75.	376.3	28.3
1	1010	123	70.	362.2	27.7	*	2	0825	390	92.	460.8	31.6	*	3	0640	657	75.	375.8	28.3
1	1015	124	70.	362.9	27.8	*	2	0830	391	92.	460.9	31.6	*	3	0645	658	75.	375.4	28.3
1	1020	125	70.	363.6	27.8	*	2	0835	392	92.	461.0	31.6	*	3	0650	659	75.	375.0	28.3
1	1025	126	71.	364.3	27.8	*	2	0840	393	92.	461.1	31.6	*	3	0655	660	75.	374.5	28.2
1	1030	127	71.	365.0	27.8	*	2	0845	394	92.	461.2	31.6	*	3	0700	661	74.	374.1	28.2
1	1035	128	71.	365.7	27.9	*	2	0850	395	92.	461.2	31.6	*	3	0705	662	74.	373.7	28.2
1	1040	129	72.	366.4	27.9	*	2	0855	396	92.	461.3	31.6	*	3	0710	663	74.	373.2	28.2
1	1045	130	72.	367.1	27.9	*	2	0900	397	92.	461.4	31.6	*	3	0715	664	74.	372.8	28.2
1	1050	131	72.	367.8	28.0	*	2	0905	398	92.	461.5	31.6	*	3	0720	665	74.	372.4	28.2
1	1055	132	72.	368.4	28.0	*	2	0910	399	92.	461.6	31.6	*	3	0725	666	74.	371.9	28.1
1	1100	133	73.	369.1	28.0	*	2	0915	400	92.	461.7	31.6	*	3	0730	667	73.	371.5	28.1
1	1105	134	73.	369.8	28.0	*	2	0920	401	92.	461.7	31.6	*	3	0735	668	73.	371.1	28.1
1	1110	135	73.	370.5	28.1	*	2	0925	402	92.	461.8	31.6	*	3	0740	669	73.	370.7	28.1
1	1115	136	73.	371.1	28.1	*	2	0930	403	92.	461.9	31.6	*	3	0745	670	73.	370.2	28.1
1	1120	137	74.	371.8	28.1	*	2	0935	404	92.	461.9	31.6	*	3	0750	671	73.	369.8	28.0
1	1125	138	74.	372.5	28.2	*	2	0940	405	92.	462.0	31.6	*	3	0755	672	73.	369.4	28.0
1	1130	139	74.	373.1	28.2	*	2	0945	406	92.	462.1	31.6	*	3	0800	673	72.	369.0	28.0
1	1135	140	74.	373.8	28.2	*	2	0950	407	92.	462.1	31.6	*	3	0805	674	72.	368.6	28.0
1	1140	141	74.	374.4	28.2	*	2	0955	408	92.	462.2	31.7	*	3	0810	675	72.	368.1	28.0
1	1145	142	75.	375.1	28.3	*	2	1000	409	92.	462.3	31.7	*	3	0815	676	72.	367.7	28.0
1	1150	143	75.	375.7	28.3	*	2	1005	410	92.	462.3	31.7	*	3	0820	677	72.	367.3	27.9
1	1155	144	75.	376.3	28.3	*	2	1010	411	92.	462.4	31.7	*	3	0825	678	72.	366.9	27.9
1	1200	145	75.	377.0	28.3	*	2	1015	412	92.	462.4	31.7	*	3	0830	679	72.	366.5	27.9
1	1205	146	76.	377.6	28.4	*	2	1020	413	92.	462.5	31.7	*	3	0835	680	71.	366.1	27.9
1	1210	147	76.	378.2	28.4	*	2	1025	414	92.	462.5	31.7	*	3	0840	681	71.	365.7	27.9
1	1215	148	76.	378.9	28.4	*	2	1030	415	92.	462.6	31.7	*	3	0845	682	71.	365.2	27.8
1	1220	149	76.	379.5	28.5	*	2	1035	416	92.	462.6	31.7	*	3	0850	683	71.	364.8	27.8
1	1225	150	77.	380.1	28.5	*	2	1040	417	92.	462.7	31.7	*	3	0855	684	71.	364.4	27.8
1	1230	151	77.	380.7	28.5	*	2	1045	418	92.	462.7	31.7	*	3	0900	685	71.	364.0	27.8
1	1235	152	77.	381.4	28.5	*	2	1050	419	92.	462.8	31.7	*	3	0905	686	70.	363.6	27.8
1	1240	153	77.	382.0	28.6	*	2	1055	420	92.	462.8	31.7	*	3	0910	687	70.	363.2	27.8
1	1245	154	78.	382.6	28.6	*	2	1100	421	92.	462.8	31.7	*	3	0915	688	70.	362.8	27.7
1	1250	155	78.	383.2	28.6	*	2	1105	422	92.	462.9	31.7	*	3	0920	689	70.	362.4	27.7
1	1255	156	78.	383.8	28.6	*	2	1110	423	92.	462.9	31.7	*	3	0925	690	70.	362.0	27.7
1	1300	157	78.	384.4	28.7	*	2	1115	424	92.	462.9	31.7	*	3	0930	691	70.	361.6	27.7
1	1305	158	78.	385.0	28.7	*	2	1120	425	92.	462.9	31.7	*	3	0935	692	70.	361.2	27.7
1	1310	159	79.	385.6	28.7	*	2	1125	426	92.	463.0	31.7	*	3	0940	693	69.	360.8	27.7
1	1315	160	79.	386.2	28.7	*	2	1130	427	92.	463.0	31.7	*	3	0945	694	69.	360.4	27.6
1	1320	161	79.	386.8	28.8	*	2	1135	428	92.	463.0	31.7	*	3	0950	695	69.	360.0	27.6
1	1325	162	79.	387.3	28.8	*	2	1140	429	92.	463.0	31.7	*	3	0955	696	69.	359.6	27.6
1	1330	163	80.	387.9	28.8	*	2	1145	430	92.	463.0	31.7	*	3	1000	697	69.	359.2	27.6
1	1335	164	80.	388.5	28.8	*	2	1150	431	92.	463.0	31.7	*	3	1005	698	69.	358.8	27.6
1	1340	165	80.	389.1	28.9	*	2	1155	432	92.	463.0	31.7	*	3	1010	699	69.	358.4	27.6
1	1345	166	80.	389.6	28.9	*	2	1200	433	92.	463.0	31.7	*	3	1015	700	68.	358.0	27.5
1	1350	167	80.	390.2	28.9	*	2	1205	434	92.	463.0	31.7	*	3	1020	701	68.	357.6	27.5
1	1355	168	81.	390.8	28.9	*	2	1210	435	92.	463.0	31.7	*	3	1025	702	68.	357.2	27.5
1	1400	169	81.	391.3	29.0	*	2	1215	436	92.	463.0	31.7	*	3	1030	703	68.	356.8	27.5
1	1405	170	81.	391.9	29.0	*	2	1220	437	92.	463.0	31.7	*	3	1035	704	68.	356.5	27.5
1	1410	171	81.	392.5	29.0	*	2	1225	438	92.	463.0	31.7	*	3	1040	705	68.	356.1	27.5
1	1415	172	81.	393.0	29.0	*	2	1230	439	92.	463.0	31.7	*	3	1045	706	68.	355.7	27.4
1	1420	173	82.	393.6	29.0	*	2	1235	440	92.	463.0	31.7	*	3	1050	707	67.	355.3	27.4
1	1425	174	82.	394.1	29.1	*	2	1240	441	92.	462.9	31.7	*	3	1055	708	67.	354.9	27.4
1	1430	175	82.	394.7	29.1	*	2	1245	442	92.	462.9	31.7	*	3	1100	709	67.	354.5	27.4
1	1435	176	82.	395.2	29.1	*	2	1250	443	92.	462.9	31.7	*	3	1105	710	67.	354.1	27.4
1	1440	177	82.	395.7	29.1	*	2	1255	444	92.	462.9	31.7	*	3	1110	711	67.	353.8	27.4
1	1445	178	83.	396.3	29.2	*	2	1300	445	92.	462.8	31.7	*	3	1115	712	67.	353.4	27.3
1	1450	179	83.	396.8	29.2	*	2	1305	446	92.	462.8	31.7	*	3	1120	713	67.	353.0	27.3
1	1455	180	83.	397.3	29.2	*	2	1310	447	92.	462.8	31.7	*	3	1125	714	66.	352.6	27.3
1	1500	181	83.	397.9	29.2	*	2	1315	448	92.	462.7	31.7	*	3	1130	715	66.	352.2	27.3
1	1505	182	83.	398.4	29.3	*	2	1320	449	92.	462.7	31.7	*	3	1135	716	66.	351.9	27.3
1	1510	183	84.	398.9	29.3	*	2	1325	450	92.	462.7	31.7	*	3	1140	717	66.	351.5	27.3
1	1515	184	84.	399.4	29.3	*	2	1330	451	92.	462.6	31.7	*	3	1145	718	66.	351.1	27.3
1	1520	185	84.	400.0	29.3	*	2	1335	452	92.	462.6	31.7	*	3	1150	719	66.	350.7	27.2
1	1525	186	84.	400.5	29.3	*	2	1340	453	92.	462.5	31.7	*	3	1155	720	66.	350.4	27.2
1	1530	187	84.	401.0	29.4	*	2	1345	454	92.	462.5	31.7	*	3	1200	721	65.	350.0	27.2
1	1535	188	85.	401.5	29.4	*	2	1350	455	92.	462.4	31.7	*	3	1205	722	65.	349.6	27.2
1	1540	189	85.	402.0	29.4	*	2	1355	456	92.	462.4	31.7	*	3	1210	723	65.	349.3	27.2
1	1545	190	85.	402.5	29.4	*	2	1400	457	92.	462.3	31.7	*	3	1215	724	65.	348.9	27.2
1	1550	191	85.	403.0	29.4	*	2	1405	458	92.	462.2	31.7	*	3	1220	725	65.	348.5	27.1
1	1555	192	85.	403.5	29.5	*	2	1410	459	92.	462.2	31.6	*	3	1225	726	65.	348.1	27.1
1	1600	193	86.	404.0	29.5	*	2	1415	460	92.	462.1	31.6	*	3	1230	727	65.	347.8	27.1
1	1605	194	86.	404.5	29.5	*	2	1420	461	92.	462.0	31.6	*	3	1235	728	64.	347.4	27.1
1	1610	195	86.	405.0	29.5	*	2	1425	462	92.	461.9	31.6	*	3	1240	729	64.	347.0	27.1
1	1615	196	86.	405.5	29.6	*	2	1430	463	92.	461.9	31.6	*	3	1245	730	64.	346.7	27.1
1	1620	197	86.	405.9	29.6	*	2	1435	464	92.	461.8	31.6	*	3	1250	731	64.	346.3	27.0
1	1625	198	86.	406.4	29.6	*	2	1440	465	92.	461.7	31.6	*	3	1255	732	64.	346.0	27.0
1	1630	199	87.	406.9	29.6	*	2	1445	466	92.	461.6	31.6	*	3	1300	733	64.	345.6	27.0
1	1635	200	87.	407.4	29.6	*	2	1450	467	92.	461.5	31.6	*	3	1305	734	64.	345.2	27.0
1	1640	201	87.	407.8	29.7	*	2	1455	468	92.	461.3	31.6	*	3	1310	735	63.	344.9	27.0
1	1645	202	87.	408.3	29.7	*	2	1500	469	92.	461.2	31.6	*	3	1315	736	63.	344.5	27.0
1	1650	203	87.	408.8	29.7	*	2	1505	470	92.	461.1	31.6	*	3	1320	737	63.	344.2	27.0
1	1655	204	87.	409.2	29.7	*	2	1510	471	92.	461.0	31.6	*	3	1325	738	63.	343.8	26.9
1	1700	205	88.	409.7	29.7	*	2	1515	472	92.	460.9	31.6	*	3	1330	739	63.	343.4	26.9
1	1705	206	88.	410.2	29.8	*	2	1520	473	92.	460.7	31.6	*	3	1335	740	63.	343.1	26.9
1	1710	207	88.	410.6	29.8	*	2	1525	474	92.	460.6	31.6	*	3	1340	741	63.	342.7	26.9
1	1715	208	88.	411.1	29.8	*	2	1530	475	92.	460.5	31.6	*	3	1345	742	63.	342.4	26.9

1	1720	209	88.	411.5	29.8	2	1535	476	92.	460.3	31.6	3	1350	743	62.	342.0	26.9		
1	1725	210	88.	412.0	29.8	2	1540	477	92.	460.2	31.6	3	1355	744	62.	341.7	26.9		
1	1730	211	89.	412.4	29.8	2	1545	478	92.	460.0	31.6	3	1400	745	62.	341.3	26.8		
1	1735	212	89.	412.8	29.9	2	1550	479	92.	459.9	31.6	3	1405	746	62.	341.0	26.8		
1	1740	213	89.	413.3	29.9	2	1555	480	92.	459.7	31.6	3	1410	747	62.	340.6	26.8		
1	1745	214	89.	413.7	29.9	2	1600	481	92.	459.5	31.6	3	1415	748	62.	340.3	26.8		
1	1750	215	89.	414.1	29.9	2	1605	482	92.	459.4	31.5	3	1420	749	62.	339.9	26.8		
1	1755	216	89.	414.6	29.9	2	1610	483	92.	459.2	31.5	3	1425	750	62.	339.6	26.8		
1	1800	217	90.	415.0	30.0	2	1615	484	92.	459.0	31.5	3	1430	751	61.	339.2	26.7		
1	1805	218	90.	415.4	30.0	2	1620	485	92.	458.9	31.5	3	1435	752	61.	338.9	26.7		
1	1810	219	90.	415.9	30.0	2	1625	486	92.	458.7	31.5	3	1440	753	61.	338.6	26.7		
1	1815	220	90.	416.3	30.0	2	1630	487	92.	458.5	31.5	3	1445	754	61.	338.2	26.7		
1	1820	221	90.	416.7	30.0	2	1635	488	92.	458.3	31.5	3	1450	755	61.	337.9	26.7		
1	1825	222	90.	417.1	30.0	2	1640	489	92.	458.0	31.5	3	1455	756	61.	337.5	26.7		
1	1830	223	90.	417.5	30.1	2	1645	490	92.	457.8	31.5	3	1500	757	61.	337.2	26.7		
1	1835	224	90.	417.9	30.1	2	1650	491	92.	457.6	31.5	3	1505	758	60.	336.9	26.6		
1	1840	225	90.	418.3	30.1	2	1655	492	92.	457.3	31.5	3	1510	759	60.	336.5	26.6		
1	1845	226	90.	418.7	30.1	2	1700	493	92.	457.0	31.5	3	1515	760	60.	336.2	26.6		
1	1850	227	90.	419.2	30.1	2	1705	494	92.	456.7	31.5	3	1520	761	60.	335.8	26.6		
1	1855	228	90.	419.6	30.1	2	1710	495	92.	456.5	31.4	3	1525	762	60.	335.5	26.6		
1	1900	229	90.	420.0	30.1	2	1715	496	92.	456.1	31.4	3	1530	763	60.	335.2	26.6		
1	1905	230	90.	420.4	30.2	2	1720	497	92.	455.8	31.4	3	1535	764	60.	334.8	26.6		
1	1910	231	90.	420.8	30.2	2	1725	498	92.	455.5	31.4	3	1540	765	60.	334.5	26.5		
1	1915	232	90.	421.2	30.2	2	1730	499	92.	455.2	31.4	3	1545	766	59.	334.2	26.5		
1	1920	233	90.	421.6	30.2	2	1735	500	92.	454.8	31.4	3	1550	767	59.	333.8	26.5		
1	1925	234	90.	422.0	30.2	2	1740	501	92.	454.5	31.4	3	1555	768	59.	333.5	26.5		
1	1930	235	90.	422.3	30.2	2	1745	502	92.	454.1	31.4	3	1600	769	59.	333.2	26.5		
1	1935	236	90.	422.7	30.2	2	1750	503	92.	453.8	31.3	3	1605	770	59.	332.8	26.5		
1	1940	237	90.	423.1	30.3	2	1755	504	92.	453.4	31.3	3	1610	771	59.	332.5	26.5		
1	1945	238	90.	423.5	30.3	2	1800	505	92.	453.0	31.3	3	1615	772	59.	332.2	26.4		
1	1950	239	90.	423.9	30.3	2	1805	506	92.	452.6	31.3	3	1620	773	59.	331.9	26.4		
1	1955	240	90.	424.3	30.3	2	1810	507	92.	452.2	31.3	3	1625	774	59.	331.5	26.4		
1	2000	241	90.	424.7	30.3	2	1815	508	92.	451.7	31.3	3	1630	775	58.	331.2	26.4		
1	2005	242	90.	425.0	30.3	2	1820	509	92.	451.3	31.3	3	1635	776	58.	330.9	26.4		
1	2010	243	90.	425.4	30.3	2	1825	510	92.	450.8	31.2	3	1640	777	58.	330.6	26.4		
1	2015	244	90.	425.8	30.3	2	1830	511	92.	450.3	31.2	3	1645	778	58.	330.2	26.4		
1	2020	245	91.	426.2	30.4	2	1835	512	92.	449.8	31.2	3	1650	779	58.	329.9	26.4		
1	2025	246	91.	426.5	30.4	2	1840	513	92.	449.2	31.2	3	1655	780	58.	329.6	26.3		
1	2030	247	91.	426.9	30.4	2	1845	514	92.	448.7	31.2	3	1700	781	58.	329.3	26.3		
1	2035	248	91.	427.3	30.4	2	1850	515	92.	448.2	31.1	3	1705	782	58.	329.0	26.3		
1	2040	249	91.	427.6	30.4	2	1855	516	92.	447.7	31.1	3	1710	783	57.	328.6	26.3		
1	2045	250	91.	428.0	30.4	2	1900	517	92.	447.1	31.1	3	1715	784	57.	328.3	26.3		
1	2050	251	91.	428.4	30.4	2	1905	518	92.	446.6	31.1	3	1720	785	57.	328.0	26.3		
1	2055	252	91.	428.7	30.5	2	1910	519	92.	446.1	31.1	3	1725	786	57.	327.7	26.3		
1	2100	253	91.	429.1	30.5	2	1915	520	91.	445.5	31.1	3	1730	787	57.	327.4	26.2		
1	2105	254	91.	429.5	30.5	2	1920	521	91.	445.0	31.0	3	1735	788	57.	327.1	26.2		
1	2110	255	91.	429.8	30.5	2	1925	522	91.	444.4	31.0	3	1740	789	57.	326.7	26.2		
1	2115	256	91.	430.2	30.5	2	1930	523	91.	443.9	31.0	3	1745	790	57.	326.4	26.2		
1	2120	257	91.	430.5	30.5	2	1935	524	91.	443.3	31.0	3	1750	791	56.	326.1	26.2		
1	2125	258	91.	430.9	30.5	2	1940	525	91.	442.8	31.0	3	1755	792	56.	325.8	26.2		
1	2130	259	91.	431.2	30.5	2	1945	526	91.	442.2	30.9	3	1800	793	56.	325.5	26.2		
1	2135	260	91.	431.6	30.6	2	1950	527	91.	441.7	30.9	3	1805	794	56.	325.2	26.2		
1	2140	261	91.	431.9	30.6	2	1955	528	91.	441.2	30.9	3	1810	795	56.	324.9	26.1		
1	2145	262	91.	432.3	30.6	2	2000	529	91.	440.6	30.9	3	1815	796	56.	324.6	26.1		
1	2150	263	91.	432.6	30.6	2	2005	530	91.	440.1	30.9	3	1820	797	56.	324.3	26.1		
1	2155	264	91.	432.9	30.6	2	2010	531	91.	439.5	30.8	3	1825	798	56.	324.0	26.1		
1	2200	265	91.	433.3	30.6	2	2015	532	91.	439.0	30.8	3	1830	799	56.	323.6	26.1		
1	2205	266	91.	433.6	30.6	2	2020	533	91.	438.4	30.8	3	1835	800	55.	323.3	26.1		
1	2210	267	91.	433.9	30.6	2	2025	534	91.	437.9	30.8								

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	66.58-HR
(CFS)	(HR)					
		(CFS)				
92.	35.92		92.	92.	77.	77.
		(INCHES)	.082	.326	.756	.756
		(AC-FT)	46.	182.	422.	422.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	66.58-HR
(AC-FT)	(HR)				
463.	36.00	462.	453.	380.	380.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	66.58-HR
(FEET)	(HR)				
31.68	36.00	31.66	31.31	27.89	27.89

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = .91

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	.0	1	2215		268	90.	424.7	30.3	2	2030		535	90.	419.8	30.1
1	0005		2	0.	.0	.0	1	2220		269	90.	425.0	30.3	2	2035		536	90.	419.3	30.1
1	0010		3	0.	.0	.0	1	2225		270	90.	425.3	30.3	2	2040		537	90.	418.7	30.1

1	0015	4	0.	.0	.0	*	1	2230	271	90.	425.6	30.3	*	2	2045	538	90.	418.2	30.1
1	0020	5	0.	.0	.0	*	1	2235	272	90.	425.9	30.4	*	2	2050	539	90.	417.6	30.1
1	0025	6	0.	.0	.0	*	1	2240	273	91.	426.2	30.4	*	2	2055	540	90.	417.1	30.0
1	0030	7	0.	.1	.0	*	1	2245	274	91.	426.5	30.4	*	2	2100	541	90.	416.5	30.0
1	0035	8	0.	.3	.1	*	1	2250	275	91.	426.8	30.4	*	2	2105	542	90.	416.0	30.0
1	0040	9	1.	.5	.2	*	1	2255	276	91.	427.1	30.4	*	2	2110	543	90.	415.5	30.0
1	0045	10	1.	.7	.2	*	1	2300	277	91.	427.4	30.4	*	2	2115	544	90.	414.9	30.0
1	0050	11	1.	.8	.3	*	1	2305	278	91.	427.7	30.4	*	2	2120	545	89.	414.4	29.9
1	0055	12	1.	1.0	.3	*	1	2310	279	91.	428.0	30.4	*	2	2125	546	89.	413.9	29.9
1	0100	13	2.	1.1	.4	*	1	2315	280	91.	428.3	30.4	*	2	2130	547	89.	413.3	29.9
1	0105	14	2.	1.3	.4	*	1	2320	281	91.	428.6	30.5	*	2	2135	548	89.	412.8	29.9
1	0110	15	2.	1.5	.5	*	1	2325	282	91.	428.9	30.5	*	2	2140	549	89.	412.3	29.8
1	0115	16	2.	1.7	.6	*	1	2330	283	91.	429.2	30.5	*	2	2145	550	88.	411.7	29.8
1	0120	17	3.	2.0	.7	*	1	2335	284	91.	429.5	30.5	*	2	2150	551	88.	411.2	29.8
1	0125	18	3.	2.3	.8	*	1	2340	285	91.	429.8	30.5	*	2	2155	552	88.	410.7	29.8
1	0130	19	4.	2.7	.9	*	1	2345	286	91.	430.1	30.5	*	2	2200	553	88.	410.1	29.8
1	0135	20	5.	3.3	1.1	*	1	2350	287	91.	430.3	30.5	*	2	2205	554	88.	409.6	29.7
1	0140	21	6.	4.0	1.3	*	1	2355	288	91.	430.6	30.5	*	2	2210	555	87.	409.1	29.7
1	0145	22	7.	4.9	1.6	*	2	0000	289	91.	430.9	30.5	*	2	2215	556	87.	408.6	29.7
1	0150	23	8.	5.8	1.9	*	2	0005	290	91.	431.2	30.5	*	2	2220	557	87.	408.0	29.7
1	0155	24	9.	6.7	2.2	*	2	0010	291	91.	431.4	30.6	*	2	2225	558	87.	407.5	29.6
1	0200	25	11.	7.5	2.5	*	2	0015	292	91.	431.7	30.6	*	2	2230	559	87.	407.0	29.6
1	0205	26	12.	8.3	2.8	*	2	0020	293	91.	432.0	30.6	*	2	2235	560	86.	406.5	29.6
1	0210	27	13.	9.0	3.0	*	2	0025	294	91.	432.3	30.6	*	2	2240	561	86.	406.0	29.6
1	0215	28	14.	9.8	3.3	*	2	0030	295	91.	432.5	30.6	*	2	2245	562	86.	405.5	29.6
1	0220	29	15.	10.9	3.6	*	2	0035	296	91.	432.8	30.6	*	2	2250	563	86.	404.9	29.5
1	0225	30	17.	12.2	4.1	*	2	0040	297	91.	433.0	30.6	*	2	2255	564	86.	404.4	29.5
1	0230	31	19.	13.7	4.6	*	2	0045	298	91.	433.3	30.6	*	2	2300	565	85.	403.9	29.5
1	0235	32	21.	15.3	5.1	*	2	0050	299	91.	433.6	30.6	*	2	2305	566	85.	403.4	29.5
1	0240	33	22.	16.8	5.4	*	2	0055	300	91.	433.8	30.6	*	2	2310	567	85.	402.9	29.4
1	0245	34	22.	18.4	5.8	*	2	0100	301	91.	434.1	30.6	*	2	2315	568	85.	402.4	29.4
1	0250	35	23.	20.1	6.2	*	2	0105	302	91.	434.3	30.7	*	2	2320	569	85.	401.9	29.4
1	0255	36	24.	21.8	6.6	*	2	0110	303	91.	434.6	30.7	*	2	2325	570	85.	401.4	29.4
1	0300	37	24.	23.5	6.9	*	2	0115	304	91.	434.8	30.7	*	2	2330	571	84.	400.9	29.4
1	0305	38	25.	25.2	7.3	*	2	0120	305	91.	435.1	30.7	*	2	2335	572	84.	400.4	29.3
1	0310	39	26.	27.6	7.9	*	2	0125	306	91.	435.3	30.7	*	2	2340	573	84.	399.9	29.3
1	0315	40	28.	31.2	8.7	*	2	0130	307	91.	435.6	30.7	*	2	2345	574	84.	399.4	29.3
1	0320	41	30.	37.2	10.0	*	2	0135	308	91.	435.8	30.7	*	2	2350	575	84.	398.9	29.3
1	0325	42	31.	47.3	11.0	*	2	0140	309	91.	436.1	30.7	*	2	2355	576	83.	398.4	29.3
1	0330	43	33.	63.1	12.5	*	2	0145	310	91.	436.3	30.7	*	3	0000	577	83.	397.9	29.2
1	0335	44	36.	84.5	14.5	*	2	0150	311	91.	436.5	30.7	*	3	0005	578	83.	397.4	29.2
1	0340	45	38.	108.8	16.2	*	2	0155	312	91.	436.8	30.7	*	3	0010	579	83.	396.9	29.2
1	0345	46	40.	132.9	17.7	*	2	0200	313	91.	437.0	30.7	*	3	0015	580	83.	396.4	29.2
1	0350	47	41.	154.6	19.0	*	2	0205	314	91.	437.2	30.8	*	3	0020	581	83.	395.9	29.1
1	0355	48	42.	172.8	20.1	*	2	0210	315	91.	437.5	30.8	*	3	0025	582	82.	395.4	29.1
1	0400	49	43.	187.6	20.7	*	2	0215	316	91.	437.7	30.8	*	3	0030	583	82.	395.0	29.1
1	0405	50	43.	199.7	21.2	*	2	0220	317	91.	437.9	30.8	*	3	0035	584	82.	394.5	29.1
1	0410	51	43.	209.6	21.5	*	2	0225	318	91.	438.1	30.8	*	3	0040	585	82.	394.0	29.1
1	0415	52	43.	217.5	21.9	*	2	0230	319	91.	438.4	30.8	*	3	0045	586	82.	393.5	29.0
1	0420	53	44.	224.0	22.1	*	2	0235	320	91.	438.6	30.8	*	3	0050	587	81.	393.0	29.0
1	0425	54	44.	229.6	22.3	*	2	0240	321	91.	438.8	30.8	*	3	0055	588	81.	392.5	29.0
1	0430	55	44.	235.0	22.5	*	2	0245	322	91.	439.0	30.8	*	3	0100	589	81.	392.1	29.0
1	0435	56	44.	240.6	22.8	*	2	0250	323	91.	439.2	30.8	*	3	0105	590	81.	391.6	29.0
1	0440	57	44.	246.8	23.0	*	2	0255	324	91.	439.4	30.8	*	3	0110	591	81.	391.1	28.9
1	0445	58	45.	253.4	23.3	*	2	0300	325	91.	439.6	30.8	*	3	0115	592	81.	390.6	28.9
1	0450	59	45.	260.2	23.5	*	2	0305	326	91.	439.9	30.9	*	3	0120	593	80.	390.1	28.9
1	0455	60	45.	267.1	23.8	*	2	0310	327	91.	440.1	30.9	*	3	0125	594	80.	389.7	28.9
1	0500	61	45.	273.8	24.1	*	2	0315	328	91.	440.3	30.9	*	3	0130	595	80.	389.2	28.9
1	0505	62	45.	280.0	24.3	*	2	0320	329	91.	440.5	30.9	*	3	0135	596	80.	388.7	28.8
1	0510	63	46.	285.4	24.5	*	2	0325	330	91.	440.7	30.9	*	3	0140	597	80.	388.3	28.8
1	0515	64	46.	290.0	24.7	*	2	0330	331	91.	440.9	30.9	*	3	0145	598	79.	387.8	28.8
1	0520	65	46.	293.8	24.8	*	2	0335	332	91.	441.1	30.9	*	3	0150	599	79.	387.3	28.8
1	0525	66	46.	296.9	25.0	*	2	0340	333	91.	441.3	30.9	*	3	0155	600	79.	386.8	28.8
1	0530	67	47.	299.5	25.1	*	2	0345	334	91.	441.5	30.9	*	3	0200	601	79.	386.4	28.7
1	0535	68	47.	301.8	25.2	*	2	0350	335	91.	441.6	30.9	*	3	0205	602	79.	385.9	28.7
1	0540	69	48.	303.8	25.2	*	2	0355	336	91.	441.8	30.9	*	3	0210	603	79.	385.5	28.7
1	0545	70	49.	305.5	25.3	*	2	0400	337	91.	442.0	30.9	*	3	0215	604	78.	385.0	28.7
1	0550	71	49.	307.2	25.4	*	2	0405	338	91.	442.2	30.9	*	3	0220	605	78.	384.5	28.7
1	0555	72	50.	308.8	25.5	*	2	0410	339	91.	442.4	30.9	*	3	0225	606	78.	384.1	28.6
1	0600	73	51.	310.3	25.5	*	2	0415	340	91.	442.6	30.9	*	3	0230	607	78.	383.6	28.6
1	0605	74	51.	311.8	25.6	*	2	0420	341	91.	442.7	31.0	*	3	0235	608	78.	383.2	28.6
1	0610	75	52.	313.1	25.6	*	2	0425	342	91.	442.9	31.0	*	3	0240	609	78.	382.7	28.6
1	0615	76	52.	314.4	25.7	*	2	0430	343	91.	443.1	31.0	*	3	0245	610	77.	382.2	28.6
1	0620	77	53.	315.5	25.7	*	2	0435	344	91.	443.3	31.0	*	3	0250	611	77.	381.8	28.6
1	0625	78	53.	316.6	25.8	*	2	0440	345	91.	443.4	31.0	*	3	0255	612	77.	381.3	28.5
1	0630	79	53.	317.6	25.8	*	2	0445	346	91.	443.6	31.0	*	3	0300	613	77.	380.9	28.5
1	0635	80	54.	318.5	25.9	*	2	0450	347	91.	443.8	31.0	*	3	0305	614	77.	380.4	28.5
1	0640	81	54.	319.5	25.9	*	2	0455	348	91.	443.9	31.0	*	3	0310	615	77.	380.0	28.5
1	0645	82	54.	320.4	25.9	*	2	0500	349	91.	444.1	31.0	*	3	0315	616	76.	379.5	28.5
1	0650	83	55.	321.2	26.0	*	2	0505	350	91.	444.3	31.0	*	3	0320	617	76.	379.1	28.4
1	0655	84	55.	322.1	26.0	*	2	0510	351	91.	444.4	31.0	*	3	0325	618	76.	378.6	28.4
1	0700	85	55.	322.9	26.1	*	2	0515	352	91.	444.6	31.0	*	3	0330	619	76.	378.2	28.4
1	0705	86	56.	323.8	26.1	*	2	0520	353	91.	444.7	31.0	*	3	0335	620	76.	377.7	28.4
1	0710	87	56.	324.6	26.1	*	2	0525	354	91.	444.9	31.0	*	3	0340	621	76.	377.3	28.4
1	0715	88	56.	325.5	26.2	*	2	0530	355	91.	445.1	31.0	*	3	0345	622	75.	376.9	28.3
1	0720	89	57.	326.3	26.2	*	2	0535	356	91.	445.2	31.0	*	3	0350	623	75.	376.4	28.3
1	0725	90	57.	327.1	26.2	*	2	0540	357	91.	445.4	31.0	*	3	0355	624	75.	376.0	28.3
1	0730	91	57.	328.0	26.3	*	2	0545	358	91.	445.5	31.1	*	3	0400	625	75.	375.5	28.3
1	0735	92	57.	328.8	26.3	*	2	0550	359	91.	445.6	31.1	*	3	0405	626	75.	375.1	28.3
1	0740	93	58.	329.6	26.3	*	2	0555	360	91.	445.8	31.1	*	3	0410	627	75.	374.7	28.2
1	0745	94	58.	330.4	26.4	*	2	0600	361	91.	445.9	31.1	*	3	0415	628	74.	374.2	28.2
1	0750	95	58.	331.2	26.4	*	2	0605	362	92.	446.1	31.1	*	3	0420	629	74.	373.8	28.2
1	0755	96	59.	332.0	26.4	*	2	0610	363	92.	446.2	31.1	*	3	0425	630	74.	373.4	28.2
1	0800	97	59.	332.8	26.5	*	2	0615	364	92.	446.3	31.1	*	3	0430	631	74.	372.9	28.2
1	0805	98	59.	333.6	26.5	*	2	0620	365	92.	446.5	31.1	*	3	0435	632	74.	372.5	28.2

1	0810 99	60.	334.4	26.5 *	2	0625 366	92.	446.6	31.1 *	3	0440 633	74.	372.1	28.1
1	0815 100	60.	335.2	26.6 *	2	0630 367	92.	446.7	31.1 *	3	0445 634	73.	371.6	28.1
1	0820 101	60.	336.0	26.6 *	2	0635 368	92.	446.9	31.1 *	3	0450 635	73.	371.2	28.1
1	0825 102	60.	336.8	26.6 *	2	0640 369	92.	447.0	31.1 *	3	0455 636	73.	370.8	28.1
1	0830 103	61.	337.6	26.7 *	2	0645 370	92.	447.1	31.1 *	3	0500 637	73.	370.4	28.1
1	0835 104	61.	338.4	26.7 *	2	0650 371	92.	447.2	31.1 *	3	0505 638	73.	369.9	28.0
1	0840 105	61.	339.2	26.7 *	2	0655 372	92.	447.3	31.1 *	3	0510 639	73.	369.5	28.0
1	0845 106	62.	339.9	26.8 *	2	0700 373	92.	447.5	31.1 *	3	0515 640	73.	369.1	28.0
1	0850 107	62.	340.7	26.8 *	2	0705 374	92.	447.6	31.1 *	3	0520 641	72.	368.7	28.0
1	0855 108	62.	341.5	26.8 *	2	0710 375	92.	447.7	31.1 *	3	0525 642	72.	368.2	28.0
1	0900 109	62.	342.2	26.9 *	2	0715 376	92.	447.8	31.1 *	3	0530 643	72.	367.8	28.0
1	0905 110	63.	343.0	26.9 *	2	0720 377	92.	447.9	31.1 *	3	0535 644	72.	367.4	27.9
1	0910 111	63.	343.7	26.9 *	2	0725 378	92.	448.0	31.1 *	3	0540 645	72.	367.0	27.9
1	0915 112	63.	344.5	27.0 *	2	0730 379	92.	448.1	31.1 *	3	0545 646	72.	366.6	27.9
1	0920 113	64.	345.2	27.0 *	2	0735 380	92.	448.2	31.2 *	3	0550 647	71.	366.2	27.9
1	0925 114	64.	346.0	27.0 *	2	0740 381	92.	448.3	31.2 *	3	0555 648	71.	365.7	27.9
1	0930 115	64.	346.7	27.1 *	2	0745 382	92.	448.4	31.2 *	3	0600 649	71.	365.3	27.9
1	0935 116	64.	347.5	27.1 *	2	0750 383	92.	448.5	31.2 *	3	0605 650	71.	364.9	27.8
1	0940 117	65.	348.2	27.1 *	2	0755 384	92.	448.6	31.2 *	3	0610 651	71.	364.5	27.8
1	0945 118	65.	348.9	27.2 *	2	0800 385	92.	448.7	31.2 *	3	0615 652	71.	364.1	27.8
1	0950 119	65.	349.7	27.2 *	2	0805 386	92.	448.8	31.2 *	3	0620 653	70.	363.7	27.8
1	0955 120	66.	350.4	27.2 *	2	0810 387	92.	448.9	31.2 *	3	0625 654	70.	363.3	27.8
1	1000 121	66.	351.1	27.3 *	2	0815 388	92.	449.0	31.2 *	3	0630 655	70.	362.9	27.7
1	1005 122	66.	351.8	27.3 *	2	0820 389	92.	449.0	31.2 *	3	0635 656	70.	362.5	27.7
1	1010 123	66.	352.5	27.3 *	2	0825 390	92.	449.1	31.2 *	3	0640 657	70.	362.1	27.7
1	1015 124	67.	353.3	27.3 *	2	0830 391	92.	449.2	31.2 *	3	0645 658	70.	361.7	27.7
1	1020 125	67.	354.0	27.4 *	2	0835 392	92.	449.3	31.2 *	3	0650 659	70.	361.3	27.7
1	1025 126	67.	354.7	27.4 *	2	0840 393	92.	449.3	31.2 *	3	0655 660	69.	360.9	27.7
1	1030 127	67.	355.4	27.4 *	2	0845 394	92.	449.4	31.2 *	3	0700 661	69.	360.5	27.6
1	1035 128	68.	356.1	27.5 *	2	0850 395	92.	449.5	31.2 *	3	0705 662	69.	360.1	27.6
1	1040 129	68.	356.8	27.5 *	2	0855 396	92.	449.6	31.2 *	3	0710 663	69.	359.7	27.6
1	1045 130	68.	357.5	27.5 *	2	0900 397	92.	449.6	31.2 *	3	0715 664	69.	359.3	27.6
1	1050 131	68.	358.2	27.5 *	2	0905 398	92.	449.7	31.2 *	3	0720 665	69.	358.9	27.6
1	1055 132	69.	358.8	27.6 *	2	0910 399	92.	449.8	31.2 *	3	0725 666	69.	358.5	27.6
1	1100 133	69.	359.5	27.6 *	2	0915 400	92.	449.8	31.2 *	3	0730 667	68.	358.1	27.5
1	1105 134	69.	360.2	27.6 *	2	0920 401	92.	449.9	31.2 *	3	0735 668	68.	357.7	27.5
1	1110 135	69.	360.9	27.7 *	2	0925 402	92.	449.9	31.2 *	3	0740 669	68.	357.3	27.5
1	1115 136	70.	361.6	27.7 *	2	0930 403	92.	450.0	31.2 *	3	0745 670	68.	356.9	27.5
1	1120 137	70.	362.2	27.7 *	2	0935 404	92.	450.0	31.2 *	3	0750 671	68.	356.5	27.5
1	1125 138	70.	362.9	27.7 *	2	0940 405	92.	450.1	31.2 *	3	0755 672	68.	356.1	27.5
1	1130 139	70.	363.6	27.8 *	2	0945 406	92.	450.1	31.2 *	3	0800 673	68.	355.7	27.4
1	1135 140	71.	364.2	27.8 *	2	0950 407	92.	450.2	31.2 *	3	0805 674	67.	355.3	27.4
1	1140 141	71.	364.9	27.8 *	2	0955 408	92.	450.2	31.2 *	3	0810 675	67.	355.0	27.4
1	1145 142	71.	365.5	27.9 *	2	1000 409	92.	450.3	31.2 *	3	0815 676	67.	354.6	27.4
1	1150 143	71.	366.2	27.9 *	2	1005 410	92.	450.3	31.2 *	3	0820 677	67.	354.2	27.4
1	1155 144	72.	366.8	27.9 *	2	1010 411	92.	450.3	31.2 *	3	0825 678	67.	353.8	27.4
1	1200 145	72.	367.5	27.9 *	2	1015 412	92.	450.4	31.2 *	3	0830 679	67.	353.4	27.3
1	1205 146	72.	368.1	28.0 *	2	1020 413	92.	450.4	31.2 *	3	0835 680	67.	353.0	27.3
1	1210 147	72.	368.7	28.0 *	2	1025 414	92.	450.4	31.2 *	3	0840 681	66.	352.7	27.3
1	1215 148	73.	369.4	28.0 *	2	1030 415	92.	450.5	31.2 *	3	0845 682	66.	352.3	27.3
1	1220 149	73.	370.0	28.1 *	2	1035 416	92.	450.5	31.2 *	3	0850 683	66.	351.9	27.3
1	1225 150	73.	370.6	28.1 *	2	1040 417	92.	450.5	31.2 *	3	0855 684	66.	351.5	27.3
1	1230 151	73.	371.3	28.1 *	2	1045 418	92.	450.5	31.2 *	3	0900 685	66.	351.1	27.3
1	1235 152	74.	371.9	28.1 *	2	1050 419	92.	450.5	31.2 *	3	0905 686	66.	350.8	27.2
1	1240 153	74.	372.5	28.2 *	2	1055 420	92.	450.5	31.2 *	3	0910 687	66.	350.4	27.2
1	1245 154	74.	373.1	28.2 *	2	1100 421	92.	450.6	31.2 *	3	0915 688	65.	350.0	27.2
1	1250 155	74.	373.7	28.2 *	2	1105 422	92.	450.6	31.2 *	3	0920 689	65.	349.6	27.2
1	1255 156	74.	374.3	28.2 *	2	1110 423	92.	450.6	31.2 *	3	0925 690	65.	349.3	27.2
1	1300 157	75.	375.0	28.3 *	2	1115 424	92.	450.6	31.2 *	3	0930 691	65.	348.9	27.2
1	1305 158	75.	375.6	28.3 *	2	1120 425	92.	450.6	31.2 *	3	0935 692	65.	348.5	27.1
1	1310 159	75.	376.2	28.3 *	2	1125 426	92.	450.6	31.2 *	3	0940 693	65.	348.2	27.1
1	1315 160	75.	376.8	28.3 *	2	1130 427	92.	450.6	31.2 *	3	0945 694	65.	347.8	27.1
1	1320 161	76.	377.3	28.4 *	2	1135 428	92.	450.6	31.2 *	3	0950 695	64.	347.4	27.1
1	1325 162	76.	377.9	28.4 *	2	1140 429	92.	450.5	31.2 *	3	0955 696	64.	347.1	27.1
1	1330 163	76.	378.5	28.4 *	2	1145 430	92.	450.5	31.2 *	3	1000 697	64.	346.7	27.1
1	1335 164	76.	379.1	28.4 *	2	1150 431	92.	450.5	31.2 *	3	1005 698	64.	346.3	27.0
1	1340 165	76.	379.7	28.5 *	2	1155 432	92.	450.5	31.2 *	3	1010 699	64.	346.0	27.0
1	1345 166	77.	380.3	28.5 *	2	1200 433	92.	450.5	31.2 *	3	1015 700	64.	345.6	27.0
1	1350 167	77.	380.9	28.5 *	2	1205 434	92.	450.4	31.2 *	3	1020 701	64.	345.2	27.0
1	1355 168	77.	381.4	28.5 *	2	1210 435	92.	450.4	31.2 *	3	1025 702	63.	344.9	27.0
1	1400 169	77.	382.0	28.6 *	2	1215 436	92.	450.4	31.2 *	3	1030 703	63.	344.5	27.0
1	1405 170	78.	382.6	28.6 *	2	1220 437	92.	450.4	31.2 *	3	1035 704	63.	344.2	27.0
1	1410 171	78.	383.1	28.6 *	2	1225 438	92.	450.3	31.2 *	3	1040 705	63.	343.8	26.9
1	1415 172	78.	383.7	28.6 *	2	1230 439	92.	450.3	31.2 *	3	1045 706	63.	343.4	26.9
1	1420 173	78.	384.2	28.7 *	2	1235 440	92.	450.3	31.2 *	3	1050 707	63.	343.1	26.9
1	1425 174	78.	384.8	28.7 *	2	1240 441	92.	450.2	31.2 *	3	1055 708	63.	342.7	26.9
1	1430 175	79.	385.4	28.7 *	2	1245 442	92.	450.2	31.2 *	3	1100 709	63.	342.4	26.9
1	1435 176	79.	385.9	28.7 *	2	1250 443	92.	450.1	31.2 *	3	1105 710	62.	342.0	26.9
1	1440 177	79.	386.4	28.7 *	2	1255 444	92.	450.1	31.2 *	3	1110 711	62.	341.7	26.9
1	1445 178	79.	387.0	28.8 *	2	1300 445	92.	450.0	31.2 *	3	1115 712	62.	341.3	26.8
1	1450 179	79.	387.5	28.8 *	2	1305 446	92.	450.0	31.2 *	3	1120 713	62.	341.0	26.8
1	1455 180	80.	388.1	28.8 *	2	1310 447	92.	449.9	31.2 *	3	1125 714	62.	340.6	26.8
1	1500 181	80.	388.6	28.8 *	2	1315 448	92.	449.9	31.2 *	3	1130 715	62.	340.3	26.8
1	1505 182	80.	389.1	28.9 *	2	1320 449	92.	449.8	31.2 *	3	1135 716	62.	339.9	26.8
1	1510 183	80.	389.7	28.9 *	2	1325 450	92.	449.7	31.2 *	3	1140 717	61.	339.6	26.8
1	1515 184	80.	390.2	28.9 *	2	1330 451	92.	449.6	31.2 *	3	1145 718	61.	339.2	26.7
1	1520 185	81.	390.7	28.9 *	2	1335 452	92.	449.6	31.2 *	3	1150 719	61.	338.9	26.7
1	1525 186	81.	391.2	29.0 *	2	1340 453	92.	449.5	31.2 *	3	1155 720	61.	338.5	26.7
1	1530 187	81.	391.7	29.0 *	2	1345 454	92.	449.4	31.2 *	3	1200 721	61.	338.2	26.7
1	1535 188	81.	392.3	29.0 *	2	1350 455	92.	449.3	31.2 *	3	1205 722	61.	337.8	26.7
1	1540 189	81.	392.8	29.0 *	2	1355 456	92.	449.2	31.2 *	3	1210 723	61.	337.5	26.7
1	1545 190	82.	393.3	29.0 *	2	1400 457	92.	449.1	31.2 *	3	1215 724	61.	337.2	26.7
1	1550 191	82.	393.8	29.1 *	2	1405 458	92.	449.0	31.2 *	3	1220 725	60.	336.8	26.6
1	1555 192	82.	394.3	29.1 *	2	1410 459	92.	448.9	31.2 *	3	1225 726	60.	336.5	26.6
1	1600 193	82.	394.8	29.1 *	2	1415 460	92.	448.8	31.2 *	3	1230 727	60.	336.1	26.6

1	1605	194	82.	395.3	29.1	*	2	1420	461	92.	448.6	31.2	*	3	1235	728	60.	335.8	26.6
1	1610	195	82.	395.8	29.1	*	2	1425	462	92.	448.5	31.2	*	3	1240	729	60.	335.5	26.6
1	1615	196	83.	396.3	29.2	*	2	1430	463	92.	448.4	31.2	*	3	1245	730	60.	335.1	26.6
1	1620	197	83.	396.8	29.2	*	2	1435	464	92.	448.3	31.2	*	3	1250	731	60.	334.8	26.6
1	1625	198	83.	397.2	29.2	*	2	1440	465	92.	448.1	31.1	*	3	1255	732	60.	334.4	26.5
1	1630	199	83.	397.7	29.2	*	2	1445	466	92.	448.0	31.1	*	3	1300	733	59.	334.1	26.5
1	1635	200	83.	398.2	29.2	*	2	1450	467	92.	447.8	31.1	*	3	1305	734	59.	333.8	26.5
1	1640	201	84.	398.7	29.3	*	2	1455	468	92.	447.7	31.1	*	3	1310	735	59.	333.4	26.5
1	1645	202	84.	399.2	29.3	*	2	1500	469	92.	447.5	31.1	*	3	1315	736	59.	333.1	26.5
1	1650	203	84.	399.6	29.3	*	2	1505	470	92.	447.4	31.1	*	3	1320	737	59.	332.8	26.5
1	1655	204	84.	400.1	29.3	*	2	1510	471	92.	447.2	31.1	*	3	1325	738	59.	332.5	26.5
1	1700	205	84.	400.6	29.3	*	2	1515	472	92.	447.1	31.1	*	3	1330	739	59.	332.1	26.4
1	1705	206	84.	401.0	29.4	*	2	1520	473	92.	446.9	31.1	*	3	1335	740	59.	331.8	26.4
1	1710	207	85.	401.5	29.4	*	2	1525	474	92.	446.7	31.1	*	3	1340	741	58.	331.5	26.4
1	1715	208	85.	401.9	29.4	*	2	1530	475	92.	446.5	31.1	*	3	1345	742	58.	331.1	26.4
1	1720	209	85.	402.4	29.4	*	2	1535	476	92.	446.4	31.1	*	3	1350	743	58.	330.8	26.4
1	1725	210	85.	402.8	29.4	*	2	1540	477	92.	446.2	31.1	*	3	1355	744	58.	330.5	26.4
1	1730	211	85.	403.3	29.5	*	2	1545	478	91.	446.0	31.1	*	3	1400	745	58.	330.2	26.4
1	1735	212	85.	403.7	29.5	*	2	1550	479	91.	445.8	31.1	*	3	1405	746	58.	329.8	26.3
1	1740	213	86.	404.2	29.5	*	2	1555	480	91.	445.5	31.1	*	3	1410	747	58.	329.5	26.3
1	1745	214	86.	404.6	29.5	*	2	1600	481	91.	445.3	31.0	*	3	1415	748	58.	329.2	26.3
1	1750	215	86.	405.1	29.5	*	2	1605	482	91.	445.0	31.0	*	3	1420	749	58.	328.9	26.3
1	1755	216	86.	405.5	29.6	*	2	1610	483	91.	444.8	31.0	*	3	1425	750	57.	328.6	26.3
1	1800	217	86.	405.9	29.6	*	2	1615	484	91.	444.5	31.0	*	3	1430	751	57.	328.2	26.3
1	1805	218	86.	406.4	29.6	*	2	1620	485	91.	444.2	31.0	*	3	1435	752	57.	327.9	26.3
1	1810	219	87.	406.8	29.6	*	2	1625	486	91.	443.9	31.0	*	3	1440	753	57.	327.6	26.3
1	1815	220	87.	407.2	29.6	*	2	1630	487	91.	443.6	31.0	*	3	1445	754	57.	327.3	26.2
1	1820	221	87.	407.6	29.6	*	2	1635	488	91.	443.3	31.0	*	3	1450	755	57.	327.0	26.2
1	1825	222	87.	408.0	29.7	*	2	1640	489	91.	442.9	31.0	*	3	1455	756	57.	326.7	26.2
1	1830	223	87.	408.5	29.7	*	2	1645	490	91.	442.6	30.9	*	3	1500	757	57.	326.3	26.2
1	1835	224	87.	408.9	29.7	*	2	1650	491	91.	442.2	30.9	*	3	1505	758	56.	326.0	26.2
1	1840	225	87.	409.3	29.7	*	2	1655	492	91.	441.9	30.9	*	3	1510	759	56.	325.7	26.2
1	1845	226	88.	409.7	29.7	*	2	1700	493	91.	441.5	30.9	*	3	1515	760	56.	325.4	26.2
1	1850	227	88.	410.1	29.7	*	2	1705	494	91.	441.2	30.9	*	3	1520	761	56.	325.1	26.1
1	1855	228	88.	410.5	29.8	*	2	1710	495	91.	440.8	30.9	*	3	1525	762	56.	324.8	26.1
1	1900	229	88.	410.9	29.8	*	2	1715	496	91.	440.4	30.9	*	3	1530	763	56.	324.5	26.1
1	1905	230	88.	411.3	29.8	*	2	1720	497	91.	440.0	30.9	*	3	1535	764	56.	324.2	26.1
1	1910	231	88.	411.7	29.8	*	2	1725	498	91.	439.5	30.8	*	3	1540	765	56.	323.8	26.1
1	1915	232	89.	412.1	29.8	*	2	1730	499	91.	439.1	30.8	*	3	1545	766	56.	323.5	26.1
1	1920	233	89.	412.5	29.9	*	2	1735	500	91.	438.6	30.8	*	3	1550	767	55.	323.2	26.1
1	1925	234	89.	412.9	29.9	*	2	1740	501	91.	438.1	30.8	*	3	1555	768	55.	322.9	26.1
1	1930	235	89.	413.2	29.9	*	2	1745	502	91.	437.6	30.8	*	3	1600	769	55.	322.6	26.0
1	1935	236	89.	413.6	29.9	*	2	1750	503	91.	437.1	30.8	*	3	1605	770	55.	322.3	26.0
1	1940	237	89.	414.0	29.9	*	2	1755	504	91.	436.6	30.7	*	3	1610	771	55.	322.0	26.0
1	1945	238	89.	414.4	29.9	*	2	1800	505	91.	436.0	30.7	*	3	1615	772	55.	321.7	26.0
1	1950	239	90.	414.7	29.9	*	2	1805	506	91.	435.5	30.7	*	3	1620	773	55.	321.4	26.0
1	1955	240	90.	415.1	30.0	*	2	1810	507	91.	435.0	30.7	*	3	1625	774	55.	321.1	26.0
1	2000	241	90.	415.5	30.0	*	2	1815	508	91.	434.4	30.7	*	3	1630	775	55.	320.8	26.0
1	2005	242	90.	415.8	30.0	*	2	1820	509	91.	433.9	30.6	*	3	1635	776	54.	320.5	26.0
1	2010	243	90.	416.2	30.0	*	2	1825	510	91.	433.4	30.6	*	3	1640	777	54.	320.2	25.9
1	2015	244	90.	416.6	30.0	*	2	1830	511	91.	432.8	30.6	*	3	1645	778	54.	319.9	25.9
1	2020	245	90.	416.9	30.0	*	2	1835	512	91.	432.3	30.6	*	3	1650	779	54.	319.6	25.9
1	2025	246	90.	417.3	30.0	*	2	1840	513	91.	431.7	30.6	*	3	1655	780	54.	319.3	25.9
1	2030	247	90.	417.6	30.1	*	2	1845	514	91.	431.2	30.5	*	3	1700	781	54.	319.0	25.9
1	2035	248	90.	418.0	30.1	*	2	1850	515	91.	430.6	30.5	*	3	1705	782	54.	318.7	25.9
1	2040	249	90.	418.3	30.1	*	2	1855	516	91.	430.1	30.5	*	3	1710	783	54.	318.4	25.9
1	2045	250	90.	418.7	30.1	*	2	1900	517	91.	429.6	30.5	*	3	1715	784	54.	318.1	25.9
1	2050	251	90.	419.0	30.1	*	2	1905	518	91.	429.0	30.5	*	3	1720	785	53.	317.8	25.8
1	2055	252	90.	419.4	30.1	*	2	1910	519	91.	428.5	30.4	*	3	1725	786	53.	317.5	25.8
1	2100	253	90.	419.7	30.1	*	2	1915	520	91.	427.9	30.4	*	3	1730	787	53.	317.3	25.8
1	2105	254	90.	420.1	30.1	*	2	1920	521	91.	427.4	30.4	*	3	1735	788	53.	317.0	25.8
1	2110	255	90.	420.4	30.2	*	2	1925	522	91.	426.8	30.4	*	3	1740	789	53.	316.7	25.8
1	2115	256	90.	420.8	30.2	*	2	1930	523	91.	426.3	30.4	*	3	1745	790	53.	316.4	25.8
1	2120	257	90.	421.1	30.2	*	2	1935	524	90.	425.8	30.3	*	3	1750	791	53.	316.1	25.8
1	2125	258	90.	421.4	30.2	*	2	1940	525	90.	425.2	30.3	*	3	1755	792	53.	315.8	25.8
1	2130	259	90.	421.8	30.2	*	2	1945	526	90.	424.7	30.3	*	3	1800	793	53.	315.5	25.7
1	2135	260	90.	422.1	30.2	*	2	1950	527	90.	424.1	30.3	*	3	1805	794	52.	315.2	25.7
1	2140	261	90.	422.4	30.2	*	2	1955	528	90.	423.6	30.3	*	3	1810	795	52.	314.9	25.7
1	2145	262	90.	422.7	30.2	*	2	2000	529	90.	423.0	30.3	*	3	1815	796	52.	314.7	25.7
1	2150	263	90.	423.1	30.3	*	2	2005	530	90.	422.5	30.2	*	3	1820	797	52.	314.4	25.7
1	2155	264	90.	423.4	30.3	*	2	2010	531	90.	422.0	30.2	*	3	1825	798	52.	314.1	25.7
1	2200	265	90.	423.7	30.3	*	2	2015	532	90.	421.4	30.2	*	3	1830	799	52.	313.8	25.7
1	2205	266	90.	424.0	30.3	*	2	2020	533	90.	420.9	30.2	*	3	1835	800	52.	313.5	25.7
1	2210	267	90.	424.4	30.3	*	2	2025	534	90.	420.3	30.2	*						

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	66.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 92.	35.25		92.	91.	74.	74.
		(INCHES)	.081	.324	.731	.731
		(AC-FT)	45.	181.	408.	408.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	66.58-HR
+ (AC-FT)	(HR)					
451.	35.25		450.	440.	369.	369.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	66.58-HR
+ (FEET)	(HR)					
31.23	35.25		31.21	30.86	27.43	27.43

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = .90

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		2215	268	90.	420.0	30.1	2		2030	535	88.	411.3	29.8
1		0005	2	0.	.0	.0	1		2220	269	90.	420.4	30.2	2		2035	536	88.	410.8	29.8
1		0010	3	0.	.0	.0	1		2225	270	90.	420.7	30.2	2		2040	537	88.	410.3	29.8
1		0015	4	0.	.0	.0	1		2230	271	90.	421.0	30.2	2		2045	538	88.	409.7	29.7
1		0020	5	0.	.0	.0	1		2235	272	90.	421.3	30.2	2		2050	539	87.	409.2	29.7
1		0025	6	0.	.0	.0	1		2240	273	90.	421.6	30.2	2		2055	540	87.	408.7	29.7
1		0030	7	0.	.1	.0	1		2245	274	90.	421.9	30.2	2		2100	541	87.	408.2	29.7
1		0035	8	0.	.3	.1	1		2250	275	90.	422.2	30.2	2		2105	542	87.	407.6	29.6
1		0040	9	1.	.4	.1	1		2255	276	90.	422.4	30.2	2		2110	543	87.	407.1	29.6
1		0045	10	1.	.6	.2	1		2300	277	90.	422.7	30.2	2		2115	544	86.	406.6	29.6
1		0050	11	1.	.8	.3	1		2305	278	90.	423.0	30.3	2		2120	545	86.	406.1	29.6
1		0055	12	1.	.9	.3	1		2310	279	90.	423.3	30.3	2		2125	546	86.	405.6	29.6
1		0100	13	1.	1.1	.4	1		2315	280	90.	423.6	30.3	2		2130	547	86.	405.1	29.5
1		0105	14	2.	1.2	.4	1		2320	281	90.	423.9	30.3	2		2135	548	86.	404.5	29.5
1		0110	15	2.	1.4	.5	1		2325	282	90.	424.2	30.3	2		2140	549	86.	404.0	29.5
1		0115	16	2.	1.6	.5	1		2330	283	90.	424.5	30.3	2		2145	550	85.	403.5	29.5
1		0120	17	3.	1.9	.6	1		2335	284	90.	424.7	30.3	2		2150	551	85.	403.0	29.4
1		0125	18	3.	2.2	.7	1		2340	285	90.	425.0	30.3	2		2155	552	85.	402.5	29.4
1		0130	19	4.	2.6	.9	1		2345	286	90.	425.3	30.3	2		2200	553	85.	402.0	29.4
1		0135	20	4.	3.2	1.1	1		2350	287	90.	425.6	30.3	2		2205	554	85.	401.5	29.4
1		0140	21	5.	3.9	1.3	1		2355	288	90.	425.8	30.4	2		2210	555	84.	401.0	29.4
1		0145	22	7.	4.7	1.6	2		0000	289	91.	426.1	30.4	2		2215	556	84.	400.5	29.3
1		0150	23	8.	5.5	1.8	2		0005	290	91.	426.4	30.4	2		2220	557	84.	400.0	29.3
1		0155	24	9.	6.4	2.1	2		0010	291	91.	426.6	30.4	2		2225	558	84.	399.5	29.3
1		0200	25	10.	7.2	2.4	2		0015	292	91.	426.9	30.4	2		2230	559	84.	399.0	29.3
1		0205	26	11.	7.9	2.6	2		0020	293	91.	427.2	30.4	2		2235	560	83.	398.5	29.3
1		0210	27	12.	8.6	2.9	2		0025	294	91.	427.4	30.4	2		2240	561	83.	398.0	29.2
1		0215	28	13.	9.4	3.1	2		0030	295	91.	427.7	30.4	2		2245	562	83.	397.5	29.2
1		0220	29	15.	10.5	3.5	2		0035	296	91.	427.9	30.4	2		2250	563	83.	397.0	29.2
1		0225	30	17.	11.8	3.9	2		0040	297	91.	428.2	30.4	2		2255	564	83.	396.5	29.2
1		0230	31	19.	13.3	4.4	2		0045	298	91.	428.4	30.4	2		2300	565	83.	396.0	29.2
1		0235	32	21.	14.8	4.9	2		0050	299	91.	428.7	30.5	2		2305	566	82.	395.5	29.1
1		0240	33	22.	16.3	5.3	2		0055	300	91.	428.9	30.5	2		2310	567	82.	395.0	29.1
1		0245	34	22.	17.8	5.6	2		0100	301	91.	429.2	30.5	2		2315	568	82.	394.6	29.1
1		0250	35	23.	19.5	6.0	2		0105	302	91.	429.4	30.5	2		2320	569	82.	394.1	29.1
1		0255	36	24.	21.2	6.4	2		0110	303	91.	429.7	30.5	2		2325	570	82.	393.6	29.0
1		0300	37	24.	22.8	6.8	2		0115	304	91.	429.9	30.5	2		2330	571	81.	393.1	29.0
1		0305	38	25.	24.5	7.2	2		0120	305	91.	430.2	30.5	2		2335	572	81.	392.6	29.0
1		0310	39	26.	26.8	7.7	2		0125	306	91.	430.4	30.5	2		2340	573	81.	392.1	29.0
1		0315	40	27.	30.3	8.5	2		0130	307	91.	430.6	30.5	2		2345	574	81.	391.6	29.0
1		0320	41	30.	36.2	9.8	2		0135	308	91.	430.9	30.5	2		2350	575	81.	391.2	28.9
1		0325	42	31.	46.1	10.9	2		0140	309	91.	431.1	30.5	2		2355	576	81.	390.7	28.9
1		0330	43	33.	61.6	12.3	2		0145	310	91.	431.3	30.5	3		0000	577	80.	390.2	28.9
1		0335	44	36.	82.6	14.3	2		0150	311	91.	431.6	30.6	3		0005	578	80.	389.7	28.9
1		0340	45	38.	106.6	16.0	2		0155	312	91.	431.8	30.6	3		0010	579	80.	389.3	28.9
1		0345	46	40.	130.3	17.5	2		0200	313	91.	432.0	30.6	3		0015	580	80.	388.8	28.8
1		0350	47	41.	151.6	18.8	2		0205	314	91.	432.2	30.6	3		0020	581	80.	388.3	28.8
1		0355	48	42.	169.5	20.0	2		0210	315	91.	432.5	30.6	3		0025	582	80.	387.9	28.8
1		0400	49	42.	184.1	20.6	2		0215	316	91.	432.7	30.6	3		0030	583	79.	387.4	28.8
1		0405	50	43.	196.1	21.0	2		0220	317	91.	432.9	30.6	3		0035	584	79.	386.9	28.8
1		0410	51	43.	205.8	21.4	2		0225	318	91.	433.1	30.6	3		0040	585	79.	386.4	28.7
1		0415	52	43.	213.6	21.7	2		0230	319	91.	433.3	30.6	3		0045	586	79.	386.0	28.7
1		0420	53	44.	220.0	22.0	2		0235	320	91.	433.5	30.6	3		0050	587	79.	385.5	28.7
1		0425	54	44.	225.6	22.2	2		0240	321	91.	433.7	30.6	3		0055	588	78.	385.1	28.7
1		0430	55	44.	230.8	22.4	2		0245	322	91.	433.9	30.6	3		0100	589	78.	384.6	28.7
1		0435	56	44.	236.4	22.6	2		0250	323	91.	434.2	30.6	3		0105	590	78.	384.1	28.6
1		0440	57	44.	242.5	22.8	2		0255	324	91.	434.4	30.7	3		0110	591	78.	383.7	28.6
1		0445	58	44.	249.0	23.1	2		0300	325	91.	434.6	30.7	3		0115	592	78.	383.2	28.6
1		0450	59	45.	255.7	23.3	2		0305	326	91.	434.8	30.7	3		0120	593	78.	382.7	28.6
1		0455	60	45.	262.5	23.6	2		0310	327	91.	435.0	30.7	3		0125	594	77.	382.3	28.6
1		0500	61	45.	269.1	23.9	2		0315	328	91.	435.2	30.7	3		0130	595	77.	381.8	28.6
1		0505	62	45.	275.3	24.1	2		0320	329	91.	435.3	30.7	3		0135	596	77.	381.4	28.5
1		0510	63	45.	280.6	24.3	2		0325	330	91.	435.5	30.7	3		0140	597	77.	380.9	28.5
1		0515	64	46.	285.1	24.5	2		0330	331	91.	435.7	30.7	3		0145	598	77.	380.5	28.5
1		0520	65	46.	288.8	24.6	2		0335	332	91.	435.9	30.7	3		0150	599	77.	380.0	28.5
1		0525	66	46.	291.9	24.8	2		0340	333	91.	436.1	30.7	3		0155	600	76.	379.6	28.5
1		0530	67	46.	294.5	24.9	2		0345	334	91.	436.3	30.7	3		0200	601	76.	379.1	28.4
1		0535	68	46.	296.8	25.0	2		0350	335	91.	436.5	30.7	3		0205	602	76.	378.7	28.4
1		0540	69	46.	298.8	25.0	2		0355	336	91.	436.7	30.7	3		0210	603	76.	378.2	28.4
1		0545	70	47.	300.5	25.1	2		0400	337	91.	436.8	30.7	3		0215	604	76.	377.8	28.4
1		0550	71	48.	302.2	25.2	2		0405	338	91.	437.0	30.8	3		0220	605	76.	377.3	28.4
1		0555	72	48.	303.8	25.2	2		0410	339	91.	437.2	30.8	3		0225	606	75.	376.9	28.3
1		0600	73	49.	305.3	25.3	2		0415	340	91.	437.4	30.8	3		0230	607	75.	376.5	28.3
1		0605	74	49.	306.7	25.4	2		0420	341	91.	437.5	30.8	3		0235	608	75.	376.0	28.3
1		0610	75	50.	308.1	25.4	2		0425	342	91.	437.7	30.8	3		0240	609	75.	375.6	28.3
1		0615	76	50.	309.3	25.5	2		0430	343	91.	437.9	30.8	3		0245	610	75.	375.1	28.3
1		0620	77	51.	310.5	25.5	2		0435	344	91.	438.0	30.8	3		0250	611	75.	374.7	28.3
1		0625	78	51.	311.6	25.6	2		0440	345	91.	438.2	30.8	3		0255	612	74.	374.3	28.2
1		0630	79	51.	312.6	25.6	2		0445	346	91.	438.3	30.8	3		0300	613	74.	373.8	28.2
1		0635	80	52.	313.5	25.7	2		0450	347	91.	438.5	30.8	3		0305	614	74.	373.4	28.2
1		0640	81	52.	314.4	25.7	2		0455	348	91.	438.7	30.8	3		0310	615	74.	373.0	28.2
1		0645	82	52.	315.3	25.7	2		0500	349	91.	438.8	30.8	3		0315	616	74.	372.5	28.2
1		0650	83	53.	316.2	25.8	2		0505	350	91.	439.0	30.8	3		0320	617	74.	372.1	28.1

1	0655	84	53.	317.1	25.8	*	2	0510	351	91.	439.1	30.8	*	3	0325	618	73.	371.7	28.1
1	0700	85	53.	317.9	25.8	*	2	0515	352	91.	439.3	30.8	*	3	0330	619	73.	371.2	28.1
1	0705	86	54.	318.8	25.9	*	2	0520	353	91.	439.4	30.8	*	3	0335	620	73.	370.8	28.1
1	0710	87	54.	319.6	25.9	*	2	0525	354	91.	439.6	30.8	*	3	0340	621	73.	370.4	28.1
1	0715	88	54.	320.5	26.0	*	2	0530	355	91.	439.7	30.8	*	3	0345	622	73.	370.0	28.0
1	0720	89	55.	321.3	26.0	*	2	0535	356	91.	439.9	30.9	*	3	0350	623	73.	369.5	28.0
1	0725	90	55.	322.2	26.0	*	2	0540	357	91.	440.0	30.9	*	3	0355	624	73.	369.1	28.0
1	0730	91	55.	323.0	26.1	*	2	0545	358	91.	440.1	30.9	*	3	0400	625	72.	368.7	28.0
1	0735	92	56.	323.8	26.1	*	2	0550	359	91.	440.3	30.9	*	3	0405	626	72.	368.3	28.0
1	0740	93	56.	324.6	26.1	*	2	0555	360	91.	440.4	30.9	*	3	0410	627	72.	367.9	28.0
1	0745	94	56.	325.5	26.2	*	2	0600	361	91.	440.5	30.9	*	3	0415	628	72.	367.4	27.9
1	0750	95	57.	326.3	26.2	*	2	0605	362	91.	440.7	30.9	*	3	0420	629	72.	367.0	27.9
1	0755	96	57.	327.1	26.2	*	2	0610	363	91.	440.8	30.9	*	3	0425	630	72.	366.6	27.9
1	0800	97	57.	327.9	26.3	*	2	0615	364	91.	440.9	30.9	*	3	0430	631	71.	366.2	27.9
1	0805	98	57.	328.7	26.3	*	2	0620	365	91.	441.0	30.9	*	3	0435	632	71.	365.8	27.9
1	0810	99	58.	329.5	26.3	*	2	0625	366	91.	441.2	30.9	*	3	0440	633	71.	365.4	27.9
1	0815	100	58.	330.3	26.4	*	2	0630	367	91.	441.3	30.9	*	3	0445	634	71.	364.9	27.8
1	0820	101	58.	331.1	26.4	*	2	0635	368	91.	441.4	30.9	*	3	0450	635	71.	364.5	27.8
1	0825	102	59.	331.9	26.4	*	2	0640	369	91.	441.5	30.9	*	3	0455	636	71.	364.1	27.8
1	0830	103	59.	332.7	26.5	*	2	0645	370	91.	441.6	30.9	*	3	0500	637	71.	363.7	27.8
1	0835	104	59.	333.5	26.5	*	2	0650	371	91.	441.7	30.9	*	3	0505	638	70.	363.3	27.8
1	0840	105	60.	334.2	26.5	*	2	0655	372	91.	441.8	30.9	*	3	0510	639	70.	362.9	27.7
1	0845	106	60.	335.0	26.6	*	2	0700	373	91.	442.0	30.9	*	3	0515	640	70.	362.5	27.7
1	0850	107	60.	335.8	26.6	*	2	0705	374	91.	442.1	30.9	*	3	0520	641	70.	362.1	27.7
1	0855	108	60.	336.6	26.6	*	2	0710	375	91.	442.2	30.9	*	3	0525	642	70.	361.7	27.7
1	0900	109	61.	337.3	26.7	*	2	0715	376	91.	442.3	30.9	*	3	0530	643	70.	361.3	27.7
1	0905	110	61.	338.1	26.7	*	2	0720	377	91.	442.4	30.9	*	3	0535	644	69.	360.9	27.7
1	0910	111	61.	338.8	26.7	*	2	0725	378	91.	442.5	30.9	*	3	0540	645	69.	360.5	27.6
1	0915	112	62.	339.6	26.8	*	2	0730	379	91.	442.6	30.9	*	3	0545	646	69.	360.1	27.6
1	0920	113	62.	340.4	26.8	*	2	0735	380	91.	442.6	31.0	*	3	0550	647	69.	359.7	27.6
1	0925	114	62.	341.1	26.8	*	2	0740	381	91.	442.7	31.0	*	3	0555	648	69.	359.3	27.6
1	0930	115	62.	341.9	26.9	*	2	0745	382	91.	442.8	31.0	*	3	0600	649	69.	358.9	27.6
1	0935	116	63.	342.6	26.9	*	2	0750	383	91.	442.9	31.0	*	3	0605	650	69.	358.5	27.6
1	0940	117	63.	343.3	26.9	*	2	0755	384	91.	443.0	31.0	*	3	0610	651	68.	358.1	27.5
1	0945	118	63.	344.1	27.0	*	2	0800	385	91.	443.1	31.0	*	3	0615	652	68.	357.7	27.5
1	0950	119	63.	344.8	27.0	*	2	0805	386	91.	443.2	31.0	*	3	0620	653	68.	357.3	27.5
1	0955	120	64.	345.5	27.0	*	2	0810	387	91.	443.2	31.0	*	3	0625	654	68.	356.9	27.5
1	1000	121	64.	346.3	27.0	*	2	0815	388	91.	443.3	31.0	*	3	0630	655	68.	356.5	27.5
1	1005	122	64.	347.0	27.1	*	2	0820	389	91.	443.4	31.0	*	3	0635	656	68.	356.1	27.5
1	1010	123	65.	347.7	27.1	*	2	0825	390	91.	443.5	31.0	*	3	0640	657	68.	355.7	27.4
1	1015	124	65.	348.4	27.1	*	2	0830	391	91.	443.5	31.0	*	3	0645	658	67.	355.3	27.4
1	1020	125	65.	349.1	27.2	*	2	0835	392	91.	443.6	31.0	*	3	0650	659	67.	354.9	27.4
1	1025	126	65.	349.8	27.2	*	2	0840	393	91.	443.7	31.0	*	3	0655	660	67.	354.6	27.4
1	1030	127	66.	350.6	27.2	*	2	0845	394	91.	443.7	31.0	*	3	0700	661	67.	354.2	27.4
1	1035	128	66.	351.3	27.3	*	2	0850	395	91.	443.8	31.0	*	3	0705	662	67.	353.8	27.4
1	1040	129	66.	352.0	27.3	*	2	0855	396	91.	443.8	31.0	*	3	0710	663	67.	353.4	27.3
1	1045	130	66.	352.7	27.3	*	2	0900	397	91.	443.9	31.0	*	3	0715	664	67.	353.0	27.3
1	1050	131	67.	353.3	27.3	*	2	0905	398	91.	444.0	31.0	*	3	0720	665	66.	352.6	27.3
1	1055	132	67.	354.0	27.4	*	2	0910	399	91.	444.0	31.0	*	3	0725	666	66.	352.3	27.3
1	1100	133	67.	354.7	27.4	*	2	0915	400	91.	444.1	31.0	*	3	0730	667	66.	351.9	27.3
1	1105	134	67.	355.4	27.4	*	2	0920	401	91.	444.1	31.0	*	3	0735	668	66.	351.5	27.3
1	1110	135	68.	356.1	27.5	*	2	0925	402	91.	444.2	31.0	*	3	0740	669	66.	351.1	27.3
1	1115	136	68.	356.8	27.5	*	2	0930	403	91.	444.2	31.0	*	3	0745	670	66.	350.7	27.2
1	1120	137	68.	357.4	27.5	*	2	0935	404	91.	444.3	31.0	*	3	0750	671	66.	350.4	27.2
1	1125	138	68.	358.1	27.5	*	2	0940	405	91.	444.3	31.0	*	3	0755	672	65.	350.0	27.2
1	1130	139	69.	358.8	27.6	*	2	0945	406	91.	444.3	31.0	*	3	0800	673	65.	349.6	27.2
1	1135	140	69.	359.4	27.6	*	2	0950	407	91.	444.4	31.0	*	3	0805	674	65.	349.3	27.2
1	1140	141	69.	360.1	27.6	*	2	0955	408	91.	444.4	31.0	*	3	0810	675	65.	348.9	27.2
1	1145	142	69.	360.8	27.7	*	2	1000	409	91.	444.4	31.0	*	3	0815	676	65.	348.5	27.1
1	1150	143	70.	361.4	27.7	*	2	1005	410	91.	444.5	31.0	*	3	0820	677	65.	348.1	27.1
1	1155	144	70.	362.1	27.7	*	2	1010	411	91.	444.5	31.0	*	3	0825	678	65.	347.8	27.1
1	1200	145	70.	362.7	27.7	*	2	1015	412	91.	444.5	31.0	*	3	0830	679	64.	347.4	27.1
1	1205	146	70.	363.4	27.8	*	2	1020	413	91.	444.5	31.0	*	3	0835	680	64.	347.0	27.1
1	1210	147	71.	364.0	27.8	*	2	1025	414	91.	444.5	31.0	*	3	0840	681	64.	346.7	27.1
1	1215	148	71.	364.6	27.8	*	2	1030	415	91.	444.5	31.0	*	3	0845	682	64.	346.3	27.0
1	1220	149	71.	365.3	27.9	*	2	1035	416	91.	444.6	31.0	*	3	0850	683	64.	345.9	27.0
1	1225	150	71.	365.9	27.9	*	2	1040	417	91.	444.6	31.0	*	3	0855	684	64.	345.6	27.0
1	1230	151	72.	366.5	27.9	*	2	1045	418	91.	444.6	31.0	*	3	0900	685	64.	345.2	27.0
1	1235	152	72.	367.2	27.9	*	2	1050	419	91.	444.6	31.0	*	3	0905	686	63.	344.8	27.0
1	1240	153	72.	367.8	28.0	*	2	1055	420	91.	444.6	31.0	*	3	0910	687	63.	344.5	27.0
1	1245	154	72.	368.4	28.0	*	2	1100	421	91.	444.6	31.0	*	3	0915	688	63.	344.1	27.0
1	1250	155	72.	369.0	28.0	*	2	1105	422	91.	444.6	31.0	*	3	0920	689	63.	343.8	26.9
1	1255	156	73.	369.6	28.0	*	2	1110	423	91.	444.6	31.0	*	3	0925	690	63.	343.4	26.9
1	1300	157	73.	370.2	28.1	*	2	1115	424	91.	444.5	31.0	*	3	0930	691	63.	343.0	26.9
1	1305	158	73.	370.8	28.1	*	2	1120	425	91.	444.5	31.0	*	3	0935	692	63.	342.7	26.9
1	1310	159	73.	371.4	28.1	*	2	1125	426	91.	444.5	31.0	*	3	0940	693	63.	342.3	26.9
1	1315	160	74.	372.0	28.1	*	2	1130	427	91.	444.5	31.0	*	3	0945	694	62.	342.0	26.9
1	1320	161	74.	372.6	28.2	*	2	1135	428	91.	444.5	31.0	*	3	0950	695	62.	341.6	26.8
1	1325	162	74.	373.2	28.2	*	2	1140	429	91.	444.5	31.0	*	3	0955	696	62.	341.3	26.8
1	1330	163	74.	373.8	28.2	*	2	1145	430	91.	444.4	31.0	*	3	1000	697	62.	340.9	26.8
1	1335	164	74.	374.4	28.2	*	2	1150	431	91.	444.4	31.0	*	3	1005	698	62.	340.6	26.8
1	1340	165	75.	375.0	28.3	*	2	1155	432	91.	444.4	31.0	*	3	1010	699	62.	340.2	26.8
1	1345	166	75.	375.6	28.3	*	2	1200	433	91.	444.3	31.0	*	3	1015	700	62.	339.9	26.8
1	1350	167	75.	376.2	28.3	*	2	1205	434	91.	444.3	31.0	*	3	1020	701	61.	339.5	26.8
1	1355	168	75.	376.7	28.3	*	2	1210	435	91.	444.3	31.0	*	3	1025	702	61.	339.2	26.7
1	1400	169	76.	377.3	28.4	*	2	1215	436	91.	444.2	31.0	*	3	1030	703	61.	338.8	26.7
1	1405	170	76.	377.9	28.4	*	2	1220	437	91.	444.2	31.0	*	3	1035	704	61.	338.5	26.7
1	1410	171	76.	378.5	28.4	*	2	1225	438	91.	444.1	31.0	*	3	1040	705	61.	338.1	26.7
1	1415	172	76.	379.0	28.4	*	2	1230	439	91.	444.1	31.0	*	3	1045	706	61.	337.8	26.7
1	1420	173	76.	379.6	28.5	*	2	1235	440	91.	444.1	31.0	*	3	1050	707	61.	337.4	26.7
1	1425	174	77.	380.1	28.5	*	2	1240	441	91.	444.0	31.0	*	3	1055	708	61.	337.1	26.7
1	1430	175	77.	380.7	28.5	*	2	1245	442	91.	443.9	31.0	*	3	1100	709	60.	336.8	26.6
1	1435	176	77.	381.2	28.5	*	2	1250	443	91.	443.9	31.0	*	3	1105	710	60.	336.4	26.6
1	1440	177	77.	381.8	28.6	*	2	1255	444	91.	443.8	31.0	*	3	1110	711	60.	336.1	26.6
1	1445	178	77.	382.3	28.6	*	2	1300	445	91.	443.8	31.0	*	3	1115	712	60.	335.7	26.6

1	1450 179	78.	382.9	28.6 *	2	1305 446	91.	443.7	31.0 *	3	1120 713	60.	335.4	26.6
1	1455 180	78.	383.4	28.6 *	2	1310 447	91.	443.6	31.0 *	3	1125 714	60.	335.1	26.6
1	1500 181	78.	384.0	28.6 *	2	1315 448	91.	443.5	31.0 *	3	1130 715	60.	334.7	26.6
1	1505 182	78.	384.5	28.7 *	2	1320 449	91.	443.4	31.0 *	3	1135 716	60.	334.4	26.5
1	1510 183	78.	385.0	28.7 *	2	1325 450	91.	443.3	31.0 *	3	1140 717	59.	334.1	26.5
1	1515 184	79.	385.6	28.7 *	2	1330 451	91.	443.2	31.0 *	3	1145 718	59.	333.7	26.5
1	1520 185	79.	386.1	28.7 *	2	1335 452	91.	443.1	31.0 *	3	1150 719	59.	333.4	26.5
1	1525 186	79.	386.6	28.8 *	2	1340 453	91.	443.0	31.0 *	3	1155 720	59.	333.1	26.5
1	1530 187	79.	387.1	28.8 *	2	1345 454	91.	442.9	31.0 *	3	1200 721	59.	332.7	26.5
1	1535 188	79.	387.6	28.8 *	2	1350 455	91.	442.8	31.0 *	3	1205 722	59.	332.4	26.5
1	1540 189	80.	388.2	28.8 *	2	1355 456	91.	442.7	31.0 *	3	1210 723	59.	332.1	26.4
1	1545 190	80.	388.7	28.8 *	2	1400 457	91.	442.6	30.9 *	3	1215 724	59.	331.7	26.4
1	1550 191	80.	389.2	28.9 *	2	1405 458	91.	442.4	30.9 *	3	1220 725	58.	331.4	26.4
1	1555 192	80.	389.7	28.9 *	2	1410 459	91.	442.3	30.9 *	3	1225 726	58.	331.1	26.4
1	1600 193	80.	390.2	28.9 *	2	1415 460	91.	442.2	30.9 *	3	1230 727	58.	330.8	26.4
1	1605 194	81.	390.7	28.9 *	2	1420 461	91.	442.0	30.9 *	3	1235 728	58.	330.4	26.4
1	1610 195	81.	391.2	28.9 *	2	1425 462	91.	441.9	30.9 *	3	1240 729	58.	330.1	26.4
1	1615 196	81.	391.7	29.0 *	2	1430 463	91.	441.8	30.9 *	3	1245 730	58.	329.8	26.3
1	1620 197	81.	392.2	29.0 *	2	1435 464	91.	441.6	30.9 *	3	1250 731	58.	329.5	26.3
1	1625 198	81.	392.7	29.0 *	2	1440 465	91.	441.5	30.9 *	3	1255 732	58.	329.1	26.3
1	1630 199	81.	393.1	29.0 *	2	1445 466	91.	441.3	30.9 *	3	1300 733	57.	328.8	26.3
1	1635 200	82.	393.6	29.1 *	2	1450 467	91.	441.1	30.9 *	3	1305 734	57.	328.5	26.3
1	1640 201	82.	394.1	29.1 *	2	1455 468	91.	441.0	30.9 *	3	1310 735	57.	328.2	26.3
1	1645 202	82.	394.6	29.1 *	2	1500 469	91.	440.8	30.9 *	3	1315 736	57.	327.9	26.3
1	1650 203	82.	395.0	29.1 *	2	1505 470	91.	440.6	30.9 *	3	1320 737	57.	327.5	26.3
1	1655 204	82.	395.5	29.1 *	2	1510 471	91.	440.4	30.9 *	3	1325 738	57.	327.2	26.2
1	1700 205	83.	396.0	29.2 *	2	1515 472	91.	440.3	30.9 *	3	1330 739	57.	326.9	26.2
1	1705 206	83.	396.5	29.2 *	2	1520 473	91.	440.1	30.9 *	3	1335 740	57.	326.6	26.2
1	1710 207	83.	396.9	29.2 *	2	1525 474	91.	439.8	30.9 *	3	1340 741	57.	326.3	26.2
1	1715 208	83.	397.4	29.2 *	2	1530 475	91.	439.6	30.8 *	3	1345 742	56.	326.0	26.2
1	1720 209	83.	397.8	29.2 *	2	1535 476	91.	439.4	30.8 *	3	1350 743	56.	325.6	26.2
1	1725 210	83.	398.3	29.2 *	2	1540 477	91.	439.1	30.8 *	3	1355 744	56.	325.3	26.2
1	1730 211	84.	398.7	29.3 *	2	1545 478	91.	438.9	30.8 *	3	1400 745	56.	325.0	26.1
1	1735 212	84.	399.2	29.3 *	2	1550 479	91.	438.6	30.8 *	3	1405 746	56.	324.7	26.1
1	1740 213	84.	399.6	29.3 *	2	1555 480	91.	438.3	30.8 *	3	1410 747	56.	324.4	26.1
1	1745 214	84.	400.1	29.3 *	2	1600 481	91.	438.0	30.8 *	3	1415 748	56.	324.1	26.1
1	1750 215	84.	400.5	29.3 *	2	1605 482	91.	437.7	30.8 *	3	1420 749	56.	323.8	26.1
1	1755 216	84.	401.0	29.4 *	2	1610 483	91.	437.4	30.8 *	3	1425 750	55.	323.5	26.1
1	1800 217	85.	401.4	29.4 *	2	1615 484	91.	437.0	30.8 *	3	1430 751	55.	323.2	26.1
1	1805 218	85.	401.8	29.4 *	2	1620 485	91.	436.7	30.7 *	3	1435 752	55.	322.9	26.1
1	1810 219	85.	402.2	29.4 *	2	1625 486	91.	436.4	30.7 *	3	1440 753	55.	322.5	26.0
1	1815 220	85.	402.7	29.4 *	2	1630 487	91.	436.0	30.7 *	3	1445 754	55.	322.2	26.0
1	1820 221	85.	403.1	29.5 *	2	1635 488	91.	435.6	30.7 *	3	1450 755	55.	321.9	26.0
1	1825 222	85.	403.5	29.5 *	2	1640 489	91.	435.3	30.7 *	3	1455 756	55.	321.6	26.0
1	1830 223	86.	403.9	29.5 *	2	1645 490	91.	434.9	30.7 *	3	1500 757	55.	321.3	26.0
1	1835 224	86.	404.4	29.5 *	2	1650 491	91.	434.5	30.7 *	3	1505 758	55.	321.0	26.0
1	1840 225	86.	404.8	29.5 *	2	1655 492	91.	434.1	30.6 *	3	1510 759	54.	320.7	26.0
1	1845 226	86.	405.2	29.5 *	2	1700 493	91.	433.7	30.6 *	3	1515 760	54.	320.4	26.0
1	1850 227	86.	405.6	29.6 *	2	1705 494	91.	433.2	30.6 *	3	1520 761	54.	320.1	25.9
1	1855 228	86.	406.0	29.6 *	2	1710 495	91.	432.7	30.6 *	3	1525 762	54.	319.8	25.9
1	1900 229	86.	406.4	29.6 *	2	1715 496	91.	432.2	30.6 *	3	1530 763	54.	319.5	25.9
1	1905 230	87.	406.8	29.6 *	2	1720 497	91.	431.7	30.6 *	3	1535 764	54.	319.2	25.9
1	1910 231	87.	407.2	29.6 *	2	1725 498	91.	431.2	30.5 *	3	1540 765	54.	318.9	25.9
1	1915 232	87.	407.6	29.6 *	2	1730 499	91.	430.7	30.5 *	3	1545 766	54.	318.6	25.9
1	1920 233	87.	408.0	29.7 *	2	1735 500	91.	430.2	30.5 *	3	1550 767	54.	318.3	25.9
1	1925 234	87.	408.4	29.7 *	2	1740 501	91.	429.7	30.5 *	3	1555 768	53.	318.0	25.8
1	1930 235	87.	408.7	29.7 *	2	1745 502	91.	429.1	30.5 *	3	1600 769	53.	317.8	25.8
1	1935 236	87.	409.1	29.7 *	2	1750 503	91.	428.6	30.4 *	3	1605 770	53.	317.5	25.8
1	1940 237	88.	409.5	29.7 *	2	1755 504	91.	428.1	30.4 *	3	1610 771	53.	317.2	25.8
1	1945 238	88.	409.9	29.7 *	2	1800 505	91.	427.5	30.4 *	3	1615 772	53.	316.9	25.8
1	1950 239	88.	410.3	29.8 *	2	1805 506	91.	427.0	30.4 *	3	1620 773	53.	316.6	25.8
1	1955 240	88.	410.6	29.8 *	2	1810 507	91.	426.4	30.4 *	3	1625 774	53.	316.3	25.8
1	2000 241	88.	411.0	29.8 *	2	1815 508	90.	425.9	30.4 *	3	1630 775	53.	316.0	25.8
1	2005 242	88.	411.4	29.8 *	2	1820 509	90.	425.4	30.3 *	3	1635 776	53.	315.7	25.8
1	2010 243	88.	411.7	29.8 *	2	1825 510	90.	424.8	30.3 *	3	1640 777	52.	315.4	25.7
1	2015 244	89.	412.1	29.8 *	2	1830 511	90.	424.3	30.3 *	3	1645 778	52.	315.1	25.7
1	2020 245	89.	412.4	29.8 *	2	1835 512	90.	423.7	30.3 *	3	1650 779	52.	314.9	25.7
1	2025 246	89.	412.8	29.9 *	2	1840 513	90.	423.2	30.3 *	3	1655 780	52.	314.6	25.7
1	2030 247	89.	413.2	29.9 *	2	1845 514	90.	422.6	30.2 *	3	1700 781	52.	314.3	25.7
1	2035 248	89.	413.5	29.9 *	2	1850 515	90.	422.1	30.2 *	3	1705 782	52.	314.0	25.7
1	2040 249	89.	413.9	29.9 *	2	1855 516	90.	421.6	30.2 *	3	1710 783	52.	313.7	25.7
1	2045 250	89.	414.2	29.9 *	2	1900 517	90.	421.0	30.2 *	3	1715 784	52.	313.4	25.7
1	2050 251	89.	414.5	29.9 *	2	1905 518	90.	420.5	30.2 *	3	1720 785	52.	313.1	25.6
1	2055 252	90.	414.9	30.0 *	2	1910 519	90.	419.9	30.1 *	3	1725 786	52.	312.9	25.6
1	2100 253	90.	415.2	30.0 *	2	1915 520	90.	419.4	30.1 *	3	1730 787	51.	312.6	25.6
1	2105 254	90.	415.6	30.0 *	2	1920 521	90.	418.8	30.1 *	3	1735 788	51.	312.3	25.6
1	2110 255	90.	415.9	30.0 *	2	1925 522	90.	418.3	30.1 *	3	1740 789	51.	312.0	25.6
1	2115 256	90.	416.2	30.0 *	2	1930 523	90.	417.8	30.1 *	3	1745 790	51.	311.7	25.6
1	2120 257	90.	416.6	30.0 *	2	1935 524	90.	417.2	30.0 *	3	1750 791	51.	311.5	25.6
1	2125 258	90.	416.9	30.0 *	2	1940 525	90.	416.7	30.0 *	3	1755 792	51.	311.2	25.6
1	2130 259	90.	417.2	30.0 *	2	1945 526	90.	416.1	30.0 *	3	1800 793	51.	310.9	25.5
1	2135 260	90.	417.5	30.1 *	2	1950 527	90.	415.6	30.0 *	3	1805 794	51.	310.6	25.5
1	2140 261	90.	417.8	30.1 *	2	1955 528	90.	415.1	30.0 *	3	1810 795	51.	310.4	25.5
1	2145 262	90.	418.2	30.1 *	2	2000 529	89.	414.5	29.9 *	3	1815 796	51.	310.1	25.5
1	2150 263	90.	418.5	30.1 *	2	2005 530	89.	414.0	29.9 *	3	1820 797	50.	309.8	25.5
1	2155 264	90.	418.8	30.1 *	2	2010 531	89.	413.4	29.9 *	3	1825 798	50.	309.5	25.5
1	2200 265	90.	419.1	30.1 *	2	2015 532	89.	412.9	29.9 *	3	1830 799	50.	309.3	25.5
1	2205 266	90.	419.4	30.1 *	2	2020 533	89.	412.4	29.8 *	3	1835 800	50.	309.0	25.5
1	2210 267	90.	419.7	30.1 *	2	2025 534	88.	411.8	29.8 *					

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		(CFS)				
+ 91.	34.58		91.	91.	73.	73.
		(INCHES)	.081	.323	.718	.718
		(AC-FT)	45.	180.	401.	401.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	66.58-HR
+ (AC-FT)	(HR)				
445.	34.83	444.	434.	364.	364.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	66.58-HR
+ (FEET)	(HR)				
31.02	34.92	31.00	30.65	27.21	27.21

CUMULATIVE AREA = 10.47 SQ MI

HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = .88

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		2215	268	88.	411.0	29.8	2		2030	535	82.	395.4	29.1
1		0005	2	0.	.0	.0	1		2220	269	88.	411.3	29.8	2		2035	536	82.	394.9	29.1
1		0010	3	0.	.0	.0	1		2225	270	88.	411.6	29.8	2		2040	537	82.	394.4	29.1
1		0015	4	0.	.0	.0	1		2230	271	88.	411.9	29.8	2		2045	538	82.	394.0	29.1
1		0020	5	0.	.0	.0	1		2235	272	89.	412.2	29.8	2		2050	539	82.	393.5	29.0
1		0025	6	0.	.0	.0	1		2240	273	89.	412.5	29.9	2		2055	540	81.	393.0	29.0
1		0030	7	0.	.1	.0	1		2245	274	89.	412.8	29.9	2		2100	541	81.	392.5	29.0
1		0035	8	0.	.2	.1	1		2250	275	89.	413.1	29.9	2		2105	542	81.	392.0	29.0
1		0040	9	1.	.4	.1	1		2255	276	89.	413.4	29.9	2		2110	543	81.	391.5	29.0
1		0045	10	1.	.6	.2	1		2300	277	89.	413.6	29.9	2		2115	544	81.	391.1	28.9
1		0050	11	1.	.7	.2	1		2305	278	89.	413.9	29.9	2		2120	545	81.	390.6	28.9
1		0055	12	1.	.8	.3	1		2310	279	89.	414.2	29.9	2		2125	546	80.	390.1	28.9
1		0100	13	1.	.9	.3	1		2315	280	89.	414.5	29.9	2		2130	547	80.	389.6	28.9
1		0105	14	1.	1.1	.4	1		2320	281	90.	414.7	29.9	2		2135	548	80.	389.1	28.9
1		0110	15	2.	1.2	.4	1		2325	282	90.	415.0	30.0	2		2140	549	80.	388.7	28.8
1		0115	16	2.	1.4	.5	1		2330	283	90.	415.3	30.0	2		2145	550	80.	388.2	28.8
1		0120	17	2.	1.7	.6	1		2335	284	90.	415.5	30.0	2		2150	551	79.	387.7	28.8
1		0125	18	3.	2.0	.7	1		2340	285	90.	415.8	30.0	2		2155	552	79.	387.3	28.8
1		0130	19	3.	2.4	.8	1		2345	286	90.	416.0	30.0	2		2200	553	79.	386.8	28.8
1		0135	20	4.	2.9	1.0	1		2350	287	90.	416.3	30.0	2		2205	554	79.	386.3	28.7
1		0140	21	5.	3.5	1.2	1		2355	288	90.	416.6	30.0	2		2210	555	79.	385.8	28.7
1		0145	22	6.	4.3	1.4	2		0000	289	90.	416.8	30.0	2		2215	556	79.	385.4	28.7
1		0150	23	7.	5.1	1.7	2		0005	290	90.	417.1	30.0	2		2220	557	78.	384.9	28.7
1		0155	24	8.	5.9	2.0	2		0010	291	90.	417.3	30.0	2		2225	558	78.	384.5	28.7
1		0200	25	9.	6.6	2.2	2		0015	292	90.	417.6	30.1	2		2230	559	78.	384.0	28.6
1		0205	26	10.	7.3	2.4	2		0020	293	90.	417.8	30.1	2		2235	560	78.	383.5	28.6
1		0210	27	11.	8.0	2.7	2		0025	294	90.	418.0	30.1	2		2240	561	78.	383.1	28.6
1		0215	28	12.	8.7	2.9	2		0030	295	90.	418.3	30.1	2		2245	562	78.	382.6	28.6
1		0220	29	14.	9.7	3.2	2		0035	296	90.	418.5	30.1	2		2250	563	77.	382.2	28.6
1		0225	30	15.	11.0	3.7	2		0040	297	90.	418.8	30.1	2		2255	564	77.	381.7	28.5
1		0230	31	17.	12.4	4.1	2		0045	298	90.	419.0	30.1	2		2300	565	77.	381.2	28.5
1		0235	32	19.	13.8	4.6	2		0050	299	90.	419.2	30.1	2		2305	566	77.	380.8	28.5
1		0240	33	21.	15.3	5.1	2		0055	300	90.	419.5	30.1	2		2310	567	77.	380.3	28.5
1		0245	34	22.	16.7	5.4	2		0100	301	90.	419.7	30.1	2		2315	568	77.	379.9	28.5
1		0250	35	22.	18.3	5.8	2		0105	302	90.	419.9	30.1	2		2320	569	76.	379.4	28.5
1		0255	36	23.	19.9	6.1	2		0110	303	90.	420.2	30.1	2		2325	570	76.	379.0	28.4
1		0300	37	24.	21.5	6.5	2		0115	304	90.	420.4	30.2	2		2330	571	76.	378.5	28.4
1		0305	38	24.	23.1	6.8	2		0120	305	90.	420.6	30.2	2		2335	572	76.	378.1	28.4
1		0310	39	25.	25.3	7.3	2		0125	306	90.	420.8	30.2	2		2340	573	76.	377.6	28.4
1		0315	40	27.	28.7	8.1	2		0130	307	90.	421.0	30.2	2		2345	574	76.	377.2	28.4
1		0320	41	29.	34.3	9.4	2		0135	308	90.	421.3	30.2	2		2350	575	75.	376.7	28.3
1		0325	42	31.	43.8	10.6	2		0140	309	90.	421.5	30.2	2		2355	576	75.	376.3	28.3
1		0330	43	33.	58.7	12.0	2		0145	310	90.	421.7	30.2	3		0000	577	75.	375.9	28.3
1		0335	44	36.	79.0	14.0	2		0150	311	90.	421.9	30.2	3		0005	578	75.	375.4	28.3
1		0340	45	38.	102.2	15.8	2		0155	312	90.	422.1	30.2	3		0010	579	75.	375.0	28.3
1		0345	46	39.	125.0	17.2	2		0200	313	90.	422.3	30.2	3		0015	580	75.	374.5	28.2
1		0350	47	40.	145.6	18.5	2		0205	314	90.	422.5	30.2	3		0020	581	74.	374.1	28.2
1		0355	48	42.	163.0	19.6	2		0210	315	90.	422.7	30.2	3		0025	582	74.	373.7	28.2
1		0400	49	42.	177.2	20.3	2		0215	316	90.	422.9	30.2	3		0030	583	74.	373.2	28.2
1		0405	50	43.	188.8	20.7	2		0220	317	90.	423.1	30.3	3		0035	584	74.	372.8	28.2
1		0410	51	43.	198.2	21.1	2		0225	318	90.	423.3	30.3	3		0040	585	74.	372.4	28.2
1		0415	52	43.	205.8	21.4	2		0230	319	90.	423.5	30.3	3		0045	586	74.	371.9	28.1
1		0420	53	43.	212.1	21.6	2		0235	320	90.	423.7	30.3	3		0050	587	73.	371.5	28.1
1		0425	54	43.	217.4	21.9	2		0240	321	90.	423.9	30.3	3		0055	588	73.	371.1	28.1
1		0430	55	44.	222.6	22.1	2		0245	322	90.	424.1	30.3	3		0100	589	73.	370.6	28.1
1		0435	56	44.	228.0	22.3	2		0250	323	90.	424.3	30.3	3		0105	590	73.	370.2	28.1
1		0440	57	44.	233.9	22.5	2		0255	324	90.	424.5	30.3	3		0110	591	73.	369.8	28.0
1		0445	58	44.	240.2	22.7	2		0300	325	90.	424.7	30.3	3		0115	592	73.	369.4	28.0
1		0450	59	44.	246.7	23.0	2		0305	326	90.	424.8	30.3	3		0120	593	72.	368.9	28.0
1		0455	60	45.	253.3	23.3	2		0310	327	90.	425.0	30.3	3		0125	594	72.	368.5	28.0
1		0500	61	45.	259.8	23.5	2		0315	328	90.	425.2	30.3	3		0130	595	72.	368.1	28.0
1		0505	62	45.	265.8	23.7	2		0320	329	90.	425.4	30.3	3		0135	596	72.	367.7	28.0
1		0510	63	45.	271.0	23.9	2		0325	330	90.	425.6	30.3	3		0140	597	72.	367.2	27.9
1		0515	64	45.	275.4	24.1	2		0330	331	90.	425.7	30.3	3		0145	598	72.	366.8	27.9
1		0520	65	45.	279.0	24.3	2		0335	332	90.	425.9	30.4	3		0150	599	72.	366.4	27.9
1		0525	66	46.	282.0	24.4	2		0340	333	91.	426.1	30.4	3		0155	600	71.	366.0	27.9
1		0530	67	46.	284.6	24.5	2		0345	334	91.	426.2	30.4	3		0200	601	71.	365.6	27.9
1		0535	68	46.	286.8	24.6	2		0350	335	91.	426.4	30.4	3		0205	602	71.	365.2	27.8

1	0540	69	46.	288.7	24.6	*	2	0355	336	91.	426.6	30.4	*	3	0210	603	71.	364.7	27.8
1	0545	70	46.	290.5	24.7	*	2	0400	337	91.	426.7	30.4	*	3	0215	604	71.	364.3	27.8
1	0550	71	46.	292.1	24.8	*	2	0405	338	91.	426.9	30.4	*	3	0220	605	71.	363.9	27.8
1	0555	72	46.	293.7	24.8	*	2	0410	339	91.	427.0	30.4	*	3	0225	606	70.	363.5	27.8
1	0600	73	46.	295.2	24.9	*	2	0415	340	91.	427.2	30.4	*	3	0230	607	70.	363.1	27.8
1	0605	74	46.	296.6	24.9	*	2	0420	341	91.	427.3	30.4	*	3	0235	608	70.	362.7	27.7
1	0610	75	46.	297.9	25.0	*	2	0425	342	91.	427.5	30.4	*	3	0240	609	70.	362.3	27.7
1	0615	76	46.	299.2	25.1	*	2	0430	343	91.	427.6	30.4	*	3	0245	610	70.	361.9	27.7
1	0620	77	47.	300.3	25.1	*	2	0435	344	91.	427.8	30.4	*	3	0250	611	70.	361.5	27.7
1	0625	78	47.	301.4	25.1	*	2	0440	345	91.	427.9	30.4	*	3	0255	612	70.	361.1	27.7
1	0630	79	48.	302.4	25.2	*	2	0445	346	91.	428.1	30.4	*	3	0300	613	69.	360.7	27.7
1	0635	80	48.	303.4	25.2	*	2	0450	347	91.	428.2	30.4	*	3	0305	614	69.	360.3	27.6
1	0640	81	48.	304.3	25.3	*	2	0455	348	91.	428.4	30.4	*	3	0310	615	69.	359.9	27.6
1	0645	82	49.	305.2	25.3	*	2	0500	349	91.	428.5	30.4	*	3	0315	616	69.	359.5	27.6
1	0650	83	49.	306.1	25.3	*	2	0505	350	91.	428.6	30.5	*	3	0320	617	69.	359.1	27.6
1	0655	84	49.	307.0	25.4	*	2	0510	351	91.	428.8	30.5	*	3	0325	618	69.	358.7	27.6
1	0700	85	50.	307.9	25.4	*	2	0515	352	91.	428.9	30.5	*	3	0330	619	68.	358.3	27.6
1	0705	86	50.	308.7	25.5	*	2	0520	353	91.	429.0	30.5	*	3	0335	620	68.	357.9	27.5
1	0710	87	50.	309.6	25.5	*	2	0525	354	91.	429.2	30.5	*	3	0340	621	68.	357.5	27.5
1	0715	88	51.	310.4	25.5	*	2	0530	355	91.	429.3	30.5	*	3	0345	622	68.	357.1	27.5
1	0720	89	51.	311.3	25.6	*	2	0535	356	91.	429.4	30.5	*	3	0350	623	68.	356.7	27.5
1	0725	90	51.	312.1	25.6	*	2	0540	357	91.	429.5	30.5	*	3	0355	624	68.	356.3	27.5
1	0730	91	52.	313.0	25.6	*	2	0545	358	91.	429.7	30.5	*	3	0400	625	68.	355.9	27.5
1	0735	92	52.	313.8	25.7	*	2	0550	359	91.	429.8	30.5	*	3	0405	626	67.	355.5	27.4
1	0740	93	52.	314.6	25.7	*	2	0555	360	91.	429.9	30.5	*	3	0410	627	67.	355.1	27.4
1	0745	94	53.	315.5	25.7	*	2	0600	361	91.	430.0	30.5	*	3	0415	628	67.	354.7	27.4
1	0750	95	53.	316.3	25.8	*	2	0605	362	91.	430.1	30.5	*	3	0420	629	67.	354.3	27.4
1	0755	96	53.	317.1	25.8	*	2	0610	363	91.	430.2	30.5	*	3	0425	630	67.	353.9	27.4
1	0800	97	53.	317.9	25.8	*	2	0615	364	91.	430.3	30.5	*	3	0430	631	67.	353.6	27.4
1	0805	98	54.	318.7	25.9	*	2	0620	365	91.	430.4	30.5	*	3	0435	632	67.	353.2	27.3
1	0810	99	54.	319.5	25.9	*	2	0625	366	91.	430.5	30.5	*	3	0440	633	66.	352.8	27.3
1	0815	100	54.	320.3	25.9	*	2	0630	367	91.	430.6	30.5	*	3	0445	634	66.	352.4	27.3
1	0820	101	55.	321.1	26.0	*	2	0635	368	91.	430.7	30.5	*	3	0450	635	66.	352.0	27.3
1	0825	102	55.	321.9	26.0	*	2	0640	369	91.	430.8	30.5	*	3	0455	636	66.	351.6	27.3
1	0830	103	55.	322.7	26.0	*	2	0645	370	91.	430.9	30.5	*	3	0500	637	66.	351.3	27.3
1	0835	104	56.	323.5	26.1	*	2	0650	371	91.	431.0	30.5	*	3	0505	638	66.	350.9	27.2
1	0840	105	56.	324.3	26.1	*	2	0655	372	91.	431.1	30.5	*	3	0510	639	66.	350.5	27.2
1	0845	106	56.	325.1	26.1	*	2	0700	373	91.	431.2	30.5	*	3	0515	640	65.	350.1	27.2
1	0850	107	56.	325.9	26.2	*	2	0705	374	91.	431.3	30.5	*	3	0520	641	65.	349.8	27.2
1	0855	108	57.	326.7	26.2	*	2	0710	375	91.	431.4	30.5	*	3	0525	642	65.	349.4	27.2
1	0900	109	57.	327.4	26.2	*	2	0715	376	91.	431.4	30.6	*	3	0530	643	65.	349.0	27.2
1	0905	110	57.	328.2	26.3	*	2	0720	377	91.	431.5	30.6	*	3	0535	644	65.	348.6	27.1
1	0910	111	58.	329.0	26.3	*	2	0725	378	91.	431.6	30.6	*	3	0540	645	65.	348.3	27.1
1	0915	112	58.	329.8	26.3	*	2	0730	379	91.	431.7	30.6	*	3	0545	646	65.	347.9	27.1
1	0920	113	58.	330.5	26.4	*	2	0735	380	91.	431.7	30.6	*	3	0550	647	64.	347.5	27.1
1	0925	114	58.	331.3	26.4	*	2	0740	381	91.	431.8	30.6	*	3	0555	648	64.	347.1	27.1
1	0930	115	59.	332.0	26.4	*	2	0745	382	91.	431.9	30.6	*	3	0600	649	64.	346.8	27.1
1	0935	116	59.	332.8	26.5	*	2	0750	383	91.	432.0	30.6	*	3	0605	650	64.	346.4	27.1
1	0940	117	59.	333.5	26.5	*	2	0755	384	91.	432.0	30.6	*	3	0610	651	64.	346.0	27.0
1	0945	118	60.	334.3	26.5	*	2	0800	385	91.	432.1	30.6	*	3	0615	652	64.	345.7	27.0
1	0950	119	60.	335.0	26.6	*	2	0805	386	91.	432.2	30.6	*	3	0620	653	64.	345.3	27.0
1	0955	120	60.	335.7	26.6	*	2	0810	387	91.	432.2	30.6	*	3	0625	654	64.	344.9	27.0
1	1000	121	60.	336.5	26.6	*	2	0815	388	91.	432.3	30.6	*	3	0630	655	63.	344.6	27.0
1	1005	122	61.	337.2	26.7	*	2	0820	389	91.	432.3	30.6	*	3	0635	656	63.	344.2	27.0
1	1010	123	61.	337.9	26.7	*	2	0825	390	91.	432.4	30.6	*	3	0640	657	63.	343.9	26.9
1	1015	124	61.	338.7	26.7	*	2	0830	391	91.	432.4	30.6	*	3	0645	658	63.	343.5	26.9
1	1020	125	61.	339.4	26.8	*	2	0835	392	91.	432.5	30.6	*	3	0650	659	63.	343.1	26.9
1	1025	126	62.	340.1	26.8	*	2	0840	393	91.	432.5	30.6	*	3	0655	660	63.	342.8	26.9
1	1030	127	62.	340.8	26.8	*	2	0845	394	91.	432.6	30.6	*	3	0700	661	63.	342.4	26.9
1	1035	128	62.	341.5	26.8	*	2	0850	395	91.	432.6	30.6	*	3	0705	662	62.	342.1	26.9
1	1040	129	62.	342.2	26.9	*	2	0855	396	91.	432.7	30.6	*	3	0710	663	62.	341.7	26.9
1	1045	130	63.	342.9	26.9	*	2	0900	397	91.	432.7	30.6	*	3	0715	664	62.	341.4	26.8
1	1050	131	63.	343.6	26.9	*	2	0905	398	91.	432.7	30.6	*	3	0720	665	62.	341.0	26.8
1	1055	132	63.	344.3	27.0	*	2	0910	399	91.	432.8	30.6	*	3	0725	666	62.	340.7	26.8
1	1100	133	64.	345.0	27.0	*	2	0915	400	91.	432.8	30.6	*	3	0730	667	62.	340.3	26.8
1	1105	134	64.	345.7	27.0	*	2	0920	401	91.	432.8	30.6	*	3	0735	668	62.	339.9	26.8
1	1110	135	64.	346.4	27.1	*	2	0925	402	91.	432.8	30.6	*	3	0740	669	62.	339.6	26.8
1	1115	136	64.	347.1	27.1	*	2	0930	403	91.	432.9	30.6	*	3	0745	670	61.	339.2	26.7
1	1120	137	65.	347.8	27.1	*	2	0935	404	91.	432.9	30.6	*	3	0750	671	61.	338.9	26.7
1	1125	138	65.	348.5	27.1	*	2	0940	405	91.	432.9	30.6	*	3	0755	672	61.	338.5	26.7
1	1130	139	65.	349.1	27.2	*	2	0945	406	91.	432.9	30.6	*	3	0800	673	61.	338.2	26.7
1	1135	140	65.	349.8	27.2	*	2	0950	407	91.	432.9	30.6	*	3	0805	674	61.	337.9	26.7
1	1140	141	66.	350.5	27.2	*	2	0955	408	91.	432.9	30.6	*	3	0810	675	61.	337.5	26.7
1	1145	142	66.	351.1	27.3	*	2	1000	409	91.	432.9	30.6	*	3	0815	676	61.	337.2	26.7
1	1150	143	66.	351.8	27.3	*	2	1005	410	91.	432.9	30.6	*	3	0820	677	60.	336.8	26.6
1	1155	144	66.	352.5	27.3	*	2	1010	411	91.	432.9	30.6	*	3	0825	678	60.	336.5	26.6
1	1200	145	67.	353.1	27.3	*	2	1015	412	91.	432.9	30.6	*	3	0830	679	60.	336.1	26.6
1	1205	146	67.	353.8	27.4	*	2	1020	413	91.	432.9	30.6	*	3	0835	680	60.	335.8	26.6
1	1210	147	67.	354.4	27.4	*	2	1025	414	91.	432.9	30.6	*	3	0840	681	60.	335.5	26.6
1	1215	148	67.	355.1	27.4	*	2	1030	415	91.	432.9	30.6	*	3	0845	682	60.	335.1	26.6
1	1220	149	68.	355.7	27.4	*	2	1035	416	91.	432.9	30.6	*	3	0850	683	60.	334.8	26.6
1	1225	150	68.	356.3	27.5	*	2	1040	417	91.	432.9	30.6	*	3	0855	684	60.	334.4	26.5
1	1230	151	68.	357.0	27.5	*	2	1045	418	91.	432.9	30.6	*	3	0900	685	59.	334.1	26.5
1	1235	152	68.	357.6	27.5	*	2	1050	419	91.	432.8	30.6	*	3	0905	686	59.	333.8	26.5
1	1240	153	68.	358.2	27.6	*	2	1055	420	91.	432.8	30.6	*	3	0910	687	59.	333.4	26.5
1	1245	154	69.	358.9	27.6	*	2	1100	421	91.	432.8	30.6	*	3	0915	688	59.	333.1	26.5
1	1250	155	69.	359.5	27.6	*	2	1105	422	91.	432.8	30.6	*	3	0920	689	59.	332.8	26.5
1	1255	156	69.	360.1	27.6	*	2	1110	423	91.	432.7	30.6	*	3	0925	690	59.	332.4	26.5
1	1300	157	69.	360.7	27.7	*	2	1115	424	91.	432.7	30.6	*	3	0930	691	59.	332.1	26.4
1	1305	158	70.	361.3	27.7	*	2	1120	425	91.	432.7	30.6	*	3	0935	692	59.	331.8	26.4
1	1310	159	70.	361.9	27.7	*	2	1125	426	91.	432.6	30.6	*	3	0940	693	58.	331.4	26.4
1	1315	160	70.	362.5	27.7	*	2	1130	427	91.	432.6	30.6	*	3	0945	694	58.	331.1	26.4
1	1320	161	70.	363.2	27.8	*	2	1135	428	91.	432.5	30.6	*	3	0950	695	58.	330.8	26.4
1	1325	162	71.	363.8	27.8	*	2	1140	429	91.	432.5	30.6	*	3	0955	696	58.	330.5	26.4
1	1330	163	71.	364.4	27.8	*	2	1145	430	91.	432.4	30.6	*	3	1000	697	58.	330.1	26.4

1	1335	164	71.	364.9	27.8 *	2	1150	431	91.	432.4	30.6 *	3	1005	698	58.	329.8	26.3
1	1340	165	71.	365.5	27.9 *	2	1155	432	91.	432.3	30.6 *	3	1010	699	58.	329.5	26.3
1	1345	166	71.	366.1	27.9 *	2	1200	433	91.	432.3	30.6 *	3	1015	700	58.	329.2	26.3
1	1350	167	72.	366.7	27.9 *	2	1205	434	91.	432.2	30.6 *	3	1020	701	57.	328.8	26.3
1	1355	168	72.	367.3	27.9 *	2	1210	435	91.	432.2	30.6 *	3	1025	702	57.	328.5	26.3
1	1400	169	72.	367.9	28.0 *	2	1215	436	91.	432.1	30.6 *	3	1030	703	57.	328.2	26.3
1	1405	170	72.	368.5	28.0 *	2	1220	437	91.	432.0	30.6 *	3	1035	704	57.	327.9	26.3
1	1410	171	72.	369.0	28.0 *	2	1225	438	91.	431.9	30.6 *	3	1040	705	57.	327.5	26.3
1	1415	172	73.	369.6	28.0 *	2	1230	439	91.	431.8	30.6 *	3	1045	706	57.	327.2	26.2
1	1420	173	73.	370.2	28.1 *	2	1235	440	91.	431.8	30.6 *	3	1050	707	57.	326.9	26.2
1	1425	174	73.	370.7	28.1 *	2	1240	441	91.	431.7	30.6 *	3	1055	708	57.	326.6	26.2
1	1430	175	73.	371.3	28.1 *	2	1245	442	91.	431.6	30.6 *	3	1100	709	57.	326.3	26.2
1	1435	176	74.	371.8	28.1 *	2	1250	443	91.	431.5	30.6 *	3	1105	710	56.	326.0	26.2
1	1440	177	74.	372.4	28.2 *	2	1255	444	91.	431.4	30.5 *	3	1110	711	56.	325.6	26.2
1	1445	178	74.	373.0	28.2 *	2	1300	445	91.	431.2	30.5 *	3	1115	712	56.	325.3	26.2
1	1450	179	74.	373.5	28.2 *	2	1305	446	91.	431.1	30.5 *	3	1120	713	56.	325.0	26.1
1	1455	180	74.	374.1	28.2 *	2	1310	447	91.	431.0	30.5 *	3	1125	714	56.	324.7	26.1
1	1500	181	75.	374.6	28.2 *	2	1315	448	91.	430.9	30.5 *	3	1130	715	56.	324.4	26.1
1	1505	182	75.	375.1	28.3 *	2	1320	449	91.	430.8	30.5 *	3	1135	716	56.	324.1	26.1
1	1510	183	75.	375.7	28.3 *	2	1325	450	91.	430.6	30.5 *	3	1140	717	56.	323.8	26.1
1	1515	184	75.	376.2	28.3 *	2	1330	451	91.	430.5	30.5 *	3	1145	718	55.	323.5	26.1
1	1520	185	75.	376.7	28.3 *	2	1335	452	91.	430.3	30.5 *	3	1150	719	55.	323.1	26.1
1	1525	186	76.	377.3	28.4 *	2	1340	453	91.	430.2	30.5 *	3	1155	720	55.	322.8	26.1
1	1530	187	76.	377.8	28.4 *	2	1345	454	91.	430.1	30.5 *	3	1200	721	55.	322.5	26.0
1	1535	188	76.	378.3	28.4 *	2	1350	455	91.	429.9	30.5 *	3	1205	722	55.	322.2	26.0
1	1540	189	76.	378.8	28.4 *	2	1355	456	91.	429.7	30.5 *	3	1210	723	55.	321.9	26.0
1	1545	190	76.	379.4	28.4 *	2	1400	457	91.	429.6	30.5 *	3	1215	724	55.	321.6	26.0
1	1550	191	77.	379.9	28.5 *	2	1405	458	91.	429.4	30.5 *	3	1220	725	55.	321.3	26.0
1	1555	192	77.	380.4	28.5 *	2	1410	459	91.	429.3	30.5 *	3	1225	726	55.	321.0	26.0
1	1600	193	77.	380.9	28.5 *	2	1415	460	91.	429.1	30.5 *	3	1230	727	54.	320.7	26.0
1	1605	194	77.	381.4	28.5 *	2	1420	461	91.	428.9	30.5 *	3	1235	728	54.	320.4	25.9
1	1610	195	77.	381.9	28.6 *	2	1425	462	91.	428.7	30.5 *	3	1240	729	54.	320.1	25.9
1	1615	196	77.	382.4	28.6 *	2	1430	463	91.	428.5	30.4 *	3	1245	730	54.	319.8	25.9
1	1620	197	78.	382.9	28.6 *	2	1435	464	91.	428.3	30.4 *	3	1250	731	54.	319.5	25.9
1	1625	198	78.	383.4	28.6 *	2	1440	465	91.	428.1	30.4 *	3	1255	732	54.	319.2	25.9
1	1630	199	78.	383.9	28.6 *	2	1445	466	91.	427.8	30.4 *	3	1300	733	54.	318.9	25.9
1	1635	200	78.	384.4	28.7 *	2	1450	467	91.	427.6	30.4 *	3	1305	734	54.	318.6	25.9
1	1640	201	78.	384.8	28.7 *	2	1455	468	91.	427.3	30.4 *	3	1310	735	54.	318.3	25.9
1	1645	202	79.	385.3	28.7 *	2	1500	469	91.	427.1	30.4 *	3	1315	736	53.	318.0	25.8
1	1650	203	79.	385.8	28.7 *	2	1505	470	91.	426.8	30.4 *	3	1320	737	53.	317.7	25.8
1	1655	204	79.	386.3	28.7 *	2	1510	471	91.	426.5	30.4 *	3	1325	738	53.	317.4	25.8
1	1700	205	79.	386.8	28.8 *	2	1515	472	91.	426.2	30.4 *	3	1330	739	53.	317.1	25.8
1	1705	206	79.	387.2	28.8 *	2	1520	473	90.	425.9	30.4 *	3	1335	740	53.	316.8	25.8
1	1710	207	79.	387.7	28.8 *	2	1525	474	90.	425.5	30.3 *	3	1340	741	53.	316.5	25.8
1	1715	208	80.	388.2	28.8 *	2	1530	475	90.	425.2	30.3 *	3	1345	742	53.	316.2	25.8
1	1720	209	80.	388.6	28.8 *	2	1535	476	90.	424.9	30.3 *	3	1350	743	53.	315.9	25.8
1	1725	210	80.	389.1	28.9 *	2	1540	477	90.	424.5	30.3 *	3	1355	744	53.	315.7	25.7
1	1730	211	80.	389.5	28.9 *	2	1545	478	90.	424.2	30.3 *	3	1400	745	52.	315.4	25.7
1	1735	212	80.	390.0	28.9 *	2	1550	479	90.	423.8	30.3 *	3	1405	746	52.	315.1	25.7
1	1740	213	80.	390.4	28.9 *	2	1555	480	90.	423.4	30.3 *	3	1410	747	52.	314.8	25.7
1	1745	214	81.	390.9	28.9 *	2	1600	481	90.	423.0	30.3 *	3	1415	748	52.	314.5	25.7
1	1750	215	81.	391.3	29.0 *	2	1605	482	90.	422.6	30.2 *	3	1420	749	52.	314.2	25.7
1	1755	216	81.	391.8	29.0 *	2	1610	483	90.	422.2	30.2 *	3	1425	750	52.	313.9	25.7
1	1800	217	81.	392.2	29.0 *	2	1615	484	90.	421.7	30.2 *	3	1430	751	52.	313.6	25.7
1	1805	218	81.	392.6	29.0 *	2	1620	485	90.	421.3	30.2 *	3	1435	752	52.	313.4	25.7
1	1810	219	81.	393.1	29.0 *	2	1625	486	90.	420.8	30.2 *	3	1440	753	52.	313.1	25.6
1	1815	220	82.	393.5	29.0 *	2	1630	487	90.	420.3	30.2 *	3	1445	754	52.	312.8	25.6
1	1820	221	82.	393.9	29.1 *	2	1635	488	90.	419.8	30.1 *	3	1450	755	51.	312.5	25.6
1	1825	222	82.	394.4	29.1 *	2	1640	489	90.	419.2	30.1 *	3	1455	756	51.	312.2	25.6
1	1830	223	82.	394.8	29.1 *	2	1645	490	90.	418.7	30.1 *	3	1500	757	51.	311.9	25.6
1	1835	224	82.	395.2	29.1 *	2	1650	491	90.	418.2	30.1 *	3	1505	758	51.	311.7	25.6
1	1840	225	82.	395.6	29.1 *	2	1655	492	90.	417.7	30.1 *	3	1510	759	51.	311.4	25.6
1	1845	226	83.	396.0	29.2 *	2	1700	493	90.	417.1	30.0 *	3	1515	760	51.	311.1	25.6
1	1850	227	83.	396.4	29.2 *	2	1705	494	90.	416.6	30.0 *	3	1520	761	51.	310.8	25.5
1	1855	228	83.	396.9	29.2 *	2	1710	495	90.	416.1	30.0 *	3	1525	762	51.	310.6	25.5
1	1900	229	83.	397.3	29.2 *	2	1715	496	90.	415.5	30.0 *	3	1530	763	51.	310.3	25.5
1	1905	230	83.	397.7	29.2 *	2	1720	497	90.	415.0	30.0 *	3	1535	764	50.	310.0	25.5
1	1910	231	83.	398.1	29.2 *	2	1725	498	89.	414.5	29.9 *	3	1540	765	50.	309.7	25.5
1	1915	232	83.	398.5	29.3 *	2	1730	499	89.	413.9	29.9 *	3	1545	766	50.	309.4	25.5
1	1920	233	84.	398.9	29.3 *	2	1735	500	89.	413.4	29.9 *	3	1550	767	50.	309.2	25.5
1	1925	234	84.	399.3	29.3 *	2	1740	501	89.	412.9	29.9 *	3	1555	768	50.	308.9	25.5
1	1930	235	84.	399.6	29.3 *	2	1745	502	89.	412.3	29.8 *	3	1600	769	50.	308.6	25.5
1	1935	236	84.	400.0	29.3 *	2	1750	503	88.	411.8	29.8 *	3	1605	770	50.	308.4	25.4
1	1940	237	84.	400.4	29.3 *	2	1755	504	88.	411.3	29.8 *	3	1610	771	50.	308.1	25.4
1	1945	238	84.	400.8	29.4 *	2	1800	505	88.	410.7	29.8 *	3	1615	772	50.	307.8	25.4
1	1950	239	84.	401.2	29.4 *	2	1805	506	88.	410.2	29.8 *	3	1620	773	50.	307.5	25.4
1	1955	240	85.	401.6	29.4 *	2	1810	507	88.	409.7	29.7 *	3	1625	774	49.	307.3	25.4
1	2000	241	85.	401.9	29.4 *	2	1815	508	87.	409.2	29.7 *	3	1630	775	49.	307.0	25.4
1	2005	242	85.	402.3	29.4 *	2	1820	509	87.	408.6	29.7 *	3	1635	776	49.	306.7	25.4
1	2010	243	85.	402.7	29.4 *	2	1825	510	87.	408.1	29.7 *	3	1640	777	49.	306.5	25.4
1	2015	244	85.	403.0	29.5 *	2	1830	511	87.	407.6	29.6 *	3	1645	778	49.	306.2	25.3
1	2020	245	85.	403.4	29.5 *	2	1835	512	87.	407.1	29.6 *	3	1650	779	49.	305.9	25.3
1	2025	246	85.	403.8	29.5 *	2	1840	513	86.	406.5	29.6 *	3	1655	780	49.	305.7	25.3
1	2030	247	86.	404.1	29.5 *	2	1845	514	86.	406.0	29.6 *	3	1700	781	49.	305.4	25.3
1	2035	248	86.	404.5	29.5 *	2	1850	515	86.	405.5	29.6 *	3	1705	782	49.	305.1	25.3
1	2040	249	86.	404.8	29.5 *	2	1855	516	86.	405.0	29.5 *	3	1710	783	49.	304.9	25.3
1	2045	250	86.	405.2	29.5 *	2	1900	517	86.	404.5	29.5 *	3	1715	784	48.	304.6	25.3
1	2050	251	86.	405.5	29.6 *	2	1905	518	86.	404.0	29.5 *	3	1720	785	48.	304.4	25.3
1	2055	252	86.	405.9	29.6 *	2	1910	519	85.	403.4	29.5 *	3	1725	786	48.	304.1	25.3
1	2100	253	86.	406.2	29.6 *	2	1915	520	85.	402.9	29.4 *	3	1730	787	48.	303.8	25.2
1	2105	254	86.	406.5	29.6 *	2	1920	521	85.	402.4	29.4 *	3	1735	788	48.	303.6	25.2
1	2110	255	87.	406.9	29.6 *	2	1925	522	85.	401.9	29.4 *	3	1740	789	48.	303.3	25.2
1	2115	256	87.	407.2	29.6 *	2	1930	523	85.	401.4	29.4 *	3	1745	790	48.	303.1	25.2
1	2120	257	87.	407.5	29.6 *	2	1935	524	84.	400.9	29.4 *	3	1750	791	48.	302.8	25.2
1	2125	258	87.	407.9	29.7 *	2	1940	525	84.	400.4	29.3 *	3	1755	792	48.	302.5	25.2

1	2130 259	87.	408.2	29.7 *	2	1945 526	84.	399.9	29.3 *	3	1800 793	48.	302.3	25.2
1	2135 260	87.	408.5	29.7 *	2	1950 527	84.	399.4	29.3 *	3	1805 794	48.	302.0	25.2
1	2140 261	87.	408.8	29.7 *	2	1955 528	84.	398.9	29.3 *	3	1810 795	47.	301.8	25.2
1	2145 262	87.	409.2	29.7 *	2	2000 529	83.	398.4	29.3 *	3	1815 796	47.	301.5	25.1
1	2150 263	88.	409.5	29.7 *	2	2005 530	83.	397.9	29.2 *	3	1820 797	47.	301.3	25.1
1	2155 264	88.	409.8	29.7 *	2	2010 531	83.	397.4	29.2 *	3	1825 798	47.	301.0	25.1
1	2200 265	88.	410.1	29.7 *	2	2015 532	83.	396.9	29.2 *	3	1830 799	47.	300.8	25.1
1	2205 266	88.	410.4	29.8 *	2	2020 533	83.	396.4	29.2 *	3	1835 800	47.	300.5	25.1
1	2210 267	88.	410.7	29.8 *	2	2025 534	83.	395.9	29.1 *					
				*					*					

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PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	66.58-HR
(CFS)	(HR)					
		(CFS)				
91.	33.83		91.	90.	70.	70.
		(INCHES)	.081	.318	.691	.691
		(AC-FT)	45.	178.	386.	386.

PEAK STORAGE	TIME		MAXIMUM AVERAGE STORAGE			
			6-HR	24-HR	72-HR	66.58-HR
(AC-FT)	(HR)					
433.	34.08		432.	422.	353.	353.

PEAK STAGE	TIME		MAXIMUM AVERAGE STAGE			
			6-HR	24-HR	72-HR	66.58-HR
(FEET)	(HR)					
30.60	34.08		30.58	30.21	26.78	26.78

CUMULATIVE AREA = 10.47 SQ MI

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

					RATIOS APPLIED TO PRECIPITATION							
OPERATION	STATION	AREA	PLAN		RATIO 1 1.00	RATIO 2 .98	RATIO 3 .97	RATIO 4 .95	RATIO 5 .93	RATIO 6 .91	RATIO 7 .90	RATIO 8 .88
HYDROGRAPH AT												
+	CAMDK1	.09	1	FLOW	126.	123.	121.	118.	114.	110.	109.	105.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	RCAMDK1	.09	1	FLOW	125.	123.	120.	118.	113.	110.	108.	104.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	CAMDK2	.25	1	FLOW	366.	356.	351.	342.	331.	321.	316.	306.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT												
+	COMDK2	.34	1	FLOW	491.	479.	471.	460.	444.	431.	424.	411.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO												
+	RCAMDK2	.34	1	FLOW	478.	465.	456.	447.	430.	416.	413.	399.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.75
HYDROGRAPH AT												
+	CAMDK3	.37	1	FLOW	485.	472.	465.	454.	439.	426.	420.	407.
				TIME	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75
2 COMBINED AT												
+	COMDK3	.71	1	FLOW	961.	934.	919.	898.	866.	840.	830.	806.
				TIME	3.67	3.67	3.67	3.67	3.67	3.75	3.75	3.75
HYDROGRAPH AT												
+	CAM10D	.04	1	FLOW	88.	86.	85.	83.	81.	79.	78.	77.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	CAM10a	1.67	1	FLOW	1828.	1779.	1754.	1710.	1656.	1606.	1582.	1533.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
HYDROGRAPH AT												
+	CAM10b	.03	1	FLOW	60.	58.	57.	56.	54.	53.	52.	50.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	CAM10c	1.30	1	FLOW	1435.	1397.	1377.	1343.	1300.	1262.	1243.	1204.
				TIME	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
5 COMBINED AT												
+	COMCAM	3.75	1	FLOW	4149.	4037.	3983.	3882.	3759.	3647.	3592.	3482.
				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
ROUTED TO												
+	DETCAM10	3.75	1	FLOW	1025.	852.	737.	509.	168.	166.	165.	163.
				TIME	5.25	5.33	5.42	5.58	6.08	6.08	6.08	6.00

			** PEAK STAGES IN FEET **									
			1	STAGE	3000.32	3000.26	3000.21	3000.13	2999.93	2999.35	2999.07	2998.50
				TIME	5.25	5.33	5.42	5.58	6.08	6.08	6.08	6.08
ROUTED TO												
+	RCAM10	3.75	1	FLOW	1008.	828.	724.	506.	168.	166.	165.	163.
				TIME	5.25	5.33	5.42	5.58	6.08	6.08	6.08	6.08
HYDROGRAPH AT												
+	CDMNA3	.14	1	FLOW	167.	162.	159.	155.	149.	144.	142.	136.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	EFPOA1	.31	1	FLOW	351.	340.	334.	324.	312.	300.	295.	284.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT												
+	COM1A	.45	1	FLOW	518.	502.	494.	479.	461.	445.	436.	420.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO												
+	RCOM1A	.45	1	FLOW	509.	492.	484.	469.	451.	435.	427.	411.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	EFPOA2	.23	1	FLOW	245.	237.	233.	226.	217.	209.	205.	197.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT												
+	COM1B	.68	1	FLOW	754.	729.	716.	695.	667.	644.	632.	608.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO												
+	RCOM1B	.68	1	FLOW	735.	710.	698.	677.	651.	628.	616.	595.
				TIME	3.67	3.67	3.67	3.67	3.75	3.75	3.75	3.75
HYDROGRAPH AT												
+	EFPOB1	.24	1	FLOW	298.	290.	285.	277.	268.	259.	255.	246.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
3 COMBINED AT												
+	COM2	4.66	1	FLOW	1164.	1103.	1086.	1055.	1018.	986.	970.	938.
				TIME	5.25	3.67	3.67	3.67	3.75	3.75	3.75	3.75
ROUTED TO												
+	RCOM2	4.66	1	FLOW	1143.	1099.	1082.	1054.	1016.	984.	967.	935.
				TIME	5.25	3.75	3.75	3.75	3.75	3.75	3.75	3.75
HYDROGRAPH AT												
+	EFPOB2	.26	1	FLOW	396.	384.	379.	368.	356.	344.	339.	327.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	COM3	4.93	1	FLOW	1462.	1418.	1396.	1356.	1308.	1266.	1244.	1199.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	WBCA	.06	1	FLOW	75.	73.	72.	71.	69.	67.	66.	64.
				TIME	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
HYDROGRAPH AT												
+	HLBW1-CA	.39	1	FLOW	502.	487.	480.	467.	451.	437.	430.	416.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
3 COMBINED AT												
+	COM4	5.38	1	FLOW	2029.	1969.	1939.	1884.	1819.	1761.	1731.	1670.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO												
+	RCOM4	5.38	1	FLOW	2007.	1947.	1917.	1862.	1798.	1739.	1710.	1652.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.75
HYDROGRAPH AT												
+	HLBW1-CB	.12	1	FLOW	145.	140.	138.	134.	129.	125.	123.	118.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
2 COMBINED AT												
+	COM5	5.50	1	FLOW	2152.	2087.	2055.	1996.	1927.	1864.	1833.	1767.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO												
+	RCOM5	5.50	1	FLOW	2130.	2065.	2034.	1978.	1909.	1850.	1819.	1758.
				TIME	3.67	3.67	3.67	3.75	3.75	3.75	3.75	3.75
HYDROGRAPH AT												
+	WBAW	.06	1	FLOW	81.	79.	78.	76.	73.	71.	70.	68.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	WRBW1	.24	1	FLOW	309.	300.	295.	287.	277.	268.	263.	254.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
3 COMBINED AT												
+	COM6	5.80	1	FLOW	2520.	2444.	2407.	2337.	2256.	2182.	2144.	2068.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67

ROUTED TO												
+	RCOM6	5.80	1	FLOW	2484.	2406.	2372.	2303.	2224.	2152.	2118.	2046.
				TIME	3.67	3.67	3.67	3.75	3.75	3.75	3.75	3.75
HYDROGRAPH AT												
+	LWBW1C	.06	1	FLOW	98.	96.	94.	92.	89.	86.	85.	83.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	LMDBN	.02	1	FLOW	34.	33.	32.	31.	30.	29.	29.	28.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT												
+	CLMDBN	5.88	1	FLOW	2589.	2508.	2474.	2400.	2314.	2239.	2200.	2119.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	BOXCANYO	3.41	1	FLOW	2842.	2762.	2722.	2649.	2562.	2482.	2442.	2363.
				TIME	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
ROUTED TO												
+	DBOXDET	3.41	1	FLOW	15.	14.	14.	14.	13.	13.	13.	12.
				TIME	7.67	7.67	7.67	7.67	7.67	7.67	7.67	7.67
			**	PEAK STAGES IN FEET **								
			1	STAGE	38.88	37.77	37.21	36.22	35.01	33.92	33.37	32.28
				TIME	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75
ROUTED TO												
+	RBOXDET	3.41	1	FLOW	15.	14.	14.	14.	13.	13.	13.	12.
				TIME	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75
HYDROGRAPH AT												
+	LWBW1A	.32	1	FLOW	399.	386.	380.	369.	356.	343.	337.	325.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	UVB1-2A	.25	1	FLOW	365.	354.	349.	340.	328.	318.	313.	302.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
DIVERSION TO												
+	EDIV2A	.25	1	FLOW	282.	282.	282.	282.	282.	282.	282.	282.
				TIME	3.50	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	NDIV2A	.25	1	FLOW	83.	72.	67.	58.	46.	36.	31.	20.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	RUVB1-2A	.25	1	FLOW	79.	72.	65.	55.	43.	30.	24.	17.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
3 COMBINED AT												
+	COM7	3.98	1	FLOW	480.	461.	447.	427.	401.	375.	363.	344.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO												
+	RCOM7	3.98	1	FLOW	470.	449.	437.	417.	392.	369.	357.	339.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	UVB1-2B	.02	1	FLOW	38.	37.	37.	36.	35.	34.	33.	33.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	LWBW1B	.08	1	FLOW	135.	132.	130.	127.	123.	120.	118.	115.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT												
+	COM8	4.08	1	FLOW	609.	584.	570.	547.	518.	491.	478.	456.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO												
+	RCOM8	4.08	1	FLOW	604.	580.	565.	543.	515.	489.	476.	455.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	RETDIV2A	.00	1	FLOW	282.	282.	282.	282.	282.	282.	282.	282.
				TIME	3.50	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	RDIV2A	.00	1	FLOW	282.	282.	282.	282.	282.	282.	282.	282.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	UVB1-2C	.03	1	FLOW	59.	58.	57.	56.	54.	53.	52.	50.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	COM10	.03	1	FLOW	341.	340.	338.	336.	332.	330.	328.	325.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	COM9	4.11	1	FLOW	932.	906.	891.	867.	838.	811.	798.	775.

				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
HYDROGRAPH AT												
+	UVB1-1C	.02	1	FLOW	38.	37.	37.	36.	35.	34.	33.	32.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
ROUTED TO												
+	RUVB1-1C	.02	1	FLOW	35.	34.	34.	33.	32.	31.	31.	30.
				TIME	3.50	3.50	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	UVB1-1B	.01	1	FLOW	26.	26.	25.	25.	24.	23.	23.	22.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	COM11	.03	1	FLOW	62.	60.	59.	58.	56.	54.	54.	52.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
HYDROGRAPH AT												
+	UVB1-1A	.22	1	FLOW	413.	403.	398.	389.	378.	368.	363.	352.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	RUVB1-1A	.22	1	FLOW	409.	399.	394.	385.	374.	363.	358.	348.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	UVB1-1D	.04	1	FLOW	70.	68.	67.	66.	64.	62.	61.	59.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
2 COMBINED AT												
+	COM12	.26	1	FLOW	474.	462.	456.	446.	433.	421.	415.	404.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	RCOM12	.26	1	FLOW	470.	458.	453.	442.	430.	417.	411.	400.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	UVB1-1E	.03	1	FLOW	56.	55.	54.	53.	51.	50.	49.	48.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
ROUTED TO												
+	RUVB1-1E	.03	1	FLOW	54.	53.	51.	50.	49.	48.	47.	46.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT												
+	COM13	.31	1	FLOW	580.	565.	558.	545.	530.	515.	508.	494.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	WBCL	.03	1	FLOW	60.	59.	58.	57.	55.	54.	53.	51.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	LMBW1	.08	1	FLOW	112.	109.	107.	104.	100.	96.	94.	91.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
3 COMBINED AT												
+	COM14	.43	1	FLOW	753.	733.	723.	706.	685.	665.	655.	636.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
HYDROGRAPH AT												
+	LMDBS	.06	1	FLOW	92.	90.	88.	86.	83.	80.	79.	76.
				TIME	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
3 COMBINED AT												
+	CLMDBS	4.60	1	FLOW	1739.	1689.	1666.	1626.	1578.	1534.	1513.	1470.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	CLMBWCDB	10.47	1	FLOW	4200.	4076.	4017.	3905.	3771.	3652.	3591.	3471.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67
ROUTED TO												
+	LMBWCDB	10.47	1	FLOW	95.	94.	94.	93.	92.	92.	91.	91.
				TIME	35.50	35.58	35.67	35.75	35.92	35.25	34.58	33.83
			**	PEAK STAGES IN FEET **								
			1	STAGE	33.73	33.09	32.79	32.27	31.68	31.23	31.02	30.60
				TIME	35.75	35.83	35.92	36.00	36.00	35.25	34.92	34.08
HYDROGRAPH AT												
+	WBLM	.08	1	FLOW	129.	126.	124.	121.	117.	114.	112.	109.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
2 COMBINED AT												
+	COM15	10.55	1	FLOW	167.	163.	161.	158.	154.	150.	148.	145.
				TIME	3.58	3.58	3.58	3.58	3.58	3.58	3.58	3.58
ROUTED TO												
+	RLMBWDB	10.55	1	FLOW	163.	160.	158.	155.	151.	147.	146.	142.
				TIME	3.67	3.67	3.67	3.67	3.67	3.67	3.67	3.67

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SUMMARY OF KINEMATIC WAVE - MUSKINGUM-CUNGE ROUTING

(FLOW IS DIRECT RUNOFF WITHOUT BASE FLOW)

ISTAQ	ELEMENT	DT	PEAK	TIME TO PEAK	VOLUME	INTERPOLATED TO COMPUTATION INTERVAL DT	PEAK	TIME TO PEAK	VOLUME
		(MIN)	(CFS)	(MIN)	(IN)	(MIN)	(CFS)	(MIN)	(IN)
FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.62	125.85	220.97	2.04	5.00	124.90	220.00	2.04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9257E+01 EXCESS= .0000E+00 OUTFLOW= .9263E+01 BASIN STORAGE= .2702E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.66	123.01	219.62	1.98	5.00	122.80	220.00	1.99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8992E+01 EXCESS= .0000E+00 OUTFLOW= .8997E+01 BASIN STORAGE= .2442E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.68	120.82	220.79	1.96	5.00	119.80	220.00	1.95

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8857E+01 EXCESS= .0000E+00 OUTFLOW= .8863E+01 BASIN STORAGE= .2048E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.72	118.38	219.24	1.90	5.00	118.06	220.00	1.90

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8623E+01 EXCESS= .0000E+00 OUTFLOW= .8628E+01 BASIN STORAGE= .2725E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.76	113.77	221.94	1.84	5.00	113.27	220.00	1.84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8333E+01 EXCESS= .0000E+00 OUTFLOW= .8339E+01 BASIN STORAGE= .2339E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.81	110.66	220.69	1.78	5.00	109.59	220.00	1.78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8069E+01 EXCESS= .0000E+00 OUTFLOW= .8074E+01 BASIN STORAGE= .2146E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.83	108.63	221.99	1.75	5.00	108.01	220.00	1.75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7940E+01 EXCESS= .0000E+00 OUTFLOW= .7945E+01 BASIN STORAGE= .2375E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK1	MANE	3.87	105.52	220.80	1.69	5.00	104.32	220.00	1.69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .7678E+01 EXCESS= .0000E+00 OUTFLOW= .7683E+01 BASIN STORAGE= .2151E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00									
RCAMDK2	MANE	2.22	482.61	221.72	2.06	5.00	477.89	220.00	2.06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3740E+02 EXCESS= .0000E+00 OUTFLOW= .3741E+02 BASIN STORAGE= .2447E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCAMDK2	MANE	2.24	470.05	223.78	2.00	5.00	464.58	220.00	2.00

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3634E+02 EXCESS= .0000E+00 OUTFLOW= .3634E+02 BASIN STORAGE= .2664E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCAMDK2	MANE	2.25	464.84	222.92	1.97	5.00	456.22	220.00	1.97

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3579E+02 EXCESS= .0000E+00 OUTFLOW= .3580E+02 BASIN STORAGE= .2466E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCAMDK2	MANE	2.27	454.86	222.56	1.92	5.00	446.57	220.00	1.92

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3485E+02 EXCESS= .0000E+00 OUTFLOW= .3485E+02 BASIN STORAGE= .2759E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00									
RCAMDK2	MANE	2.30	437.88	223.15	1.86	5.00	429.88	220.00	1.86

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3367E+02 EXCESS= .0000E+00 OUTFLOW= .3367E+02 BASIN STORAGE= .2346E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAMDK2	MANE	2.33	424.38	223.41	1.80	5.00	416.22	220.00	1.80

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3260E+02 EXCESS= .0000E+00 OUTFLOW= .3261E+02 BASIN STORAGE= .2260E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAMDK2	MANE	2.34	419.81	222.34	1.77	5.00	413.21	220.00	1.77

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3211E+02 EXCESS= .0000E+00 OUTFLOW= .3211E+02 BASIN STORAGE= .2205E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAMDK2	MANE	2.37	405.94	222.67	1.71	5.00	398.71	225.00	1.71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3105E+02 EXCESS= .0000E+00 OUTFLOW= .3105E+02 BASIN STORAGE= .2094E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	1.83	1018.10	317.21	2.16	5.00	1007.66	315.00	2.16

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4319E+03 EXCESS= .0000E+00 OUTFLOW= .4319E+03 BASIN STORAGE= .2978E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	1.90	839.36	323.44	2.10	5.00	827.59	320.00	2.10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4197E+03 EXCESS= .0000E+00 OUTFLOW= .4197E+03 BASIN STORAGE= .2920E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	1.96	729.32	327.11	2.07	5.00	723.58	325.00	2.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4136E+03 EXCESS= .0000E+00 OUTFLOW= .4136E+03 BASIN STORAGE= .2793E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	2.11	506.32	335.42	2.01	5.00	506.01	335.00	2.01

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4027E+03 EXCESS= .0000E+00 OUTFLOW= .4027E+03 BASIN STORAGE= .2783E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	2.63	168.26	365.84	1.95	5.00	168.26	365.00	1.95

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3893E+03 EXCESS= .0000E+00 OUTFLOW= .3893E+03 BASIN STORAGE= .2959E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	2.64	166.20	366.74	1.89	5.00	166.20	365.00	1.89

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3772E+03 EXCESS= .0000E+00 OUTFLOW= .3772E+03 BASIN STORAGE= .2918E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	2.64	165.20	364.54	1.86	5.00	165.20	365.00	1.86

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3713E+03 EXCESS= .0000E+00 OUTFLOW= .3713E+03 BASIN STORAGE= .2778E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCAM10	MANE	2.65	163.16	365.45	1.80	5.00	163.16	365.00	1.80

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3593E+03 EXCESS= .0000E+00 OUTFLOW= .3593E+03 BASIN STORAGE= .3052E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.35	514.38	221.58	1.60	5.00	508.79	220.00	1.60

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3852E+02 EXCESS= .0000E+00 OUTFLOW= .3852E+02 BASIN STORAGE= .2138E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.37	497.26	221.74	1.55	5.00	491.95	220.00	1.55

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3726E+02 EXCESS= .0000E+00 OUTFLOW= .3726E+02 BASIN STORAGE= .2074E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.38	488.66	221.83	1.52	5.00	483.55	220.00	1.52

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3663E+02 EXCESS= .0000E+00 OUTFLOW= .3663E+02 BASIN STORAGE= .1961E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.39	474.52	221.76	1.48	5.00	469.00	220.00	1.48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3551E+02 EXCESS= .0000E+00 OUTFLOW= .3551E+02 BASIN STORAGE= .2069E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.42	456.55	220.94	1.42	5.00	450.61	220.00	1.42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3414E+02 EXCESS= .0000E+00 OUTFLOW= .3414E+02 BASIN STORAGE= .2121E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.44	441.68	221.28	1.37	5.00	434.99	220.00	1.37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3291E+02 EXCESS= .0000E+00 OUTFLOW= .3291E+02 BASIN STORAGE= .1912E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.45	434.21	221.47	1.34	5.00	427.39	220.00	1.34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3230E+02 EXCESS= .0000E+00 OUTFLOW= .3230E+02 BASIN STORAGE= .1834E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1A	MANE	1.47	416.40	221.90	1.29	5.00	410.53	220.00	1.29

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3108E+02 EXCESS= .0000E+00 OUTFLOW= .3108E+02 BASIN STORAGE= .1959E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.25	750.30	221.49	1.58	5.00	735.50	220.00	1.59

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5729E+02 EXCESS= .0000E+00 OUTFLOW= .5729E+02 BASIN STORAGE= .2148E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.27	724.43	221.95	1.53	5.00	709.96	220.00	1.53

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5540E+02 EXCESS= .0000E+00 OUTFLOW= .5540E+02 BASIN STORAGE= .2362E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.28	711.59	222.21	1.51	5.00	698.10	220.00	1.51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5447E+02 EXCESS= .0000E+00 OUTFLOW= .5447E+02 BASIN STORAGE= .2081E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.29	690.10	221.09	1.46	5.00	676.86	220.00	1.46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5279E+02 EXCESS= .0000E+00 OUTFLOW= .5278E+02 BASIN STORAGE= .2010E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.31	663.99	222.02	1.40	5.00	650.70	225.00	1.40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5074E+02 EXCESS= .0000E+00 OUTFLOW= .5073E+02 BASIN STORAGE= .2199E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.33	640.88	221.24	1.35	5.00	628.27	225.00	1.35

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4890E+02 EXCESS= .0000E+00 OUTFLOW= .4889E+02 BASIN STORAGE= .2379E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.34	630.06	221.50	1.33	5.00	616.27	225.00	1.33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4798E+02 EXCESS= .0000E+00 OUTFLOW= .4798E+02 BASIN STORAGE= .2121E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM1B	MANE	1.36	604.44	222.34	1.28	5.00	594.56	225.00	1.28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4615E+02 EXCESS= .0000E+00 OUTFLOW= .4615E+02 BASIN STORAGE= .2023E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.33	1156.68	316.18	2.06	5.00	1143.29	315.00	2.06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5127E+03 EXCESS= .0000E+00 OUTFLOW= .5127E+03 BASIN STORAGE= .2549E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.36	1103.94	222.62	2.00	5.00	1098.55	225.00	2.00

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4979E+03 EXCESS= .0000E+00 OUTFLOW= .4979E+03 BASIN STORAGE= .2494E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.37	1087.34	222.63	1.97	5.00	1082.40	225.00	1.97

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4905E+03 EXCESS= .0000E+00 OUTFLOW= .4905E+03 BASIN STORAGE= .2595E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.38	1056.83	222.41	1.92	5.00	1054.06	225.00	1.92

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4772E+03 EXCESS= .0000E+00 OUTFLOW= .4772E+03 BASIN STORAGE= .2569E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.40	1019.67	222.80	1.85	5.00	1015.86	225.00	1.85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4611E+03 EXCESS= .0000E+00 OUTFLOW= .4611E+03 BASIN STORAGE= .2501E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.42	987.53	222.83	1.79	5.00	983.76	225.00	1.79

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4464E+03 EXCESS= .0000E+00 OUTFLOW= .4464E+03 BASIN STORAGE= .2549E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.43	970.64	222.93	1.77	5.00	966.93	225.00	1.77

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4393E+03 EXCESS= .0000E+00 OUTFLOW= .4392E+03 BASIN STORAGE= .2587E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM2	MANE	1.45	936.66	222.98	1.71	5.00	934.66	225.00	1.71

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4247E+03 EXCESS= .0000E+00 OUTFLOW= .4247E+03 BASIN STORAGE= .2581E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.62	2027.84	220.72	2.05	5.00	2007.10	220.00	2.05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5876E+03 EXCESS= .0000E+00 OUTFLOW= .5876E+03 BASIN STORAGE= .1482E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.63	1968.17	220.85	1.99	5.00	1946.98	220.00	1.99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5706E+03 EXCESS= .0000E+00 OUTFLOW= .5706E+03 BASIN STORAGE= .1478E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.63	1938.16	220.94	1.96	5.00	1916.97	220.00	1.96

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5621E+03 EXCESS= .0000E+00 OUTFLOW= .5621E+03 BASIN STORAGE= .1441E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.64	1883.37	220.94	1.91	5.00	1861.99	220.00	1.91

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5468E+03 EXCESS= .0000E+00 OUTFLOW= .5468E+03 BASIN STORAGE= .1471E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM4	MANE	.65	1818.77	220.81	1.84	5.00	1797.58	220.00	1.84

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5282E+03 EXCESS= .0000E+00 OUTFLOW= .5282E+03 BASIN STORAGE= .1482E-02 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

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            RCOM4  MANE          .66   1760.10    221.09      1.78      5.00   1738.80    220.00        1.78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5115E+03 EXCESS= .0000E+00 OUTFLOW= .5115E+03 BASIN STORAGE= .1474E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM4  MANE          .66   1730.13    221.28      1.75      5.00   1710.13    220.00        1.75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5032E+03 EXCESS= .0000E+00 OUTFLOW= .5032E+03 BASIN STORAGE= .1457E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM4  MANE          .67   1669.98    221.11      1.70      5.00   1652.44    225.00        1.70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4865E+03 EXCESS= .0000E+00 OUTFLOW= .4865E+03 BASIN STORAGE= .1483E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM5  MANE          .55   2151.51    220.87      2.04      5.00   2129.68    220.00        2.04

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5982E+03 EXCESS= .0000E+00 OUTFLOW= .5982E+03 BASIN STORAGE= .1304E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM5  MANE          .55   2087.28    220.80      1.98      5.00   2065.19    220.00        1.98

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5808E+03 EXCESS= .0000E+00 OUTFLOW= .5808E+03 BASIN STORAGE= .1301E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM5  MANE          .56   2054.99    221.06      1.95      5.00   2033.93    220.00        1.95

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5721E+03 EXCESS= .0000E+00 OUTFLOW= .5721E+03 BASIN STORAGE= .1301E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM5  MANE          .56   1996.59    220.83      1.90      5.00   1977.58    225.00        1.90

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5566E+03 EXCESS= .0000E+00 OUTFLOW= .5566E+03 BASIN STORAGE= .1333E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM5  MANE          .57   1927.43    221.11      1.83      5.00   1909.36    225.00        1.83

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5377E+03 EXCESS= .0000E+00 OUTFLOW= .5377E+03 BASIN STORAGE= .1329E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM5  MANE          .58   1864.67    221.17      1.78      5.00   1849.87    225.00        1.78

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5206E+03 EXCESS= .0000E+00 OUTFLOW= .5206E+03 BASIN STORAGE= .1325E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM5  MANE          .58   1833.65    220.90      1.75      5.00   1819.44    225.00        1.75

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5121E+03 EXCESS= .0000E+00 OUTFLOW= .5121E+03 BASIN STORAGE= .1309E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM5  MANE          .59   1768.55    221.20      1.69      5.00   1758.35    225.00        1.69

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4951E+03 EXCESS= .0000E+00 OUTFLOW= .4951E+03 BASIN STORAGE= .1337E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM6  MANE          .82   2514.44    220.91      2.03      5.00   2483.72    220.00        2.03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6268E+03 EXCESS= .0000E+00 OUTFLOW= .6268E+03 BASIN STORAGE= .2140E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM6  MANE          .83   2437.41    221.14      1.97      5.00   2405.60    220.00        1.97

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6085E+03 EXCESS= .0000E+00 OUTFLOW= .6085E+03 BASIN STORAGE= .2082E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM6  MANE          .84   2402.07    220.82      1.94      5.00   2372.08    220.00        1.94

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5994E+03 EXCESS= .0000E+00 OUTFLOW= .5994E+03 BASIN STORAGE= .2153E-02 PERCENT ERROR=    .0
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          FOR PLAN = 1  RATIO=  .00
            RCOM6  MANE          .85   2331.20    220.91      1.89      5.00   2302.59    225.00        1.89

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5831E+03 EXCESS= .0000E+00 OUTFLOW= .5831E+03 BASIN STORAGE= .2176E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM6  MANE          .86   2250.60    221.46      1.82      5.00   2223.69    225.00        1.82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5631E+03 EXCESS= .0000E+00 OUTFLOW= .5631E+03 BASIN STORAGE= .2077E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM6  MANE          .87   2176.76    220.97      1.76      5.00   2152.49    225.00        1.76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5452E+03 EXCESS= .0000E+00 OUTFLOW= .5452E+03 BASIN STORAGE= .2093E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM6  MANE          .88   2139.69    221.65      1.73      5.00   2117.72    225.00        1.74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5363E+03 EXCESS= .0000E+00 OUTFLOW= .5363E+03 BASIN STORAGE= .2075E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM6  MANE          .89   2064.39    221.30      1.68      5.00   2046.27    225.00        1.68

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5184E+03 EXCESS= .0000E+00 OUTFLOW= .5184E+03 BASIN STORAGE= .2163E-02 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RBOXDET  MANE        5.00     14.60    470.00       .38      5.00     14.60    470.00         .38

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6957E+02 EXCESS= .0000E+00 OUTFLOW= .6947E+02 BASIN STORAGE= .1053E+00 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RBOXDET  MANE        5.00     14.20    470.00       .37      5.00     14.20    470.00         .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6767E+02 EXCESS= .0000E+00 OUTFLOW= .6757E+02 BASIN STORAGE= .1030E+00 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RBOXDET  MANE        5.00     14.00    470.00       .37      5.00     14.00    470.00         .37

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6672E+02 EXCESS= .0000E+00 OUTFLOW= .6662E+02 BASIN STORAGE= .1019E+00 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RBOXDET  MANE        5.00     13.64    470.00       .36      5.00     13.64    470.00         .36

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6502E+02 EXCESS= .0000E+00 OUTFLOW= .6492E+02 BASIN STORAGE= .9978E-01 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RBOXDET  MANE        5.00     13.21    470.00       .34      5.00     13.21    470.00         .34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6295E+02 EXCESS= .0000E+00 OUTFLOW= .6285E+02 BASIN STORAGE= .9723E-01 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RBOXDET  MANE        5.00     12.82    470.00       .33      5.00     12.82    470.00         .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6108E+02 EXCESS= .0000E+00 OUTFLOW= .6098E+02 BASIN STORAGE= .9491E-01 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RBOXDET  MANE        5.00     12.62    470.00       .33      5.00     12.62    470.00         .33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6014E+02 EXCESS= .0000E+00 OUTFLOW= .6005E+02 BASIN STORAGE= .9375E-01 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RBOXDET  MANE        5.00     12.23    470.00       .32      5.00     12.23    470.00         .32

CONTINUITY SUMMARY (AC-FT) - INFLOW= .5828E+02 EXCESS= .0000E+00 OUTFLOW= .5819E+02 BASIN STORAGE= .9142E-01 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RUVB1-2A  MANE       2.94     79.32    220.40       .13      5.00     79.13    220.00         .13
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .1729E+01 EXCESS= .0000E+00 OUTFLOW= .1732E+01 BASIN STORAGE= .2098E-02 PERCENT ERROR= -.3

FOR PLAN = 1 RATIO= .00

RUVB1-2A	MANE	3.10	73.08	220.23	.11	5.00	71.92	220.00	.11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1474E+01 EXCESS= .0000E+00 OUTFLOW= .1477E+01 BASIN STORAGE= .2086E-02 PERCENT ERROR= -.4

FOR PLAN = 1 RATIO= .00

RUVB1-2A	MANE	3.20	66.86	220.53	.11	5.00	64.78	220.00	.11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1393E+01 EXCESS= .0000E+00 OUTFLOW= .1396E+01 BASIN STORAGE= .2199E-02 PERCENT ERROR= -.4

FOR PLAN = 1 RATIO= .00

RUVB1-2A	MANE	3.39	58.89	220.65	.10	5.00	55.46	220.00	.10

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1239E+01 EXCESS= .0000E+00 OUTFLOW= .1243E+01 BASIN STORAGE= .2125E-02 PERCENT ERROR= -.5

FOR PLAN = 1 RATIO= .00

RUVB1-2A	MANE	3.71	44.61	218.79	.08	5.00	43.39	220.00	.08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1094E+01 EXCESS= .0000E+00 OUTFLOW= .1097E+01 BASIN STORAGE= .2252E-02 PERCENT ERROR= -.5

FOR PLAN = 1 RATIO= .00

RUVB1-2A	MANE	4.10	34.60	221.67	.07	5.00	29.61	220.00	.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9087E+00 EXCESS= .0000E+00 OUTFLOW= .9117E+00 BASIN STORAGE= .2159E-02 PERCENT ERROR= -.6

FOR PLAN = 1 RATIO= .00

RUVB1-2A	MANE	4.37	28.27	222.82	.06	5.00	24.09	220.00	.06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8376E+00 EXCESS= .0000E+00 OUTFLOW= .8405E+00 BASIN STORAGE= .2385E-02 PERCENT ERROR= -.6

FOR PLAN = 1 RATIO= .00

RUVB1-2A	MANE	5.00	16.57	220.00	.05	5.00	16.57	220.00	.05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .6862E+00 EXCESS= .0000E+00 OUTFLOW= .6880E+00 BASIN STORAGE= .2129E-02 PERCENT ERROR= -.6

FOR PLAN = 1 RATIO= .00

RCOM7	MANE	.99	477.72	221.03	.47	5.00	470.39	220.00	.47

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1003E+03 EXCESS= .0000E+00 OUTFLOW= .1002E+03 BASIN STORAGE= .9157E-01 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RCOM7	MANE	1.00	456.32	220.74	.46	5.00	449.38	220.00	.46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9721E+02 EXCESS= .0000E+00 OUTFLOW= .9717E+02 BASIN STORAGE= .9006E-01 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RCOM7	MANE	1.02	441.97	221.32	.45	5.00	436.58	220.00	.45

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9568E+02 EXCESS= .0000E+00 OUTFLOW= .9564E+02 BASIN STORAGE= .8930E-01 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RCOM7	MANE	1.03	421.60	221.38	.44	5.00	416.76	220.00	.44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9301E+02 EXCESS= .0000E+00 OUTFLOW= .9297E+02 BASIN STORAGE= .8793E-01 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RCOM7	MANE	1.06	396.25	220.57	.42	5.00	392.20	220.00	.42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8977E+02 EXCESS= .0000E+00 OUTFLOW= .8973E+02 BASIN STORAGE= .8624E-01 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RCOM7	MANE	1.09	373.20	221.14	.41	5.00	368.60	220.00	.41

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8681E+02 EXCESS= .0000E+00 OUTFLOW= .8677E+02 BASIN STORAGE= .8469E-01 PERCENT ERROR= -.1

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          FOR PLAN = 1  RATIO=  .00
            RCOM7  MANE          1.10    359.78    220.64       .40      5.00    357.08    220.00         .40

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8535E+02 EXCESS= .0000E+00 OUTFLOW= .8531E+02 BASIN STORAGE= .8391E-01 PERCENT ERROR=   -.1

          FOR PLAN = 1  RATIO=  .00
            RCOM7  MANE          1.13    342.28    221.11       .39      5.00    338.80    220.00         .39

CONTINUITY SUMMARY (AC-FT) - INFLOW= .8244E+02 EXCESS= .0000E+00 OUTFLOW= .8240E+02 BASIN STORAGE= .8235E-01 PERCENT ERROR=   -.1

          FOR PLAN = 1  RATIO=  .00
            RCOM8  MANE           .61    606.65    220.61       .51      5.00    604.46    220.00         .51

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1115E+03 EXCESS= .0000E+00 OUTFLOW= .1115E+03 BASIN STORAGE= .2463E-01 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM8  MANE           .62    582.14    220.58       .50      5.00    579.59    220.00         .50

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1081E+03 EXCESS= .0000E+00 OUTFLOW= .1081E+03 BASIN STORAGE= .2409E-01 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM8  MANE           .62    567.27    220.45       .49      5.00    565.17    220.00         .49

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1065E+03 EXCESS= .0000E+00 OUTFLOW= .1064E+03 BASIN STORAGE= .2382E-01 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM8  MANE           .62    544.40    220.39       .48      5.00    542.70    220.00         .48

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1035E+03 EXCESS= .0000E+00 OUTFLOW= .1035E+03 BASIN STORAGE= .2333E-01 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM8  MANE           .63    516.03    220.23       .46      5.00    515.07    220.00         .46

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9993E+02 EXCESS= .0000E+00 OUTFLOW= .9990E+02 BASIN STORAGE= .2274E-01 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM8  MANE           .64    489.71    220.68       .44      5.00    489.29    220.00         .44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9666E+02 EXCESS= .0000E+00 OUTFLOW= .9664E+02 BASIN STORAGE= .2219E-01 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM8  MANE           .64    476.96    220.61       .44      5.00    476.47    220.00         .44

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9505E+02 EXCESS= .0000E+00 OUTFLOW= .9503E+02 BASIN STORAGE= .2192E-01 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RCOM8  MANE           .65    455.17    220.08       .42      5.00    455.00    220.00         .42

CONTINUITY SUMMARY (AC-FT) - INFLOW= .9183E+02 EXCESS= .0000E+00 OUTFLOW= .9181E+02 BASIN STORAGE= .2138E-01 PERCENT ERROR=    .0

          FOR PLAN = 1  RATIO=  .00
            RDIV2A  MANE          .97    283.38    211.53     -1.00      5.00    282.00    220.00       -1.00


          FOR PLAN = 1  RATIO=  .00
            RDIV2A  MANE          .97    282.20    211.53     -1.00      5.00    281.99    220.00       -1.00


          FOR PLAN = 1  RATIO=  .00
            RDIV2A  MANE          .97    282.12    216.36     -1.00      5.00    281.95    220.00       -1.00


          FOR PLAN = 1  RATIO=  .00
            RDIV2A  MANE          .97    282.22    216.36     -1.00      5.00    281.89    220.00       -1.00


          FOR PLAN = 1  RATIO=  .00
            RDIV2A  MANE          .97    282.35    216.36     -1.00      5.00    281.82    220.00       -1.00
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 FOR PLAN = 1  RATIO=  .00
   RDIV2A  MANE          .97    282.46    216.36     -1.00      5.00    281.75    220.00       -1.00


 FOR PLAN = 1  RATIO=  .00
   RDIV2A  MANE          .97    282.52    216.36     -1.00      5.00    281.72    220.00       -1.00


 FOR PLAN = 1  RATIO=  .00
   RDIV2A  MANE          .97    282.63    216.36     -1.00      5.00    281.66    220.00       -1.00


 FOR PLAN = 1  RATIO=  .00
  RUVB1-1C  MANE         2.14     37.77    212.13      2.29      5.00     35.35    210.00        2.28

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2257E+01 EXCESS= .0000E+00 OUTFLOW= .2259E+01 BASIN STORAGE= .1139E-02 PERCENT ERROR=   -.1


 FOR PLAN = 1  RATIO=  .00
  RUVB1-1C  MANE         2.16     36.78    212.10      2.23      5.00     34.41    210.00        2.23

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2198E+01 EXCESS= .0000E+00 OUTFLOW= .2200E+01 BASIN STORAGE= .1191E-02 PERCENT ERROR=   -.1


 FOR PLAN = 1  RATIO=  .00
  RUVB1-1C  MANE         2.18     35.71    213.19      2.20      5.00     33.76    215.00        2.19

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2165E+01 EXCESS= .0000E+00 OUTFLOW= .2167E+01 BASIN STORAGE= .1214E-02 PERCENT ERROR=   -.1


 FOR PLAN = 1  RATIO=  .00
  RUVB1-1C  MANE         2.20     35.02    213.00      2.14      5.00     33.11    215.00        2.14

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2112E+01 EXCESS= .0000E+00 OUTFLOW= .2114E+01 BASIN STORAGE= .1025E-02 PERCENT ERROR=   -.1


 FOR PLAN = 1  RATIO=  .00
  RUVB1-1C  MANE         2.22     33.84    213.30      2.08      5.00     32.06    215.00        2.07

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2046E+01 EXCESS= .0000E+00 OUTFLOW= .2048E+01 BASIN STORAGE= .1331E-02 PERCENT ERROR=   -.2


 FOR PLAN = 1  RATIO=  .00
  RUVB1-1C  MANE         2.25     32.87    213.41      2.02      5.00     31.21    215.00        2.01

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1986E+01 EXCESS= .0000E+00 OUTFLOW= .1988E+01 BASIN STORAGE= .1024E-02 PERCENT ERROR=   -.1


 FOR PLAN = 1  RATIO=  .00
  RUVB1-1C  MANE         2.26     33.05    212.35      1.99      5.00     31.08    215.00        1.99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1959E+01 EXCESS= .0000E+00 OUTFLOW= .1961E+01 BASIN STORAGE= .1031E-02 PERCENT ERROR=   -.1


 FOR PLAN = 1  RATIO=  .00
  RUVB1-1C  MANE         2.29     32.04    212.52      1.93      5.00     30.29    215.00        1.93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .1901E+01 EXCESS= .0000E+00 OUTFLOW= .1902E+01 BASIN STORAGE= .1040E-02 PERCENT ERROR=   -.1


 FOR PLAN = 1  RATIO=  .00
  RUVB1-1A  MANE          .64    410.55    215.75      2.33      5.00    409.10    215.00        2.34

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2735E+02 EXCESS= .0000E+00 OUTFLOW= .2736E+02 BASIN STORAGE= .8615E-03 PERCENT ERROR=    .0


 FOR PLAN = 1  RATIO=  .00
  RUVB1-1A  MANE          .65    400.48    215.31      2.27      5.00    398.61    215.00        2.27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2663E+02 EXCESS= .0000E+00 OUTFLOW= .2663E+02 BASIN STORAGE= .8152E-03 PERCENT ERROR=    .0


 FOR PLAN = 1  RATIO=  .00
  RUVB1-1A  MANE          .65    395.48    215.75      2.24      5.00    393.91    215.00        2.24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2627E+02 EXCESS= .0000E+00 OUTFLOW= .2627E+02 BASIN STORAGE= .7979E-03 PERCENT ERROR=    .0


 FOR PLAN = 1  RATIO=  .00
  RUVB1-1A  MANE          .66    386.01    215.79      2.19      5.00    384.69    215.00        2.19
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CONTINUITY SUMMARY (AC-FT) - INFLOW= .2562E+02 EXCESS= .0000E+00 OUTFLOW= .2562E+02 BASIN STORAGE= .8050E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RUVB1-1A	MANE	.67	376.27	215.66	2.12	5.00	373.89	215.00	2.12

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2483E+02 EXCESS= .0000E+00 OUTFLOW= .2483E+02 BASIN STORAGE= .8673E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RUVB1-1A	MANE	.67	364.97	215.32	2.06	5.00	363.12	215.00	2.06

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2411E+02 EXCESS= .0000E+00 OUTFLOW= .2411E+02 BASIN STORAGE= .7964E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RUVB1-1A	MANE	.68	359.33	215.17	2.03	5.00	358.23	215.00	2.03

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2376E+02 EXCESS= .0000E+00 OUTFLOW= .2376E+02 BASIN STORAGE= .8521E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RUVB1-1A	MANE	.69	350.59	215.58	1.97	5.00	348.19	215.00	1.97

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2304E+02 EXCESS= .0000E+00 OUTFLOW= .2304E+02 BASIN STORAGE= .8545E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM12	MANE	.55	471.23	215.23	2.33	5.00	469.83	215.00	2.33

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3167E+02 EXCESS= .0000E+00 OUTFLOW= .3167E+02 BASIN STORAGE= .7180E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM12	MANE	.56	459.17	215.21	2.26	5.00	457.84	215.00	2.27

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3083E+02 EXCESS= .0000E+00 OUTFLOW= .3083E+02 BASIN STORAGE= .7417E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM12	MANE	.56	453.34	215.12	2.23	5.00	452.50	215.00	2.24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3041E+02 EXCESS= .0000E+00 OUTFLOW= .3041E+02 BASIN STORAGE= .7933E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM12	MANE	.57	443.83	215.45	2.18	5.00	441.92	215.00	2.18

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2966E+02 EXCESS= .0000E+00 OUTFLOW= .2966E+02 BASIN STORAGE= .7999E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM12	MANE	.58	431.09	215.63	2.11	5.00	429.57	215.00	2.11

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2875E+02 EXCESS= .0000E+00 OUTFLOW= .2875E+02 BASIN STORAGE= .7769E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM12	MANE	.58	418.24	215.23	2.05	5.00	416.93	215.00	2.05

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2791E+02 EXCESS= .0000E+00 OUTFLOW= .2791E+02 BASIN STORAGE= .7391E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM12	MANE	.58	412.56	215.23	2.02	5.00	411.22	215.00	2.02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2750E+02 EXCESS= .0000E+00 OUTFLOW= .2750E+02 BASIN STORAGE= .7466E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RCOM12	MANE	.59	401.26	215.32	1.96	5.00	399.63	215.00	1.96

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2667E+02 EXCESS= .0000E+00 OUTFLOW= .2667E+02 BASIN STORAGE= .7465E-03 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.34	55.61	212.62	2.30	5.00	54.02	215.00	2.30

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3431E+01 EXCESS= .0000E+00 OUTFLOW= .3434E+01 BASIN STORAGE= .1445E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.36	54.35	212.41	2.24	5.00	52.68	215.00	2.24

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3341E+01 EXCESS= .0000E+00 OUTFLOW= .3344E+01 BASIN STORAGE= .1555E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.37	53.13	213.50	2.21	5.00	51.42	215.00	2.20

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3290E+01 EXCESS= .0000E+00 OUTFLOW= .3293E+01 BASIN STORAGE= .1679E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.39	52.10	213.13	2.15	5.00	50.45	215.00	2.15

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3210E+01 EXCESS= .0000E+00 OUTFLOW= .3213E+01 BASIN STORAGE= .1406E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.42	50.56	213.23	2.08	5.00	48.97	215.00	2.08

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3110E+01 EXCESS= .0000E+00 OUTFLOW= .3113E+01 BASIN STORAGE= .1424E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.45	49.24	213.15	2.02	5.00	47.74	215.00	2.02

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3021E+01 EXCESS= .0000E+00 OUTFLOW= .3023E+01 BASIN STORAGE= .1506E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.46	48.04	214.36	1.99	5.00	47.12	215.00	1.99

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2976E+01 EXCESS= .0000E+00 OUTFLOW= .2979E+01 BASIN STORAGE= .1553E-02 PERCENT ERROR= -.1

FOR PLAN = 1 RATIO= .00

RUVB1-1E	MANE	2.49	46.71	214.35	1.93	5.00	45.82	215.00	1.93

CONTINUITY SUMMARY (AC-FT) - INFLOW= .2886E+01 EXCESS= .0000E+00 OUTFLOW= .2889E+01 BASIN STORAGE= .1686E-02 PERCENT ERROR= -.2

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.67	166.56	217.39	.85	5.00	163.14	220.00	.85

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4781E+03 EXCESS= .0000E+00 OUTFLOW= .4779E+03 BASIN STORAGE= .2867E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.69	162.88	217.61	.83	5.00	159.69	220.00	.83

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4661E+03 EXCESS= .0000E+00 OUTFLOW= .4659E+03 BASIN STORAGE= .2751E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.69	161.55	216.88	.82	5.00	157.64	220.00	.82

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4595E+03 EXCESS= .0000E+00 OUTFLOW= .4593E+03 BASIN STORAGE= .2698E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.71	158.28	216.94	.79	5.00	154.59	220.00	.79

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4469E+03 EXCESS= .0000E+00 OUTFLOW= .4467E+03 BASIN STORAGE= .2609E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.73	153.97	217.50	.76	5.00	151.06	220.00	.76

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4306E+03 EXCESS= .0000E+00 OUTFLOW= .4304E+03 BASIN STORAGE= .2508E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.74	150.03	217.96	.74	5.00	147.42	220.00	.74

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4165E+03 EXCESS= .0000E+00 OUTFLOW= .4163E+03 BASIN STORAGE= .2407E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.75	148.42	217.33	.73	5.00	145.78	220.00	.73

CONTINUITY SUMMARY (AC-FT) - INFLOW= .4092E+03 EXCESS= .0000E+00 OUTFLOW= .4090E+03 BASIN STORAGE= .2360E+00 PERCENT ERROR= .0

FOR PLAN = 1 RATIO= .00

RLMBWDB	MANE	1.77	144.51	217.84	.70	5.00	142.26	220.00	.70

CONTINUITY SUMMARY (AC-FT) - INFLOW= .3939E+03 EXCESS= .0000E+00 OUTFLOW= .3937E+03 BASIN STORAGE= .2269E+00 PERCENT ERROR= .0

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

HEC-1 Model # 2 Ultimate Conditions

```
1*****************************************
*                                       *
*   FLOOD HYDROGRAPH PACKAGE  (HEC-1)   *
*               JUN  1998               *
*            VERSION 4.1                *
*                                       *
*  RUN DATE   22JUL04  TIME  17:59:14   *
*                                       *
*****************************************
```

```
*************************************
*                                   *
*    U.S. ARMY CORPS OF ENGINEERS   *
*    HYDROLOGIC ENGINEERING CENTER  *
*          609 SECOND STREET        *
*       DAVIS, CALIFORNIA 95616     *
*           (916) 756-1104          *
*                                   *
*************************************
```

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X     X  XXXXXXX   XXXXX           X
X     X  X        X     X         XX
X     X  X        X                X
XXXXXXX  XXXX     X        XXXXX   X
X     X  X        X                X
X     X  X        X     X          X
X     X  XXXXXXX   XXXXX          XXX
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THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

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


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

                    *DIAGRAM
*** FREE ***
               1    ID    NORTHERN BELTWAY ANN ROAD TO EL CAPITAN
               2    ID    DRAFT 2002 MPU MODEL BY PBS&J WAS USED AS A BASE AND MODIFIED BY
               3    ID    THE LOUIS BERGER GROUP (LBG) FOR THE PURPOSES OF THE BELTWAY CHANNEL DESIGN
               4    ID    LBG MODEL WAS FURTHER MODIFIED BY G.C. WALLACE TO INCLUDE ONLY THOSE BASINS
               5    ID    IMPACTING THE LONE MOUNTAIN DETENTION BASINS
               6    ID    HYDROLOGIC TECH MEMO MODEL WAS MODIFIED TO SHOW ROUTING CHANGE AT SOUTH DB
               7    ID    INPUT FILE = WBMOD2.DAT
               8    ID    INPUT FILE DATE = 7/16/04
               9    ID    DESIGN STORM = 100-YEAR 6-HOUR STORM
              10    ID    STORM DISTRIBUTION = SDN3
              11    ID    MODELED BY = JTL
              12    IT       5       0       0     500
              13    IO       5       0       0
              14    IN       5       0       0
                    *     AREA     0.0     0.5     1.0     1.46    2.0     4.0     6.00    8.00
              15    JR    PREC    1.00    0.98    0.97   0.952    0.93   0.917
                    *
              16    KK  CDMNA3
              17    KM   BASIN FROM MPU
              18    PB    3.21
              19    PC   0.000   0.020   0.057   0.070   0.087   0.108   0.124   0.130   0.130   0.130
              20    PC   0.130   0.130   0.130   0.133   0.140   0.142   0.148   0.158   0.172   0.181
              21    PC   0.190   0.197   0.199   0.200   0.201   0.204   0.214   0.229   0.241   0.249
              22    PC   0.251   0.256   0.270   0.278   0.281   0.283   0.295   0.322   0.352   0.409
              23    PC   0.499   0.590   0.710   0.744   0.781   0.812   0.819   0.835   0.851   0.856
              24    PC   0.860   0.868   0.876   0.888   0.910   0.926   0.937   0.950   0.970   0.976
              25    PC   0.982   0.985   0.987   0.989   0.990   0.993   0.993   0.994   0.995   0.998
              26    PC   0.998   0.999   1.000
              27    BA   0.140
              28    LS       0    84.0
              29    UD   0.244
                    *

              30    KK  EFPOA1
              31    KM
              32    PB    3.22
              33    BA   0.311
              34    LS       0    82.1
              35    UD   0.233
                    *

              36    KK   COM1A
              37    KM   COMBINE CDMNA3 AND EFPOA1 JUST SOUTH OF TROPICAL PARKWAY
              38    HC       2
                    *

              39    KK  RCOM1A
              40    RD    1600    .005   0.015       0    TRAP      10       0
                    *
```



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          LINE      ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10
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```
   41          KK  EFPOA2
   42          KM
   43          PB    3.23
   44          BA   0.227
   45          LS       0    81.8
   46          UD   0.254
               *

   47          KK   COM1B
   48          KM   COMBINE RCOM1A, AND EFPOA2 JUST SOUTH OF TROPICAL PARKWAY
   49          HC       2
               *

   50          KK  RCOM1B
   51          KM   ROUTE TO EPOB1
   52          RD    1600    .005    .015       0    TRAP      12       0
               *

   53          KK  EFPOB1
   54          KM
   55          PB    3.25
   56          BA   0.238
   57          LS       0    85.6
   58          UD   0.262
               *

   59          KK    COM2
   60          KM   COMBINE RCOM1B, RCAM10, AND EFPOB1 AT WEST LA MANCHA AVENUE
   61          HC       2
               *

   62          KK   RCOM2
   63          KM   ROUTE TO ANN ROAD
   64          RD    1900    .005    .015       0    TRAP      14       0
               *

   65          KK  EFPOB2
   66          KM   BASIN BY LBG
   67          BA   0.260
   68          PB    3.28
   69          LS       0    85.6
   70          UD   0.168
               *

   71          KK    COM3
   72          KM   COMBINE RCOM2, AND EFPOB2 AT ANN ROAD
   73          HC       2
               *
1                                          HEC-1 INPUT                                          PAGE  3

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

   74          KK    WBCA
   75          KM   BASIN FROM CENT TO ANN
   76          BA  0.0597
   77          PB    3.20
   78          LS       0    92.0
   79          UD   0.394
               *

   80          KKHLBW1-CA
   81          BA  0.3933
   82          PB    3.30
   83          LS       0    86.6
   84          UD   0.281
               *

   85          KK    COM4
   86          KM  COMBINE COM3, WBCA, AND HLBW1-CA
   87          KM  LAS VEGAS BELTWAY @ ANN ROAD
   88          HC       3
               *

   89          KK   RCOM4
   90          KM  ROUTE COM4 TO HLBW1-CB
   91          RD    1800  0.0250   0.015       0    TRAP      14       0
               *

   92          KKHLBW1-CB
   93          BA  0.1171
   94          PB    3.22
   95          LS       0    83.7
   96          UD   0.214
               *

   97          KK    COM5
   98          KM  COMBINE RCOM4 & HLBW1-CB
   99          HC       2
               *

  100          KK   RCOM5
  101          KM  ROUTE COM5 TO WRBW1
  102          RD    2000   0.050   0.015       0    TRAP      14       0
               *
```

```
103          KK    WBAW
104          BA  0.0570
105          PB    3.20
106          LS       0    88.0
107          UD   0.223
             *
```



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

108          KK   WRBW1
109          BA  0.2444
110          PB    3.23
111          LS       0    84.1
112          UD   0.210
             *

113          KK    COM6
114          KM  COMBINE RCOM5, WBAW, & WRBW1
115          KM  LAS VEGAS BELTWAY @ WASHBURN ROAD
116          HC       3
             *

117          KK   RCOM6
118          KM  ROUTE COM6 TO CLMDBN
119          RD    1600  0.0050   0.015       0    TRAP      14       0
             *

120          KK  LWBW1C
121          BA  0.0570
122          PB    3.20
123          LS       0    88.3
124          UD   0.126
             *

125          KK   LMDBN
126          BA  0.0237
127          PB    3.18
128          LS       0    84.8
129          UD   0.161
             *

130          KK  CLMDBN
131          KM  COMBINE LMDBN AND RCOM6
132          HC       3
             *

133          KK  LWBW1A
134          BA  0.3213
135          PB    3.31
136          LS       0    83.0
137          UD   0.223
             *

138          KK UVB1-2A
139          BA  0.2453
140          PB    3.30
141          LS       0    86.4
142          UD   0.191
             *
```



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

143          KK  NDIV2A
144          KM   RATING CURVE DATA TAKEM FROM MPU
145          KM  DIVERT 288 CFS FROM UVB1-2A TO PEACEFUL DAWN
146          DT  EDIV2A
147          DI     0     290    5000
148          DQ     0     282     282
             *

149          KKRUVB1-2A
150          RD     700  0.0050   0.016       0    TRAP      80       0
             *

151          KK    COM7
152          KM  COMBINE LWBW1A, AND RUVB1-2A
153          HC       2
             *

154          KK   RCOM7
155          KM  ROUTE COM7 TO COM8
156          RD    1000  0.0600   0.016       0    TRAP      80       0
             *

157          KK UVB1-2B
158          BA  0.0192
159          PB    3.23
160          LS       0    91.0
161          UD   0.100
             *
```

```
 162          KK  LWBW1B
 163          BA  0.0755
 164          PB    3.24
 165          LS       0    90.0
 166          UD   0.151
              *

 167          KK    COM8
 168          KM  COMBINE LWBW1B, RCOM7, UVB1-2B
 169          KM  LAS VEGAS BELTWAY @ LONE MOUNTAIN
 170          HC       3
              *

 171          KK   RCOM8
 172          RD     800  0.0500   0.015       0    CIRC       5       0
              *

 173          KKRETDIV2A
 174          KM  RETRIEVE DIVERSION AT PEACEFUL DAWN
 175          DR  EDIV2A
              *
1                                        HEC-1 INPUT                                        PAGE  6

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

 176          KK  RDIV2A
 177          KM  ROUTE DIV2A TO CUVB1-2C
 178          RD    1000  0.0700   0.016       0    TRAP      50       0
              *

 179          KK UVB1-2C
 180          BA  0.0323
 181          PB    3.23
 182          LS       0    90.0
 183          UD   0.125
              *

 184          KK   COM10
 185          KM  COMBINE RDIV2A AND UVB1-2C
 186          KM
 187          HC       2
              *

 188          KK    COM9
 189          KM  COMBINE RCOM8 & COM10
 190          HC       2
              *

 191          KK UVB1-1C
 192          BA  0.0185
 193          PB    3.23
 194          LS       0    91.0
 195          UD   0.091
              *

 196          KKRUVB1-1C
 197          KM  ROUTE UVB1-1C TO COM11
 198          RD     900   0.050   0.016       0    TRAP      50       0
              *

 199          KK UVB1-1B
 200          BA  0.0124
 201          PB    3.20
 202          LS       0    91.0
 203          UD   0.080
              *

 204          KK   COM11
 205          KM  COMBINE RUVB1-1C AND UVB1-1B
 206          HC       2
              *

 207          KK UVB1-1A
 208          BA  0.2198
 209          PB    3.28
 210          LS       0    91.0
 211          UD   0.149
              *
1                                        HEC-1 INPUT                                        PAGE  7

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

 212          KKRUVB1-1A
 213          RD    1300   0.040   0.015       0    TRAP      10       0
              *

 214          KK UVB1-1D
 215          BA  0.0355
 216          PB    3.20
 217          LS       0    91.0
 218          UD   0.100
              *
```

```
219          KK   COM12
220          KM  COMBINE RUVB1-1A AND UVB1-1D
221          HC       2
             *
222          KK  RCOM12
223          KM  ROUTE COM12 TO COM13
224          RD    1200   0.042    0.015       0    TRAP      10       0
             *
225          KK UVB1-1E
226          BA  0.0280
227          PB    3.24
228          LS       0    91.0
229          UD   0.100
             *
230          KKRUVB1-1E
231          RD    2000   0.033    0.015       0    TRAP      10       0
             *
232          KK   COM13
233          KM  COMBINE RCOM11, RCOM12, & RUVB1-1E
234          HC       3
             *
235          KK    WBCL
236          BA  0.0312
237          PB    3.21
238          LS       0    92.0
239          UD   0.126
             *
240          KK   LMBW1
241          BA  0.0841
242          PB    3.18
243          LS       0    81.5
244          UD   0.119
             *
```



```
LINE         ID.......1.......2.......3.......4.......5.......6.......7.......8.......9.....10
245          KK   COM14
246          KM  COMBINE LMBW1, WBCL, RCOM13
247          HC       3
             *
248          KK   LMDBS
249          BA  0.0589
250          PB    3.20
251          LS       0    84.8
252          UD   0.102
             *
253          KK  CLMDBS
254          KM  COMBINE COM9, COM14, & LMDBS
255          KM  COMBINE INFLOW INTO LONE MOUNTAIN - BELTWAY DETENTION BASIN
256          HC       3
             *
257          KKCLMBWCDB
258          KM  COMBINE CLMDBS & CLMDBN
259          KO       1
260          HC       2
             *
261          KK LMBWCDB
262          KM  LONE MOUNTAIN/BELTWAY DETENTION BASINS (COMBINED)
263          KM  ROUTE COMBINED INFLOWS TO OUTFALL IN BALANCING CONDUIT
264          KM  PEAK 100-YEAR DISCHARGE = 180 CFS
265          KO       1
266          RS       1    STOR      -1
267          SV       0      15      37      90     170     298     416     556     654
268          SQ       0      21      30      37      42      46      90      97     101
269          SE       0       5      10      15      20      25      30      35      38
             *
270          KK    WBLM
271          BA  0.0805
272          PB    3.17
273          LS       0    90.0
274          UD   0.190
             *
275          KK   COM15
276          KM  COMBINE WBLM & LMBWCDB
277          HC       2
             *
278          KK RLMBWDB
279          KM  ROUTE LMBWDB TO LMBW2-C
280          KM  FACILITY = GOWAN BELTWAY WEST
```

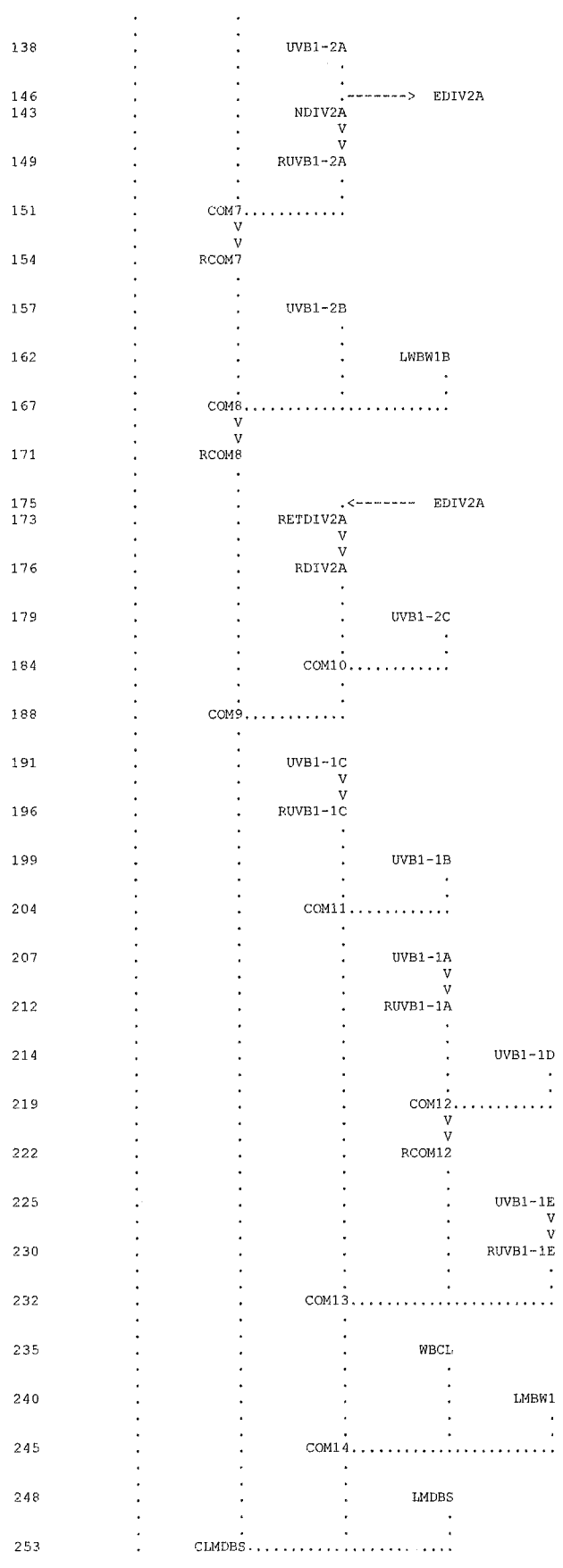
```
          281          KM  FACILITY # = GOBW 0000
          282          KM  LINING = RCP
          283          RD    2700   0.019   0.013       0    TRAP       5       0
                       *
1                                                HEC-1 INPUT                                                    PAGE  9

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

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

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

    16      CDMNA3
              .
              .
    30        .      EFPOA1
              .            .
              .            .
    36       COM1A.........
             V
             V
    39      RCOM1A
              .
              .
    41        .      EFPOA2
              .            .
              .            .
    47       COM1B.........
             V
             V
    50      RCOM1B
              .
              .
    53        .      EFPOB1
              .            .
              .            .
    59        COM2.........
              V
              V
    62       RCOM2
              .
              .
    65        .      EFPOB2
              .            .
              .            .
    71        COM3.........
              .
              .
    74        .        WBCA
              .            .
              .            .
    80        .            .    HLBW1-CA
              .            .            .
              .            .            .
    85        COM4.....................
              V
              V
    89       RCOM4
              .
              .
    92        .    HLBW1-CB
              .            .
              .            .
    97        COM5.........
              V
              V
   100       RCOM5
              .
              .
   103        .        WBAW
              .            .
              .            .
   108        .            .       WRBW1
              .            .            .
              .            .            .
   113        COM6.....................
              V
              V
   117       RCOM6
              .
              .
   120        .      LWBW1C
              .            .
              .            .
   125        .            .       LMDBN
              .            .            .
              .            .            .
   130      CLMDBN.....................
              .
              .
   133        .      LWBW1A
```


138 UVB1-2A
146 .-------> EDIV2A
143 NDIV2A
149 RUVB1-2A
151 COM7.....
154 RCOM7
157 UVB1-2B
162 LWBW1B
167 COM8.....
171 RCOM8
175 .<------- EDIV2A
173 RETDIV2A
176 RDIV2A
179 UVB1-2C
184 COM10.....
188 COM9.....
191 UVB1-1C
196 RUVB1-1C
199 UVB1-1B
204 COM11.....
207 UVB1-1A
212 RUVB1-1A
214 UVB1-1D
219 COM12.....
222 RCOM12
225 UVB1-1E
230 RUVB1-1E
232 COM13.....
235 WBCL
240 LMBW1
245 COM14.....
248 LMDBS
253 CLMDBS.....

```
                .           .
                .           .
  257    CLMBWCDB............
                V
                V
  261     LMBWCDB
                .
                .
  270           .        WBLM
                .           .
                .           .
  275       COM15............
                V
                V
  278     RLMBWDB

 (***) RUNOFF ALSO COMPUTED AT THIS LOCATION
1*****************************************                    ****************************************
*                                       *                    *                                      *
*    FLOOD HYDROGRAPH PACKAGE  (HEC-1)  *                    *    U.S. ARMY CORPS OF ENGINEERS      *
*                JUN  1998              *                    *    HYDROLOGIC ENGINEERING CENTER     *
*             VERSION 4.1               *                    *          609 SECOND STREET           *
*                                       *                    *        DAVIS, CALIFORNIA 95616       *
*  RUN DATE   22JUL04  TIME  17:59:14   *                    *            (916) 756-1104            *
*                                       *                    *                                      *
*****************************************                    ****************************************

                          NORTHERN BELTWAY ANN ROAD TO EL CAPITAN
                          DRAFT 2002 MPU MODEL BY PBS&J WAS USED AS A BASE AND MODIFIED BY
                          THE LOUIS BERGER GROUP (LBG) FOR THE PURPOSES OF THE BELTWAY CHANNEL DESIGN
                          LBG MODEL WAS FURTHER MODIFIED BY G.C. WALLACE TO INCLUDE ONLY THOSE BASINS
                          IMPACTING THE LONE MOUNTAIN DETENTION BASINS
                          HYDROLOGIC TECH MEMO MODEL WAS MODIFIED TO SHOW ROUTING CHANGE AT SOUTH DB
                          INPUT FILE = WBMOD2.DAT
                          INPUT FILE DATE = 7/16/04
                          DESIGN STORM = 100-YEAR 6-HOUR STORM
                          STORM DISTRIBUTION = SDN3
                          MODELED BY = JTL

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

      IT          HYDROGRAPH TIME DATA
                         NMIN          5  MINUTES IN COMPUTATION INTERVAL
                        IDATE      1    0  STARTING DATE
                        ITIME         0000  STARTING TIME
                           NQ          500  NUMBER OF HYDROGRAPH ORDINATES
                       NDDATE      2    0  ENDING DATE
                       NDTIME         1735  ENDING TIME
                       ICENT           19  CENTURY MARK

                     COMPUTATION INTERVAL      .08 HOURS
                          TOTAL TIME BASE   41.58 HOURS

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

      JP          MULTI-PLAN OPTION
                        NPLAN          1  NUMBER OF PLANS

      JR          MULTI-RATIO OPTION
                      RATIOS OF PRECIPITATION
                     1.00       .98       .97       .95       .93       .92


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


               **************
               *            *
  257 KK       *  CLMBWCDB  *
               *            *
               **************

  259 KO          OUTPUT CONTROL VARIABLES
                        IPRNT          1  PRINT CONTROL
                        IPLOT          0  PLOT CONTROL
                        QSCAL          0.  HYDROGRAPH PLOT SCALE

  260 HC          HYDROGRAPH COMBINATION
                        ICOMP          2  NUMBER OF HYDROGRAPHS TO COMBINE
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HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = 1.00

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		1025	126	0.	1		2050	251	0.	2		0715	376	0.
1		0005	2	0.	1		1030	127	0.	1		2055	252	0.	2		0720	377	0.
1		0010	3	0.	1		1035	128	0.	1		2100	253	0.	2		0725	378	0.
1		0015	4	0.	1		1040	129	0.	1		2105	254	0.	2		0730	379	0.
1		0020	5	3.	1		1045	130	0.	1		2110	255	0.	2		0735	380	0.
1		0025	6	12.	1		1050	131	0.	1		2115	256	0.	2		0740	381	0.
1		0030	7	28.	1		1055	132	0.	1		2120	257	0.	2		0745	382	0.
1		0035	8	43.	1		1100	133	0.	1		2125	258	0.	2		0750	383	0.
1		0040	9	44.	1		1105	134	0.	1		2130	259	0.	2		0755	384	0.
1		0045	10	36.	1		1110	135	0.	1		2135	260	0.	2		0800	385	0.
1		0050	11	26.	1		1115	136	0.	1		2140	261	0.	2		0805	386	0.
1		0055	12	18.	1		1120	137	0.	1		2145	262	0.	2		0810	387	0.
1		0100	13	12.	1		1125	138	0.	1		2150	263	0.	2		0815	388	0.
1		0105	14	10.	1		1130	139	0.	1		2155	264	0.	2		0820	389	0.
1		0110	15	15.	1		1135	140	0.	1		2200	265	0.	2		0825	390	0.
1		0115	16	23.	1		1140	141	0.	1		2205	266	0.	2		0830	391	0.
1		0120	17	31.	1		1145	142	0.	1		2210	267	0.	2		0835	392	0.
1		0125	18	43.	1		1150	143	0.	1		2215	268	0.	2		0840	393	0.
1		0130	19	69.	1		1155	144	0.	1		2220	269	0.	2		0845	394	0.
1		0135	20	102.	1		1200	145	0.	1		2225	270	0.	2		0850	395	0.
1		0140	21	129.	1		1205	146	0.	1		2230	271	0.	2		0855	396	0.
1		0145	22	147.	1		1210	147	0.	1		2235	272	0.	2		0900	397	0.
1		0150	23	150.	1		1215	148	0.	1		2240	273	0.	2		0905	398	0.
1		0155	24	136.	1		1220	149	0.	1		2245	274	0.	2		0910	399	0.
1		0200	25	113.	1		1225	150	0.	1		2250	275	0.	2		0915	400	0.
1		0205	26	93.	1		1230	151	0.	1		2255	276	0.	2		0920	401	0.
1		0210	27	90.	1		1235	152	0.	1		2300	277	0.	2		0925	402	0.
1		0215	28	121.	1		1240	153	0.	1		2305	278	0.	2		0930	403	0.
1		0220	29	176.	1		1245	154	0.	1		2310	279	0.	2		0935	404	0.
1		0225	30	223.	1		1250	155	0.	1		2315	280	0.	2		0940	405	0.
1		0230	31	240.	1		1255	156	0.	1		2320	281	0.	2		0945	406	0.
1		0235	32	228.	1		1300	157	0.	1		2325	282	0.	2		0950	407	0.
1		0240	33	228.	1		1305	158	0.	1		2330	283	0.	2		0955	408	0.
1		0245	34	251.	1		1310	159	0.	1		2335	284	0.	2		1000	409	0.
1		0250	35	262.	1		1315	160	0.	1		2340	285	0.	2		1005	410	0.
1		0255	36	245.	1		1320	161	0.	1		2345	286	0.	2		1010	411	0.
1		0300	37	231.	1		1325	162	0.	1		2350	287	0.	2		1015	412	0.
1		0305	38	285.	1		1330	163	0.	1		2355	288	0.	2		1020	413	0.
1		0310	39	434.	1		1335	164	0.	2		0000	289	0.	2		1025	414	0.
1		0315	40	711.	1		1340	165	0.	2		0005	290	0.	2		1030	415	0.
1		0320	41	1258.	1		1345	166	0.	2		0010	291	0.	2		1035	416	0.
1		0325	42	2099.	1		1350	167	0.	2		0015	292	0.	2		1040	417	0.
1		0330	43	3146.	1		1355	168	0.	2		0020	293	0.	2		1045	418	0.
1		0335	44	3936.	1		1400	169	0.	2		0025	294	0.	2		1050	419	0.
1		0340	45	4092.	1		1405	170	0.	2		0030	295	0.	2		1055	420	0.
1		0345	46	3811.	1		1410	171	0.	2		0035	296	0.	2		1100	421	0.
1		0350	47	3254.	1		1415	172	0.	2		0040	297	0.	2		1105	422	0.
1		0355	48	2617.	1		1420	173	0.	2		0045	298	0.	2		1110	423	0.
1		0400	49	2098.	1		1425	174	0.	2		0050	299	0.	2		1115	424	0.
1		0405	50	1695.	1		1430	175	0.	2		0055	300	0.	2		1120	425	0.
1		0410	51	1339.	1		1435	176	0.	2		0100	301	0.	2		1125	426	0.
1		0415	52	1052.	1		1440	177	0.	2		0105	302	0.	2		1130	427	0.
1		0420	53	858.	1		1445	178	0.	2		0110	303	0.	2		1135	428	0.
1		0425	54	750.	1		1450	179	0.	2		0115	304	0.	2		1140	429	0.
1		0430	55	755.	1		1455	180	0.	2		0120	305	0.	2		1145	430	0.
1		0435	56	849.	1		1500	181	0.	2		0125	306	0.	2		1150	431	0.
1		0440	57	929.	1		1505	182	0.	2		0130	307	0.	2		1155	432	0.
1		0445	58	957.	1		1510	183	0.	2		0135	308	0.	2		1200	433	0.
1		0450	59	985.	1		1515	184	0.	2		0140	309	0.	2		1205	434	0.
1		0455	60	1000.	1		1520	185	0.	2		0145	310	0.	2		1210	435	0.
1		0500	61	936.	1		1525	186	0.	2		0150	311	0.	2		1215	436	0.
1		0505	62	818.	1		1530	187	0.	2		0155	312	0.	2		1220	437	0.
1		0510	63	675.	1		1535	188	0.	2		0200	313	0.	2		1225	438	0.
1		0515	64	535.	1		1540	189	0.	2		0205	314	0.	2		1230	439	0.
1		0520	65	415.	1		1545	190	0.	2		0210	315	0.	2		1235	440	0.
1		0525	66	324.	1		1550	191	0.	2		0215	316	0.	2		1240	441	0.
1		0530	67	259.	1		1555	192	0.	2		0220	317	0.	2		1245	442	0.
1		0535	68	203.	1		1600	193	0.	2		0225	318	0.	2		1250	443	0.
1		0540	69	161.	1		1605	194	0.	2		0230	319	0.	2		1255	444	0.
1		0545	70	136.	1		1610	195	0.	2		0235	320	0.	2		1300	445	0.
1		0550	71	125.	1		1615	196	0.	2		0240	321	0.	2		1305	446	0.
1		0555	72	111.	1		1620	197	0.	2		0245	322	0.	2		1310	447	0.
1		0600	73	98.	1		1625	198	0.	2		0250	323	0.	2		1315	448	0.
1		0605	74	86.	1		1630	199	0.	2		0255	324	0.	2		1320	449	0.
1		0610	75	71.	1		1635	200	0.	2		0300	325	0.	2		1325	450	0.
1		0615	76	55.	1		1640	201	0.	2		0305	326	0.	2		1330	451	0.
1		0620	77	40.	1		1645	202	0.	2		0310	327	0.	2		1335	452	0.
1		0625	78	28.	1		1650	203	0.	2		0315	328	0.	2		1340	453	0.
1		0630	79	19.	1		1655	204	0.	2		0320	329	0.	2		1345	454	0.
1		0635	80	13.	1		1700	205	0.	2		0325	330	0.	2		1350	455	0.
1		0640	81	8.	1		1705	206	0.	2		0330	331	0.	2		1355	456	0.
1		0645	82	5.	1		1710	207	0.	2		0335	332	0.	2		1400	457	0.
1		0650	83	3.	1		1715	208	0.	2		0340	333	0.	2		1405	458	0.

1	0655	84	2.	*	1	1720	209	0.	*	2	0345	334	0.	*	2	1410	459	0.
1	0700	85	1.	*	1	1725	210	0.	*	2	0350	335	0.	*	2	1415	460	0.
1	0705	86	1.	*	1	1730	211	0.	*	2	0355	336	0.	*	2	1420	461	0.
1	0710	87	1.	*	1	1735	212	0.	*	2	0400	337	0.	*	2	1425	462	0.
1	0715	88	0.	*	1	1740	213	0.	*	2	0405	338	0.	*	2	1430	463	0.
1	0720	89	0.	*	1	1745	214	0.	*	2	0410	339	0.	*	2	1435	464	0.
1	0725	90	0.	*	1	1750	215	0.	*	2	0415	340	0.	*	2	1440	465	0.
1	0730	91	0.	*	1	1755	216	0.	*	2	0420	341	0.	*	2	1445	466	0.
1	0735	92	0.	*	1	1800	217	0.	*	2	0425	342	0.	*	2	1450	467	0.
1	0740	93	0.	*	1	1805	218	0.	*	2	0430	343	0.	*	2	1455	468	0.
1	0745	94	0.	*	1	1810	219	0.	*	2	0435	344	0.	*	2	1500	469	0.
1	0750	95	0.	*	1	1815	220	0.	*	2	0440	345	0.	*	2	1505	470	0.
1	0755	96	0.	*	1	1820	221	0.	*	2	0445	346	0.	*	2	1510	471	0.
1	0800	97	0.	*	1	1825	222	0.	*	2	0450	347	0.	*	2	1515	472	0.
1	0805	98	0.	*	1	1830	223	0.	*	2	0455	348	0.	*	2	1520	473	0.
1	0810	99	0.	*	1	1835	224	0.	*	2	0500	349	0.	*	2	1525	474	0.
1	0815	100	0.	*	1	1840	225	0.	*	2	0505	350	0.	*	2	1530	475	0.
1	0820	101	0.	*	1	1845	226	0.	*	2	0510	351	0.	*	2	1535	476	0.
1	0825	102	0.	*	1	1850	227	0.	*	2	0515	352	0.	*	2	1540	477	0.
1	0830	103	0.	*	1	1855	228	0.	*	2	0520	353	0.	*	2	1545	478	0.
1	0835	104	0.	*	1	1900	229	0.	*	2	0525	354	0.	*	2	1550	479	0.
1	0840	105	0.	*	1	1905	230	0.	*	2	0530	355	0.	*	2	1555	480	0.
1	0845	106	0.	*	1	1910	231	0.	*	2	0535	356	0.	*	2	1600	481	0.
1	0850	107	0.	*	1	1915	232	0.	*	2	0540	357	0.	*	2	1605	482	0.
1	0855	108	0.	*	1	1920	233	0.	*	2	0545	358	0.	*	2	1610	483	0.
1	0900	109	0.	*	1	1925	234	0.	*	2	0550	359	0.	*	2	1615	484	0.
1	0905	110	0.	*	1	1930	235	0.	*	2	0555	360	0.	*	2	1620	485	0.
1	0910	111	0.	*	1	1935	236	0.	*	2	0600	361	0.	*	2	1625	486	0.
1	0915	112	0.	*	1	1940	237	0.	*	2	0605	362	0.	*	2	1630	487	0.
1	0920	113	0.	*	1	1945	238	0.	*	2	0610	363	0.	*	2	1635	488	0.
1	0925	114	0.	*	1	1950	239	0.	*	2	0615	364	0.	*	2	1640	489	0.
1	0930	115	0.	*	1	1955	240	0.	*	2	0620	365	0.	*	2	1645	490	0.
1	0935	116	0.	*	1	2000	241	0.	*	2	0625	366	0.	*	2	1650	491	0.
1	0940	117	0.	*	1	2005	242	0.	*	2	0630	367	0.	*	2	1655	492	0.
1	0945	118	0.	*	1	2010	243	0.	*	2	0635	368	0.	*	2	1700	493	0.
1	0950	119	0.	*	1	2015	244	0.	*	2	0640	369	0.	*	2	1705	494	0.
1	0955	120	0.	*	1	2020	245	0.	*	2	0645	370	0.	*	2	1710	495	0.
1	1000	121	0.	*	1	2025	246	0.	*	2	0650	371	0.	*	2	1715	496	0.
1	1005	122	0.	*	1	2030	247	0.	*	2	0655	372	0.	*	2	1720	497	0.
1	1010	123	0.	*	1	2035	248	0.	*	2	0700	373	0.	*	2	1725	498	0.
1	1015	124	0.	*	1	2040	249	0.	*	2	0705	374	0.	*	2	1730	499	0.
1	1020	125	0.	*	1	2045	250	0.	*	2	0710	375	0.	*	2	1735	500	0.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	41.58-HR
(CFS)	(HR)					
		(CFS)				
4092.	3.67		660.	165.	95.	95.
		(INCHES)	1.855	1.858	1.858	1.858
		(AC-FT)	327.	328.	328.	328.

CUMULATIVE AREA = 3.31 SQ MI

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .98

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		1025	126	0.	1		2050	251	0.	2		0715	376	0.
1		0005	2	0.	1		1030	127	0.	1		2055	252	0.	2		0720	377	0.
1		0010	3	0.	1		1035	128	0.	1		2100	253	0.	2		0725	378	0.
1		0015	4	0.	1		1040	129	0.	1		2105	254	0.	2		0730	379	0.
1		0020	5	2.	1		1045	130	0.	1		2110	255	0.	2		0735	380	0.
1		0025	6	11.	1		1050	131	0.	1		2115	256	0.	2		0740	381	0.
1		0030	7	26.	1		1055	132	0.	1		2120	257	0.	2		0745	382	0.
1		0035	8	38.	1		1100	133	0.	1		2125	258	0.	2		0750	383	0.
1		0040	9	40.	1		1105	134	0.	1		2130	259	0.	2		0755	384	0.
1		0045	10	32.	1		1110	135	0.	1		2135	260	0.	2		0800	385	0.
1		0050	11	23.	1		1115	136	0.	1		2140	261	0.	2		0805	386	0.
1		0055	12	16.	1		1120	137	0.	1		2145	262	0.	2		0810	387	0.
1		0100	13	11.	1		1125	138	0.	1		2150	263	0.	2		0815	388	0.
1		0105	14	9.	1		1130	139	0.	1		2155	264	0.	2		0820	389	0.
1		0110	15	13.	1		1135	140	0.	1		2200	265	0.	2		0825	390	0.
1		0115	16	21.	1		1140	141	0.	1		2205	266	0.	2		0830	391	0.
1		0120	17	28.	1		1145	142	0.	1		2210	267	0.	2		0835	392	0.
1		0125	18	39.	1		1150	143	0.	1		2215	268	0.	2		0840	393	0.
1		0130	19	63.	1		1155	144	0.	1		2220	269	0.	2		0845	394	0.
1		0135	20	93.	1		1200	145	0.	1		2225	270	0.	2		0850	395	0.
1		0140	21	118.	1		1205	146	0.	1		2230	271	0.	2		0855	396	0.
1		0145	22	135.	1		1210	147	0.	1		2235	272	0.	2		0900	397	0.
1		0150	23	139.	1		1215	148	0.	1		2240	273	0.	2		0905	398	0.
1		0155	24	128.	1		1220	149	0.	1		2245	274	0.	2		0910	399	0.
1		0200	25	108.	1		1225	150	0.	1		2250	275	0.	2		0915	400	0.
1		0205	26	89.	1		1230	151	0.	1		2255	276	0.	2		0920	401	0.
1		0210	27	87.	1		1235	152	0.	1		2300	277	0.	2		0925	402	0.
1		0215	28	114.	1		1240	153	0.	1		2305	278	0.	2		0930	403	0.
1		0220	29	164.	1		1245	154	0.	1		2310	279	0.	2		0935	404	0.

1	0225	30	208.	*	1	1250	155	0.	*	1	2315	280	0.	*	2	0940	405	0.
1	0230	31	225.	*	1	1255	156	0.	*	1	2320	281	0.	*	2	0945	406	0.
1	0235	32	217.	*	1	1300	157	0.	*	1	2325	282	0.	*	2	0950	407	0.
1	0240	33	218.	*	1	1305	158	0.	*	1	2330	283	0.	*	2	0955	408	0.
1	0245	34	240.	*	1	1310	159	0.	*	1	2335	284	0.	*	2	1000	409	0.
1	0250	35	250.	*	1	1315	160	0.	*	1	2340	285	0.	*	2	1005	410	0.
1	0255	36	234.	*	1	1320	161	0.	*	1	2345	286	0.	*	2	1010	411	0.
1	0300	37	223.	*	1	1325	162	0.	*	1	2350	287	0.	*	2	1015	412	0.
1	0305	38	272.	*	1	1330	163	0.	*	1	2355	288	0.	*	2	1020	413	0.
1	0310	39	410.	*	1	1335	164	0.	*	2	0000	289	0.	*	2	1025	414	0.
1	0315	40	675.	*	1	1340	165	0.	*	2	0005	290	0.	*	2	1030	415	0.
1	0320	41	1207.	*	1	1345	166	0.	*	2	0010	291	0.	*	2	1035	416	0.
1	0325	42	2027.	*	1	1350	167	0.	*	2	0015	292	0.	*	2	1040	417	0.
1	0330	43	3049.	*	1	1355	168	0.	*	2	0020	293	0.	*	2	1045	418	0.
1	0335	44	3815.	*	1	1400	169	0.	*	2	0025	294	0.	*	2	1050	419	0.
1	0340	45	3974.	*	1	1405	170	0.	*	2	0030	295	0.	*	2	1055	420	0.
1	0345	46	3704.	*	1	1410	171	0.	*	2	0035	296	0.	*	2	1100	421	0.
1	0350	47	3162.	*	1	1415	172	0.	*	2	0040	297	0.	*	2	1105	422	0.
1	0355	48	2545.	*	1	1420	173	0.	*	2	0045	298	0.	*	2	1110	423	0.
1	0400	49	2043.	*	1	1425	174	0.	*	2	0050	299	0.	*	2	1115	424	0.
1	0405	50	1651.	*	1	1430	175	0.	*	2	0055	300	0.	*	2	1120	425	0.
1	0410	51	1305.	*	1	1435	176	0.	*	2	0100	301	0.	*	2	1125	426	0.
1	0415	52	1026.	*	1	1440	177	0.	*	2	0105	302	0.	*	2	1130	427	0.
1	0420	53	837.	*	1	1445	178	0.	*	2	0110	303	0.	*	2	1135	428	0.
1	0425	54	733.	*	1	1450	179	0.	*	2	0115	304	0.	*	2	1140	429	0.
1	0430	55	736.	*	1	1455	180	0.	*	2	0120	305	0.	*	2	1145	430	0.
1	0435	56	827.	*	1	1500	181	0.	*	2	0125	306	0.	*	2	1150	431	0.
1	0440	57	905.	*	1	1505	182	0.	*	2	0130	307	0.	*	2	1155	432	0.
1	0445	58	932.	*	1	1510	183	0.	*	2	0135	308	0.	*	2	1200	433	0.
1	0450	59	960.	*	1	1515	184	0.	*	2	0140	309	0.	*	2	1205	434	0.
1	0455	60	975.	*	1	1520	185	0.	*	2	0145	310	0.	*	2	1210	435	0.
1	0500	61	913.	*	1	1525	186	0.	*	2	0150	311	0.	*	2	1215	436	0.
1	0505	62	799.	*	1	1530	187	0.	*	2	0155	312	0.	*	2	1220	437	0.
1	0510	63	661.	*	1	1535	188	0.	*	2	0200	313	0.	*	2	1225	438	0.
1	0515	64	526.	*	1	1540	189	0.	*	2	0205	314	0.	*	2	1230	439	0.
1	0520	65	411.	*	1	1545	190	0.	*	2	0210	315	0.	*	2	1235	440	0.
1	0525	66	323.	*	1	1550	191	0.	*	2	0215	316	0.	*	2	1240	441	0.
1	0530	67	258.	*	1	1555	192	0.	*	2	0220	317	0.	*	2	1245	442	0.
1	0535	68	204.	*	1	1600	193	0.	*	2	0225	318	0.	*	2	1250	443	0.
1	0540	69	162.	*	1	1605	194	0.	*	2	0230	319	0.	*	2	1255	444	0.
1	0545	70	137.	*	1	1610	195	0.	*	2	0235	320	0.	*	2	1300	445	0.
1	0550	71	124.	*	1	1615	196	0.	*	2	0240	321	0.	*	2	1305	446	0.
1	0555	72	110.	*	1	1620	197	0.	*	2	0245	322	0.	*	2	1310	447	0.
1	0600	73	97.	*	1	1625	198	0.	*	2	0250	323	0.	*	2	1315	448	0.
1	0605	74	85.	*	1	1630	199	0.	*	2	0255	324	0.	*	2	1320	449	0.
1	0610	75	71.	*	1	1635	200	0.	*	2	0300	325	0.	*	2	1325	450	0.
1	0615	76	55.	*	1	1640	201	0.	*	2	0305	326	0.	*	2	1330	451	0.
1	0620	77	41.	*	1	1645	202	0.	*	2	0310	327	0.	*	2	1335	452	0.
1	0625	78	29.	*	1	1650	203	0.	*	2	0315	328	0.	*	2	1340	453	0.
1	0630	79	20.	*	1	1655	204	0.	*	2	0320	329	0.	*	2	1345	454	0.
1	0635	80	13.	*	1	1700	205	0.	*	2	0325	330	0.	*	2	1350	455	0.
1	0640	81	9.	*	1	1705	206	0.	*	2	0330	331	0.	*	2	1355	456	0.
1	0645	82	6.	*	1	1710	207	0.	*	2	0335	332	0.	*	2	1400	457	0.
1	0650	83	4.	*	1	1715	208	0.	*	2	0340	333	0.	*	2	1405	458	0.
1	0655	84	2.	*	1	1720	209	0.	*	2	0345	334	0.	*	2	1410	459	0.
1	0700	85	2.	*	1	1725	210	0.	*	2	0350	335	0.	*	2	1415	460	0.
1	0705	86	1.	*	1	1730	211	0.	*	2	0355	336	0.	*	2	1420	461	0.
1	0710	87	1.	*	1	1735	212	0.	*	2	0400	337	0.	*	2	1425	462	0.
1	0715	88	0.	*	1	1740	213	0.	*	2	0405	338	0.	*	2	1430	463	0.
1	0720	89	0.	*	1	1745	214	0.	*	2	0410	339	0.	*	2	1435	464	0.
1	0725	90	0.	*	1	1750	215	0.	*	2	0415	340	0.	*	2	1440	465	0.
1	0730	91	0.	*	1	1755	216	0.	*	2	0420	341	0.	*	2	1445	466	0.
1	0735	92	0.	*	1	1800	217	0.	*	2	0425	342	0.	*	2	1450	467	0.
1	0740	93	0.	*	1	1805	218	0.	*	2	0430	343	0.	*	2	1455	468	0.
1	0745	94	0.	*	1	1810	219	0.	*	2	0435	344	0.	*	2	1500	469	0.
1	0750	95	0.	*	1	1815	220	0.	*	2	0440	345	0.	*	2	1505	470	0.
1	0755	96	0.	*	1	1820	221	0.	*	2	0445	346	0.	*	2	1510	471	0.
1	0800	97	0.	*	1	1825	222	0.	*	2	0450	347	0.	*	2	1515	472	0.
1	0805	98	0.	*	1	1830	223	0.	*	2	0455	348	0.	*	2	1520	473	0.
1	0810	99	0.	*	1	1835	224	0.	*	2	0500	349	0.	*	2	1525	474	0.
1	0815	100	0.	*	1	1840	225	0.	*	2	0505	350	0.	*	2	1530	475	0.
1	0820	101	0.	*	1	1845	226	0.	*	2	0510	351	0.	*	2	1535	476	0.
1	0825	102	0.	*	1	1850	227	0.	*	2	0515	352	0.	*	2	1540	477	0.
1	0830	103	0.	*	1	1855	228	0.	*	2	0520	353	0.	*	2	1545	478	0.
1	0835	104	0.	*	1	1900	229	0.	*	2	0525	354	0.	*	2	1550	479	0.
1	0840	105	0.	*	1	1905	230	0.	*	2	0530	355	0.	*	2	1555	480	0.
1	0845	106	0.	*	1	1910	231	0.	*	2	0535	356	0.	*	2	1600	481	0.
1	0850	107	0.	*	1	1915	232	0.	*	2	0540	357	0.	*	2	1605	482	0.
1	0855	108	0.	*	1	1920	233	0.	*	2	0545	358	0.	*	2	1610	483	0.
1	0900	109	0.	*	1	1925	234	0.	*	2	0550	359	0.	*	2	1615	484	0.
1	0905	110	0.	*	1	1930	235	0.	*	2	0555	360	0.	*	2	1620	485	0.
1	0910	111	0.	*	1	1935	236	0.	*	2	0600	361	0.	*	2	1625	486	0.
1	0915	112	0.	*	1	1940	237	0.	*	2	0605	362	0.	*	2	1630	487	0.
1	0920	113	0.	*	1	1945	238	0.	*	2	0610	363	0.	*	2	1635	488	0.
1	0925	114	0.	*	1	1950	239	0.	*	2	0615	364	0.	*	2	1640	489	0.
1	0930	115	0.	*	1	1955	240	0.	*	2	0620	365	0.	*	2	1645	490	0.
1	0935	116	0.	*	1	2000	241	0.	*	2	0625	366	0.	*	2	1650	491	0.
1	0940	117	0.	*	1	2005	242	0.	*	2	0630	367	0.	*	2	1655	492	0.
1	0945	118	0.	*	1	2010	243	0.	*	2	0635	368	0.	*	2	1700	493	0.
1	0950	119	0.	*	1	2015	244	0.	*	2	0640	369	0.	*	2	1705	494	0.
1	0955	120	0.	*	1	2020	245	0.	*	2	0645	370	0.	*	2	1710	495	0.
1	1000	121	0.	*	1	2025	246	0.	*	2	0650	371	0.	*	2	1715	496	0.
1	1005	122	0.	*	1	2030	247	0.	*	2	0655	372	0.	*	2	1720	497	0.
1	1010	123	0.	*	1	2035	248	0.	*	2	0700	373	0.	*	2	1725	498	0.
1	1015	124	0.	*	1	2040	249	0.	*	2	0705	374	0.	*	2	1730	499	0.

1	1020	125	0.	*	1	2045	250	0.	*	2	0710	375	0.	*	2	1735	500	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	41.58-HR
(CFS)	(HR)				
		(CFS)			
3974.	3.67	641.	160.	93.	93.
		(INCHES) 1.799	1.802	1.802	1.802
		(AC-FT) 318.	318.	318.	318.

CUMULATIVE AREA = 3.31 SQ MI

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .97

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		1025	126	0.	1		2050	251	0.	2		0715	376	0.
1		0005	2	0.	1		1030	127	0.	1		2055	252	0.	2		0720	377	0.
1		0010	3	0.	1		1035	128	0.	1		2100	253	0.	2		0725	378	0.
1		0015	4	0.	1		1040	129	0.	1		2105	254	0.	2		0730	379	0.
1		0020	5	2.	1		1045	130	0.	1		2110	255	0.	2		0735	380	0.
1		0025	6	10.	1		1050	131	0.	1		2115	256	0.	2		0740	381	0.
1		0030	7	24.	1		1055	132	0.	1		2120	257	0.	2		0745	382	0.
1		0035	8	37.	1		1100	133	0.	1		2125	258	0.	2		0750	383	0.
1		0040	9	38.	1		1105	134	0.	1		2130	259	0.	2		0755	384	0.
1		0045	10	30.	1		1110	135	0.	1		2135	260	0.	2		0800	385	0.
1		0050	11	22.	1		1115	136	0.	1		2140	261	0.	2		0805	386	0.
1		0055	12	15.	1		1120	137	0.	1		2145	262	0.	2		0810	387	0.
1		0100	13	11.	1		1125	138	0.	1		2150	263	0.	2		0815	388	0.
1		0105	14	9.	1		1130	139	0.	1		2155	264	0.	2		0820	389	0.
1		0110	15	13.	1		1135	140	0.	1		2200	265	0.	2		0825	390	0.
1		0115	16	20.	1		1140	141	0.	1		2205	266	0.	2		0830	391	0.
1		0120	17	27.	1		1145	142	0.	1		2210	267	0.	2		0835	392	0.
1		0125	18	38.	1		1150	143	0.	1		2215	268	0.	2		0840	393	0.
1		0130	19	61.	1		1155	144	0.	1		2220	269	0.	2		0845	394	0.
1		0135	20	90.	1		1200	145	0.	1		2225	270	0.	2		0850	395	0.
1		0140	21	114.	1		1205	146	0.	1		2230	271	0.	2		0855	396	0.
1		0145	22	131.	1		1210	147	0.	1		2235	272	0.	2		0900	397	0.
1		0150	23	135.	1		1215	148	0.	1		2240	273	0.	2		0905	398	0.
1		0155	24	124.	1		1220	149	0.	1		2245	274	0.	2		0910	399	0.
1		0200	25	104.	1		1225	150	0.	1		2250	275	0.	2		0915	400	0.
1		0205	26	86.	1		1230	151	0.	1		2255	276	0.	2		0920	401	0.
1		0210	27	84.	1		1235	152	0.	1		2300	277	0.	2		0925	402	0.
1		0215	28	111.	1		1240	153	0.	1		2305	278	0.	2		0930	403	0.
1		0220	29	160.	1		1245	154	0.	1		2310	279	0.	2		0935	404	0.
1		0225	30	203.	1		1250	155	0.	1		2315	280	0.	2		0940	405	0.
1		0230	31	219.	1		1255	156	0.	1		2320	281	0.	2		0945	406	0.
1		0235	32	211.	1		1300	157	0.	1		2325	282	0.	2		0950	407	0.
1		0240	33	213.	1		1305	158	0.	1		2330	283	0.	2		0955	408	0.
1		0245	34	234.	1		1310	159	0.	1		2335	284	0.	2		1000	409	0.
1		0250	35	244.	1		1315	160	0.	1		2340	285	0.	2		1005	410	0.
1		0255	36	229.	1		1320	161	0.	1		2345	286	0.	2		1010	411	0.
1		0300	37	218.	1		1325	162	0.	1		2350	287	0.	2		1015	412	0.
1		0305	38	266.	1		1330	163	0.	1		2355	288	0.	2		1020	413	0.
1		0310	39	402.	1		1335	164	0.	2		0000	289	0.	2		1025	414	0.
1		0315	40	662.	1		1340	165	0.	2		0005	290	0.	2		1030	415	0.
1		0320	41	1183.	1		1345	166	0.	2		0010	291	0.	2		1035	416	0.
1		0325	42	1990.	1		1350	167	0.	2		0015	292	0.	2		1040	417	0.
1		0330	43	2998.	1		1355	168	0.	2		0020	293	0.	2		1045	418	0.
1		0335	44	3754.	1		1400	169	0.	2		0025	294	0.	2		1050	419	0.
1		0340	45	3911.	1		1405	170	0.	2		0030	295	0.	2		1055	420	0.
1		0345	46	3646.	1		1410	171	0.	2		0035	296	0.	2		1100	421	0.
1		0350	47	3116.	1		1415	172	0.	2		0040	297	0.	2		1105	422	0.
1		0355	48	2510.	1		1420	173	0.	2		0045	298	0.	2		1110	423	0.
1		0400	49	2015.	1		1425	174	0.	2		0050	299	0.	2		1115	424	0.
1		0405	50	1629.	1		1430	175	0.	2		0055	300	0.	2		1120	425	0.
1		0410	51	1288.	1		1435	176	0.	2		0100	301	0.	2		1125	426	0.
1		0415	52	1013.	1		1440	177	0.	2		0105	302	0.	2		1130	427	0.
1		0420	53	827.	1		1445	178	0.	2		0110	303	0.	2		1135	428	0.
1		0425	54	724.	1		1450	179	0.	2		0115	304	0.	2		1140	429	0.
1		0430	55	727.	1		1455	180	0.	2		0120	305	0.	2		1145	430	0.
1		0435	56	816.	1		1500	181	0.	2		0125	306	0.	2		1150	431	0.
1		0440	57	893.	1		1505	182	0.	2		0130	307	0.	2		1155	432	0.
1		0445	58	920.	1		1510	183	0.	2		0135	308	0.	2		1200	433	0.
1		0450	59	948.	1		1515	184	0.	2		0140	309	0.	2		1205	434	0.
1		0455	60	962.	1		1520	185	0.	2		0145	310	0.	2		1210	435	0.
1		0500	61	901.	1		1525	186	0.	2		0150	311	0.	2		1215	436	0.
1		0505	62	789.	1		1530	187	0.	2		0155	312	0.	2		1220	437	0.
1		0510	63	653.	1		1535	188	0.	2		0200	313	0.	2		1225	438	0.
1		0515	64	520.	1		1540	189	0.	2		0205	314	0.	2		1230	439	0.
1		0520	65	406.	1		1545	190	0.	2		0210	315	0.	2		1235	440	0.
1		0525	66	319.	1		1550	191	0.	2		0215	316	0.	2		1240	441	0.
1		0530	67	255.	1		1555	192	0.	2		0220	317	0.	2		1245	442	0.
1		0535	68	202.	1		1600	193	0.	2		0225	318	0.	2		1250	443	0.
1		0540	69	160.	1		1605	194	0.	2		0230	319	0.	2		1255	444	0.
1		0545	70	135.	1		1610	195	0.	2		0235	320	0.	2		1300	445	0.

1	0550	71	123.	*	1	1615	196	0.	*	2	0240	321	0.	*	2	1305	446	0.
1	0555	72	109.	*	1	1620	197	0.	*	2	0245	322	0.	*	2	1310	447	0.
1	0600	73	96.	*	1	1625	198	0.	*	2	0250	323	0.	*	2	1315	448	0.
1	0605	74	84.	*	1	1630	199	0.	*	2	0255	324	0.	*	2	1320	449	0.
1	0610	75	70.	*	1	1635	200	0.	*	2	0300	325	0.	*	2	1325	450	0.
1	0615	76	55.	*	1	1640	201	0.	*	2	0305	326	0.	*	2	1330	451	0.
1	0620	77	40.	*	1	1645	202	0.	*	2	0310	327	0.	*	2	1335	452	0.
1	0625	78	29.	*	1	1650	203	0.	*	2	0315	328	0.	*	2	1340	453	0.
1	0630	79	20.	*	1	1655	204	0.	*	2	0320	329	0.	*	2	1345	454	0.
1	0635	80	13.	*	1	1700	205	0.	*	2	0325	330	0.	*	2	1350	455	0.
1	0640	81	9.	*	1	1705	206	0.	*	2	0330	331	0.	*	2	1355	456	0.
1	0645	82	6.	*	1	1710	207	0.	*	2	0335	332	0.	*	2	1400	457	0.
1	0650	83	4.	*	1	1715	208	0.	*	2	0340	333	0.	*	2	1405	458	0.
1	0655	84	2.	*	1	1720	209	0.	*	2	0345	334	0.	*	2	1410	459	0.
1	0700	85	2.	*	1	1725	210	0.	*	2	0350	335	0.	*	2	1415	460	0.
1	0705	86	1.	*	1	1730	211	0.	*	2	0355	336	0.	*	2	1420	461	0.
1	0710	87	1.	*	1	1735	212	0.	*	2	0400	337	0.	*	2	1425	462	0.
1	0715	88	0.	*	1	1740	213	0.	*	2	0405	338	0.	*	2	1430	463	0.
1	0720	89	0.	*	1	1745	214	0.	*	2	0410	339	0.	*	2	1435	464	0.
1	0725	90	0.	*	1	1750	215	0.	*	2	0415	340	0.	*	2	1440	465	0.
1	0730	91	0.	*	1	1755	216	0.	*	2	0420	341	0.	*	2	1445	466	0.
1	0735	92	0.	*	1	1800	217	0.	*	2	0425	342	0.	*	2	1450	467	0.
1	0740	93	0.	*	1	1805	218	0.	*	2	0430	343	0.	*	2	1455	468	0.
1	0745	94	0.	*	1	1810	219	0.	*	2	0435	344	0.	*	2	1500	469	0.
1	0750	95	0.	*	1	1815	220	0.	*	2	0440	345	0.	*	2	1505	470	0.
1	0755	96	0.	*	1	1820	221	0.	*	2	0445	346	0.	*	2	1510	471	0.
1	0800	97	0.	*	1	1825	222	0.	*	2	0450	347	0.	*	2	1515	472	0.
1	0805	98	0.	*	1	1830	223	0.	*	2	0455	348	0.	*	2	1520	473	0.
1	0810	99	0.	*	1	1835	224	0.	*	2	0500	349	0.	*	2	1525	474	0.
1	0815	100	0.	*	1	1840	225	0.	*	2	0505	350	0.	*	2	1530	475	0.
1	0820	101	0.	*	1	1845	226	0.	*	2	0510	351	0.	*	2	1535	476	0.
1	0825	102	0.	*	1	1850	227	0.	*	2	0515	352	0.	*	2	1540	477	0.
1	0830	103	0.	*	1	1855	228	0.	*	2	0520	353	0.	*	2	1545	478	0.
1	0835	104	0.	*	1	1900	229	0.	*	2	0525	354	0.	*	2	1550	479	0.
1	0840	105	0.	*	1	1905	230	0.	*	2	0530	355	0.	*	2	1555	480	0.
1	0845	106	0.	*	1	1910	231	0.	*	2	0535	356	0.	*	2	1600	481	0.
1	0850	107	0.	*	1	1915	232	0.	*	2	0540	357	0.	*	2	1605	482	0.
1	0855	108	0.	*	1	1920	233	0.	*	2	0545	358	0.	*	2	1610	483	0.
1	0900	109	0.	*	1	1925	234	0.	*	2	0550	359	0.	*	2	1615	484	0.
1	0905	110	0.	*	1	1930	235	0.	*	2	0555	360	0.	*	2	1620	485	0.
1	0910	111	0.	*	1	1935	236	0.	*	2	0600	361	0.	*	2	1625	486	0.
1	0915	112	0.	*	1	1940	237	0.	*	2	0605	362	0.	*	2	1630	487	0.
1	0920	113	0.	*	1	1945	238	0.	*	2	0610	363	0.	*	2	1635	488	0.
1	0925	114	0.	*	1	1950	239	0.	*	2	0615	364	0.	*	2	1640	489	0.
1	0930	115	0.	*	1	1955	240	0.	*	2	0620	365	0.	*	2	1645	490	0.
1	0935	116	0.	*	1	2000	241	0.	*	2	0625	366	0.	*	2	1650	491	0.
1	0940	117	0.	*	1	2005	242	0.	*	2	0630	367	0.	*	2	1655	492	0.
1	0945	118	0.	*	1	2010	243	0.	*	2	0635	368	0.	*	2	1700	493	0.
1	0950	119	0.	*	1	2015	244	0.	*	2	0640	369	0.	*	2	1705	494	0.
1	0955	120	0.	*	1	2020	245	0.	*	2	0645	370	0.	*	2	1710	495	0.
1	1000	121	0.	*	1	2025	246	0.	*	2	0650	371	0.	*	2	1715	496	0.
1	1005	122	0.	*	1	2030	247	0.	*	2	0655	372	0.	*	2	1720	497	0.
1	1010	123	0.	*	1	2035	248	0.	*	2	0700	373	0.	*	2	1725	498	0.
1	1015	124	0.	*	1	2040	249	0.	*	2	0705	374	0.	*	2	1730	499	0.
1	1020	125	0.	*	1	2045	250	0.	*	2	0710	375	0.	*	2	1735	500	0.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	41.58-HR
(CFS)	(HR)					
		(CFS)				
3911.	3.67		631.	158.	91.	91.
		(INCHES)	1.771	1.774	1.774	1.774
		(AC-FT)	313.	313.	313.	313.

CUMULATIVE AREA = 3.31 SQ MI

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .95

DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	1		1025	126	0.	1		2050	251	0.	2		0715	376	0.
1		0005	2	0.	1		1030	127	0.	1		2055	252	0.	2		0720	377	0.
1		0010	3	0.	1		1035	128	0.	1		2100	253	0.	2		0725	378	0.
1		0015	4	0.	1		1040	129	0.	1		2105	254	0.	2		0730	379	0.
1		0020	5	2.	1		1045	130	0.	1		2110	255	0.	2		0735	380	0.
1		0025	6	9.	1		1050	131	0.	1		2115	256	0.	2		0740	381	0.
1		0030	7	22.	1		1055	132	0.	1		2120	257	0.	2		0745	382	0.
1		0035	8	34.	1		1100	133	0.	1		2125	258	0.	2		0750	383	0.
1		0040	9	35.	1		1105	134	0.	1		2130	259	0.	2		0755	384	0.
1		0045	10	28.	1		1110	135	0.	1		2135	260	0.	2		0800	385	0.
1		0050	11	20.	1		1115	136	0.	1		2140	261	0.	2		0805	386	0.
1		0055	12	14.	1		1120	137	0.	1		2145	262	0.	2		0810	387	0.
1		0100	13	10.	1		1125	138	0.	1		2150	263	0.	2		0815	388	0.
1		0105	14	8.	1		1130	139	0.	1		2155	264	0.	2		0820	389	0.
1		0110	15	12.	1		1135	140	0.	1		2200	265	0.	2		0825	390	0.
1		0115	16	19.	1		1140	141	0.	1		2205	266	0.	2		0830	391	0.

1	0120	17	25.	*	1	1145	142	0.	*	1	2210	267	0.	*	2	0835	392	0.
1	0125	18	35.	*	1	1150	143	0.	*	1	2215	268	0.	*	2	0840	393	0.
1	0130	19	57.	*	1	1155	144	0.	*	1	2220	269	0.	*	2	0845	394	0.
1	0135	20	84.	*	1	1200	145	0.	*	1	2225	270	0.	*	2	0850	395	0.
1	0140	21	107.	*	1	1205	146	0.	*	1	2230	271	0.	*	2	0855	396	0.
1	0145	22	123.	*	1	1210	147	0.	*	1	2235	272	0.	*	2	0900	397	0.
1	0150	23	127.	*	1	1215	148	0.	*	1	2240	273	0.	*	2	0905	398	0.
1	0155	24	117.	*	1	1220	149	0.	*	1	2245	274	0.	*	2	0910	399	0.
1	0200	25	98.	*	1	1225	150	0.	*	1	2250	275	0.	*	2	0915	400	0.
1	0205	26	82.	*	1	1230	151	0.	*	1	2255	276	0.	*	2	0920	401	0.
1	0210	27	80.	*	1	1235	152	0.	*	1	2300	277	0.	*	2	0925	402	0.
1	0215	28	106.	*	1	1240	153	0.	*	1	2305	278	0.	*	2	0930	403	0.
1	0220	29	152.	*	1	1245	154	0.	*	1	2310	279	0.	*	2	0935	404	0.
1	0225	30	194.	*	1	1250	155	0.	*	1	2315	280	0.	*	2	0940	405	0.
1	0230	31	210.	*	1	1255	156	0.	*	1	2320	281	0.	*	2	0945	406	0.
1	0235	32	202.	*	1	1300	157	0.	*	1	2325	282	0.	*	2	0950	407	0.
1	0240	33	204.	*	1	1305	158	0.	*	1	2330	283	0.	*	2	0955	408	0.
1	0245	34	224.	*	1	1310	159	0.	*	1	2335	284	0.	*	2	1000	409	0.
1	0250	35	234.	*	1	1315	160	0.	*	1	2340	285	0.	*	2	1005	410	0.
1	0255	36	220.	*	1	1320	161	0.	*	1	2345	286	0.	*	2	1010	411	0.
1	0300	37	209.	*	1	1325	162	0.	*	1	2350	287	0.	*	2	1015	412	0.
1	0305	38	256.	*	1	1330	163	0.	*	1	2355	288	0.	*	2	1020	413	0.
1	0310	39	387.	*	1	1335	164	0.	*	2	0000	289	0.	*	2	1025	414	0.
1	0315	40	638.	*	1	1340	165	0.	*	2	0005	290	0.	*	2	1030	415	0.
1	0320	41	1142.	*	1	1345	166	0.	*	2	0010	291	0.	*	2	1035	416	0.
1	0325	42	1925.	*	1	1350	167	0.	*	2	0015	292	0.	*	2	1040	417	0.
1	0330	43	2906.	*	1	1355	168	0.	*	2	0020	293	0.	*	2	1045	418	0.
1	0335	44	3650.	*	1	1400	169	0.	*	2	0025	294	0.	*	2	1050	419	0.
1	0340	45	3803.	*	1	1405	170	0.	*	2	0030	295	0.	*	2	1055	420	0.
1	0345	46	3544.	*	1	1410	171	0.	*	2	0035	296	0.	*	2	1100	421	0.
1	0350	47	3036.	*	1	1415	172	0.	*	2	0040	297	0.	*	2	1105	422	0.
1	0355	48	2447.	*	1	1420	173	0.	*	2	0045	298	0.	*	2	1110	423	0.
1	0400	49	1966.	*	1	1425	174	0.	*	2	0050	299	0.	*	2	1115	424	0.
1	0405	50	1590.	*	1	1430	175	0.	*	2	0055	300	0.	*	2	1120	425	0.
1	0410	51	1258.	*	1	1435	176	0.	*	2	0100	301	0.	*	2	1125	426	0.
1	0415	52	990.	*	1	1440	177	0.	*	2	0105	302	0.	*	2	1130	427	0.
1	0420	53	807.	*	1	1445	178	0.	*	2	0110	303	0.	*	2	1135	428	0.
1	0425	54	707.	*	1	1450	179	0.	*	2	0115	304	0.	*	2	1140	429	0.
1	0430	55	710.	*	1	1455	180	0.	*	2	0120	305	0.	*	2	1145	430	0.
1	0435	56	797.	*	1	1500	181	0.	*	2	0125	306	0.	*	2	1150	431	0.
1	0440	57	871.	*	1	1505	182	0.	*	2	0130	307	0.	*	2	1155	432	0.
1	0445	58	898.	*	1	1510	183	0.	*	2	0135	308	0.	*	2	1200	433	0.
1	0450	59	925.	*	1	1515	184	0.	*	2	0140	309	0.	*	2	1205	434	0.
1	0455	60	940.	*	1	1520	185	0.	*	2	0145	310	0.	*	2	1210	435	0.
1	0500	61	880.	*	1	1525	186	0.	*	2	0150	311	0.	*	2	1215	436	0.
1	0505	62	771.	*	1	1530	187	0.	*	2	0155	312	0.	*	2	1220	437	0.
1	0510	63	638.	*	1	1535	188	0.	*	2	0200	313	0.	*	2	1225	438	0.
1	0515	64	509.	*	1	1540	189	0.	*	2	0205	314	0.	*	2	1230	439	0.
1	0520	65	398.	*	1	1545	190	0.	*	2	0210	315	0.	*	2	1235	440	0.
1	0525	66	312.	*	1	1550	191	0.	*	2	0215	316	0.	*	2	1240	441	0.
1	0530	67	250.	*	1	1555	192	0.	*	2	0220	317	0.	*	2	1245	442	0.
1	0535	68	198.	*	1	1600	193	0.	*	2	0225	318	0.	*	2	1250	443	0.
1	0540	69	157.	*	1	1605	194	0.	*	2	0230	319	0.	*	2	1255	444	0.
1	0545	70	133.	*	1	1610	195	0.	*	2	0235	320	0.	*	2	1300	445	0.
1	0550	71	120.	*	1	1615	196	0.	*	2	0240	321	0.	*	2	1305	446	0.
1	0555	72	106.	*	1	1620	197	0.	*	2	0245	322	0.	*	2	1310	447	0.
1	0600	73	94.	*	1	1625	198	0.	*	2	0250	323	0.	*	2	1315	448	0.
1	0605	74	82.	*	1	1630	199	0.	*	2	0255	324	0.	*	2	1320	449	0.
1	0610	75	68.	*	1	1635	200	0.	*	2	0300	325	0.	*	2	1325	450	0.
1	0615	76	53.	*	1	1640	201	0.	*	2	0305	326	0.	*	2	1330	451	0.
1	0620	77	40.	*	1	1645	202	0.	*	2	0310	327	0.	*	2	1335	452	0.
1	0625	78	28.	*	1	1650	203	0.	*	2	0315	328	0.	*	2	1340	453	0.
1	0630	79	19.	*	1	1655	204	0.	*	2	0320	329	0.	*	2	1345	454	0.
1	0635	80	13.	*	1	1700	205	0.	*	2	0325	330	0.	*	2	1350	455	0.
1	0640	81	9.	*	1	1705	206	0.	*	2	0330	331	0.	*	2	1355	456	0.
1	0645	82	6.	*	1	1710	207	0.	*	2	0335	332	0.	*	2	1400	457	0.
1	0650	83	4.	*	1	1715	208	0.	*	2	0340	333	0.	*	2	1405	458	0.
1	0655	84	2.	*	1	1720	209	0.	*	2	0345	334	0.	*	2	1410	459	0.
1	0700	85	2.	*	1	1725	210	0.	*	2	0350	335	0.	*	2	1415	460	0.
1	0705	86	1.	*	1	1730	211	0.	*	2	0355	336	0.	*	2	1420	461	0.
1	0710	87	1.	*	1	1735	212	0.	*	2	0400	337	0.	*	2	1425	462	0.
1	0715	88	0.	*	1	1740	213	0.	*	2	0405	338	0.	*	2	1430	463	0.
1	0720	89	0.	*	1	1745	214	0.	*	2	0410	339	0.	*	2	1435	464	0.
1	0725	90	0.	*	1	1750	215	0.	*	2	0415	340	0.	*	2	1440	465	0.
1	0730	91	0.	*	1	1755	216	0.	*	2	0420	341	0.	*	2	1445	466	0.
1	0735	92	0.	*	1	1800	217	0.	*	2	0425	342	0.	*	2	1450	467	0.
1	0740	93	0.	*	1	1805	218	0.	*	2	0430	343	0.	*	2	1455	468	0.
1	0745	94	0.	*	1	1810	219	0.	*	2	0435	344	0.	*	2	1500	469	0.
1	0750	95	0.	*	1	1815	220	0.	*	2	0440	345	0.	*	2	1505	470	0.
1	0755	96	0.	*	1	1820	221	0.	*	2	0445	346	0.	*	2	1510	471	0.
1	0800	97	0.	*	1	1825	222	0.	*	2	0450	347	0.	*	2	1515	472	0.
1	0805	98	0.	*	1	1830	223	0.	*	2	0455	348	0.	*	2	1520	473	0.
1	0810	99	0.	*	1	1835	224	0.	*	2	0500	349	0.	*	2	1525	474	0.
1	0815	100	0.	*	1	1840	225	0.	*	2	0505	350	0.	*	2	1530	475	0.
1	0820	101	0.	*	1	1845	226	0.	*	2	0510	351	0.	*	2	1535	476	0.
1	0825	102	0.	*	1	1850	227	0.	*	2	0515	352	0.	*	2	1540	477	0.
1	0830	103	0.	*	1	1855	228	0.	*	2	0520	353	0.	*	2	1545	478	0.
1	0835	104	0.	*	1	1900	229	0.	*	2	0525	354	0.	*	2	1550	479	0.
1	0840	105	0.	*	1	1905	230	0.	*	2	0530	355	0.	*	2	1555	480	0.
1	0845	106	0.	*	1	1910	231	0.	*	2	0535	356	0.	*	2	1600	481	0.
1	0850	107	0.	*	1	1915	232	0.	*	2	0540	357	0.	*	2	1605	482	0.
1	0855	108	0.	*	1	1920	233	0.	*	2	0545	358	0.	*	2	1610	483	0.
1	0900	109	0.	*	1	1925	234	0.	*	2	0550	359	0.	*	2	1615	484	0.
1	0905	110	0.	*	1	1930	235	0.	*	2	0555	360	0.	*	2	1620	485	0.
1	0910	111	0.	*	1	1935	236	0.	*	2	0600	361	0.	*	2	1625	486	0.

1	0915	112	0.	*	1	1940	237	0.	*	2	0605	362	0.	*	2	1630	487	0.
1	0920	113	0.	*	1	1945	238	0.	*	2	0610	363	0.	*	2	1635	488	0.
1	0925	114	0.	*	1	1950	239	0.	*	2	0615	364	0.	*	2	1640	489	0.
1	0930	115	0.	*	1	1955	240	0.	*	2	0620	365	0.	*	2	1645	490	0.
1	0935	116	0.	*	1	2000	241	0.	*	2	0625	366	0.	*	2	1650	491	0.
1	0940	117	0.	*	1	2005	242	0.	*	2	0630	367	0.	*	2	1655	492	0.
1	0945	118	0.	*	1	2010	243	0.	*	2	0635	368	0.	*	2	1700	493	0.
1	0950	119	0.	*	1	2015	244	0.	*	2	0640	369	0.	*	2	1705	494	0.
1	0955	120	0.	*	1	2020	245	0.	*	2	0645	370	0.	*	2	1710	495	0.
1	1000	121	0.	*	1	2025	246	0.	*	2	0650	371	0.	*	2	1715	496	0.
1	1005	122	0.	*	1	2030	247	0.	*	2	0655	372	0.	*	2	1720	497	0.
1	1010	123	0.	*	1	2035	248	0.	*	2	0700	373	0.	*	2	1725	498	0.
1	1015	124	0.	*	1	2040	249	0.	*	2	0705	374	0.	*	2	1730	499	0.
1	1020	125	0.	*	1	2045	250	0.	*	2	0710	375	0.	*	2	1735	500	0.

PEAK FLOW	TIME	MAXIMUM AVERAGE FLOW			
		6-HR	24-HR	72-HR	41.58-HR
+ (CFS)	(HR)				
	(CFS)				
+ 3803.	3.67	613.	153.	89.	89.
	(INCHES)	1.721	1.724	1.724	1.724
	(AC-FT)	304.	304.	304.	304.

CUMULATIVE AREA = 3.31 SQ MI

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, PATIO = .93

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		1025	126	0.	*	1		2050	251	0.	*	2		0715	376	0.
1		0005	2	0.	*	1		1030	127	0.	*	1		2055	252	0.	*	2		0720	377	0.
1		0010	3	0.	*	1		1035	128	0.	*	1		2100	253	0.	*	2		0725	378	0.
1		0015	4	0.	*	1		1040	129	0.	*	1		2105	254	0.	*	2		0730	379	0.
1		0020	5	1.	*	1		1045	130	0.	*	1		2110	255	0.	*	2		0735	380	0.
1		0025	6	8.	*	1		1050	131	0.	*	1		2115	256	0.	*	2		0740	381	0.
1		0030	7	20.	*	1		1055	132	0.	*	1		2120	257	0.	*	2		0745	382	0.
1		0035	8	30.	*	1		1100	133	0.	*	1		2125	258	0.	*	2		0750	383	0.
1		0040	9	31.	*	1		1105	134	0.	*	1		2130	259	0.	*	2		0755	384	0.
1		0045	10	25.	*	1		1110	135	0.	*	1		2135	260	0.	*	2		0800	385	0.
1		0050	11	18.	*	1		1115	136	0.	*	1		2140	261	0.	*	2		0805	386	0.
1		0055	12	12.	*	1		1120	137	0.	*	1		2145	262	0.	*	2		0810	387	0.
1		0100	13	9.	*	1		1125	138	0.	*	1		2150	263	0.	*	2		0815	388	0.
1		0105	14	7.	*	1		1130	139	0.	*	1		2155	264	0.	*	2		0820	389	0.
1		0110	15	11.	*	1		1135	140	0.	*	1		2200	265	0.	*	2		0825	390	0.
1		0115	16	17.	*	1		1140	141	0.	*	1		2205	266	0.	*	2		0830	391	0.
1		0120	17	23.	*	1		1145	142	0.	*	1		2210	267	0.	*	2		0835	392	0.
1		0125	18	32.	*	1		1150	143	0.	*	1		2215	268	0.	*	2		0840	393	0.
1		0130	19	52.	*	1		1155	144	0.	*	1		2220	269	0.	*	2		0845	394	0.
1		0135	20	78.	*	1		1200	145	0.	*	1		2225	270	0.	*	2		0850	395	0.
1		0140	21	99.	*	1		1205	146	0.	*	1		2230	271	0.	*	2		0855	396	0.
1		0145	22	114.	*	1		1210	147	0.	*	1		2235	272	0.	*	2		0900	397	0.
1		0150	23	118.	*	1		1215	148	0.	*	1		2240	273	0.	*	2		0905	398	0.
1		0155	24	108.	*	1		1220	149	0.	*	1		2245	274	0.	*	2		0910	399	0.
1		0200	25	91.	*	1		1225	150	0.	*	1		2250	275	0.	*	2		0915	400	0.
1		0205	26	76.	*	1		1230	151	0.	*	1		2255	276	0.	*	2		0920	401	0.
1		0210	27	74.	*	1		1235	152	0.	*	1		2300	277	0.	*	2		0925	402	0.
1		0215	28	99.	*	1		1240	153	0.	*	1		2305	278	0.	*	2		0930	403	0.
1		0220	29	143.	*	1		1245	154	0.	*	1		2310	279	0.	*	2		0935	404	0.
1		0225	30	183.	*	1		1250	155	0.	*	1		2315	280	0.	*	2		0940	405	0.
1		0230	31	198.	*	1		1255	156	0.	*	1		2320	281	0.	*	2		0945	406	0.
1		0235	32	191.	*	1		1300	157	0.	*	1		2325	282	0.	*	2		0950	407	0.
1		0240	33	192.	*	1		1305	158	0.	*	1		2330	283	0.	*	2		0955	408	0.
1		0245	34	213.	*	1		1310	159	0.	*	1		2335	284	0.	*	2		1000	409	0.
1		0250	35	222.	*	1		1315	160	0.	*	1		2340	285	0.	*	2		1005	410	0.
1		0255	36	209.	*	1		1320	161	0.	*	1		2345	286	0.	*	2		1010	411	0.
1		0300	37	199.	*	1		1325	162	0.	*	1		2350	287	0.	*	2		1015	412	0.
1		0305	38	243.	*	1		1330	163	0.	*	1		2355	288	0.	*	2		1020	413	0.
1		0310	39	369.	*	1		1335	164	0.	*	2		0000	289	0.	*	2		1025	414	0.
1		0315	40	608.	*	1		1340	165	0.	*	2		0005	290	0.	*	2		1030	415	0.
1		0320	41	1092.	*	1		1345	166	0.	*	2		0010	291	0.	*	2		1035	416	0.
1		0325	42	1847.	*	1		1350	167	0.	*	2		0015	292	0.	*	2		1040	417	0.
1		0330	43	2795.	*	1		1355	168	0.	*	2		0020	293	0.	*	2		1045	418	0.
1		0335	44	3524.	*	1		1400	169	0.	*	2		0025	294	0.	*	2		1050	419	0.
1		0340	45	3671.	*	1		1405	170	0.	*	2		0030	295	0.	*	2		1055	420	0.
1		0345	46	3420.	*	1		1410	171	0.	*	2		0035	296	0.	*	2		1100	421	0.
1		0350	47	2937.	*	1		1415	172	0.	*	2		0040	297	0.	*	2		1105	422	0.
1		0355	48	2369.	*	1		1420	173	0.	*	2		0045	298	0.	*	2		1110	423	0.
1		0400	49	1905.	*	1		1425	174	0.	*	2		0050	299	0.	*	2		1115	424	0.
1		0405	50	1542.	*	1		1430	175	0.	*	2		0055	300	0.	*	2		1120	425	0.
1		0410	51	1220.	*	1		1435	176	0.	*	2		0100	301	0.	*	2		1125	426	0.
1		0415	52	961.	*	1		1440	177	0.	*	2		0105	302	0.	*	2		1130	427	0.
1		0420	53	784.	*	1		1445	178	0.	*	2		0110	303	0.	*	2		1135	428	0.
1		0425	54	687.	*	1		1450	179	0.	*	2		0115	304	0.	*	2		1140	429	0.
1		0430	55	689.	*	1		1455	180	0.	*	2		0120	305	0.	*	2		1145	430	0.
1		0435	56	773.	*	1		1500	181	0.	*	2		0125	306	0.	*	2		1150	431	0.
1		0440	57	845.	*	1		1505	182	0.	*	2		0130	307	0.	*	2		1155	432	0.

1	0445	58	871.	*	1	1510	183	0.	*	2	0135	308	0.	*	2	1200	433	0.
1	0450	59	898.	*	1	1515	184	0.	*	2	0140	309	0.	*	2	1205	434	0.
1	0455	60	912.	*	1	1520	185	0.	*	2	0145	310	0.	*	2	1210	435	0.
1	0500	61	855.	*	1	1525	186	0.	*	2	0150	311	0.	*	2	1215	436	0.
1	0505	62	749.	*	1	1530	187	0.	*	2	0155	312	0.	*	2	1220	437	0.
1	0510	63	621.	*	1	1535	188	0.	*	2	0200	313	0.	*	2	1225	438	0.
1	0515	64	495.	*	1	1540	189	0.	*	2	0205	314	0.	*	2	1230	439	0.
1	0520	65	387.	*	1	1545	190	0.	*	2	0210	315	0.	*	2	1235	440	0.
1	0525	66	304.	*	1	1550	191	0.	*	2	0215	316	0.	*	2	1240	441	0.
1	0530	67	244.	*	1	1555	192	0.	*	2	0220	317	0.	*	2	1245	442	0.
1	0535	68	193.	*	1	1600	193	0.	*	2	0225	318	0.	*	2	1250	443	0.
1	0540	69	153.	*	1	1605	194	0.	*	2	0230	319	0.	*	2	1255	444	0.
1	0545	70	129.	*	1	1610	195	0.	*	2	0235	320	0.	*	2	1300	445	0.
1	0550	71	117.	*	1	1615	196	0.	*	2	0240	321	0.	*	2	1305	446	0.
1	0555	72	104.	*	1	1620	197	0.	*	2	0245	322	0.	*	2	1310	447	0.
1	0600	73	92.	*	1	1625	198	0.	*	2	0250	323	0.	*	2	1315	448	0.
1	0605	74	80.	*	1	1630	199	0.	*	2	0255	324	0.	*	2	1320	449	0.
1	0610	75	67.	*	1	1635	200	0.	*	2	0300	325	0.	*	2	1325	450	0.
1	0615	76	52.	*	1	1640	201	0.	*	2	0305	326	0.	*	2	1330	451	0.
1	0620	77	39.	*	1	1645	202	0.	*	2	0310	327	0.	*	2	1335	452	0.
1	0625	78	28.	*	1	1650	203	0.	*	2	0315	328	0.	*	2	1340	453	0.
1	0630	79	19.	*	1	1655	204	0.	*	2	0320	329	0.	*	2	1345	454	0.
1	0635	80	13.	*	1	1700	205	0.	*	2	0325	330	0.	*	2	1350	455	0.
1	0640	81	9.	*	1	1705	206	0.	*	2	0330	331	0.	*	2	1355	456	0.
1	0645	82	6.	*	1	1710	207	0.	*	2	0335	332	0.	*	2	1400	457	0.
1	0650	83	4.	*	1	1715	208	0.	*	2	0340	333	0.	*	2	1405	458	0.
1	0655	84	2.	*	1	1720	209	0.	*	2	0345	334	0.	*	2	1410	459	0.
1	0700	85	2.	*	1	1725	210	0.	*	2	0350	335	0.	*	2	1415	460	0.
1	0705	86	1.	*	1	1730	211	0.	*	2	0355	336	0.	*	2	1420	461	0.
1	0710	87	1.	*	1	1735	212	0.	*	2	0400	337	0.	*	2	1425	462	0.
1	0715	88	0.	*	1	1740	213	0.	*	2	0405	338	0.	*	2	1430	463	0.
1	0720	89	0.	*	1	1745	214	0.	*	2	0410	339	0.	*	2	1435	464	0.
1	0725	90	0.	*	1	1750	215	0.	*	2	0415	340	0.	*	2	1440	465	0.
1	0730	91	0.	*	1	1755	216	0.	*	2	0420	341	0.	*	2	1445	466	0.
1	0735	92	0.	*	1	1800	217	0.	*	2	0425	342	0.	*	2	1450	467	0.
1	0740	93	0.	*	1	1805	218	0.	*	2	0430	343	0.	*	2	1455	468	0.
1	0745	94	0.	*	1	1810	219	0.	*	2	0435	344	0.	*	2	1500	469	0.
1	0750	95	0.	*	1	1815	220	0.	*	2	0440	345	0.	*	2	1505	470	0.
1	0755	96	0.	*	1	1820	221	0.	*	2	0445	346	0.	*	2	1510	471	0.
1	0800	97	0.	*	1	1825	222	0.	*	2	0450	347	0.	*	2	1515	472	0.
1	0805	98	0.	*	1	1830	223	0.	*	2	0455	348	0.	*	2	1520	473	0.
1	0810	99	0.	*	1	1835	224	0.	*	2	0500	349	0.	*	2	1525	474	0.
1	0815	100	0.	*	1	1840	225	0.	*	2	0505	350	0.	*	2	1530	475	0.
1	0820	101	0.	*	1	1845	226	0.	*	2	0510	351	0.	*	2	1535	476	0.
1	0825	102	0.	*	1	1850	227	0.	*	2	0515	352	0.	*	2	1540	477	0.
1	0830	103	0.	*	1	1855	228	0.	*	2	0520	353	0.	*	2	1545	478	0.
1	0835	104	0.	*	1	1900	229	0.	*	2	0525	354	0.	*	2	1550	479	0.
1	0840	105	0.	*	1	1905	230	0.	*	2	0530	355	0.	*	2	1555	480	0.
1	0845	106	0.	*	1	1910	231	0.	*	2	0535	356	0.	*	2	1600	481	0.
1	0850	107	0.	*	1	1915	232	0.	*	2	0540	357	0.	*	2	1605	482	0.
1	0855	108	0.	*	1	1920	233	0.	*	2	0545	358	0.	*	2	1610	483	0.
1	0900	109	0.	*	1	1925	234	0.	*	2	0550	359	0.	*	2	1615	484	0.
1	0905	110	0.	*	1	1930	235	0.	*	2	0555	360	0.	*	2	1620	485	0.
1	0910	111	0.	*	1	1935	236	0.	*	2	0600	361	0.	*	2	1625	486	0.
1	0915	112	0.	*	1	1940	237	0.	*	2	0605	362	0.	*	2	1630	487	0.
1	0920	113	0.	*	1	1945	238	0.	*	2	0610	363	0.	*	2	1635	488	0.
1	0925	114	0.	*	1	1950	239	0.	*	2	0615	364	0.	*	2	1640	489	0.
1	0930	115	0.	*	1	1955	240	0.	*	2	0620	365	0.	*	2	1645	490	0.
1	0935	116	0.	*	1	2000	241	0.	*	2	0625	366	0.	*	2	1650	491	0.
1	0940	117	0.	*	1	2005	242	0.	*	2	0630	367	0.	*	2	1655	492	0.
1	0945	118	0.	*	1	2010	243	0.	*	2	0635	368	0.	*	2	1700	493	0.
1	0950	119	0.	*	1	2015	244	0.	*	2	0640	369	0.	*	2	1705	494	0.
1	0955	120	0.	*	1	2020	245	0.	*	2	0645	370	0.	*	2	1710	495	0.
1	1000	121	0.	*	1	2025	246	0.	*	2	0650	371	0.	*	2	1715	496	0.
1	1005	122	0.	*	1	2030	247	0.	*	2	0655	372	0.	*	2	1720	497	0.
1	1010	123	0.	*	1	2035	248	0.	*	2	0700	373	0.	*	2	1725	498	0.
1	1015	124	0.	*	1	2040	249	0.	*	2	0705	374	0.	*	2	1730	499	0.
1	1020	125	0.	*	1	2045	250	0.	*	2	0710	375	0.	*	2	1735	500	0.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	41.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 3671.	3.67		591.	148.	85.	85.
		(INCHES)	1.660	1.663	1.663	1.663
		(AC-FT)	293.	294.	294.	294.

CUMULATIVE AREA = 3.31 SQ MI

HYDROGRAPH AT STATION CLMBWCDB
SUM OF 2 HYDROGRAPHS
PLAN 1, RATIO = .92

DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW	*	DA	MON	HRMN	ORD	FLOW
1		0000	1	0.	*	1		1025	126	0.	*	1		2050	251	0.	*	2		0715	376	0.
1		0005	2	0.	*	1		1030	127	0.	*	1		2055	252	0.	*	2		0720	377	0.
1		0010	3	0.	*	1		1035	128	0.	*	1		2100	253	0.	*	2		0725	378	0.

1	0015	4	0.	*	1	1040	129	0.	*	1	2105	254	0.	*	2	0730	379	0.	
1	0020	5	1.	*	1	1045	130	0.	*	1	2110	255	0.	*	2	0735	380	0.	
1	0025	6	7.	*	1	1050	131	0.	*	1	2115	256	0.	*	2	0740	381	0.	
1	0030	7	18.	*	1	1055	132	0.	*	1	2120	257	0.	*	2	0745	382	0.	
1	0035	8	29.	*	1	1100	133	0.	*	1	2125	258	0.	*	2	0750	383	0.	
1	0040	9	29.	*	1	1105	134	0.	*	1	2130	259	0.	*	2	0755	384	0.	
1	0045	10	23.	*	1	1110	135	0.	*	1	2135	260	0.	*	2	0800	385	0.	
1	0050	11	16.	*	1	1115	136	0.	*	1	2140	261	0.	*	2	0805	386	0.	
1	0055	12	11.	*	1	1120	137	0.	*	1	2145	262	0.	*	2	0810	387	0.	
1	0100	13	8.	*	1	1125	138	0.	*	1	2150	263	0.	*	2	0815	388	0.	
1	0105	14	7.	*	1	1130	139	0.	*	1	2155	264	0.	*	2	0820	389	0.	
1	0110	15	10.	*	1	1135	140	0.	*	1	2200	265	0.	*	2	0825	390	0.	
1	0115	16	16.	*	1	1140	141	0.	*	1	2205	266	0.	*	2	0830	391	0.	
1	0120	17	21.	*	1	1145	142	0.	*	1	2210	267	0.	*	2	0835	392	0.	
1	0125	18	30.	*	1	1150	143	0.	*	1	2215	268	0.	*	2	0840	393	0.	
1	0130	19	49.	*	1	1155	144	0.	*	1	2220	269	0.	*	2	0845	394	0.	
1	0135	20	74.	*	1	1200	145	0.	*	1	2225	270	0.	*	2	0850	395	0.	
1	0140	21	94.	*	1	1205	146	0.	*	1	2230	271	0.	*	2	0855	396	0.	
1	0145	22	108.	*	1	1210	147	0.	*	1	2235	272	0.	*	2	0900	397	0.	
1	0150	23	112.	*	1	1215	148	0.	*	1	2240	273	0.	*	2	0905	398	0.	
1	0155	24	103.	*	1	1220	149	0.	*	1	2245	274	0.	*	2	0910	399	0.	
1	0200	25	87.	*	1	1225	150	0.	*	1	2250	275	0.	*	2	0915	400	0.	
1	0205	26	72.	*	1	1230	151	0.	*	1	2255	276	0.	*	2	0920	401	0.	
1	0210	27	71.	*	1	1235	152	0.	*	1	2300	277	0.	*	2	0925	402	0.	
1	0215	28	95.	*	1	1240	153	0.	*	1	2305	278	0.	*	2	0930	403	0.	
1	0220	29	138.	*	1	1245	154	0.	*	1	2310	279	0.	*	2	0935	404	0.	
1	0225	30	176.	*	1	1250	155	0.	*	1	2315	280	0.	*	2	0940	405	0.	
1	0230	31	191.	*	1	1255	156	0.	*	1	2320	281	0.	*	2	0945	406	0.	
1	0235	32	184.	*	1	1300	157	0.	*	1	2325	282	0.	*	2	0950	407	0.	
1	0240	33	186.	*	1	1305	158	0.	*	1	2330	283	0.	*	2	0955	408	0.	
1	0245	34	206.	*	1	1310	159	0.	*	1	2335	284	0.	*	2	1000	409	0.	
1	0250	35	215.	*	1	1315	160	0.	*	1	2340	285	0.	*	2	1005	410	0.	
1	0255	36	203.	*	1	1320	161	0.	*	1	2345	286	0.	*	2	1010	411	0.	
1	0300	37	193.	*	1	1325	162	0.	*	1	2350	287	0.	*	2	1015	412	0.	
1	0305	38	236.	*	1	1330	163	0.	*	1	2355	288	0.	*	2	1020	413	0.	
1	0310	39	358.	*	1	1335	164	0.	*	2	0000	289	0.	*	2	1025	414	0.	
1	0315	40	591.	*	1	1340	165	0.	*	2	0005	290	0.	*	2	1030	415	0.	
1	0320	41	1062.	*	1	1345	166	0.	*	2	0010	291	0.	*	2	1035	416	0.	
1	0325	42	1800.	*	1	1350	167	0.	*	2	0015	292	0.	*	2	1040	417	0.	
1	0330	43	2729.	*	1	1355	168	0.	*	2	0020	293	0.	*	2	1045	418	0.	
1	0335	44	3449.	*	1	1400	169	0.	*	2	0025	294	0.	*	2	1050	419	0.	
1	0340	45	3591.	*	1	1405	170	0.	*	2	0030	295	0.	*	2	1055	420	0.	
1	0345	46	3349.	*	1	1410	171	0.	*	2	0035	296	0.	*	2	1100	421	0.	
1	0350	47	2876.	*	1	1415	172	0.	*	2	0040	297	0.	*	2	1105	422	0.	
1	0355	48	2323.	*	1	1420	173	0.	*	2	0045	298	0.	*	2	1110	423	0.	
1	0400	49	1869.	*	1	1425	174	0.	*	2	0050	299	0.	*	2	1115	424	0.	
1	0405	50	1514.	*	1	1430	175	0.	*	2	0055	300	0.	*	2	1120	425	0.	
1	0410	51	1199.	*	1	1435	176	0.	*	2	0100	301	0.	*	2	1125	426	0.	
1	0415	52	944.	*	1	1440	177	0.	*	2	0105	302	0.	*	2	1130	427	0.	
1	0420	53	770.	*	1	1445	178	0.	*	2	0110	303	0.	*	2	1135	428	0.	
1	0425	54	675.	*	1	1450	179	0.	*	2	0115	304	0.	*	2	1140	429	0.	
1	0430	55	677.	*	1	1455	180	0.	*	2	0120	305	0.	*	2	1145	430	0.	
1	0435	56	759.	*	1	1500	181	0.	*	2	0125	306	0.	*	2	1150	431	0.	
1	0440	57	829.	*	1	1505	182	0.	*	2	0130	307	0.	*	2	1155	432	0.	
1	0445	58	856.	*	1	1510	183	0.	*	2	0135	308	0.	*	2	1200	433	0.	
1	0450	59	882.	*	1	1515	184	0.	*	2	0140	309	0.	*	2	1205	434	0.	
1	0455	60	896.	*	1	1520	185	0.	*	2	0145	310	0.	*	2	1210	435	0.	
1	0500	61	840.	*	1	1525	186	0.	*	2	0150	311	0.	*	2	1215	436	0.	
1	0505	62	736.	*	1	1530	187	0.	*	2	0155	312	0.	*	2	1220	437	0.	
1	0510	63	610.	*	1	1535	188	0.	*	2	0200	313	0.	*	2	1225	438	0.	
1	0515	64	487.	*	1	1540	189	0.	*	2	0205	314	0.	*	2	1230	439	0.	
1	0520	65	381.	*	1	1545	190	0.	*	2	0210	315	0.	*	2	1235	440	0.	
1	0525	66	299.	*	1	1550	191	0.	*	2	0215	316	0.	*	2	1240	441	0.	
1	0530	67	240.	*	1	1555	192	0.	*	2	0220	317	0.	*	2	1245	442	0.	
1	0535	68	190.	*	1	1600	193	0.	*	2	0225	318	0.	*	2	1250	443	0.	
1	0540	69	151.	*	1	1605	194	0.	*	2	0230	319	0.	*	2	1255	444	0.	
1	0545	70	127.	*	1	1610	195	0.	*	2	0235	320	0.	*	2	1300	445	0.	
1	0550	71	115.	*	1	1615	196	0.	*	2	0240	321	0.	*	2	1305	446	0.	
1	0555	72	102.	*	1	1620	197	0.	*	2	0245	322	0.	*	2	1310	447	0.	
1	0600	73	90.	*	1	1625	198	0.	*	2	0250	323	0.	*	2	1315	448	0.	
1	0605	74	79.	*	1	1630	199	0.	*	2	0255	324	0.	*	2	1320	449	0.	
1	0610	75	65.	*	1	1635	200	0.	*	2	0300	325	0.	*	2	1325	450	0.	
1	0615	76	51.	*	1	1640	201	0.	*	2	0305	326	0.	*	2	1330	451	0.	
1	0620	77	38.	*	1	1645	202	0.	*	2	0310	327	0.	*	2	1335	452	0.	
1	0625	78	27.	*	1	1650	203	0.	*	2	0315	328	0.	*	2	1340	453	0.	
1	0630	79	19.	*	1	1655	204	0.	*	2	0320	329	0.	*	2	1345	454	0.	
1	0635	80	13.	*	1	1700	205	0.	*	2	0325	330	0.	*	2	1350	455	0.	
1	0640	81	8.	*	1	1705	206	0.	*	2	0330	331	0.	*	2	1355	456	0.	
1	0645	82	6.	*	1	1710	207	0.	*	2	0335	332	0.	*	2	1400	457	0.	
1	0650	83	4.	*	1	1715	208	0.	*	2	0340	333	0.	*	2	1405	458	0.	
1	0655	84	2.	*	1	1720	209	0.	*	2	0345	334	0.	*	2	1410	459	0.	
1	0700	85	2.	*	1	1725	210	0.	*	2	0350	335	0.	*	2	1415	460	0.	
1	0705	86	1.	*	1	1730	211	0.	*	2	0355	336	0.	*	2	1420	461	0.	
1	0710	87	1.	*	1	1735	212	0.	*	2	0400	337	0.	*	2	1425	462	0.	
1	0715	88	0.	*	1	1740	213	0.	*	2	0405	338	0.	*	2	1430	463	0.	
1	0720	89	0.	*	1	1745	214	0.	*	2	0410	339	0.	*	2	1435	464	0.	
1	0725	90	0.	*	1	1750	215	0.	*	2	0415	340	0.	*	2	1440	465	0.	
1	0730	91	0.	*	1	1755	216	0.	*	2	0420	341	0.	*	2	1445	466	0.	
1	0735	92	0.	*	1	1800	217	0.	*	2	0425	342	0.	*	2	1450	467	0.	
1	0740	93	0.	*	1	1805	218	0.	*	2	0430	343	0.	*	2	1455	468	0.	
1	0745	94	0.	*	1	1810	219	0.	*	2	0435	344	0.	*	2	1500	469	0.	
1	0750	95	0.	*	1	1815	220	0.	*	2	0440	345	0.	*	2	1505	470	0.	
1	0755	96	0.	*	1	1820	221	0.	*	2	0445	346	0.	*	2	1510	471	0.	
1	0800	97	0.	*	1	1825	222	0.	*	2	0450	347	0.	*	2	1515	472	0.	
1	0805	98	0.	*	1	1830	223	0.	*	2	0455	348	0.	*	2	1520	473	0.	

1	0810	99	0.	*	1	1835	224	0.	*	2	0500	349	0.	*	2	1525	474	0.
1	0815	100	0.	*	1	1840	225	0.	*	2	0505	350	0.	*	2	1530	475	0.
1	0820	101	0.	*	1	1845	226	0.	*	2	0510	351	0.	*	2	1535	476	0.
1	0825	102	0.	*	1	1850	227	0.	*	2	0515	352	0.	*	2	1540	477	0.
1	0830	103	0.	*	1	1855	228	0.	*	2	0520	353	0.	*	2	1545	478	0.
1	0835	104	0.	*	1	1900	229	0.	*	2	0525	354	0.	*	2	1550	479	0.
1	0840	105	0.	*	1	1905	230	0.	*	2	0530	355	0.	*	2	1555	480	0.
1	0845	106	0.	*	1	1910	231	0.	*	2	0535	356	0.	*	2	1600	481	0.
1	0850	107	0.	*	1	1915	232	0.	*	2	0540	357	0.	*	2	1605	482	0.
1	0855	108	0.	*	1	1920	233	0.	*	2	0545	358	0.	*	2	1610	483	0.
1	0900	109	0.	*	1	1925	234	0.	*	2	0550	359	0.	*	2	1615	484	0.
1	0905	110	0.	*	1	1930	235	0.	*	2	0555	360	0.	*	2	1620	485	0.
1	0910	111	0.	*	1	1935	236	0.	*	2	0600	361	0.	*	2	1625	486	0.
1	0915	112	0.	*	1	1940	237	0.	*	2	0605	362	0.	*	2	1630	487	0.
1	0920	113	0.	*	1	1945	238	0.	*	2	0610	363	0.	*	2	1635	488	0.
1	0925	114	0.	*	1	1950	239	0.	*	2	0615	364	0.	*	2	1640	489	0.
1	0930	115	0.	*	1	1955	240	0.	*	2	0620	365	0.	*	2	1645	490	0.
1	0935	116	0.	*	1	2000	241	0.	*	2	0625	366	0.	*	2	1650	491	0.
1	0940	117	0.	*	1	2005	242	0.	*	2	0630	367	0.	*	2	1655	492	0.
1	0945	118	0.	*	1	2010	243	0.	*	2	0635	368	0.	*	2	1700	493	0.
1	0950	119	0.	*	1	2015	244	0.	*	2	0640	369	0.	*	2	1705	494	0.
1	0955	120	0.	*	1	2020	245	0.	*	2	0645	370	0.	*	2	1710	495	0.
1	1000	121	0.	*	1	2025	246	0.	*	2	0650	371	0.	*	2	1715	496	0.
1	1005	122	0.	*	1	2030	247	0.	*	2	0655	372	0.	*	2	1720	497	0.
1	1010	123	0.	*	1	2035	248	0.	*	2	0700	373	0.	*	2	1725	498	0.
1	1015	124	0.	*	1	2040	249	0.	*	2	0705	374	0.	*	2	1730	499	0.
1	1020	125	0.	*	1	2045	250	0.	*	2	0710	375	0.	*	2	1735	500	0.

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	41.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 3591.	3.67		578.	145.	84.	84.
		(INCHES)	1.624	1.627	1.627	1.627
		(AC-FT)	287.	287.	287.	287.

CUMULATIVE AREA = 3.31 SQ MI

261 KK LMBWCDB

265 KO OUTPUT CONTROL VARIABLES
IPRNT 1 PRINT CONTROL
IPLOT 0 PLOT CONTROL
QSCAL 0. HYDROGRAPH PLOT SCALE

HYDROGRAPH ROUTING DATA

266 RS STORAGE ROUTING
NSTPS 1 NUMBER OF SUBREACHES
ITYP STOR TYPE OF INITIAL CONDITION
RSVRIC -1.00 INITIAL CONDITION
X .00 WORKING R AND D COEFFICIENT

267 SV	STORAGE	.0	15.0	37.0	90.0	170.0	298.0	416.0	556.0	654.0
268 SQ	DISCHARGE	0.	21.	30.	37.	42.	46.	90.	97.	101.
269 SE	ELEVATION	.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00	38.00

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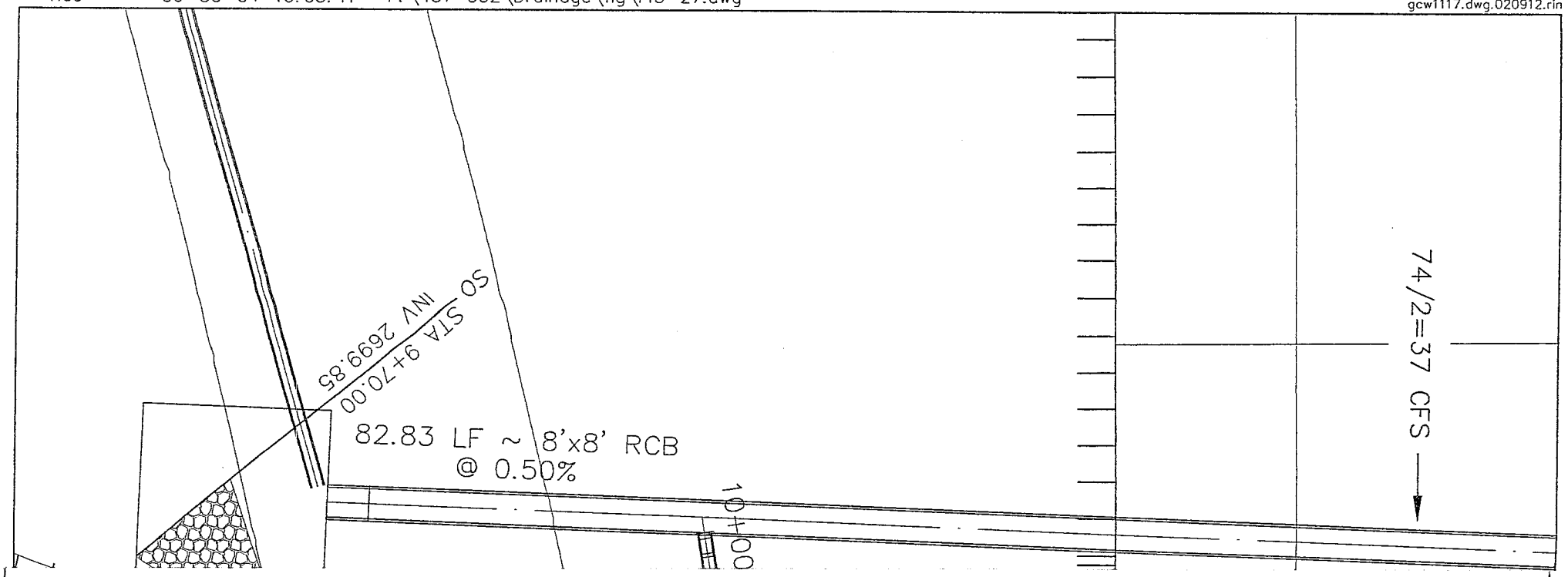
HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = 1.00

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1	0000		1	0.	.0	.0	1	1355		168	46.	284.4	24.5	2	0350		335	44.	232.9	22.5
1	0005		2	0.	.0	.0	1	1400		169	46.	284.1	24.5	2	0355		336	44.	232.6	22.4
1	0010		3	0.	.0	.0	1	1405		170	46.	283.8	24.4	2	0400		337	44.	232.3	22.4
1	0015		4	0.	.0	.0	1	1410		171	46.	283.4	24.4	2	0405		338	44.	232.0	22.4
1	0020		5	0.	.0	.0	1	1415		172	46.	283.1	24.4	2	0410		339	44.	231.7	22.4
1	0025		6	0.	.1	.0	1	1420		173	46.	282.8	24.4	2	0415		340	44.	231.4	22.4
1	0030		7	0.	.2	.1	1	1425		174	46.	282.5	24.4	2	0420		341	44.	231.1	22.4
1	0035		8	1.	.4	.1	1	1430		175	46.	282.2	24.4	2	0425		342	44.	230.8	22.4
1	0040		9	1.	.7	.2	1	1435		176	45.	281.9	24.4	2	0430		343	44.	230.5	22.4
1	0045		10	1.	1.0	.3	1	1440		177	45.	281.6	24.4	2	0435		344	44.	230.2	22.4
1	0050		11	2.	1.2	.4	1	1445		178	45.	281.3	24.3	2	0440		345	44.	229.9	22.3
1	0055		12	2.	1.3	.4	1	1450		179	45.	280.9	24.3	2	0445		346	44.	229.6	22.3
1	0100		13	2.	1.4	.5	1	1455		180	45.	280.6	24.3	2	0450		347	44.	229.3	22.3

1	0105	14	2.	1.5	.5	*	1	1500	181	45.	280.3	24.3	*	2	0455	348	44.	229.0	22.3
1	0110	15	2.	1.6	.5	*	1	1505	182	45.	280.0	24.3	*	2	0500	349	44.	228.7	22.3
1	0115	16	2.	1.7	.6	*	1	1510	183	45.	279.7	24.3	*	2	0505	350	44.	228.4	22.3
1	0120	17	3.	1.8	.6	*	1	1515	184	45.	279.4	24.3	*	2	0510	351	44.	228.1	22.3
1	0125	18	3.	2.1	.7	*	1	1520	185	45.	279.1	24.3	*	2	0515	352	44.	227.8	22.3
1	0130	19	3.	2.4	.8	*	1	1525	186	45.	278.8	24.2	*	2	0520	353	44.	227.5	22.2
1	0135	20	4.	3.0	1.0	*	1	1530	187	45.	278.4	24.2	*	2	0525	354	44.	227.2	22.2
1	0140	21	5.	3.8	1.3	*	1	1535	188	45.	278.1	24.2	*	2	0530	355	44.	226.9	22.2
1	0145	22	7.	4.7	1.6	*	1	1540	189	45.	277.8	24.2	*	2	0535	356	44.	226.6	22.2
1	0150	23	8.	5.7	1.9	*	1	1545	190	45.	277.5	24.2	*	2	0540	357	44.	226.3	22.2
1	0155	24	9.	6.6	2.2	*	1	1550	191	45.	277.2	24.2	*	2	0545	358	44.	226.0	22.2
1	0200	25	10.	7.4	2.5	*	1	1555	192	45.	276.9	24.2	*	2	0550	359	44.	225.7	22.2
1	0205	26	11.	8.0	2.7	*	1	1600	193	45.	276.6	24.2	*	2	0555	360	44.	225.4	22.2
1	0210	27	12.	8.6	2.9	*	1	1605	194	45.	276.3	24.2	*	2	0600	361	44.	225.1	22.2
1	0215	28	13.	9.2	3.1	*	1	1610	195	45.	275.9	24.1	*	2	0605	362	44.	224.8	22.1
1	0220	29	14.	10.1	3.4	*	1	1615	196	45.	275.6	24.1	*	2	0610	363	44.	224.5	22.1
1	0225	30	16.	11.4	3.8	*	1	1620	197	45.	275.3	24.1	*	2	0615	364	44.	224.1	22.1
1	0230	31	18.	12.9	4.3	*	1	1625	198	45.	275.0	24.1	*	2	0620	365	44.	223.8	22.1
1	0235	32	20.	14.4	4.8	*	1	1630	199	45.	274.7	24.1	*	2	0625	366	44.	223.5	22.1
1	0240	33	21.	15.8	5.2	*	1	1635	200	45.	274.4	24.1	*	2	0630	367	44.	223.2	22.1
1	0245	34	22.	17.3	5.5	*	1	1640	201	45.	274.1	24.1	*	2	0635	368	44.	222.9	22.1
1	0250	35	23.	18.9	5.9	*	1	1645	202	45.	273.8	24.1	*	2	0640	369	44.	222.6	22.1
1	0255	36	23.	20.5	6.2	*	1	1650	203	45.	273.4	24.0	*	2	0645	370	44.	222.3	22.0
1	0300	37	24.	22.0	6.6	*	1	1655	204	45.	273.1	24.0	*	2	0650	371	44.	222.0	22.0
1	0305	38	25.	23.6	6.9	*	1	1700	205	45.	272.8	24.0	*	2	0655	372	44.	221.7	22.0
1	0310	39	25.	25.9	7.5	*	1	1705	206	45.	272.5	24.0	*	2	0700	373	44.	221.4	22.0
1	0315	40	27.	29.6	8.3	*	1	1710	207	45.	272.2	24.0	*	2	0705	374	44.	221.1	22.0
1	0320	41	30.	36.2	9.8	*	1	1715	208	45.	271.9	24.0	*	2	0710	375	44.	220.8	22.0
1	0325	42	31.	47.6	11.0	*	1	1720	209	45.	271.6	24.0	*	2	0715	376	44.	220.5	22.0
1	0330	43	34.	65.4	12.7	*	1	1725	210	45.	271.3	24.0	*	2	0720	377	44.	220.2	22.0
1	0335	44	37.	89.6	15.0	*	1	1730	211	45.	271.0	23.9	*	2	0725	378	44.	219.9	22.0
1	0340	45	39.	116.9	16.7	*	1	1735	212	45.	270.6	23.9	*	2	0730	379	44.	219.6	21.9
1	0345	46	40.	143.9	18.4	*	1	1740	213	45.	270.3	23.9	*	2	0735	380	44.	219.3	21.9
1	0350	47	42.	167.9	19.9	*	1	1745	214	45.	270.0	23.9	*	2	0740	381	44.	219.0	21.9
1	0355	48	43.	187.9	20.7	*	1	1750	215	45.	269.7	23.9	*	2	0745	382	44.	218.7	21.9
1	0400	49	43.	203.8	21.3	*	1	1755	216	45.	269.4	23.9	*	2	0750	383	44.	218.4	21.9
1	0405	50	43.	216.6	21.8	*	1	1800	217	45.	269.1	23.9	*	2	0755	384	44.	218.1	21.9
1	0410	51	44.	226.7	22.2	*	1	1805	218	45.	268.8	23.9	*	2	0800	385	43.	217.8	21.9
1	0415	52	44.	234.6	22.5	*	1	1810	219	45.	268.5	23.8	*	2	0805	386	43.	217.5	21.9
1	0420	53	44.	240.9	22.8	*	1	1815	220	45.	268.2	23.8	*	2	0810	387	43.	217.2	21.8
1	0425	54	44.	246.2	23.0	*	1	1820	221	45.	267.8	23.8	*	2	0815	388	43.	216.9	21.8
1	0430	55	45.	251.0	23.2	*	1	1825	222	45.	267.5	23.8	*	2	0820	389	43.	216.6	21.8
1	0435	56	45.	256.2	23.4	*	1	1830	223	45.	267.2	23.8	*	2	0825	390	43.	216.3	21.8
1	0440	57	45.	262.1	23.6	*	1	1835	224	45.	266.9	23.8	*	2	0830	391	43.	216.0	21.8
1	0445	58	45.	268.2	23.8	*	1	1840	225	45.	266.6	23.8	*	2	0835	392	43.	215.7	21.8
1	0450	59	45.	274.6	24.1	*	1	1845	226	45.	266.3	23.8	*	2	0840	393	43.	215.4	21.8
1	0455	60	45.	281.1	24.3	*	1	1850	227	45.	266.0	23.7	*	2	0845	394	43.	215.2	21.8
1	0500	61	46.	287.5	24.6	*	1	1855	228	45.	265.7	23.7	*	2	0850	395	43.	214.9	21.8
1	0505	62	46.	293.2	24.8	*	1	1900	229	45.	265.4	23.7	*	2	0855	396	43.	214.6	21.7
1	0510	63	46.	298.0	25.0	*	1	1905	230	45.	265.1	23.7	*	2	0900	397	43.	214.3	21.7
1	0515	64	47.	301.9	25.2	*	1	1910	231	45.	264.7	23.7	*	2	0905	398	43.	214.0	21.7
1	0520	65	49.	304.8	25.3	*	1	1915	232	45.	264.4	23.7	*	2	0910	399	43.	213.7	21.7
1	0525	66	49.	307.0	25.4	*	1	1920	233	45.	264.1	23.7	*	2	0915	400	43.	213.4	21.7
1	0530	67	50.	308.7	25.5	*	1	1925	234	45.	263.8	23.7	*	2	0920	401	43.	213.1	21.7
1	0535	68	50.	310.0	25.5	*	1	1930	235	45.	263.5	23.7	*	2	0925	402	43.	212.8	21.7
1	0540	69	51.	310.9	25.5	*	1	1935	236	45.	263.2	23.6	*	2	0930	403	43.	212.5	21.7
1	0545	70	51.	311.5	25.6	*	1	1940	237	45.	262.9	23.6	*	2	0935	404	43.	212.2	21.6
1	0550	71	51.	312.1	25.6	*	1	1945	238	45.	262.6	23.6	*	2	0940	405	43.	211.9	21.6
1	0555	72	51.	312.5	25.6	*	1	1950	239	45.	262.3	23.6	*	2	0945	406	43.	211.6	21.6
1	0600	73	52.	312.9	25.6	*	1	1955	240	45.	262.0	23.6	*	2	0950	407	43.	211.3	21.6
1	0605	74	52.	313.2	25.6	*	1	2000	241	45.	261.7	23.6	*	2	0955	408	43.	211.0	21.6
1	0610	75	52.	313.4	25.7	*	1	2005	242	45.	261.3	23.6	*	2	1000	409	43.	210.7	21.6
1	0615	76	52.	313.4	25.7	*	1	2010	243	45.	261.0	23.6	*	2	1005	410	43.	210.4	21.6
1	0620	77	52.	313.4	25.7	*	1	2015	244	45.	260.7	23.5	*	2	1010	411	43.	210.1	21.6
1	0625	78	52.	313.3	25.6	*	1	2020	245	45.	260.4	23.5	*	2	1015	412	43.	209.8	21.6
1	0630	79	52.	313.1	25.6	*	1	2025	246	45.	260.1	23.5	*	2	1020	413	43.	209.5	21.5
1	0635	80	52.	312.9	25.6	*	1	2030	247	45.	259.8	23.5	*	2	1025	414	43.	209.2	21.5
1	0640	81	51.	312.6	25.6	*	1	2035	248	45.	259.5	23.5	*	2	1030	415	43.	208.9	21.5
1	0645	82	51.	312.3	25.6	*	1	2040	249	45.	259.2	23.5	*	2	1035	416	43.	208.6	21.5
1	0650	83	51.	311.9	25.6	*	1	2045	250	45.	258.9	23.5	*	2	1040	417	43.	208.3	21.5
1	0655	84	51.	311.6	25.6	*	1	2050	251	45.	258.6	23.5	*	2	1045	418	43.	208.0	21.5
1	0700	85	51.	311.3	25.6	*	1	2055	252	45.	258.3	23.4	*	2	1050	419	43.	207.7	21.5
1	0705	86	51.	310.9	25.5	*	1	2100	253	45.	258.0	23.4	*	2	1055	420	43.	207.4	21.5
1	0710	87	51.	310.6	25.5	*	1	2105	254	45.	257.6	23.4	*	2	1100	421	43.	207.1	21.4
1	0715	88	51.	310.2	25.5	*	1	2110	255	45.	257.3	23.4	*	2	1105	422	43.	206.8	21.4
1	0720	89	50.	309.9	25.5	*	1	2115	256	45.	257.0	23.4	*	2	1110	423	43.	206.5	21.4
1	0725	90	50.	309.5	25.5	*	1	2120	257	45.	256.7	23.4	*	2	1115	424	43.	206.2	21.4
1	0730	91	50.	309.2	25.5	*	1	2125	258	45.	256.4	23.4	*	2	1120	425	43.	205.9	21.4
1	0735	92	50.	308.9	25.5	*	1	2130	259	45.	256.1	23.4	*	2	1125	426	43.	205.6	21.4
1	0740	93	50.	308.5	25.4	*	1	2135	260	45.	255.8	23.4	*	2	1130	427	43.	205.3	21.4
1	0745	94	50.	308.2	25.4	*	1	2140	261	45.	255.5	23.3	*	2	1135	428	43.	205.0	21.4
1	0750	95	50.	307.8	25.4	*	1	2145	262	45.	255.2	23.3	*	2	1140	429	43.	204.7	21.4
1	0755	96	50.	307.5	25.4	*	1	2150	263	45.	254.9	23.3	*	2	1145	430	43.	204.4	21.3
1	0800	97	49.	307.1	25.4	*	1	2155	264	45.	254.6	23.3	*	2	1150	431	43.	204.1	21.3
1	0805	98	49.	306.8	25.4	*	1	2200	265	45.	254.3	23.3	*	2	1155	432	43.	203.8	21.3
1	0810	99	49.	306.5	25.4	*	1	2205	266	45.	254.0	23.3	*	2	1200	433	43.	203.5	21.3
1	0815	100	49.	306.1	25.3	*	1	2210	267	45.	253.6	23.3	*	2	1205	434	43.	203.2	21.3
1	0820	101	49.	305.8	25.3	*	1	2215	268	45.	253.3	23.3	*	2	1210	435	43.	202.9	21.3
1	0825	102	49.	305.5	25.3	*	1	2220	269	45.	253.0	23.2	*	2	1215	436	43.	202.7	21.3
1	0830	103	49.	305.1	25.3	*	1	2225	270	45.	252.7	23.2	*	2	1220	437	43.	202.4	21.3
1	0835	104	49.	304.8	25.3	*	1	2230	271	45.	252.4	23.2	*	2	1225	438	43.	202.1	21.3
1	0840	105	48.	304.4	25.3	*	1	2235	272	45.	252.1	23.2	*	2	1230	439	43.	201.8	21.2
1	0845	106	48.	304.1	25.3	*	1	2240	273	45.	251.8	23.2	*	2	1235	440	43.	201.5	21.2
1	0850	107	48.	303.8	25.2	*	1	2245	274	45.	251.5	23.2	*	2	1240	441	43.	201.2	21.2
1	0855	108	48.	303.5	25.2	*	1	2250	275	45.	251.2	23.2	*	2	1245	442	43.	200.9	21.2

rlee 06-30-04 10:03:41 F:\451-002\Drainage\fig\FIG-27.dwg gcw1117.dwg.020912.rin



STA 10+00.00
INV 2743.00 (WSPG CARD)
FLOW DIRECTION

GRAPHIC SCALE
40 0 20 40
(IN FEET)
1 inch = 40 ft.

NORTH

WESTERN SEGMENT OF THE LAS VEGAS BELTWAY

CRAIG ROAD TO HUALAPAI WAY

WSPG EXHIBIT - LOND1BS.WSP
LONE MOUNTAIN COLLECTOR

SHEET FIG 27 OF SHTS

G.C. WALLACE, INC.
Engineers/Planners/Surveyors
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146
TELEPHONE: (702) 804-2000 • FAX: (702) 804-2299

LOND1BS

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0
T1 WESTERN BELTWAY #451-002
T2 LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (SOUTH HALF STREET)
T3 96 CFS TOTAL - 48 CFS PER LEG - LOND1BS.WSP
SO    970.002699.85  2                          2700.38
TS   1000.002700.00  1      .025
R    1217.622748.50  1      .037
R    1417.622761.10  1      .013                          80.00
SH   1417.622761.10  1
CD   1  2              3.00   10.00
CD   2  1              2.00   32.00 3.00 3.00
```

0
Q 37.0

DATE: 6/30/2004
TIME: 7:33

F0515P
WATER SURFACE PROFILE - CHANNEL DEFINITION LISTING PAGE 1

CARD CODE	SECT NO	CHN TYPE	NO OF PIERS	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	1	2	0	0.00	3.00	10.00			0.00										
CD	2	1	0	0.00	2.00	32.00	3.00	3.00	0.00										

F 0 5 1 5 P PAGE NO 3

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

WESTERN BELTWAY #451-002

HEADING LINE NO 2 IS -

LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (SOUTH HALF STREET)

HEADING LINE NO 3 IS -

74 CFS TOTAL - 37 CFS PER LEG - LOND1BS.WSP

F 0 5 1 5 P PAGE NO 2

WATER SURFACE PROFILE - ELEMENT CARD LISTING

ELEMENT NO 1 IS A SYSTEM OUTLET * * *

U/S DATA STATION	INVERT	SECT	W S ELEV
970.00	2699.85	2	2700.38

ELEMENT NO 2 IS A TRANSITION * * *

U/S DATA STATION	INVERT	SECT	N
1000.00	2700.00	1	0.025

ELEMENT NO 3 IS A REACH * * *

U/S DATA STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
1217.62	2748.50	1	0.037	0.00	0.00	0.00	0

ELEMENT NO 4 IS A REACH * * *

U/S DATA STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
1417.62	2761.10	1	0.013	80.00	0.00	0.00	0

ELEMENT NO 5 IS A SYSTEM HEADWORKS * *

U/S DATA STATION	INVERT	SECT	W S ELEV
1417.62	2761.10	1	0.00

NO EDIT ERRORS ENCOUNTERED-COMPUTATION IS NOW BEGINNING
** WARNING NO. 2 ** - WATER SURFACE ELEVATION GIVEN IS LESS THAN OR EQUALS INVERT ELEVATION IN HDWKDS, W.S.ELEV = INV + DC
LICENSEE: G.C. WALLACE, INCORPORATED F0515P PAGE 1

WATER SURFACE PROFILE LISTING

WESTERN BELTWAY #451-002

LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (SOUTH HALF STREET)

74 CFS TOTAL - 37 CFS PER LEG - LOND1BS.WSP

STATION / L/ELEM	INVERT ELEV / SO	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD / SF AVE	ENERGY GRD.EL. / HF	SUPER ELEV	CRITICAL DEPTH / NORM DEPTH	HGT/ DIA	BASE/ ID NO.	ZL / ZR	NO PIER / AVBPR
970.00	2699.85	0.530	2700.380	37.0	2.08	0.067	2700.447	0.00	0.343	2.00	32.00	3.00	0
0.00													
TRANS STR	0.00500											3.00	
1000.00	2700.00	0.386	2700.386	37.0	9.59	1.427	2701.813	0.00	0.752	3.00	10.00	0.00	0
0.00													
202.61	0.22287					.223807	45.35		0.386			0.00	
1202.61	2745.15	0.386	2745.540	37.0	9.59	1.427	2746.967	0.00	0.752	3.00	10.00	0.00	0
0.00													
5.71	0.22287					.228913	1.31		0.386			0.00	
1208.32	2746.43	0.381	2746.809	37.0	9.72	1.467	2748.276	0.00	0.752	3.00	10.00	0.00	0
0.00													
4.20	0.22287					.253563	1.06		0.386			0.00	

1212.52	2747.36	0.363	2747.727	37.0	10.19	1.613	2749.340	0.00	0.752		3.00	10.00	0.00	0
0.00														
1.98	0.22287					.295944	0.59			0.386			0.00	
1214.50	2747.80	0.346	2748.151	37.0	10.69	1.775	2749.926	0.00	0.752		3.00	10.00	0.00	0
0.00														
1.32	0.22287					.345471	0.46			0.386			0.00	
1215.82	2748.10	0.330	2748.428	37.0	11.21	1.952	2750.380	0.00	0.752		3.00	10.00	0.00	0
0.00														
0.99	0.22287					.403361	0.40			0.386			0.00	
1216.81	2748.32	0.315	2748.635	37.0	11.76	2.148	2750.783	0.00	0.752		3.00	10.00	0.00	0
0.00														
0.81	0.22287					.471032	0.38			0.386			0.00	
1217.62	2748.50	0.300	2748.800	37.0	12.33	2.362	2751.162	0.59	0.752		3.00	10.00	0.00	0
0.00														
96.24	0.06300					.062650	6.03			0.300			0.00	
1313.86	2754.56	0.300	2754.863	37.0	12.33	2.362	2757.225	0.59	0.752		3.00	10.00	0.00	0
0.00														
33.90	0.06300					.061432	2.08			0.300			0.00	
1347.76	2756.70	0.304	2757.003	37.0	12.18	2.305	2759.308	0.58	0.752		3.00	10.00	0.00	0
0.00														
27.38	0.06300					.055888	1.53			0.300			0.00	

WATER SURFACE PROFILE LISTING

WESTERN BELTWAY #451-002

LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (SOUTH HALF STREET)

74 CFS TOTAL - 37 CFS PER LEG - LOND1BS.WSP

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH		HGT/ DIA	BASE/ ID NO.	ZL	NO PIER
AVBPR														
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR	
1375.14	2758.42	0.318	2758.741	37.0	11.62	2.096	2760.837	0.52	0.752		3.00	10.00	0.00	0
0.00														
11.55	0.06300					.047861	0.55			0.300			0.00	
1386.69	2759.15	0.334	2759.486	37.0	11.08	1.906	2761.392	0.48	0.752		3.00	10.00	0.00	0
0.00														
7.13	0.06300					.040994	0.29			0.300			0.00	
1393.82	2759.60	0.350	2759.951	37.0	10.56	1.732	2761.683	0.43	0.752		3.00	10.00	0.00	0
0.00														
5.04	0.06300					.035118	0.18			0.300			0.00	
1398.86	2759.92	0.367	2760.285	37.0	10.07	1.575	2761.860	0.39	0.752		3.00	10.00	0.00	0
0.00														
3.80	0.06300					.030090	0.11			0.300			0.00	
1402.66	2760.16	0.385	2760.542	37.0	9.60	1.431	2761.973	0.36	0.752		3.00	10.00	0.00	0
0.00														
2.99	0.06300					.025788	0.08			0.300			0.00	
1405.65	2760.35	0.404	2760.750	37.0	9.15	1.301	2762.051	0.33	0.752		3.00	10.00	0.00	0
0.00														
2.41	0.06300					.022105	0.05			0.300			0.00	
1408.06	2760.50	0.424	2760.922	37.0	8.73	1.183	2762.105	0.30	0.752		3.00	10.00	0.00	0
0.00														
1.97	0.06300					.018952	0.04			0.300			0.00	

1410.03	2760.62	0.445	2761.067	37.0	8.32	1.075	2762.142	0.27	0.752		3.00	10.00	0.00	0
0.00														
1.63	0.06300					.016252	0.03			0.300			0.00	
1411.66	2760.72	0.466	2761.190	37.0	7.93	0.978	2762.168	0.24	0.752		3.00	10.00	0.00	0
0.00														
1.35	0.06300					.013940	0.02			0.300			0.00	
1413.01	2760.81	0.489	2761.298	37.0	7.56	0.889	2762.187	0.22	0.752		3.00	10.00	0.00	0
0.00														
1.11	0.06300					.011960	0.01			0.300			0.00	
1414.12	2760.88	0.513	2761.393	37.0	7.21	0.808	2762.201	0.20	0.752		3.00	10.00	0.00	0
0.00														
0.92	0.06300					.010264	0.01			0.300			0.00	

WATER SURFACE PROFILE LISTING

WESTERN BELTWAY #451-002

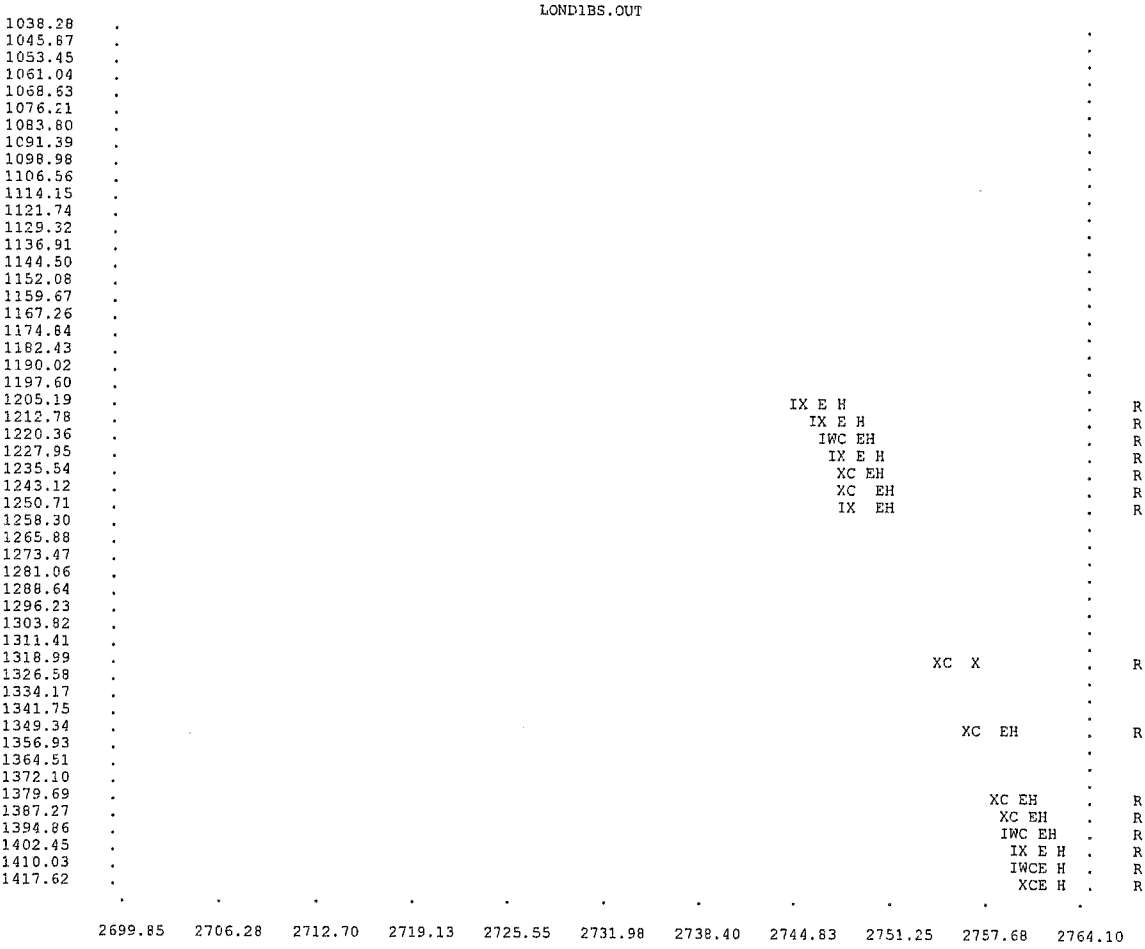
LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (SOUTH HALF STREET)

74 CFS TOTAL - 37 CFS PER LEG - LOND1BS.WSP

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH		HGT/ DIA	BASE/ ID NO.	ZL	NO PIER
AVBPR														
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR	
1415.04	2760.94	0.538	2761.475	37.0	6.88	0.734	2762.209	0.18	0.752		3.00	10.00	0.00	0
0.00														
0.75	0.06300					.008810	0.01			0.300			0.00	
1415.79	2760.99	0.564	2761.549	37.0	6.56	0.668	2762.217	0.17	0.752		3.00	10.00	0.00	0
0.00														
0.60	0.06300					.007565	0.00			0.300			0.00	
1416.39	2761.02	0.592	2761.614	37.0	6.25	0.607	2762.221	0.15	0.752		3.00	10.00	0.00	0
0.00														
0.46	0.06300					.006497	0.00			0.300			0.00	
1416.85	2761.05	0.621	2761.673	37.0	5.96	0.552	2762.225	0.14	0.752		3.00	10.00	0.00	0
0.00														
0.35	0.06300					.005582	0.00			0.300			0.00	
1417.20	2761.07	0.651	2761.724	37.0	5.68	0.502	2762.226	0.13	0.752		3.00	10.00	0.00	0
0.00														
0.24	0.06300					.004797	0.00			0.300			0.00	
1417.44	2761.09	0.683	2761.771	37.0	5.42	0.456	2762.227	0.11	0.752		3.00	10.00	0.00	0
0.00														
0.13	0.06300					.004124	0.00			0.300			0.00	
1417.57	2761.10	0.716	2761.813	37.0	5.17	0.415	2762.228	0.10	0.752		3.00	10.00	0.00	0
0.00														
0.05	0.06300					.003540	0.00			0.300			0.00	
1417.62	2761.10	0.752	2761.852	37.0	4.92	0.376	2762.228	0.09	0.752		3.00	10.00	0.00	0
0.00														

WESTERN BELTWAY #451-002
LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (SOUTH HALF STREET)
74 CFS TOTAL - 37 CFS PER LEG - LOND1BS.WSP

```
970.00    .X  H                                                          TX
977.59    .                                                               .
985.17    .                                                               .
992.76    .                                                               .
1000.35   .XC EH                                                          R
1007.93   .                                                               .
1015.52   .                                                               .
1023.11   .                                                               .
1030.69   .                                                               .
```



N O T E S
1. GLOSSARY
   I = INVERT ELEVATION
   C = CRITICAL DEPTH
   W = WATER SURFACE ELEVATION
   H = HEIGHT OF CHANNEL
   E = ENERGY GRADE LINE
   X = CURVES CROSSING OVER
   B = BRIDGE ENTRANCE OR EXIT
   Y = WALL ENTRANCE OR EXIT
2. STATIONS FOR POINTS AT A JUMP MAY NOT BE PLOTTED EXACTLY□

WESTERN SEGMENT OF THE LAS VEGAS BELTWAY
CRAIG ROAD TO HUALAPAI WAY
FACILITIES COST ESTIMATE ALTERNATIVE 1

FACILITY #	SHEET #	FACILITY DESCRIPTION	QUANTITY	UNIT	COST	TOTAL
2A	SD-1	(2) 110' DEPRESSED CURB	220	LF	$265.00	$58,300.00
2B	SD-1	6'X4' RCB	205	LF	$180.00	$36,900.00
2C	SD-1	6'X4' RCB TRANSITION TO 20'X4' RCB	1	LS	$1,950.00	$1,950.00
2D	SD-1	20'X4' RCB	20	LF	$800.00	$16,000.00
2E	SD-1	20' WIDE CONCRETE CHANNEL	15	CY	$70.00	$1,037.04
2F	SD-1	20' TRANSITION TO 10' STEPPED SPILLWAY	14	CY	$70.00	$969.63
2G	SD-1	10' WIDE STEPPED SPILLWAY	148	CY	$70.00	$10,344.45
2H	SD-1	IMPACT BASIN/DROP STRUCTURE	1	LS	$48,000.00	$48,000.00
2I	SD-1	66" RCP STORM DRAIN	481	LF	$160.00	$76,960.00
2J	SD-1	12'X4' RCB	38	LF	$650.00	$24,700.00
						$275,161.11
8A	SD-2, 3	40' DEPRESSED CURB	40	LF	$150.00	$6,000.00
8C	SD-2, 3	3' GRATED INLET	1	LS	$2,500.00	$2,500.00
8E	SD-2, 3	10' WIDE FLUME	120	LF	$120.00	$14,400.00
8F	SD-2	10' FLUME WITH GROUTED RIP RAP	160	LF	$120.00	$19,200.00
8G	SD-2	CONCRETE PAD	225	LF	$7.50	$1,687.50
						$43,787.50
9A	SD-2, 3	40' DEPRESSED CURB	40	LF	$150.00	$6,000.00
9C	SD-2, 3	3' GRATED INLET	1	LS	$2,500.00	$2,500.00
9E	SD-2, 3	10' WIDE FLUME	200	LF	$120.00	$24,000.00
9F	SD-2, 3	10' FLUME WITH GROUTED RIP RAP	200	LF	$120.00	$24,000.00
9G	SD-2, 3	CONCRETE PAD	225	LF	$7.50	$1,687.50
						$58,187.50
					TOTAL	**$377,136.11**

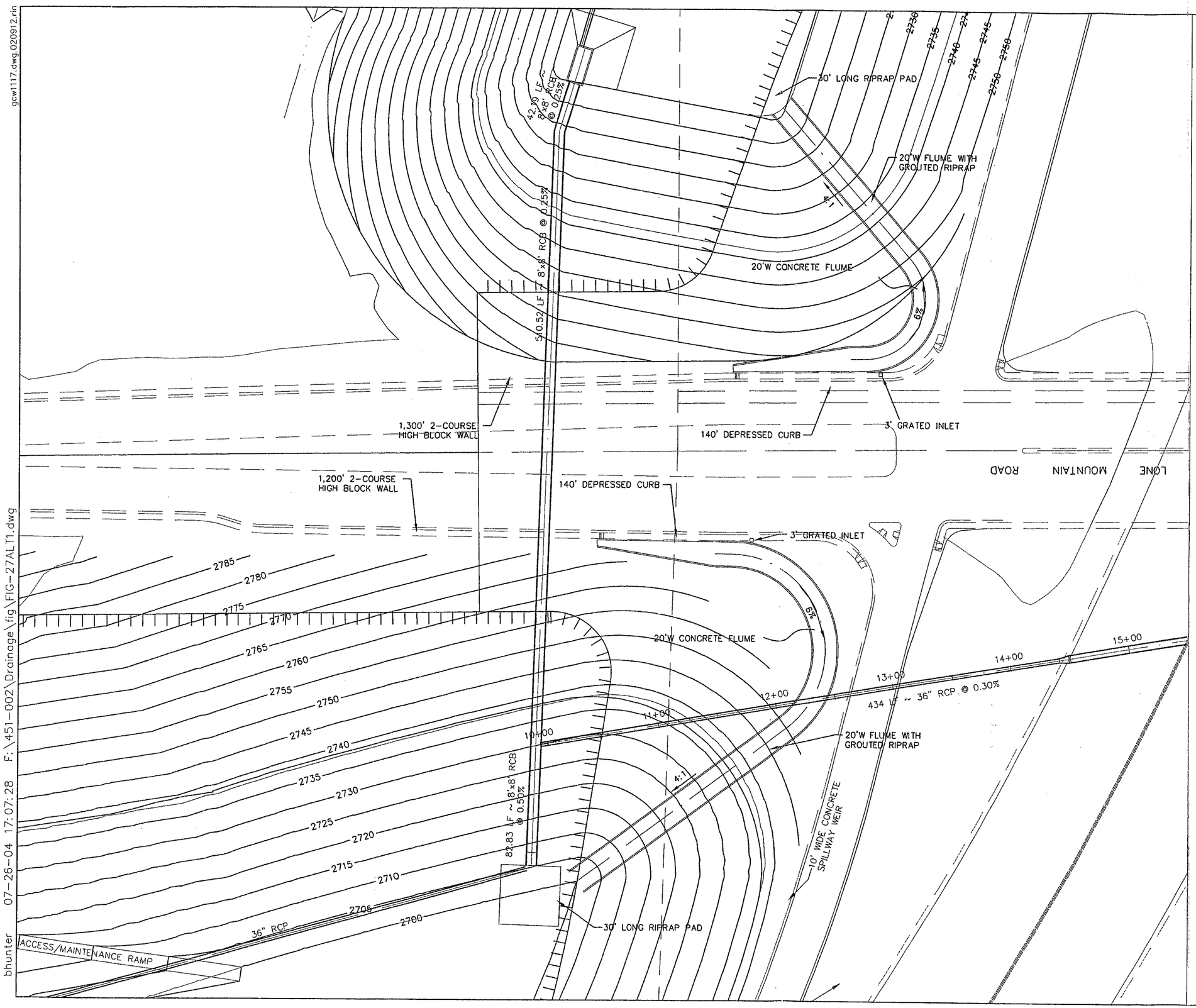
Storm Drain Facilities Option 2

Lone Mountain Hydraulic files:
Option 2

LONU2A.prj	Upstream Collector – Side weir calculations – 150' side weir Design incoming flow = 224 cfs per half street. Intercepted flow = 215 cfs per half street Bypassing flow = 9 cfs per half street Note: side weir collectors and downstream facilities conservatively assume no bypassing and 224 cfs is collected in side weir.
LONU2B.WSP	Upstream Collector – Lone Mountain 6'x4' RCB side weir collectors to spillway. Design flow = 564 cfs (215 cfs side weir + 215 cfs side weir + 134 cfs storm drain = 564 cfs)
LONU2D.WSP	Upstream Collector – 72" RCP and 12'x 4' RCB with baffles Design flow = 564 cfs

gcw1117.dwg.020912.rin

bhunter 07-26-04 17:07:28 F:\451-002\Drainage\fig\FIG-27ALT1.dwg



NORTH

GRAPHIC SCALE

80 0 40 80

(IN FEET)

1 inch = 80 ft.

LEGEND

STA 10+00.00
INV 2743.00 (WSPG CARD)

FLOW DIRECTION

G.C. WALLACE, INC.
Engineers/Planners/Surveyors
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146
TELEPHONE: (702) 804-2000 • FAX: (702) 804-2299

WESTERN SEGMENT OF THE LAS VEGAS BELTWAY

CRAIG ROAD TO HUALAPAI WAY

DRAINAGE
LONE MOUNTAIN COLLECTOR - ALT 3

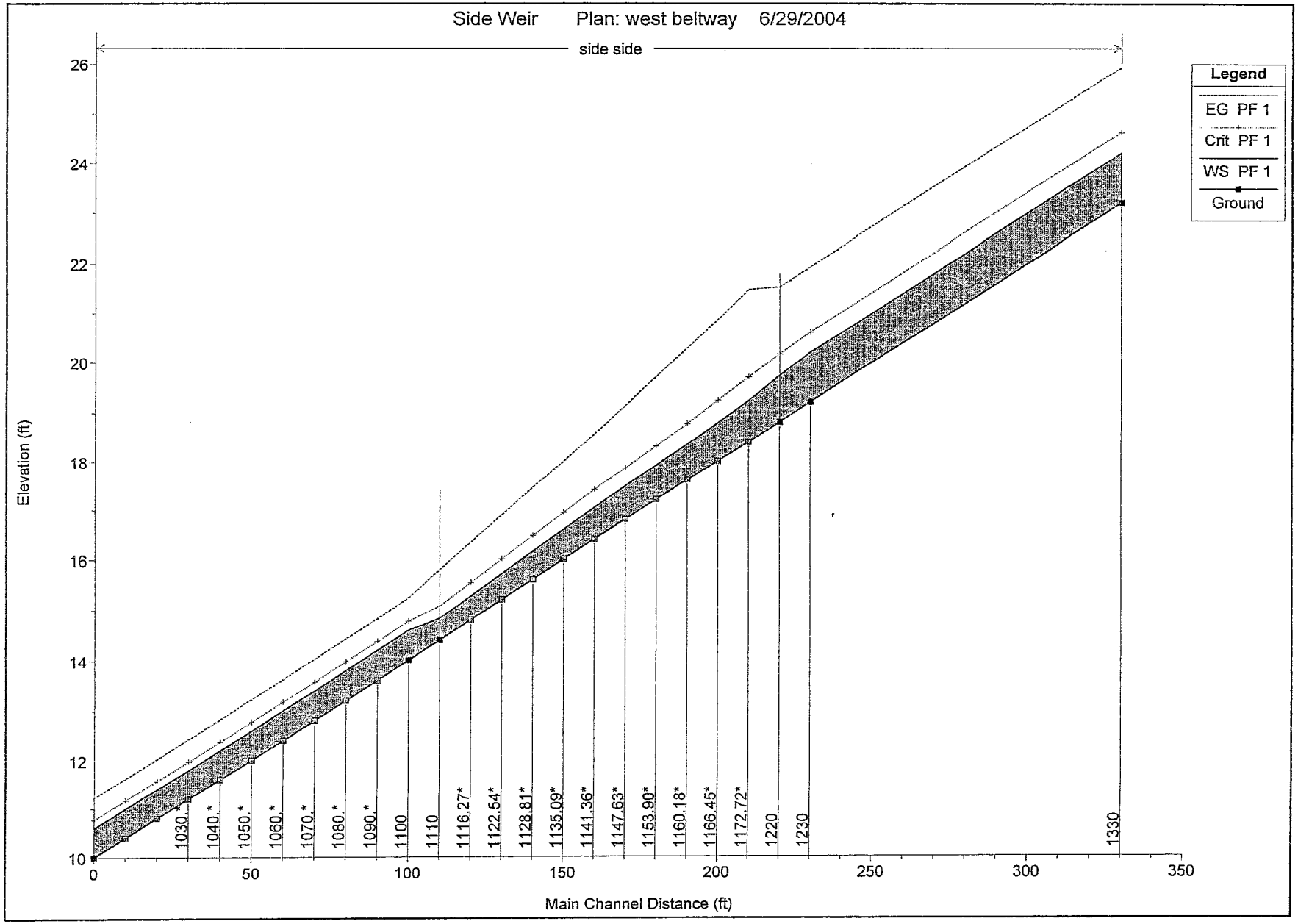
SHEET
FIG A3
OF SHTS

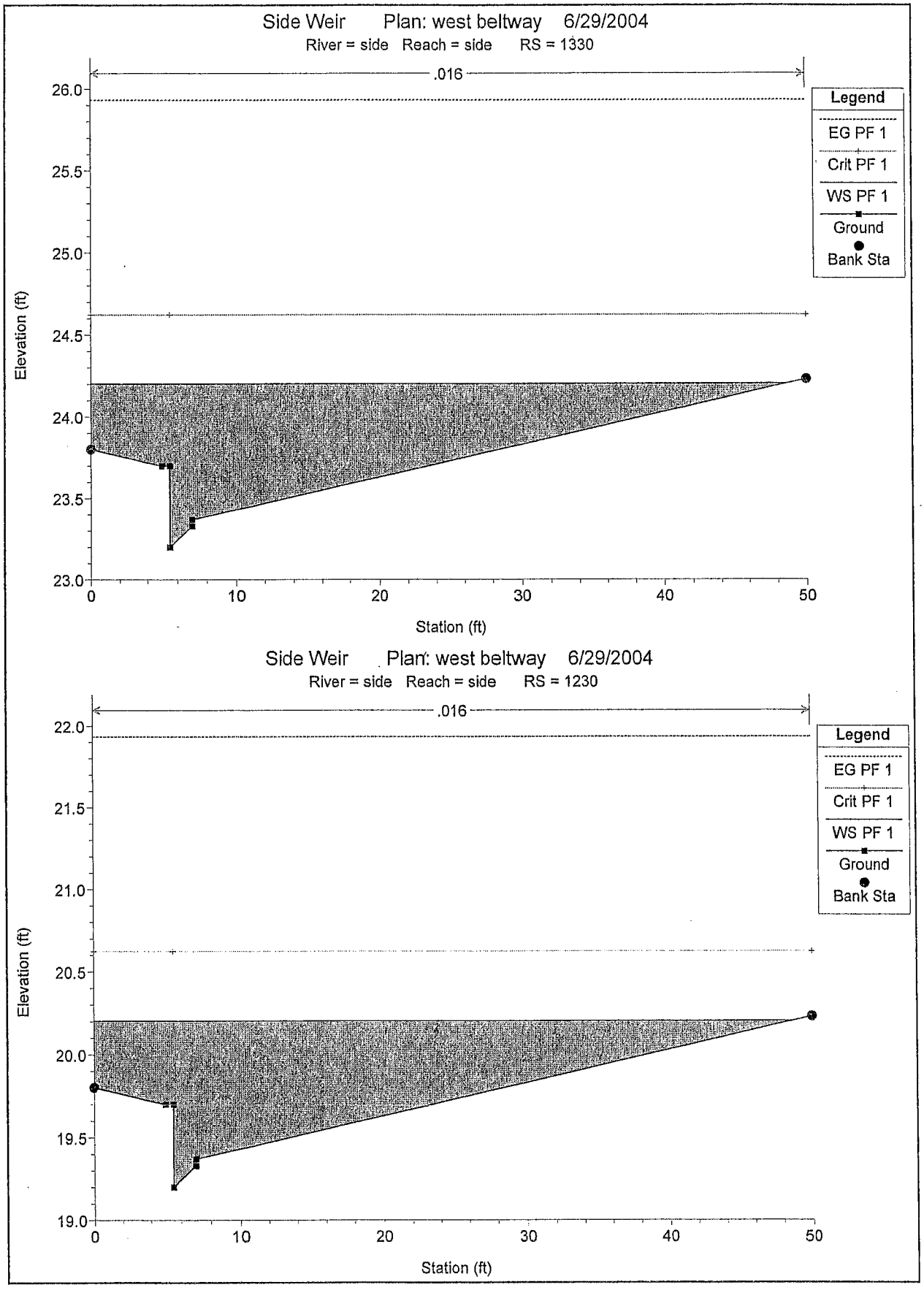
LONJIA

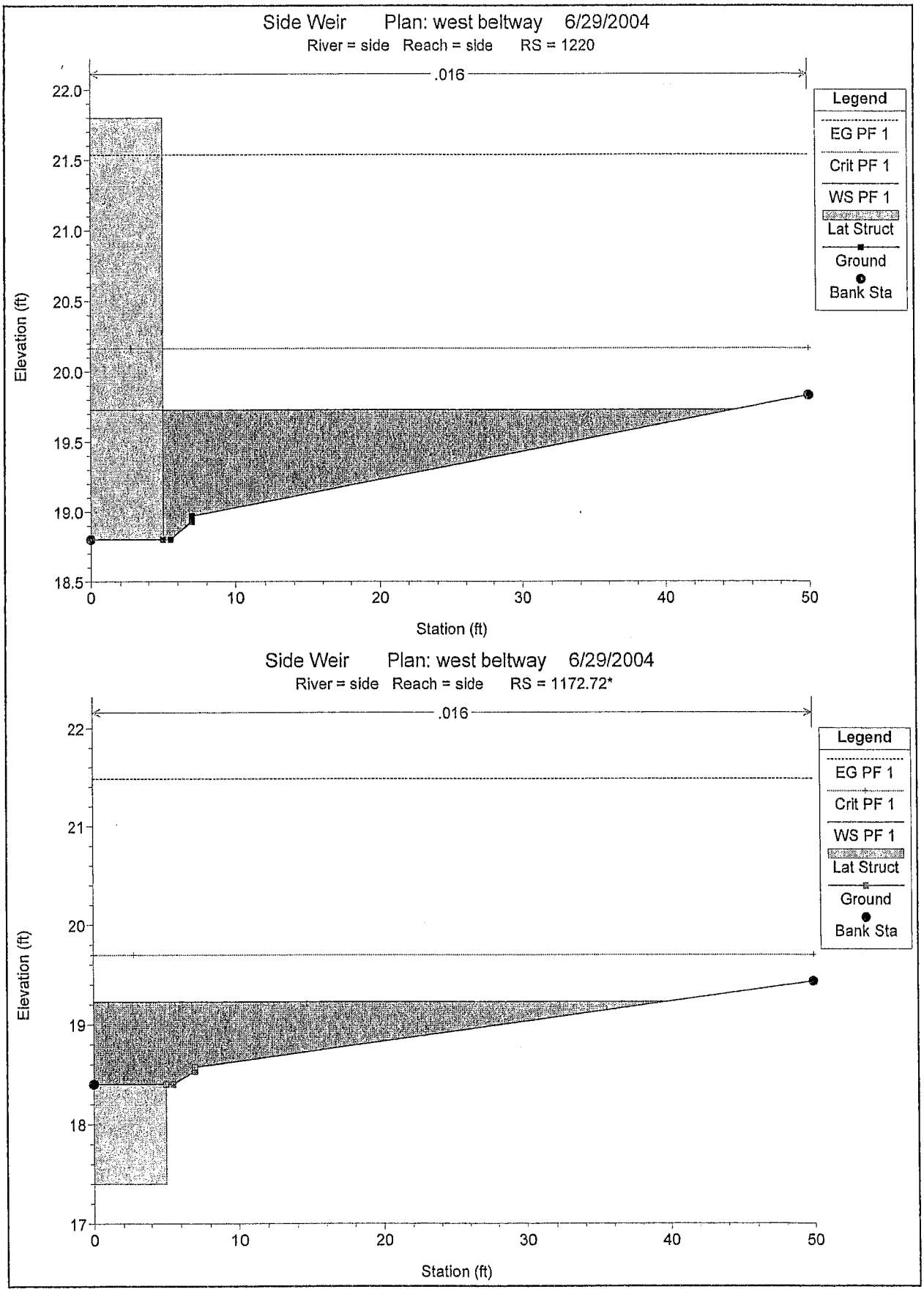
110' SIDE WEIR

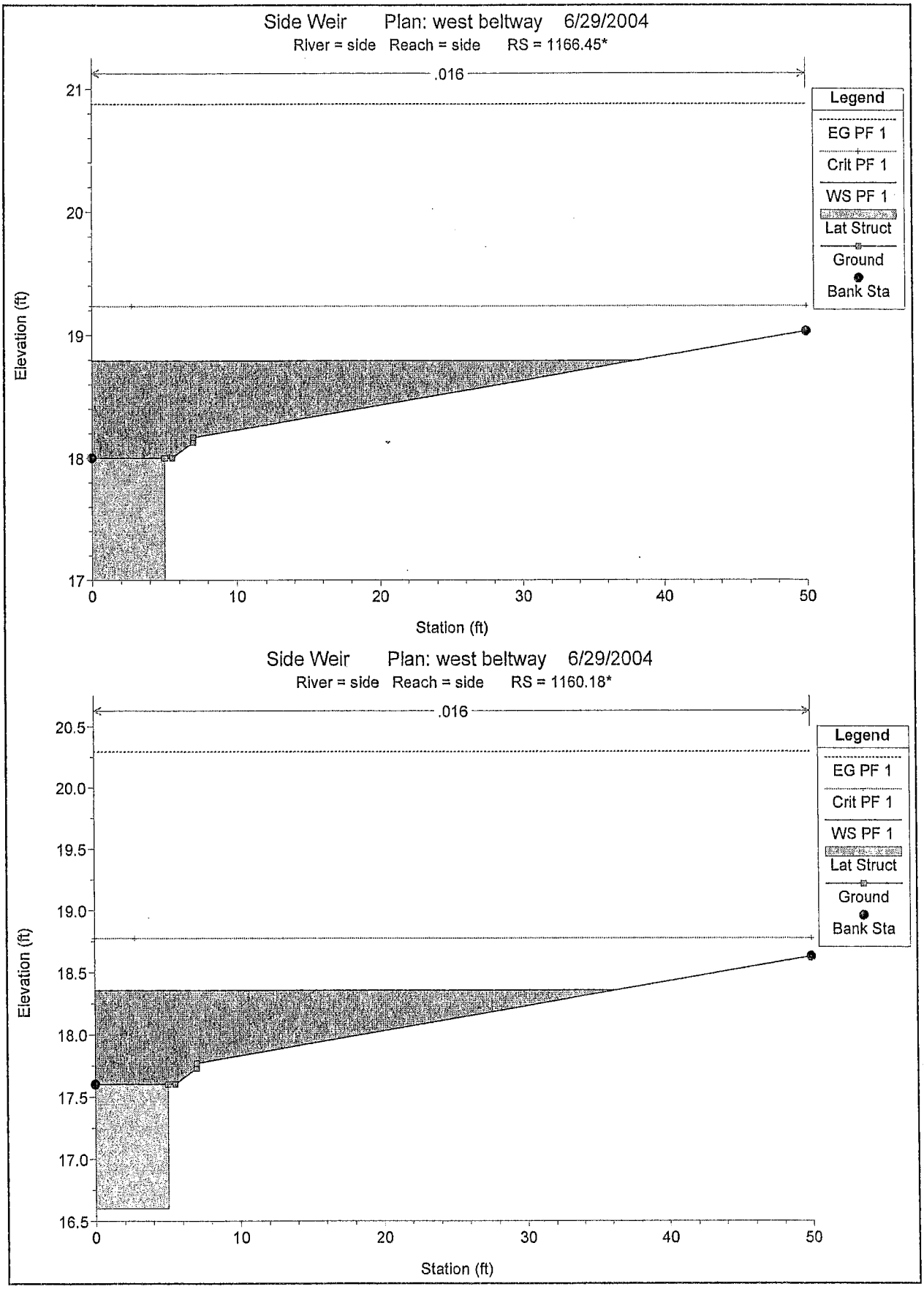
HEC-RAS Plan: west beltway River: side Reach: side Profile: PF 1

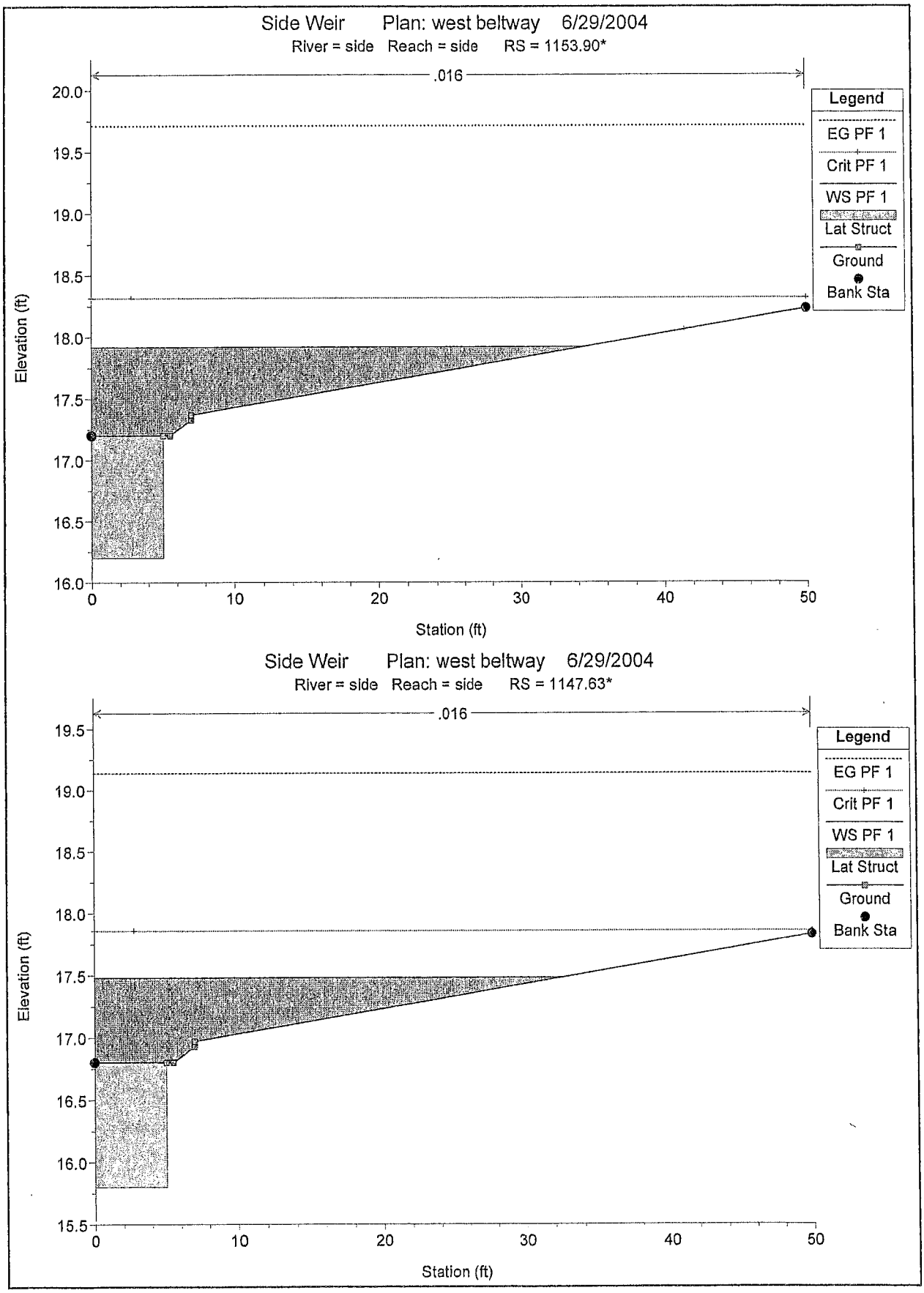
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
side	1330	PF 1	224.00	23.20	24.20	24.62	25.93	0.040027	10.56	21.22	48.60	2.82
side	1230	PF 1	224.00	19.20	20.20	20.62	21.93	0.040059	10.56	21.21	48.59	2.82
side	1220	PF 1	224.00	18.80	19.73	20.16	21.54	0.038880	10.79	20.76	44.89	2.80
side	1179		Lat Struct									
side	1172.72*	PF 1	198.13	18.40	19.23	19.70	21.48	0.056410	12.06	16.43	39.79	3.31
side	1166.45*	PF 1	175.24	18.00	18.79	19.23	20.88	0.054964	11.59	15.12	38.11	3.24
side	1160.18*	PF 1	153.84	17.60	18.36	18.77	20.29	0.054246	11.17	13.77	36.29	3.20
side	1153.90*	PF 1	133.96	17.20	17.92	18.32	19.71	0.053424	10.74	12.47	34.45	3.15
side	1147.63*	PF 1	115.59	16.80	17.48	17.86	19.14	0.052897	10.33	11.19	32.54	3.10
side	1141.36*	PF 1	98.74	16.40	17.04	17.41	18.57	0.052509	9.92	9.95	30.58	3.06
side	1135.09*	PF 1	83.42	16.00	16.60	16.94	18.01	0.052424	9.53	8.76	28.56	3.03
side	1128.81*	PF 1	69.62	15.60	16.16	16.48	17.45	0.052347	9.12	7.63	26.51	3.00
side	1122.54*	PF 1	57.29	15.20	15.72	16.01	16.90	0.052288	8.72	6.57	24.44	2.96
side	1116.27*	PF 1	46.40	14.80	15.28	15.54	16.35	0.052267	8.30	5.59	22.33	2.92
side	1110	PF 1	36.92	14.40	14.83	15.08	15.80	0.052320	7.89	4.68	20.19	2.89
side	1100	PF 1	36.92	14.00	14.60	14.78	15.24	0.041577	6.42	5.75	28.54	2.52
side	1090.*	PF 1	36.92	13.60	14.20	14.38	14.83	0.040345	6.36	5.81	28.65	2.49
side	1080.*	PF 1	36.92	13.20	13.80	13.98	14.43	0.040345	6.36	5.81	28.65	2.49
side	1070.*	PF 1	36.92	12.80	13.40	13.58	14.03	0.040345	6.36	5.81	28.65	2.49
side	1060.*	PF 1	36.92	12.40	13.00	13.18	13.63	0.040345	6.36	5.81	28.65	2.49
side	1050.*	PF 1	36.92	12.00	12.60	12.78	13.23	0.040345	6.36	5.81	28.65	2.49
side	1040.*	PF 1	36.92	11.60	12.20	12.38	12.83	0.040345	6.36	5.81	28.65	2.49
side	1030.*	PF 1	36.92	11.20	11.80	11.98	12.43	0.040345	6.36	5.81	28.65	2.49
side	1020.*	PF 1	36.92	10.80	11.40	11.58	12.03	0.040345	6.36	5.81	28.65	2.49
side	1010.*	PF 1	36.92	10.40	11.00	11.18	11.63	0.040345	6.36	5.81	28.65	2.49
side	1000	PF 1	36.92	10.00	10.60	10.78	11.23	0.040345	6.36	5.81	28.65	2.49

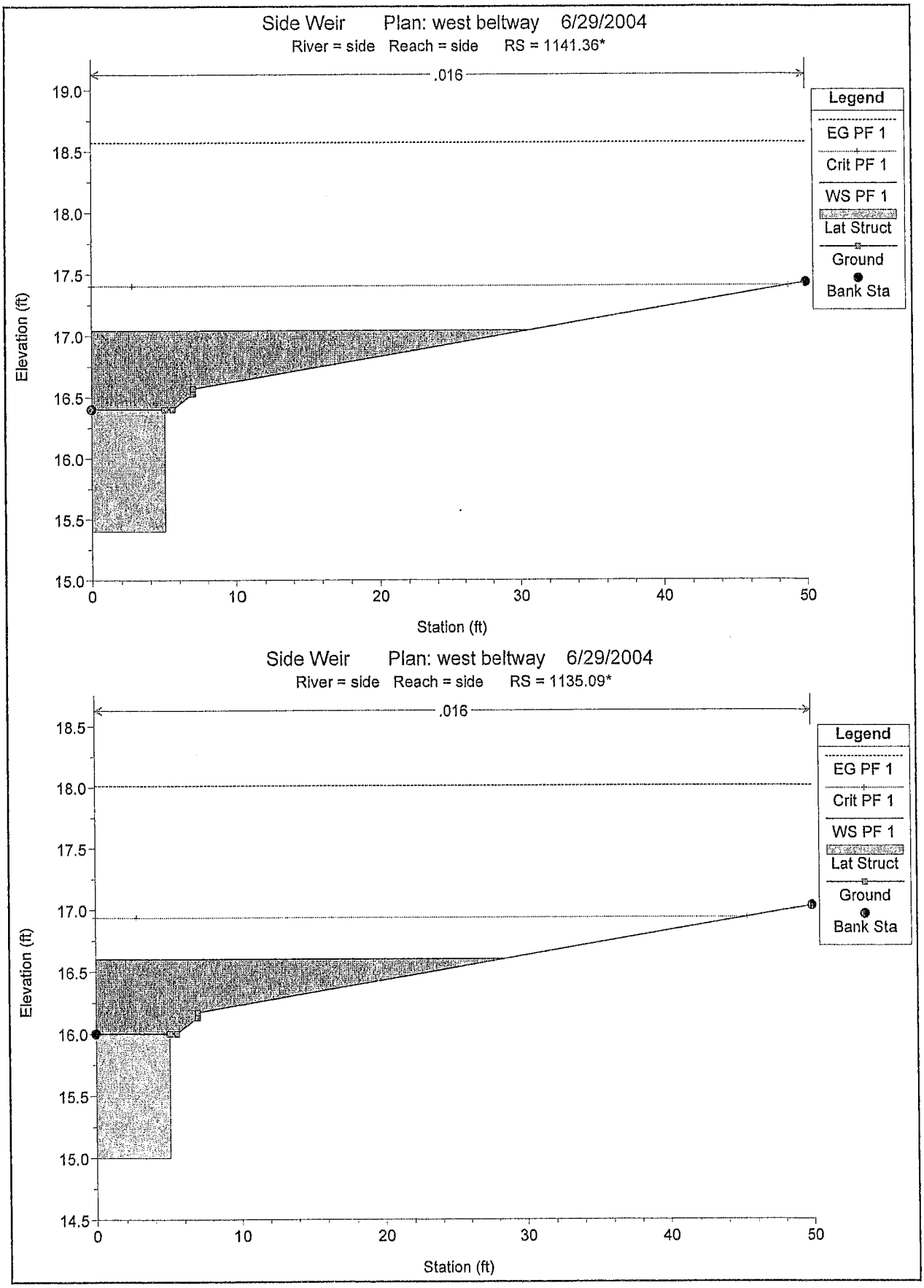

Side Weir Plan: west beltway 6/29/2004
side side
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Elevation (ft)
Main Channel Distance (ft)
26
24
22
20
18
16
14
12
10
0
50
100
150
200
250
300
350
1030*
1040*
1050*
1060*
1070*
1080*
1090*
1100
1110
1116.27*
1122.54*
1128.81*
1135.09*
1141.36*
1147.63*
1153.90*
1160.18*
1166.45*
1172.72*
1220
1230
1330

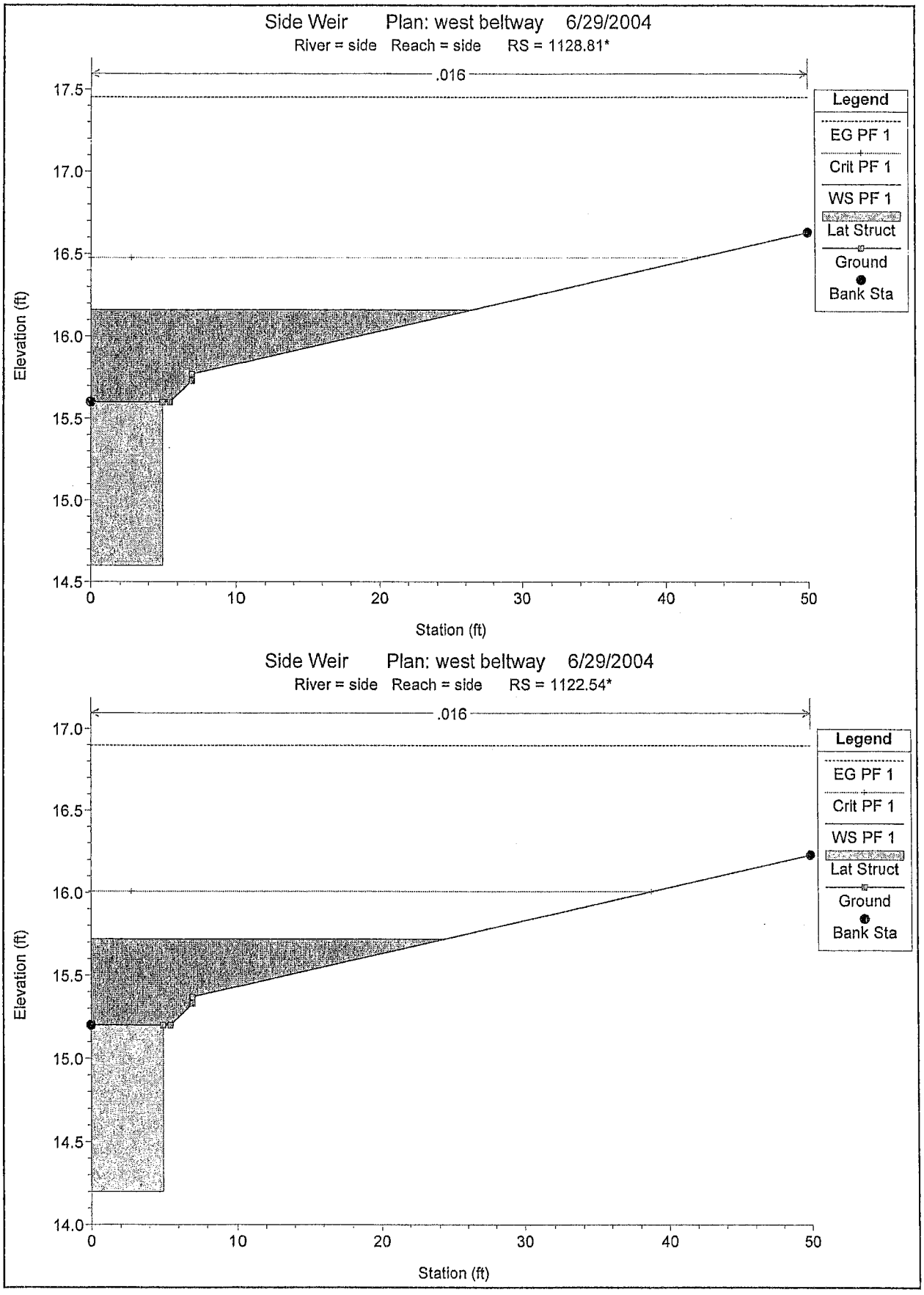

Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1330
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1230
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

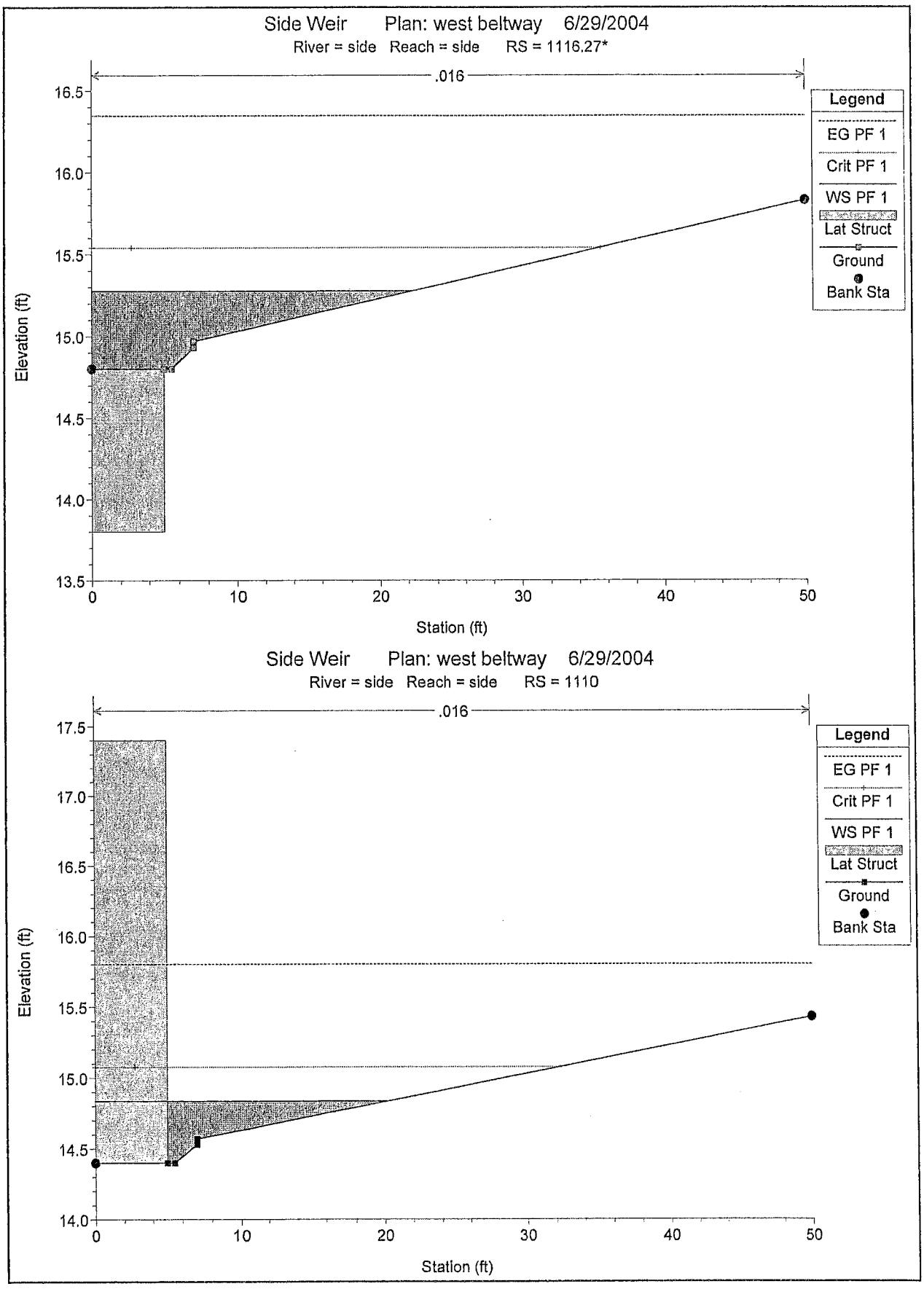

Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1220
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
22.0
21.5
21.0
20.5
20.0
19.5
19.0
18.5
0
10
20
30
40
50
Station (ft)
Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1172.72*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
22
21
20
19
18
17
0
10
20
30
40
50
Station (ft)

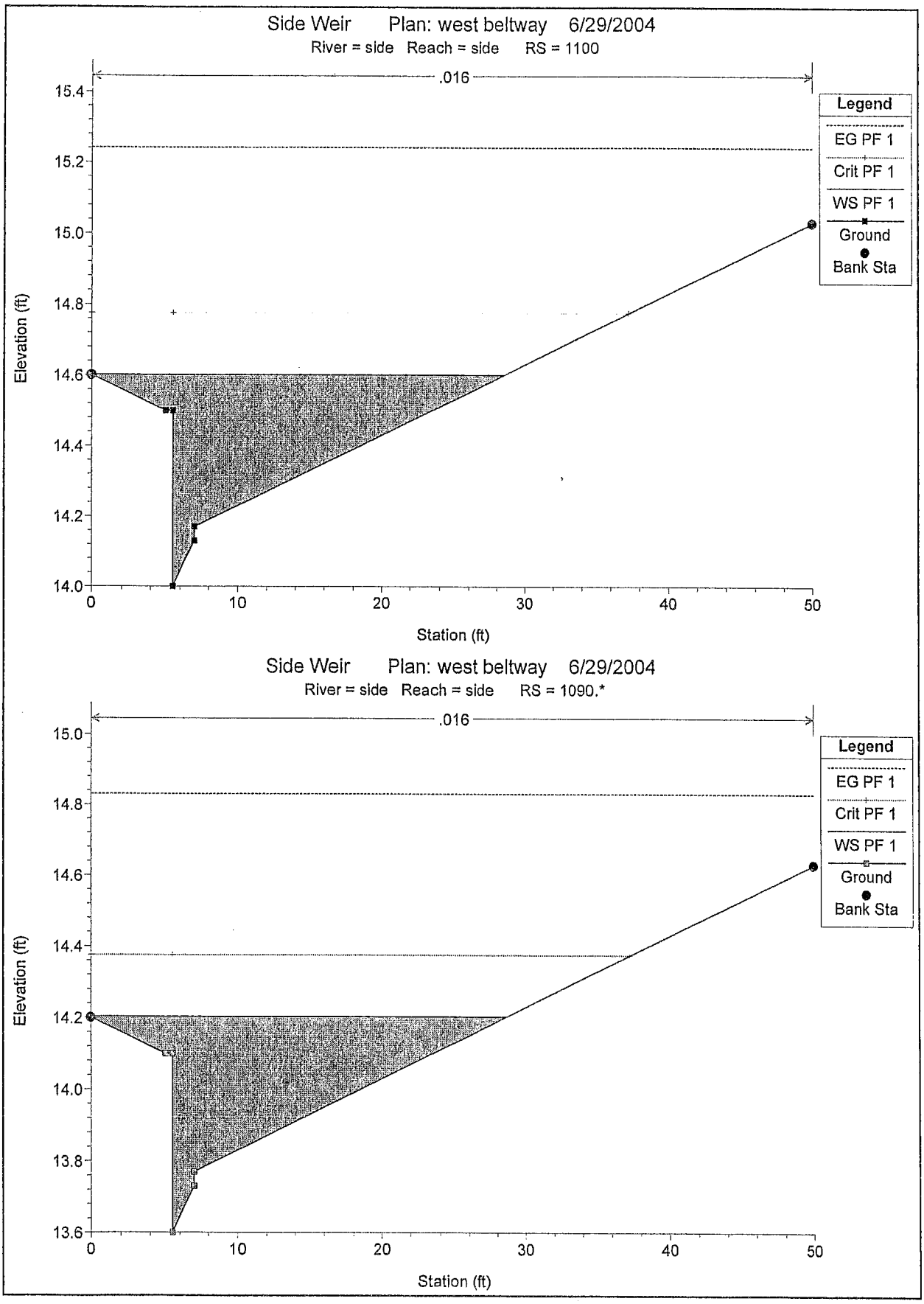

Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1166.45*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1160.18*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)

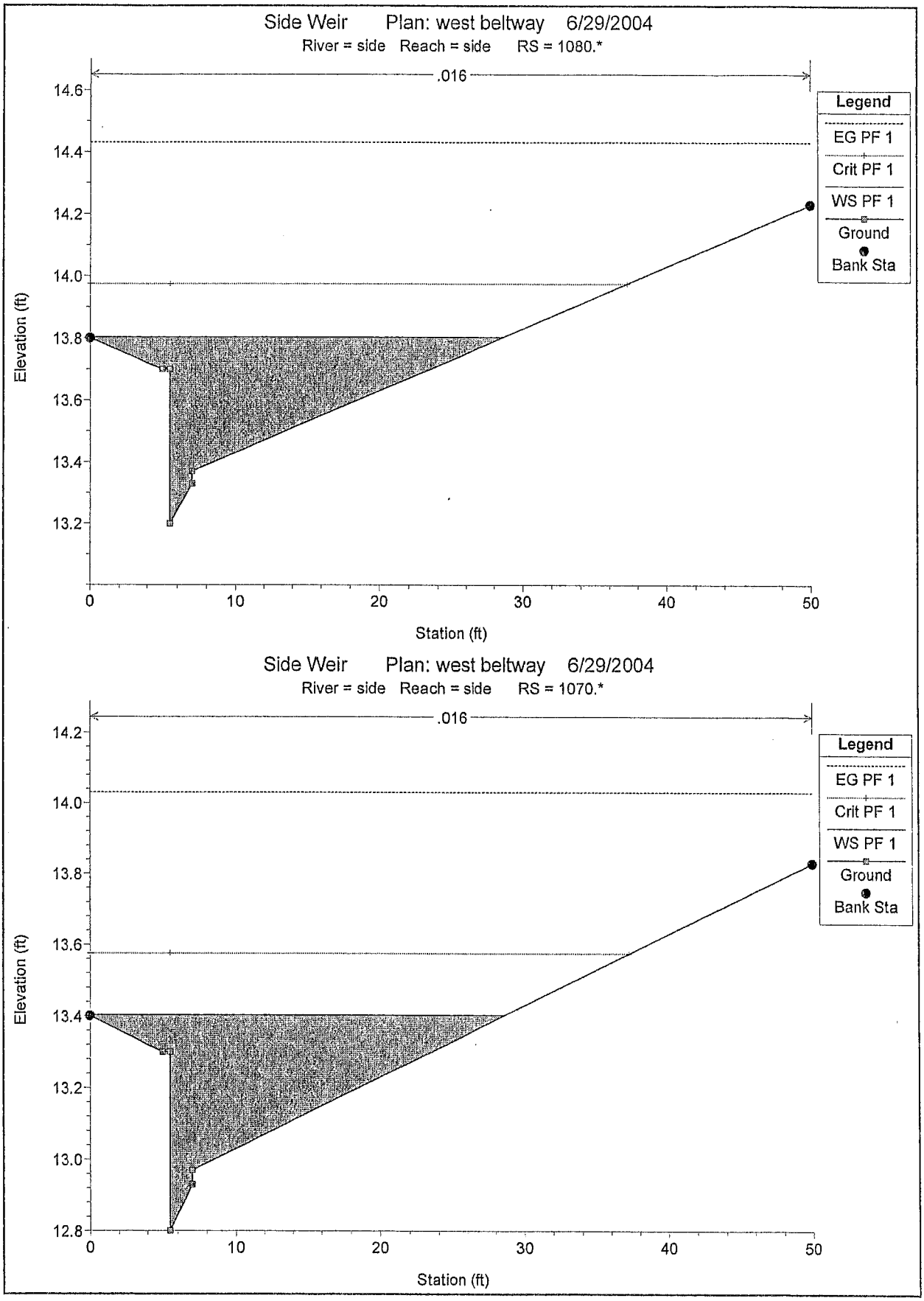

Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1153.90*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1147.63*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)

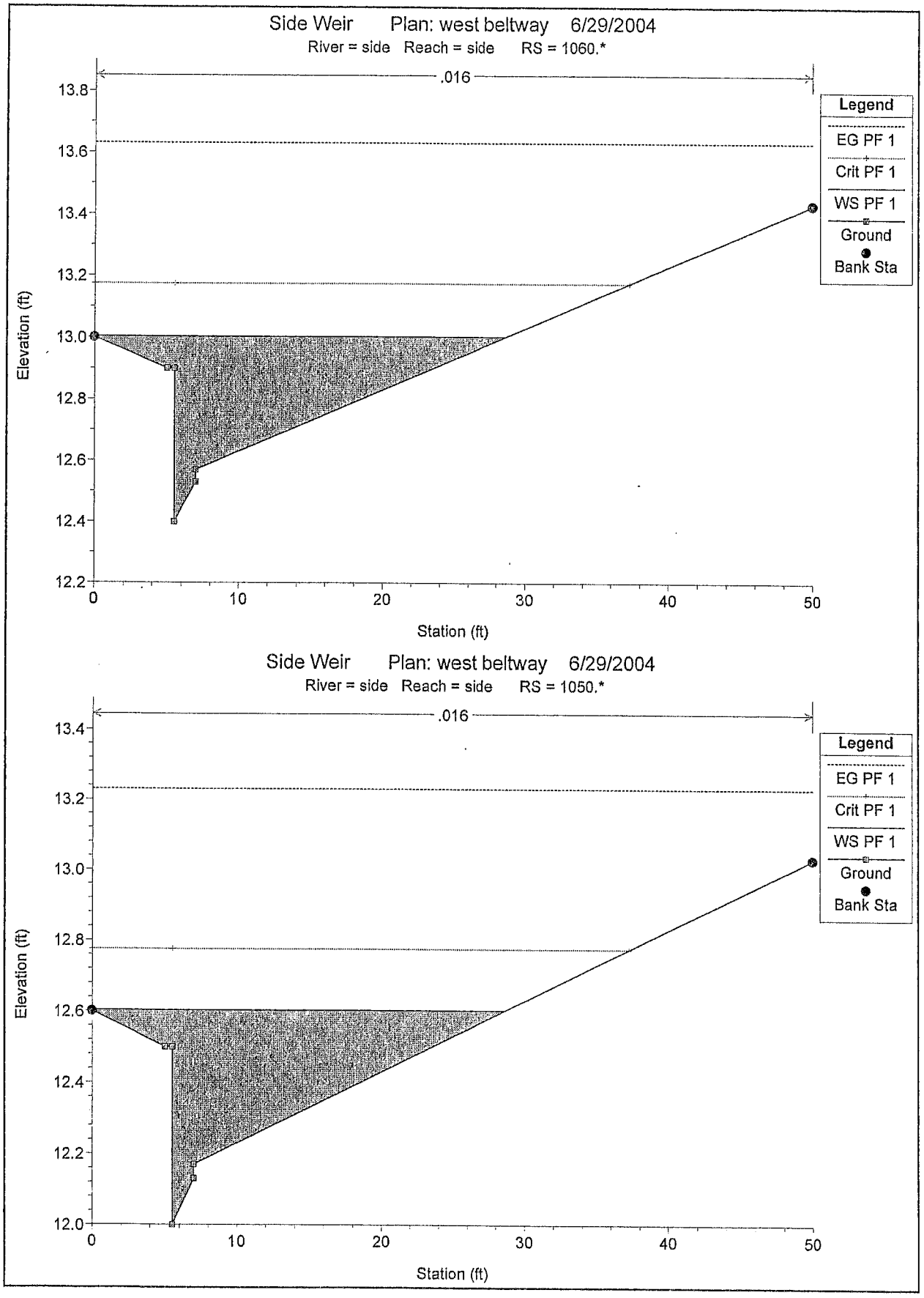

Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1141.36*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1135.09*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)

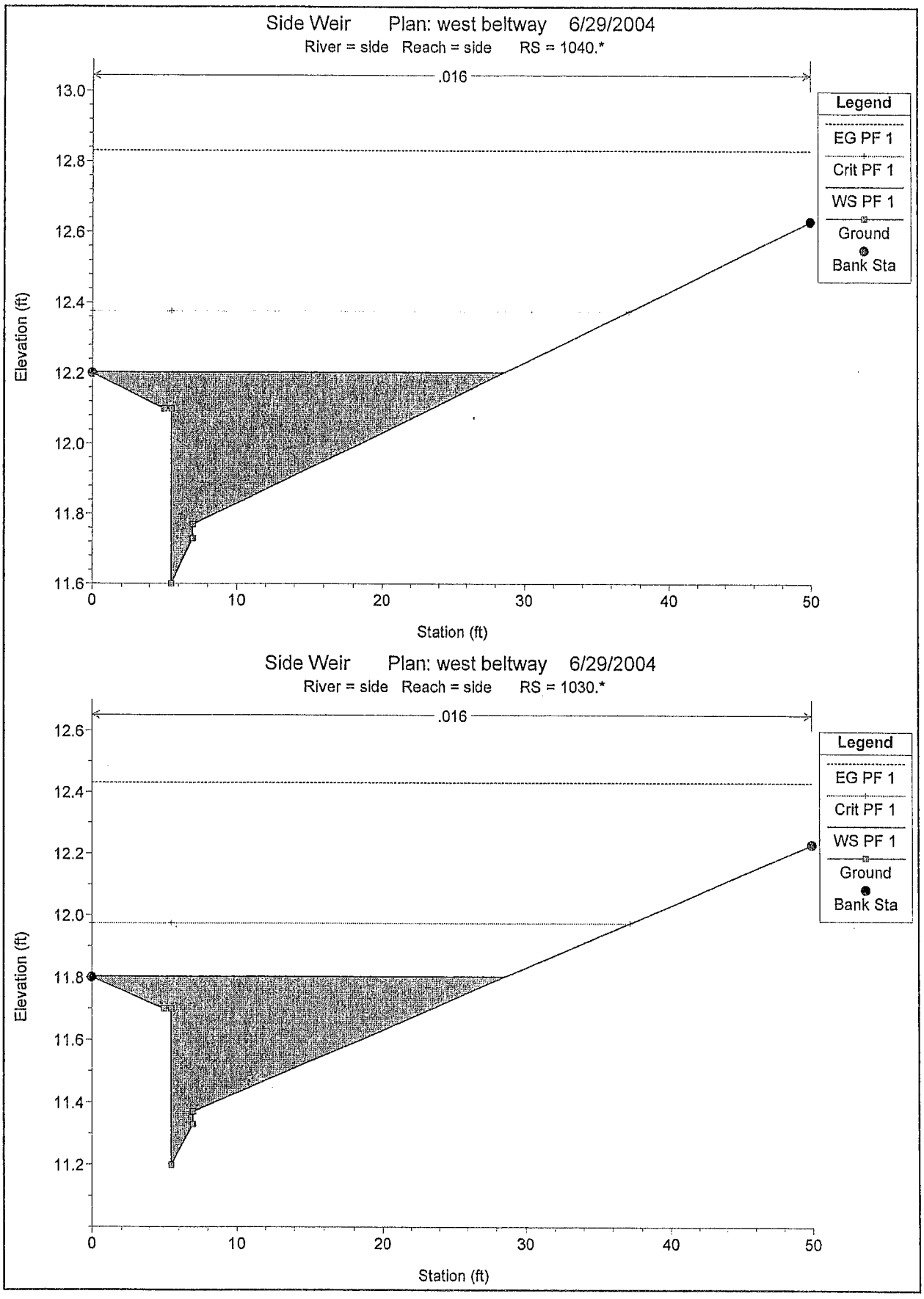

Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1128.81*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1122.54*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)

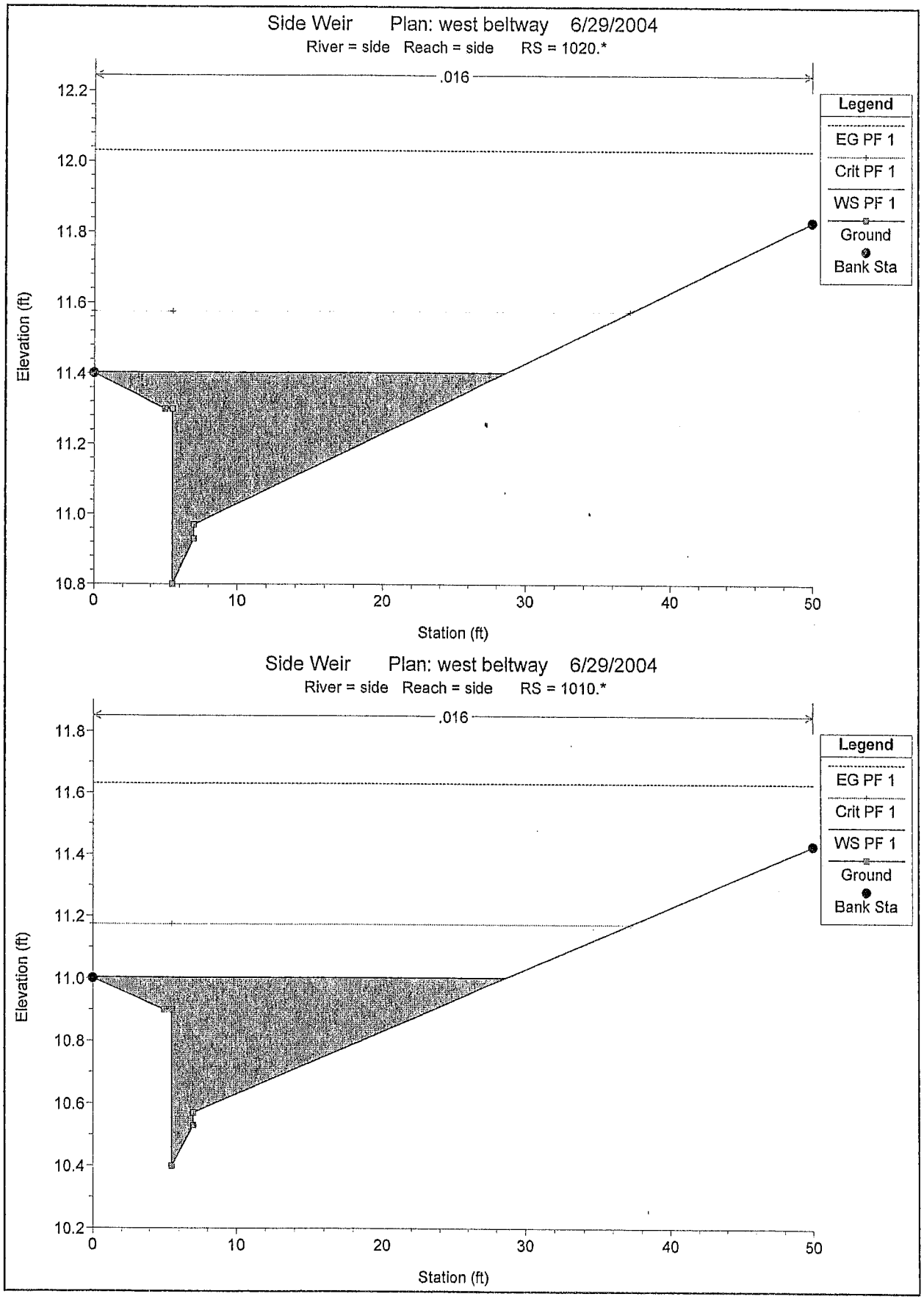

Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1116.27*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1110
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Lat Struct
Ground
Bank Sta
Elevation (ft)
Station (ft)

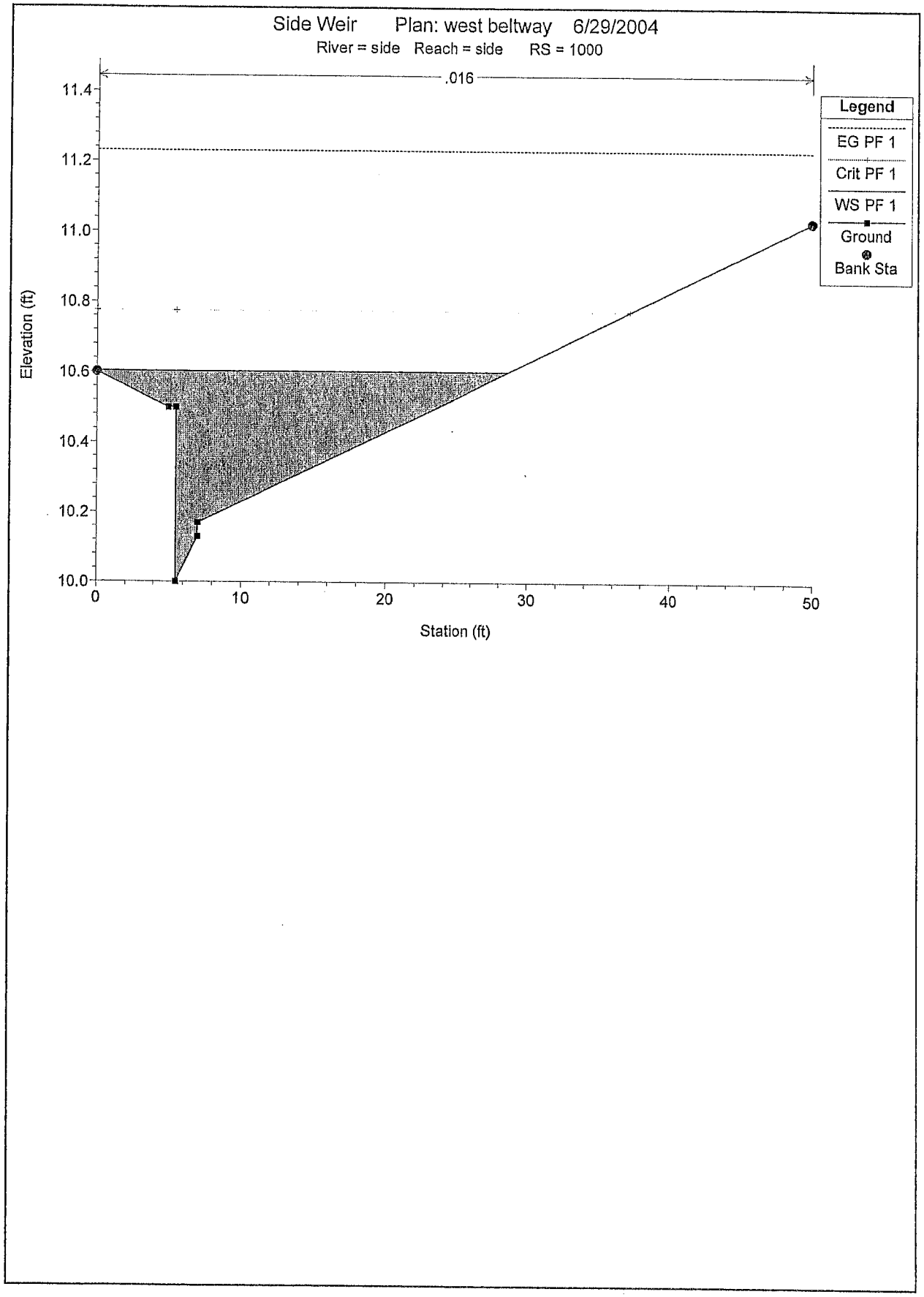

Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1100
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
15.4
15.2
15.0
14.8
14.6
14.4
14.2
14.0
0
10
20
30
40
50
Station (ft)
Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1090.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
15.0
14.8
14.6
14.4
14.2
14.0
13.8
13.6
0
10
20
30
40
50
Station (ft)


Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1080.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
14.6
14.4
14.2
14.0
13.8
13.6
13.4
13.2
0
10
20
30
40
50
Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1070.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
14.2
14.0
13.8
13.6
13.4
13.2
13.0
12.8
0
10
20
30
40
50


Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1060.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1050.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1040.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
13.0
12.8
12.6
12.4
12.2
12.0
11.8
11.6
0
10
20
30
40
50
Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1030.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
12.6
12.4
12.2
12.0
11.8
11.6
11.4
11.2
0
10
20
30
40
50


Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1020.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
12.2
12.0
11.8
11.6
11.4
11.2
11.0
10.8
0
10
20
30
40
50
Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1010.*
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
11.8
11.6
11.4
11.2
11.0
10.8
10.6
10.4
10.2
0
10
20
30
40
50


Side Weir Plan: west beltway 6/29/2004
River = side Reach = side RS = 1000
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
11.4
11.2
11.0
10.8
10.6
10.4
10.2
10.0
0
10
20
30
40
50
Station (ft)

APPENDIX C

Lone Mountain Road Facilities

Lone Mountain Road Stepped Spillway Calculations
Storm Drain Facilities Option 1
Storm Drain Facilities Option 2
Storm Drain Facilities Option 3

Lone Mountain Road Stepped Spillway Calculations

WESTERN SEGMENT OF THE LAS VEGAS BELTWAY - CRAIG ROAD TO HUALAPAI WAY

DATE JUNE 21, 2004

CLIENT _____ JOB NO 451.002 CALC BY _____

DESCRIPTION LONE MOUNTAIN STEPPED SPILLWAY CHECKED BY _____

ASSUME A 10' WIDE SPILLWAY WITH VERTICAL WALLS

WEIR EQUATION:

$Q = CLH^{3/2}$

Q = FLOW, CFS

C = WEIR COEFFICIENT (3.0 FOR BROAD CRESTED WEIR)

H = HEAD, FT

$491\ FT^3/SEC = (3.0)(10\ FT)\sqrt{H^3}$

$H = \left(\frac{491}{(3.0)(10)}\right)^{2/3}$

H = 6.45 = DEPTH OF FLOW UPSTREAM OF SPILLWAY

STEPPED INFLOW SPILLWAY:

CREST ELEVATION: 2860'

BOTTOM ELEVATION: 2770'

TOTAL DROP: 90'

2' STEP → 45 STEPS $N*h = 90'$

CRITICAL @ CREST

UNIT DISCHARGE: $q = \frac{Q}{L} = \frac{491\ FT^3/SEC}{10\ FT} = 49.1\ CFS/FT$

$y_c = \sqrt[3]{\frac{q^2}{g}} = 4.21'$ CRITICAL DEPTH

$V_c = \sqrt{g\,y_c} = 11.65\ FT/SEC$ CRITICAL VELOCITY

$H_c = y_c + V_c^2/2g = 6.32'$ ENERGY AT CREST

$H_o = Nh + H_c = 90' + 6.32' = 96.32'$

FROM CHRISTODOULO FOR $y_c/Nh < 0.25$

$\frac{\Delta H}{H} = \exp\left[-30\left(\frac{y_c}{Nh}\right)^2\right]$

$= \exp\left[-30\left(\frac{4.21'}{90'}\right)^2\right] = 0.94$

$\Delta H = 0.94 * H$

EN-3-N
3/66

G. C. WALLACE, INC.
Engineers/Planners/Surveyors
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146

SHEET ____ OF ____

DATE _____

CLIENT _____ JOB NO _____ CALC BY _____

DESCRIPTION _____ CHECKED BY _____

$\Delta H = 0.94 H$ AND $H = H_o - \Delta H$

$H = H_o - 0.94H$

$H = 96.3' - 84.6' = 11.7$ SPECIFIC ENERGY AT BOTTOM OF DROP

$H = y + \frac{V^2}{2g}$ AND $V = Q/A = \frac{491 \text{ CFS}}{10 \text{ FT}(y)} = \frac{49.1}{y}$

$11.7 = y + \frac{\left(\frac{49.1}{y}\right)^2}{64.4} \Rightarrow 11.7 = y + \frac{1}{y^2}(37.4)$

$y = 1.96$

$V = \frac{491 \text{ CFS}}{(10)(1.96)} = 25.1 \text{ FT/SEC}$

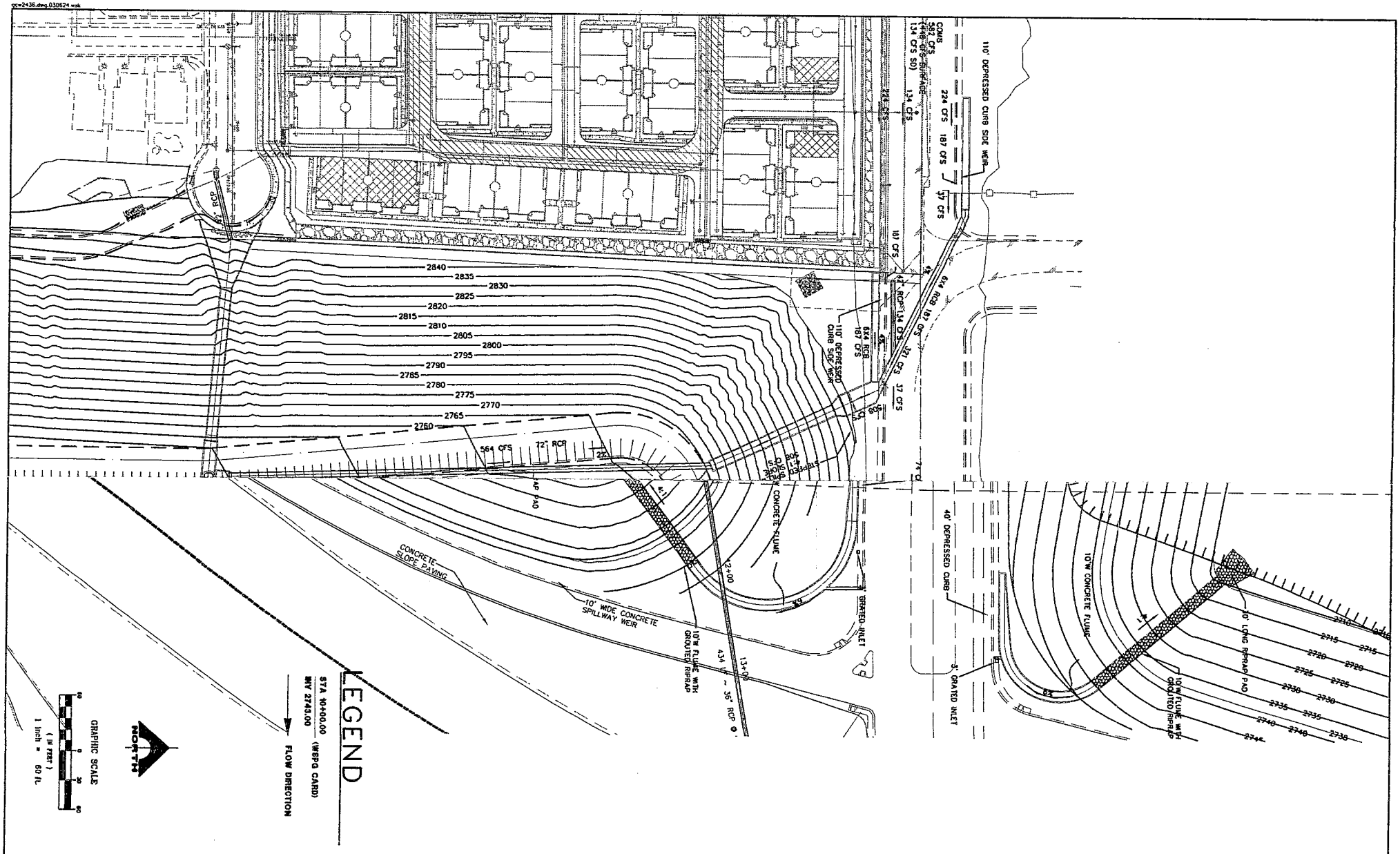
$Fr = \frac{V}{\sqrt{gy}} = \frac{25.1}{\sqrt{(1.96)(32.2)}} = 3.16$ $\therefore y = 1.96 = y_1$

$y_2 = \frac{y_1}{2}\left(\sqrt{1 + 8Fr^2} - 1\right) = \frac{1.96}{2}\left(\sqrt{1 + 8(3.16)^2} - 1\right) = 7.85$

Storm Drain Facilities Option 1

Lone Mountain Hydraulic files:
Option 1

LONU1A.prj	Upstream Collector – Side weir calculations – 110' side weir Design incoming flow = 224 cfs per half street. Intercepted flow = 187 cfs per half street Bypassing flow = 37 cfs per half street
LONU1B.WSP	Upstream Collector – Lone Mountain 6'x4' RCB side weir collectors to spillway. Design flow = 508 cfs (187 cfs side weir + 187 cfs side weir + 134 cfs storm drain = 508 cfs)
LONU1D.WSP	Upstream Collector – 66" RCP and 12'x 4' RCB with baffles Design flow = 508 cfs
LOND1A.prj	Downstream Collector – Side weir calculations – 40-foot side weir Design incoming flow = 37 cfs per half street Intercepted flow = 24 cfs per half street Bypassing flow = 13 per half street
Drop inlet calc	Design incoming flow = 13 cfs per half street Intercepted flow = 9 cfs per half street Bypassing flow = 4 cfs per half street
LOND1BN.wsp	Downstream Collector – Curved channel facility – 10-foot wide concrete/grouted rip rap channel – North half Design flow = 37 cfs in north half (37 cfs conservatively assumes no bypassing of 40-foot side weir)
LOND1BS.wsp	Downstream Collector – Curved channel facility – 10-foot wide concrete/grouted rip rap channel – South half Design flow = 37 cfs in south half (37 cfs conservatively assumes no bypassing of 40-foot side weir)



WESTERN SEGMENT OF THE LAS VEGAS BELTWAY

CRAIG ROAD TO HUALAPAI WAY

LONE MOUNTAIN COLLECTOR-ALT 1

DRAWING FIG A1 1 OF SHTS

G.C. WALLACE, INC.
Engineers/Planners/Surveyors
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146
TELEPHONE: (702) 804-2000 • FAX: (702) 804-2299

F:\451-002\Drainage\fig\FIG-27ALT1.dwg bhunter

DESIGN:
DRAWN:
CHECK:
ISSUE DATE:
ISSUE EDITOR:
PLOT DATE: 07-26-04
PLOT TIME: 16:35:46

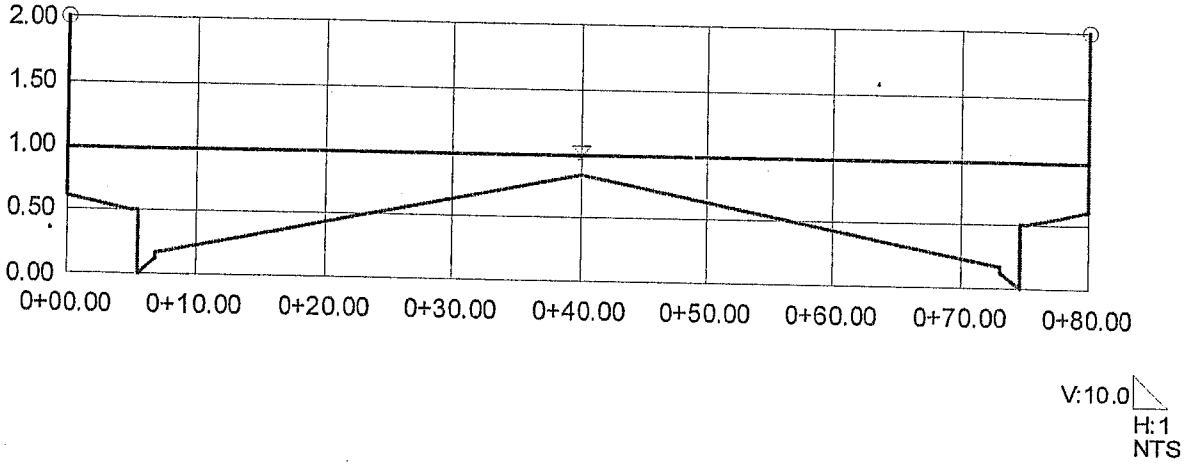
REV	DATE	DESCRIPTION	DATE	AGEN. APP.	DATE	GCW. APP.

DATE:

80' R/W 448 CFS IN LONE MOUNTAIN
Cross Section for Irregular Channel

Project Description	
Worksheet	Irregular Channel - 1
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data	
Mannings Coefficient	0.016
Channel Slope	0.040000 ft/ft
Water Surface Elevation	0.98 ft
Elevation Range	0.00 to 2.00
Discharge	448.00 cfs



80' R/W 448 CFS IN LONE MOUNTAIN
Worksheet for Irregular Channel

Project Description	
Worksheet	Irregular Channel - 1
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Channel Slope	0.040000	ft/ft
Discharge	448.00	cfs

Options	
Current Roughness Method	Improved Lotter's Method
Open Channel Weighting Method	Improved Lotter's Method
Closed Channel Weighting Method	Horton's Method

Results		
Mannings Coefficient	0.016	
Water Surface Elevation	0.98	ft
Elevation Range	0.00 to 2.00	
Flow Area	39.3	ft²
Wetted Perimeter	81.87	ft
Top Width	80.00	ft
Actual Depth	0.98	ft
Critical Elevation	1.48	ft
Critical Slope	0.003921	ft/ft
Velocity	11.39	ft/s
Velocity Head	2.02	ft
Specific Energy	3.00	ft
Froude Number	2.86	
Flow Type	Supercritical	

Roughness Segments		
Start Station	End Station	Mannings Coefficient
0+00.00	0+80.00	0.016

Natural Channel Points	
Station (ft)	Elevation (ft)
0+00.00	2.00
0+00.00	0.60
0+05.00	0.50
0+05.50	0.50
0+05.50	0.00
0+07.00	0.13
0+07.00	0.17
0+40.00	0.83
0+73.00	0.17
0+73.00	0.13
0+74.50	0.00
0+74.50	0.50

80' R/W 448 CFS IN LONE MOUNTAIN
Worksheet for Irregular Channel

Natural Channel Points	
Station (ft)	Elevation (ft)
0+75.00	0.50
0+80.00	0.60
0+80.00	2.00

North Detention Basin Channel (Q = 98 cfs)
Worksheet for Irregular Channel

Project Description	
Worksheet	North Detention Basin Channel (Q = 98 cfs)
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Channel Slope	0.007000	ft/ft
Discharge	98.00	cfs

Options	
Current Roughness Method	Improved Lotter's Method
Open Channel Weighting Method	Improved Lotter's Method
Closed Channel Weighting Metho	Horton's Method

Results		
Mannings Coefficient	0.015	
Water Surface Elevation	2.02	ft
Elevation Range	0.00 to 5.00	
Flow Area	12.2	ft²
Wetted Perimeter	12.75	ft
Top Width	12.09	ft
Actual Depth	2.02	ft
Critical Elevation	2.31	ft
Critical Slope	0.003350	ft/ft
Velocity	8.04	ft/s
Velocity Head	1.01	ft
Specific Energy	3.02	ft
Froude Number	1.41	
Flow Type	Supercritical	

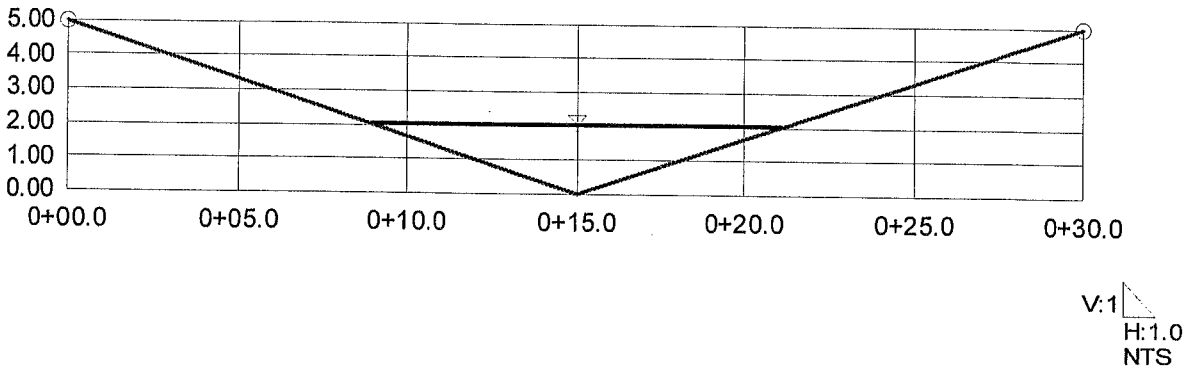
Roughness Segments		
Start Station	End Station	Mannings Coefficient
0+00.0	0+30.0	0.015

Natural Channel Points	
Station (ft)	Elevation (ft)
0+00.0	5.00
0+15.0	0.00
0+30.0	5.00

North Detention Basin Channel (Q = 98 cfs)
Cross Section for Irregular Channel

Project Description	
Worksheet	North Detention Basin Channel (Q = 98 cfs)
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.015	
Channel Slope	0.007000	ft/ft
Water Surface Elevation	2.02	ft
Elevation Range	0.00 to 5.00	
Discharge	98.00	cfs



North Detention Basin Flume (Q = 98 cfs)
Worksheet for Irregular Channel

Project Description	
Worksheet	North Detention Basin Flume (Q = 98 cfs)
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Channel Slope	0.500000	ft/ft
Discharge	98.00	cfs

Options	
Current Roughness Method	Improved Lotter's Method
Open Channel Weighting Method	Improved Lotter's Method
Closed Channel Weighting Metho	Horton's Method

Results		
Mannings Coefficient	0.015	
Water Surface Elevation	0.20	ft
Elevation Range	0.00 to 3.00	
Flow Area	4.1	ft²
Wetted Perimeter	20.41	ft
Top Width	20.00	ft
Actual Depth	0.20	ft
Critical Elevation	0.91	ft
Critical Slope	0.003804	ft/ft
Velocity	23.98	ft/s
Velocity Head	8.93	ft
Specific Energy	9.14	ft
Froude Number	9.35	
Flow Type	Supercritical	

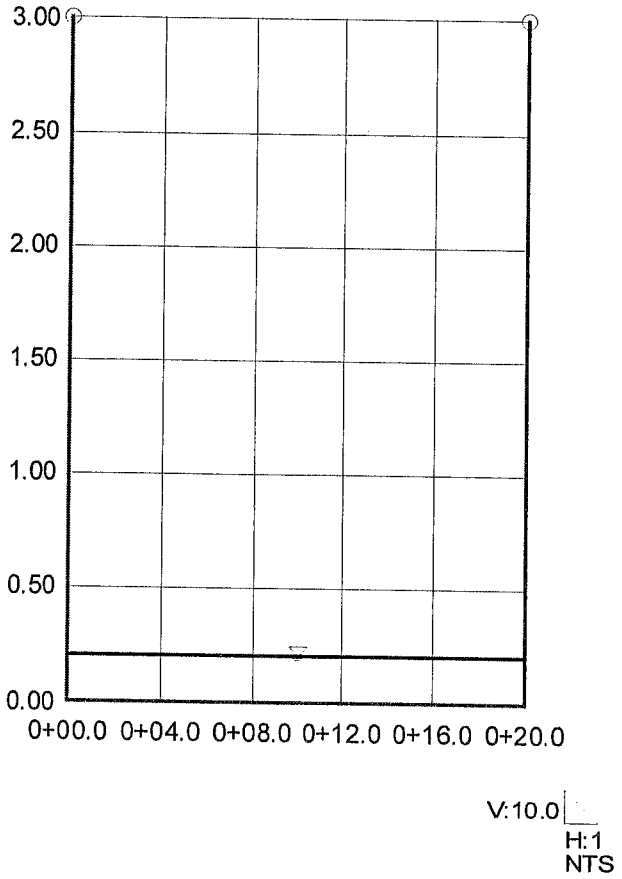
Roughness Segments		
Start Station	End Station	Mannings Coefficient
0+00.0	0+20.0	0.015

Natural Channel Points	
Station (ft)	Elevation (ft)
0+00.0	3.00
0+00.0	0.00
0+20.0	0.00
0+20.0	3.00

North Detention Basin Flume (Q = 98 cfs)
Cross Section for Irregular Channel

Project Description	
Worksheet	North Detention Basin Flume (Q = 98 cfs)
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.015	
Channel Slope	0.500000	ft/ft
Water Surface Elevation	0.20	ft
Elevation Range	0.00 to 3.00	
Discharge	98.00	cfs



Low Flow Drain - North Detention Basin
Worksheet for Circular Channel

Project Description	
Worksheet	Low Flow Drain - North Detention Basin
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Channel Depth

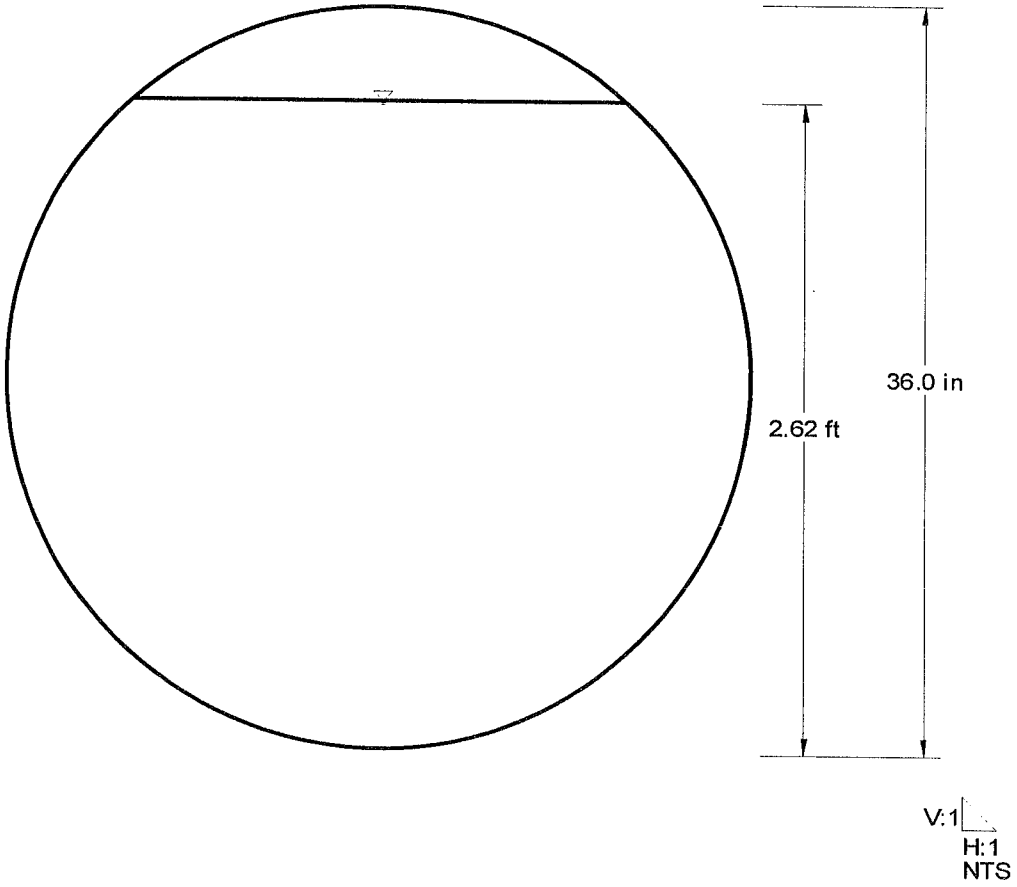
Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.002500	ft/ft
Diameter	36.0	in
Discharge	35.00	cfs

Results		
Depth	2.62	ft
Flow Area	6.5	ft²
Wetted Perimeter	7.24	ft
Top Width	0.00	ft
Critical Depth	1.92	ft
Percent Full	87.3	%
Critical Slope	0.005011	ft/ft
Velocity	5.34	ft/s
Velocity Head	0.44	ft
Specific Energy	3.06	ft
Froude Number	0.52	
Maximum Discharg	35.87	cfs
Discharge Full	33.35	cfs
Slope Full	0.002754	ft/ft
Flow Type	Subcritical	

Low Flow Drain - North Detention Basin
Cross Section for Circular Channel

Project Description	
Worksheet	Low Flow Drain - North Detention Basin
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.013	
Channel Slope	0.002500	ft/ft
Depth	2.62	ft
Diameter	36.0	in
Discharge	35.00	cfs

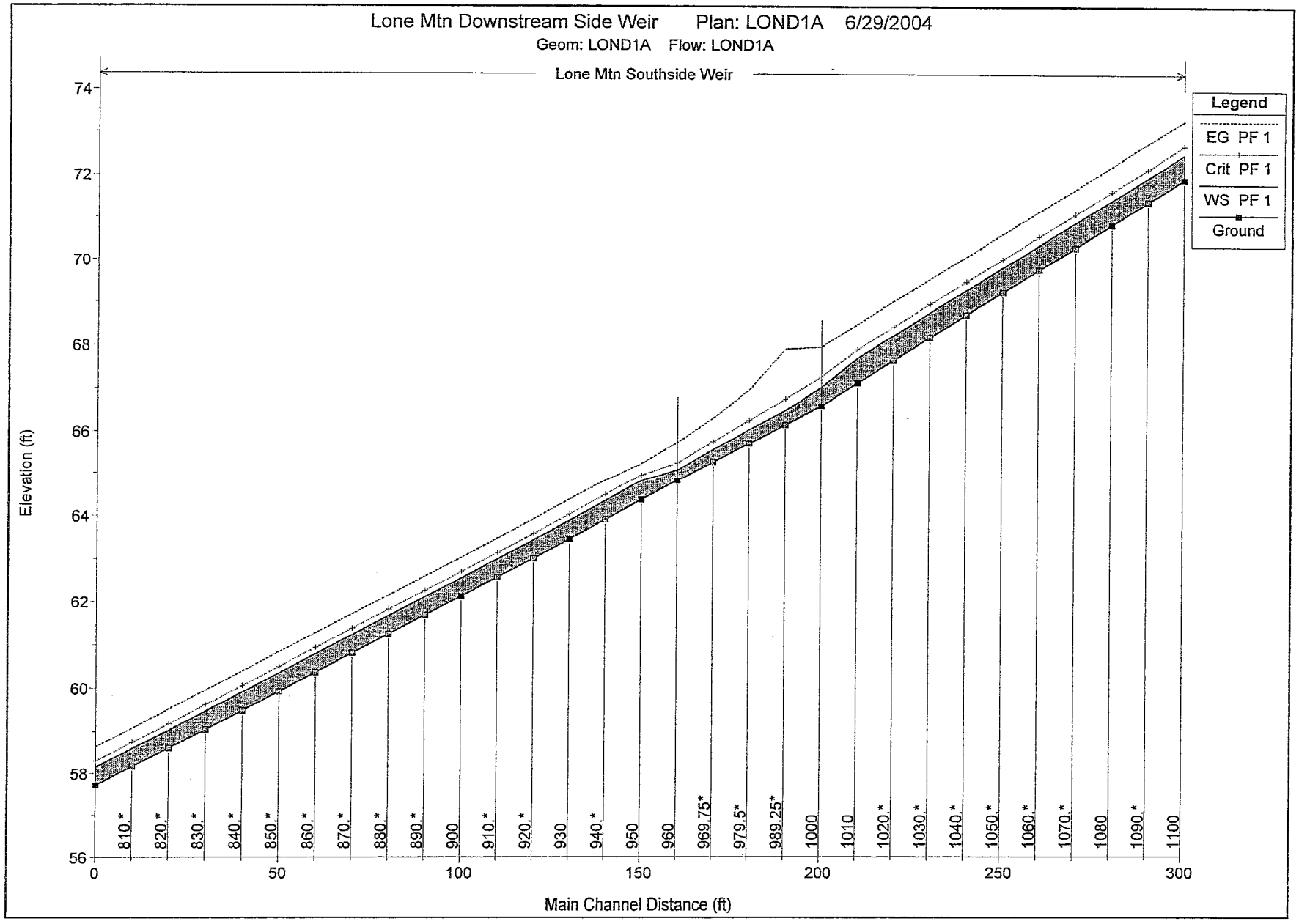


LOND1A

40' SIDE WEIR

HEC-RAS Plan: LOND1A River: Lone Mtn Reach: Southside Weir Profile: PF 1

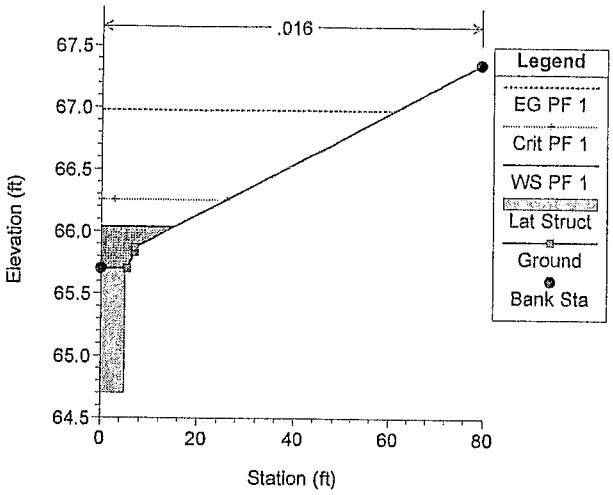
Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Max Chl Dpth	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Southside Weir	1100	PF 1	37.00	71.91	72.49	0.58	72.69	73.28	0.053085	7.13	5.19	26.47	2.84
Southside Weir	1090.*	PF 1	37.00	71.38	71.95	0.57	72.16	72.76	0.053432	7.19	5.15	26.03	2.85
Southside Weir	1080	PF 1	37.00	70.84	71.42	0.58	71.62	72.23	0.054410	7.20	5.14	26.27	2.87
Southside Weir	1070.*	PF 1	37.00	70.31	70.89	0.58	71.09	71.69	0.053438	7.15	5.18	26.42	2.84
Southside Weir	1060.*	PF 1	37.00	69.78	70.36	0.58	70.56	71.16	0.053435	7.15	5.18	26.42	2.84
Southside Weir	1050.*	PF 1	37.00	69.25	69.83	0.58	70.03	70.63	0.053434	7.15	5.18	26.42	2.84
Southside Weir	1040.*	PF 1	37.00	68.72	69.30	0.58	69.50	70.10	0.053434	7.15	5.18	26.42	2.84
Southside Weir	1030.*	PF 1	37.00	68.19	68.77	0.58	68.97	69.57	0.053434	7.15	5.18	26.42	2.84
Southside Weir	1020.*	PF 1	37.00	67.66	68.24	0.58	68.44	69.04	0.053434	7.15	5.18	26.42	2.84
Southside Weir	1010	PF 1	37.00	67.13	67.71	0.58	67.91	68.51	0.053438	7.15	5.18	26.42	2.84
Southside Weir	1000	PF 1	37.00	66.60	67.04	0.44	67.28	67.97	0.049480	7.76	4.77	20.23	2.82
Southside Weir	999		Lat Struct										
Southside Weir	989.25*	PF 1	29.21	66.15	66.49	0.34	66.77	67.92	0.096731	9.60	3.04	15.50	3.82
Southside Weir	979.5*	PF 1	22.94	65.70	66.04	0.34	66.26	66.98	0.064484	7.78	2.95	15.20	3.11
Southside Weir	969.75*	PF 1	17.23	65.25	65.55	0.30	65.75	66.31	0.057006	7.00	2.46	13.53	2.89
Southside Weir	960	PF 1	12.53	64.80	65.06	0.26	65.23	65.72	0.055195	6.53	1.92	11.39	2.81
Southside Weir	950	PF 1	12.53	64.36	64.81	0.45	64.94	65.21	0.035731	5.12	2.45	15.06	2.24
Southside Weir	940.*	PF 1	12.53	63.91	64.35	0.44	64.49	64.82	0.043307	5.51	2.28	14.48	2.45
Southside Weir	930	PF 1	12.53	63.46	63.89	0.43	64.04	64.38	0.044885	5.58	2.25	14.38	2.49
Southside Weir	920.*	PF 1	12.53	63.01	63.44	0.43	63.59	63.93	0.045038	5.59	2.24	14.37	2.49
Southside Weir	910.*	PF 1	12.53	62.57	63.00	0.43	63.15	63.48	0.044076	5.54	2.26	14.43	2.47
Southside Weir	900	PF 1	12.53	62.12	62.55	0.43	62.70	63.04	0.044867	5.58	2.25	14.38	2.49
Southside Weir	890.*	PF 1	12.53	61.68	62.11	0.43	62.26	62.60	0.044865	5.58	2.25	14.38	2.49
Southside Weir	880.*	PF 1	12.53	61.24	61.67	0.43	61.82	62.16	0.044865	5.58	2.25	14.38	2.49
Southside Weir	870.*	PF 1	12.53	60.80	61.23	0.43	61.38	61.72	0.044867	5.58	2.25	14.38	2.49
Southside Weir	860.*	PF 1	12.53	60.36	60.79	0.43	60.94	61.28	0.044865	5.58	2.25	14.38	2.49
Southside Weir	850.*	PF 1	12.53	59.92	60.35	0.43	60.50	60.84	0.044867	5.58	2.25	14.38	2.49
Southside Weir	840.*	PF 1	12.53	59.48	59.91	0.43	60.06	60.40	0.044867	5.58	2.25	14.38	2.49
Southside Weir	830.*	PF 1	12.53	59.04	59.47	0.43	59.62	59.96	0.044865	5.58	2.25	14.38	2.49
Southside Weir	820.*	PF 1	12.53	58.60	59.03	0.43	59.18	59.52	0.044867	5.58	2.25	14.38	2.49
Southside Weir	810.*	PF 1	12.53	58.16	58.59	0.43	58.73	59.08	0.044867	5.58	2.25	14.38	2.49
Southside Weir	800	PF 1	12.53	57.72	58.15	0.43	58.29	58.64	0.044865	5.58	2.25	14.38	2.49


Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004
Geom: LOND1A Flow: LOND1A
Lone Mtn Southside Weir
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Elevation (ft)
Main Channel Distance (ft)
74
72
70
68
66
64
62
60
58
56
0
50
100
150
200
250
300
810.*
820.*
830.*
840.*
850.*
860.*
870.*
880.*
890.*
900
910.*
920.*
930
940.*
950
960
969.75*
979.5*
989.25*
1000
1010
1020.*
1030.*
1040.*
1050.*
1060.*
1070.*
1080
1090.*
1100

Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

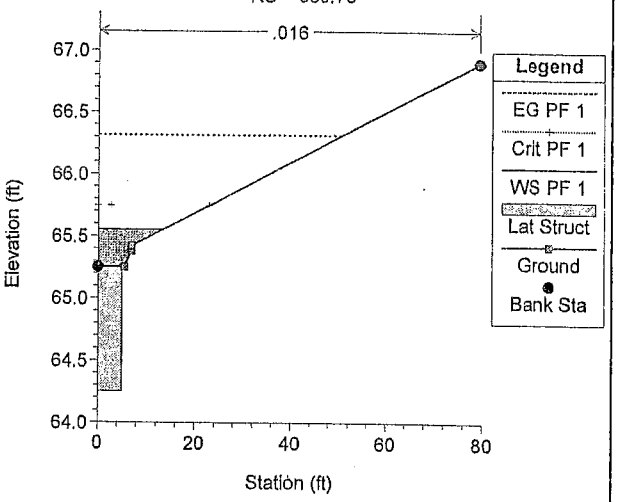
RS = 979.5*



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

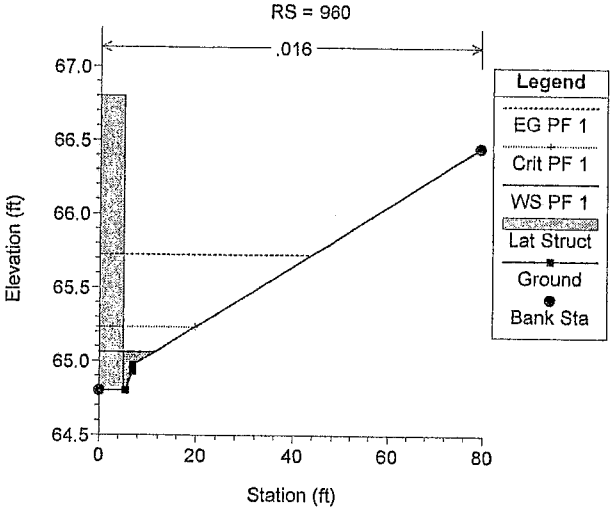
RS = 969.75*



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

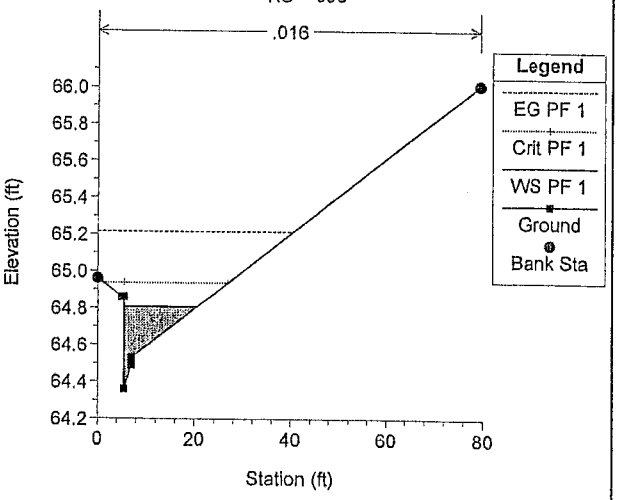
RS = 960



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

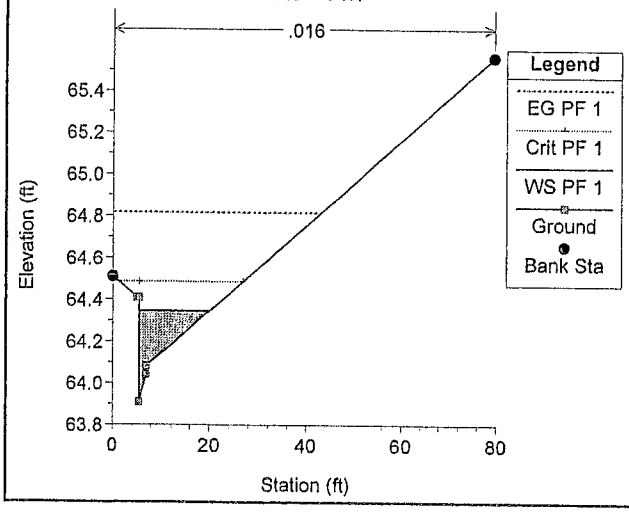
RS = 950



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

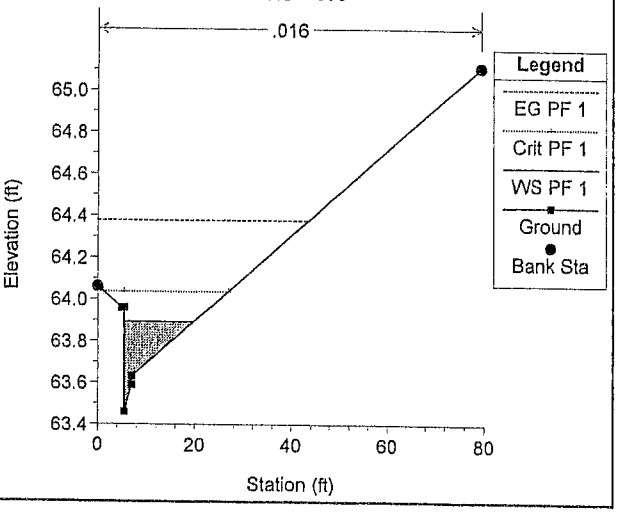
RS = 940.*



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

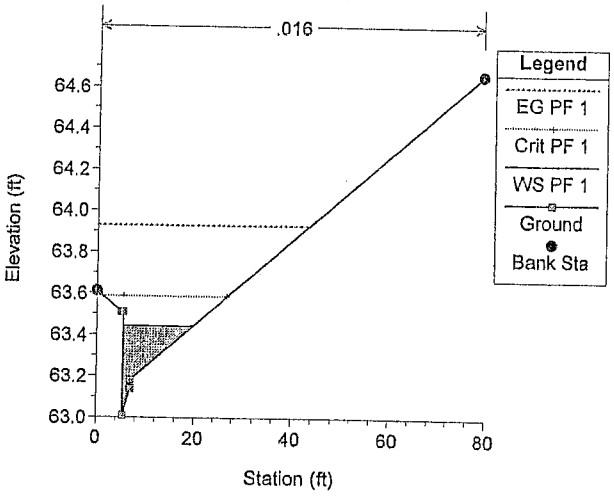
RS = 930



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

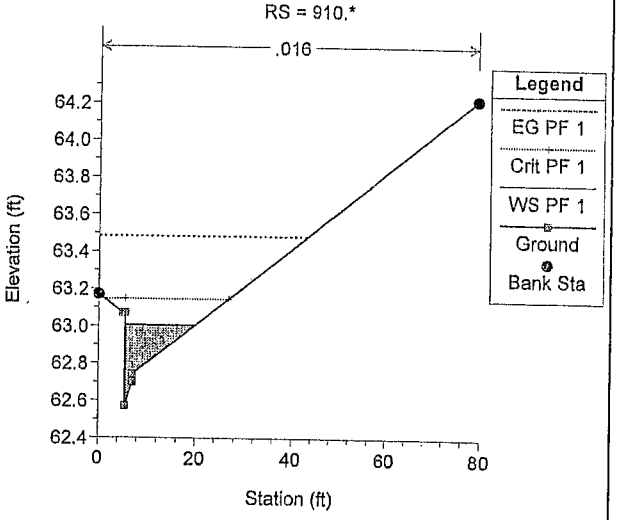
RS = 920.*



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

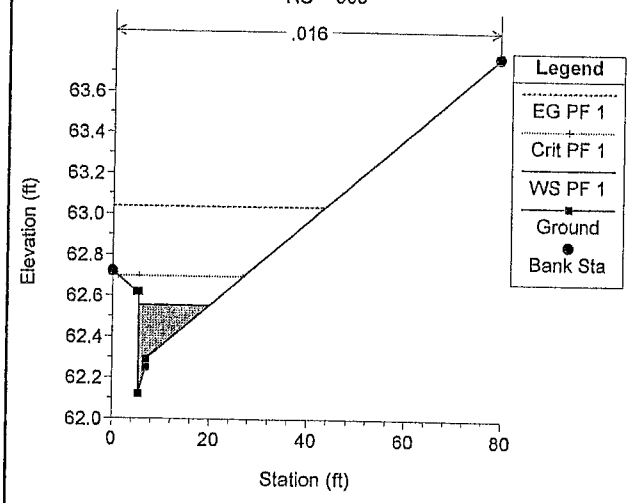
RS = 910.*



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

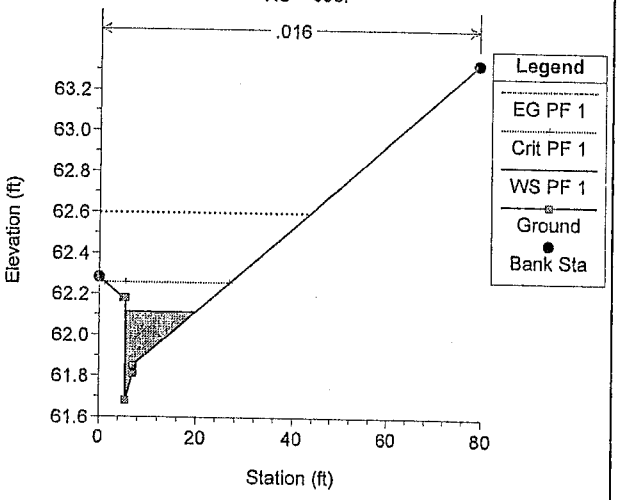
RS = 900



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

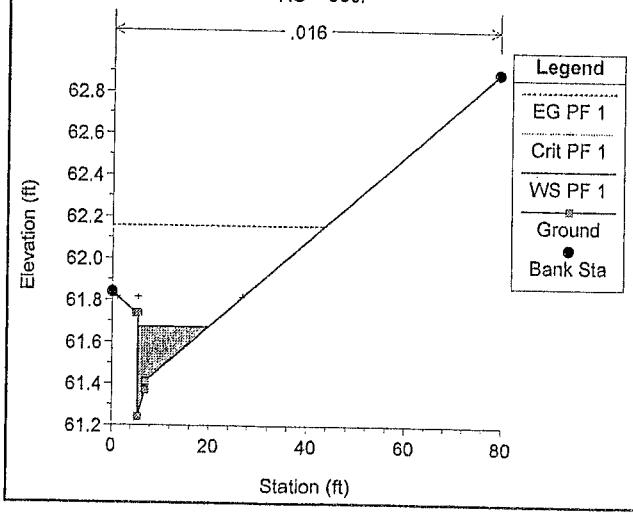
RS = 890.*



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

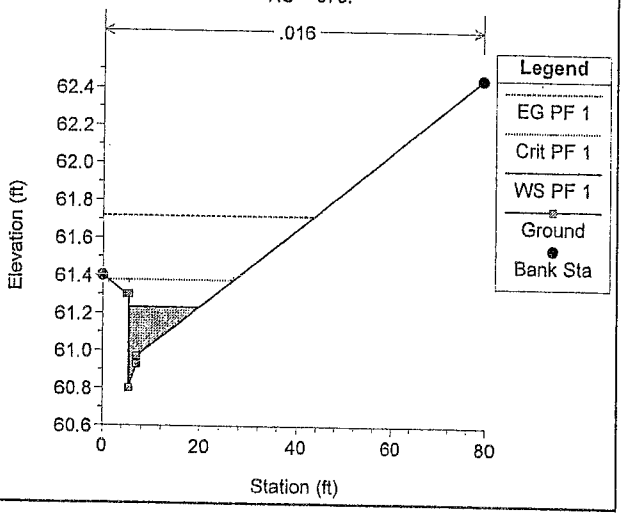
RS = 880.*



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

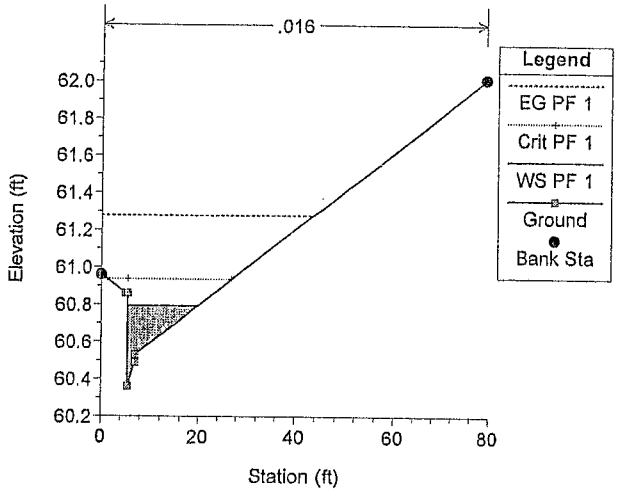
RS = 870.*



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

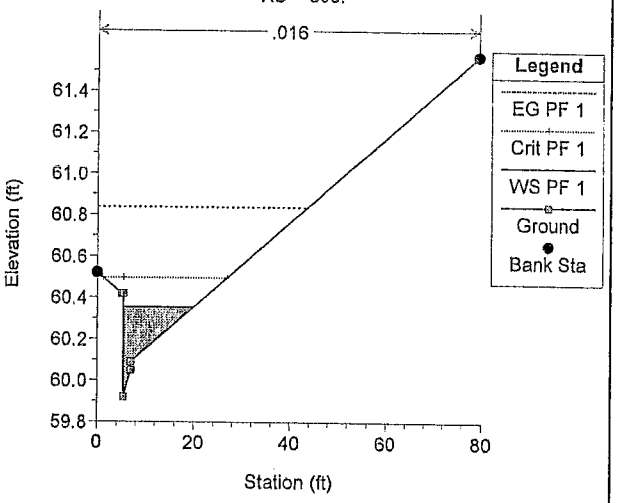
RS = 860.*



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

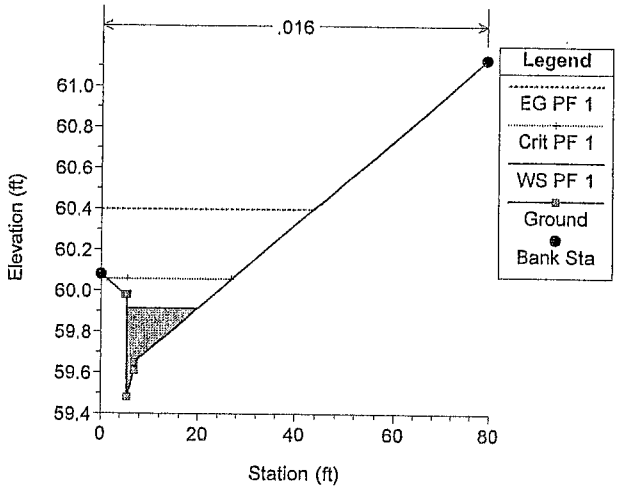
RS = 850.*



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

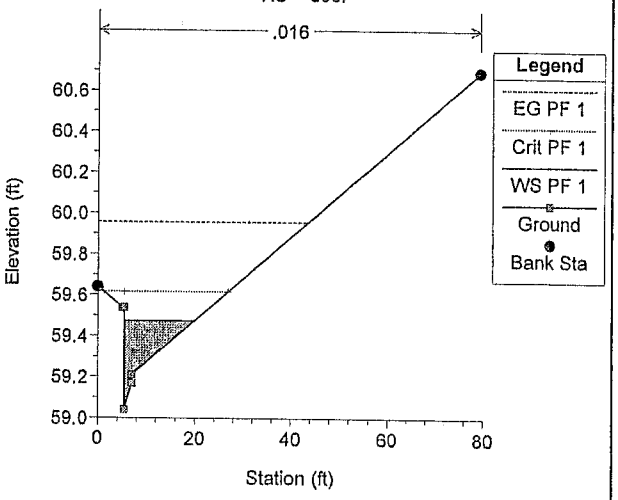
RS = 840.*



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

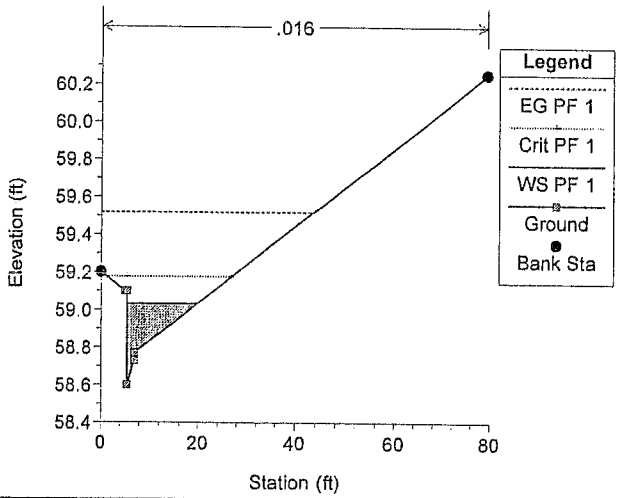
RS = 830.*



Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

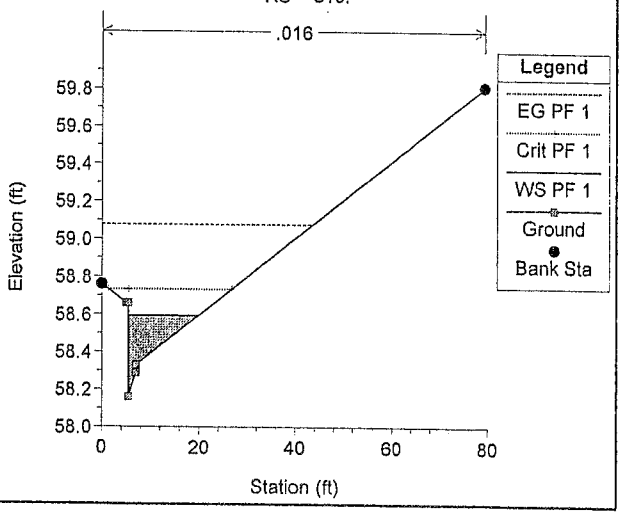
RS = 820.*

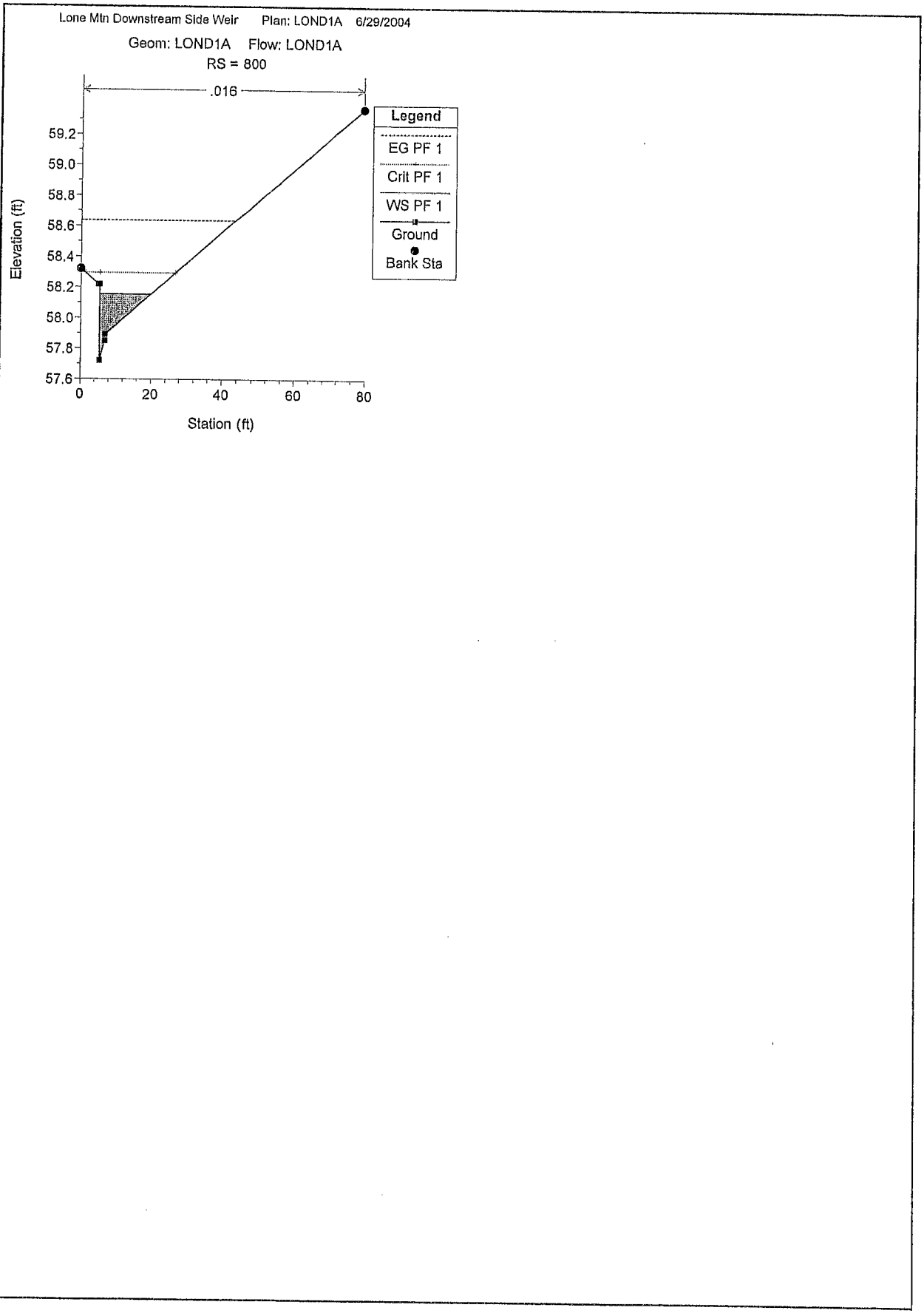


Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004

Geom: LOND1A Flow: LOND1A

RS = 810.*




Lone Mtn Downstream Side Weir Plan: LOND1A 6/29/2004
Geom: LOND1A Flow: LOND1A
RS = 800
.016
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
59.2
59.0
58.8
58.6
58.4
58.2
58.0
57.8
57.6
0
20
40
60
80
Station (ft)

HEC-RAS Version 3.1.1 May 2003
U.S. Army Corp of Engineers
Hydrologic Engineering Center
609 Second Street, Suite D
Davis, California 95616-4687
(916) 756-1104

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

PROJECT DATA
Project Title: Lone Mtn Downstream Side Weir
Project File : LOND1A.prj
Run Date and Time: 6/29/2004 3:22:13 PM

Project in English units

PLAN DATA

Plan Title: LOND1A
Plan File : f:\451-002\Drainage\calcs\ras\Side Weir East\LOND1A.p01

Geometry Title: LOND1A
Geometry File : f:\451-002\Drainage\calcs\ras\Side Weir East\LOND1A.g01

Flow Title : LOND1A
Flow File : f:\451-002\Drainage\calcs\ras\Side Weir East\LOND1A.f01

Plan Summary Information:

Number of:	Cross Sections	= 31	Mulitple Openings	=	0
	Culverts	= 0	Inline Structures	=	0
	Bridges	= 0	Lateral Structures	=	1

Computational Information

Water surface calculation tolerance	= 0.01
Critical depth calculaton tolerance	= 0.01
Maximum number of interations	= 20
Maximum difference tolerance	= 0.3
Flow tolerance factor	= 0.001

Computation Options
Critical depth computed only where necessary
Conveyance Calculation Method: At breaks in n values only
Friction Slope Method: Average Conveyance
Computational Flow Regime: Mixed Flow

FLOW DATA

Flow Title: LOND1A
Flow File : f:\451-002\Drainage\calcs\ras\Side Weir East\LOND1A.f01

Flow Data (cfs)

River	Reach	RS	PF 1
Lone Mtn	Southside Weir	1100	37

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
Lone Mtn	Southside Weir	PF 1	Normal S = 0.053	Normal S = 0.0448

GEOMETRY DATA

Geometry Title: LOND1A
Geometry File : f:\451-002\Drainage\calcs\ras\Side Weir East\LOND1A.g01

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 1100

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	72.51	5	72.41	5.5	72.41	5.5	71.91	7	72.04
7	72.08	79.5	73.56						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 1090.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	71.98	5	71.88	5.5	71.88	5.5	71.38	7	71.51
7	71.54	79.5	73.02						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 1080

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	71.44	5	71.34	5.5	71.34	5.5	70.84	7	70.97
7	71.01	79.5	72.49						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 1070.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	70.91	5	70.81	5.5	70.81	5.5	70.31	7	70.44
7	70.48	79.5	71.96						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 1060.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	70.38	5	70.28	5.5	70.28	5.5	69.78	7	69.91
7	69.95	79.5	71.43						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 1050.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	69.85	5	69.75	5.5	69.75	5.5	69.25	7	69.38
7	69.42	79.5	70.9						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 1040.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	69.32	5	69.22	5.5	69.22	5.5	68.72	7	68.85
7	68.89	79.5	70.37						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 1030.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	68.79	5	68.69	5.5	68.69	5.5	68.19	7	68.32
7	68.36	79.5	69.84						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 1020.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	68.26	5	68.16	5.5	68.16	5.5	67.66	7	67.79
7	67.83	79.5	69.31						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 1010

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	67.73	5	67.63	5.5	67.63	5.5	67.13	7	67.26
7	67.3	79.5	68.78						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 1000

INPUT
Description:
Station Elevation Data num= 5

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	66.6	5.5	66.6	7	66.73	7	66.77	79.5	68.25

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

LATERAL STRUCTURE

RIVER: Lone Mtn
REACH: Southside Weir RS: 999

INPUT
Description: Side Weir
Lateral structure position = Left overbank
Distance from Upstream XS = 0
Deck/Roadway Width = 5
Weir Coefficient = 3.1
Weir Flow Reference = Water Surface
Weir Embankment Coordinates num = 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	68.6	0	66.6	40	64.8	40	66.8

Weir crest shape = Broad Crested

LATERAL STRUCTURE OUTPUT Profile #PF 1 Lat Struct

E.G. US. (ft)	67.97	Weir Sta US (ft)	0.00
W.S. US. (ft)	67.04	Weir Sta DS (ft)	40.00
E.G. DS (ft)	65.72	Weir Max Depth (ft)	0.44
W.S. DS (ft)	65.06	Weir Avg Depth (ft)	0.33
Q US (cfs)	37.00	Weir Submerg	0.00
Q Leaving Total (cfs)	24.03	Min El Weir Flow (ft)	64.80
Q DS (cfs)	12.53	Wr Top Wdth (ft)	40.00
Perc Q Leaving	66.14	Q Gate Group (cfs)	
Q Weir (cfs)	24.03	Gate Open Ht (ft)	
Q Gates (cfs)		Gate #Open	
Q Culv (cfs)		Gate Area (sq ft)	
Q Lat RC (cfs)		Gate Submerg	
Weir Flow Area (sq ft)	13.34	Gate Invert (ft)	

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 989.25*

INPUT
Description:
Station Elevation Data num= 5

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	66.15	5.5	66.15	7	66.28	7	66.32	79.5	67.8

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 979.5*

INPUT
Description:
Station Elevation Data num= 5

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	65.7	5.5	65.7	7	65.83	7	65.87	79.5	67.35

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 969.75*

INPUT
Description:
Station Elevation Data num= 5

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	65.25	5.5	65.25	7	65.38	7	65.42	79.5	66.9

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 960

INPUT
Description:
Station Elevation Data num= 5

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	64.8	5.5	64.8	7	64.93	7	64.97	79.5	66.45

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 950

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	64.96	5	64.86	5.5	64.86	5.5	64.36	7	64.49
7	64.53	79.5	66.01						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 940.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	64.51	5	64.41	5.5	64.41	5.5	63.91	7	64.04
7	64.08	79.5	65.56						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 930

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	64.06	5	63.96	5.5	63.96	5.5	63.46	7	63.59
7	63.63	79.5	65.11						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 920.*

INPUT
Description:

Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	63.61	5	63.51	5.5	63.51	5.5	63.01	7	63.14
7	63.18	79.5	64.66						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 910.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	63.17	5	63.07	5.5	63.07	5.5	62.57	7	62.7
7	62.74	79.5	64.22						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 900

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	62.72	5	62.62	5.5	62.62	5.5	62.12	7	62.25
7	62.29	79.5	63.77						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 890.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	62.28	5	62.18	5.5	62.18	5.5	61.68	7	61.81
7	61.85	79.5	63.33						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 880.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	61.84	5	61.74	5.5	61.74	5.5	61.24	7	61.37
7	61.41	79.5	62.89						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 870.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	61.4	5	61.3	5.5	61.3	5.5	60.8	7	60.93
7	60.97	79.5	62.45						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 860.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	60.96	5	60.86	5.5	60.86	5.5	60.36	7	60.49
7	60.53	79.5	62.01						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 850.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	60.52	5	60.42	5.5	60.42	5.5	59.92	7	60.05
7	60.09	79.5	61.57						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 840.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev

0	60.08	5	59.98	5.5	59.98	5.5	59.48	7	59.61
7	59.65	79.5	61.13						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 830.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	59.64	5	59.54	5.5	59.54	5.5	59.04	7	59.17
7	59.21	79.5	60.69						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 820.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	59.2	5	59.1	5.5	59.1	5.5	58.6	7	58.73
7	58.77	79.5	60.25						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 810.*

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	58.76	5	58.66	5.5	58.66	5.5	58.16	7	58.29
7	58.33	79.5	59.81						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	79.5	10	10	.1	.3

CROSS SECTION

RIVER: Lone Mtn
REACH: Southside Weir RS: 800

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	58.32	5	58.22	5.5	58.22	5.5	57.72	7	57.85

7	57.89	79.5	59.37

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	79.5	.016

Bank Sta: Left	Right	Coeff Contr.	Expan.
0	79.5	.1	.3

SUMMARY OF MANNING'S N VALUES

River:Lone Mtn

Reach	River Sta.	n1	n2	n3
Southside Weir	1100	.016	.016	.016
Southside Weir	1090.*	.016	.016	.016
Southside Weir	1080	.016	.016	.016
Southside Weir	1070.*	.016	.016	.016
Southside Weir	1060.*	.016	.016	.016
Southside Weir	1050.*	.016	.016	.016
Southside Weir	1040.*	.016	.016	.016
Southside Weir	1030.*	.016	.016	.016
Southside Weir	1020.*	.016	.016	.016
Southside Weir	1010	.016	.016	.016
Southside Weir	1000	.016	.016	.016
Southside Weir	999	Lat Struct		
Southside Weir	989.25*	.016	.016	.016
Southside Weir	979.5*	.016	.016	.016
Southside Weir	969.75*	.016	.016	.016
Southside Weir	960	.016	.016	.016
Southside Weir	950	.016	.016	.016
Southside Weir	940.*	.016	.016	.016
Southside Weir	930	.016	.016	.016
Southside Weir	920.*	.016	.016	.016
Southside Weir	910.*	.016	.016	.016
Southside Weir	900	.016	.016	.016
Southside Weir	890.*	.016	.016	.016
Southside Weir	880.*	.016	.016	.016
Southside Weir	870.*	.016	.016	.016
Southside Weir	860.*	.016	.016	.016
Southside Weir	850.*	.016	.016	.016
Southside Weir	840.*	.016	.016	.016
Southside Weir	830.*	.016	.016	.016
Southside Weir	820.*	.016	.016	.016
Southside Weir	810.*	.016	.016	.016
Southside Weir	800	.016	.016	.016

SUMMARY OF REACH LENGTHS

River: Lone Mtn

Reach	River Sta.	Left	Channel	Right
Southside Weir	1100	10	10	10
Southside Weir	1090.*	10	10	10
Southside Weir	1080	10	10	10
Southside Weir	1070.*	10	10	10
Southside Weir	1060.*	10	10	10
Southside Weir	1050.*	10	10	10
Southside Weir	1040.*	10	10	10
Southside Weir	1030.*	10	10	10
Southside Weir	1020.*	10	10	10
Southside Weir	1010	10	10	10
Southside Weir	1000	10	10	10
Southside Weir	999	Lat Struct		
Southside Weir	989.25*	10	10	10
Southside Weir	979.5*	10	10	10
Southside Weir	969.75*	10	10	10
Southside Weir	960	10	10	10
Southside Weir	950	10	10	10
Southside Weir	940.*	10	10	10
Southside Weir	930	10	10	10
Southside Weir	920.*	10	10	10
Southside Weir	910.*	10	10	10
Southside Weir	900	10	10	10

Southside Weir	890.*	10	10	10
Southside Weir	880.*	10	10	10
Southside Weir	870.*	10	10	10
Southside Weir	860.*	10	10	10
Southside Weir	850.*	10	10	10
Southside Weir	840.*	10	10	10
Southside Weir	830.*	10	10	10
Southside Weir	820.*	10	10	10
Southside Weir	810.*	10	10	10
Southside Weir	800			

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: Lone Mtn

Reach	River Sta.	Contr.	Expan.
Southside Weir	1100	.1	.3
Southside Weir	1090.*	.1	.3
Southside Weir	1080	.1	.3
Southside Weir	1070.*	.1	.3
Southside Weir	1060.*	.1	.3
Southside Weir	1050.*	.1	.3
Southside Weir	1040.*	.1	.3
Southside Weir	1030.*	.1	.3
Southside Weir	1020.*	.1	.3
Southside Weir	1010	.1	.3
Southside Weir	1000	.1	.3
Southside Weir	999	Lat Struct	
Southside Weir	989.25*	.1	.3
Southside Weir	979.5*	.1	.3
Southside Weir	969.75*	.1	.3
Southside Weir	960	.1	.3
Southside Weir	950	.1	.3
Southside Weir	940.*	.1	.3
Southside Weir	930	.1	.3
Southside Weir	920.*	.1	.3
Southside Weir	910.*	.1	.3
Southside Weir	900	.1	.3
Southside Weir	890.*	.1	.3
Southside Weir	880.*	.1	.3
Southside Weir	870.*	.1	.3
Southside Weir	860.*	.1	.3
Southside Weir	850.*	.1	.3
Southside Weir	840.*	.1	.3
Southside Weir	830.*	.1	.3
Southside Weir	820.*	.1	.3
Southside Weir	810.*	.1	.3
Southside Weir	800	.1	.3

0
Q 187.0

DATE: 6/30/2004
TIME: 11:36

F0515P

WATER SURFACE PROFILE - CHANNEL DEFINITION LISTING

CARD CODE	SECT NO	CHN TYPE	NO OF PIERS	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	1	2	0	0.00	4.00	20.00			0.00										
CD	2	3	0	0.00	4.00	6.00	0.00	0.00	0.00										
CD	3	2	0	0.00	4.00	6.00			0.00										
CD	4	4			3.50														

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

WESTERN BELTWAY

HEADING LINE NO 2 IS -

LONE MOUNTAIN 6'X4' RCB SIDE WEIR COLLECTOR TO SPILLWAY

HEADING LINE NO 3 IS -

JOB #451-002 - LONU1B.WSP

WATER SURFACE PROFILE - ELEMENT CARD LISTING

ELEMENT NO 12 IS A REACH

	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
U/S DATA	1321.00	2848.06	3	0.013	0.00	0.00	0.00	0

ELEMENT NO 13 IS A SYSTEM HEADWORKS

	STATION	INVERT	SECT	W S ELEV
U/S DATA	1321.00	2848.06	3	0.00

NO EDIT ERRORS ENCOUNTERED-COMPUTATION IS NOW BEGINNING

** WARNING NO. 2 ** - WATER SURFACE ELEVATION GIVEN IS LESS THAN OR EQUALS INVERT ELEVATION IN HDWKDS, W.S.ELEV = INV + DC

0
Q 508.0

DATE: 6/30/2004
TIME: 13:17

F0515P

WATER SURFACE PROFILE - CHANNEL DEFINITION LISTING

CARD CODE	SECT NO	CHN TYPE	NO OF PIERS	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	1	3	0	0.00	4.00	12.00	0.00	0.00	0.00										
CD	2	4			5.50														
CD	3	6	0	0.00															
CD	4	3	0	0.00	4.00	6.00	0.00	0.00	0.00										
CD	5	3	0	0.00	5.50	6.00	0.00	0.00	0.00										

DATE: 6/30/2004
TIME: 13:17

F0515P
WATER SURFACE PROFILE - CROSS SECTION POINT LISTING

CARD CODE	SECT NO	NO OF POINTS	X(1) , Y(1) X(8) , Y(8)		X(2) , Y(2) X(9) , Y(9)		X(3) , Y(3) X(10) ,Y(10)		X(4) , Y(4) X(11) ,Y(11)		X(5) , Y(5) X(N) , Y(N)		X(6) , Y(6) X(N+1),Y(N+1)		X(7) , Y(7) X(99) ,Y(99)	
PTS	3	16	0.00	0.00	1.00	0.00	1.10	1.00	2.90	1.00	3.00	0.00	5.00	0.00	5.10	1.00
PTS			6.90	1.00	7.00	0.00	9.00	0.00	9.10	1.00	10.90	1.00	11.00	0.00	12.00	0.00
PTS			11.99	4.00	0.01	4.00										

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

WEST DETENTION BASIN

HEADING LINE NO 2 IS -

66"RCP TO 12'X4' CULVERT WITH (3) 2' WIDE X 1.0' HIGH BAFFLES

HEADING LINE NO 3 IS -

JOB #451-002 - LONEU1D.WSP

WATER SURFACE PROFILE - ELEMENT CARD LISTING

ELEMENT NO 1 IS A SYSTEM OUTLET

U/S DATA	STATION	INVERT	SECT		W S ELEV
	1000.00	2743.00	1		2747.00

ELEMENT NO 2 IS A REACH

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1027.00	2743.11	1	0.013	0.00	0.00	0.00	0

ELEMENT NO 3 IS A WALL EXIT

U/S DATA	STATION	INVERT	SECT
	1027.00	2743.11	3

ELEMENT NO 4 IS A REACH

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1029.00	2743.12	3	0.013	0.00	0.00	0.00	0

ELEMENT NO 5 IS A WALL ENTRANCE

U/S DATA	STATION	INVERT	SECT	FP
	1029.00	2743.12	1	0.500

ELEMENT NO 6 IS A REACH

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1032.00	2743.15	1	0.013	0.00	0.00	90.00	0

ELEMENT NO 7 IS A WALL EXIT

U/S DATA	STATION	INVERT	SECT
	1032.00	2743.15	4

ELEMENT NO 8 IS A TRANSITION

U/S DATA	STATION	INVERT	SECT	N
	1038.00	2743.15	5	0.014

THE ABOVE ELEMENT CONTAINED AN INVERT ELEV WHICH WAS NOT GREATER THAN THE PREVIOUS INVERT ELEV -WARNING

ELEMENT NO 9 IS A WALL EXIT

U/S DATA	STATION	INVERT	SECT
	1038.00	2743.15	2

ELEMENT NO 10 IS A REACH

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
	1512.30	2753.21	2	0.013	0.00	0.00	0.00	0

ELEMENT NO 11 IS A SYSTEM HEADWORKS

U/S DATA	STATION	INVERT	SECT	W S ELEV
	1512.30	2753.21	2	0.00

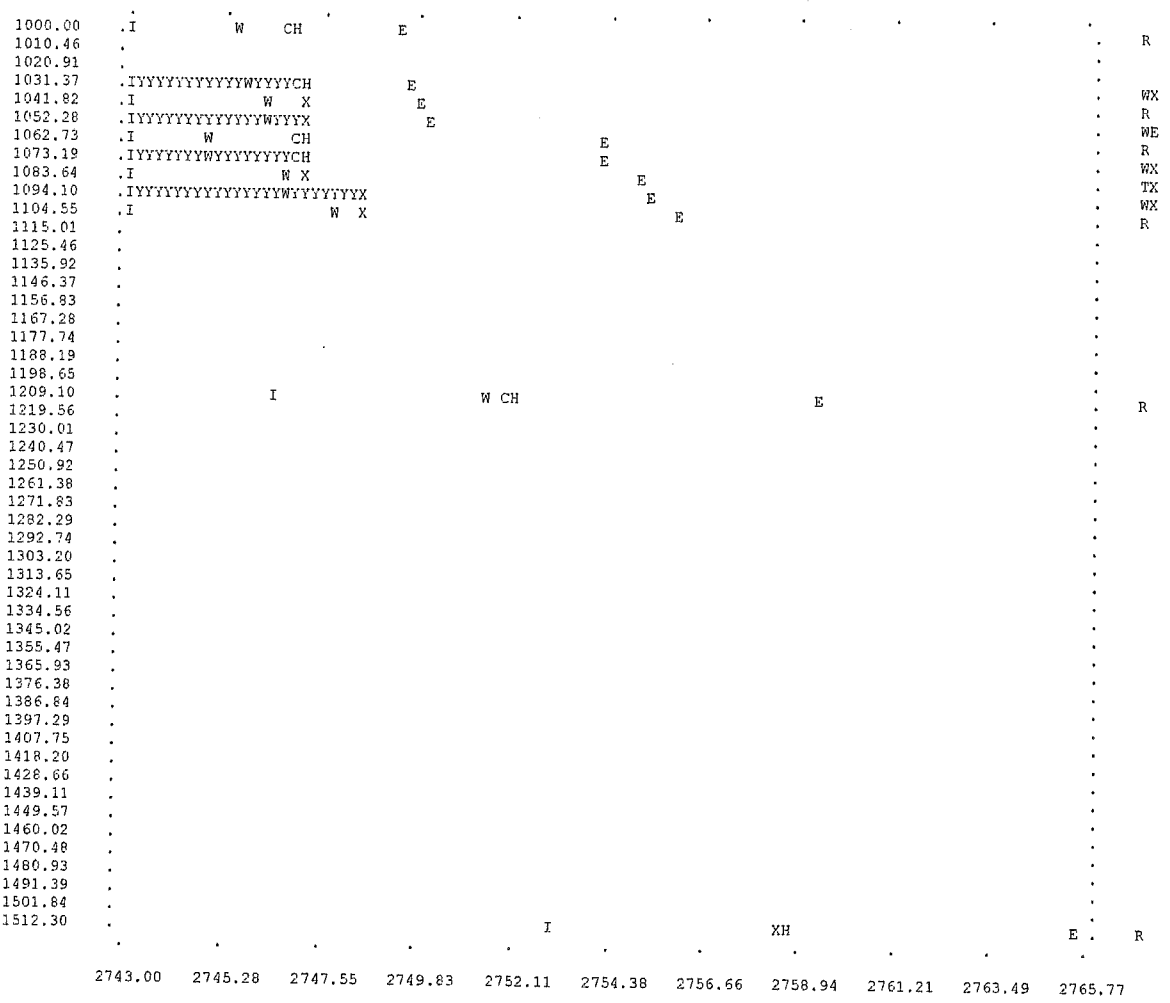
NO EDIT ERRORS ENCOUNTERED-COMPUTATION IS NOW BEGINNING

** WARNING NO. 2 ** - WATER SURFACE ELEVATION GIVEN IS LESS THAN OR EQUALS INVERT ELEVATION IN HDWKDS, W.S.ELEV = INV + DC

WEST DETENTION BASIN
66"RCP TO 12'X4' CULVERT WITH (3) 2' WIDE X 1.0' HIGH BAFFLES
JOB #451-002 - LONEU1D.WSP

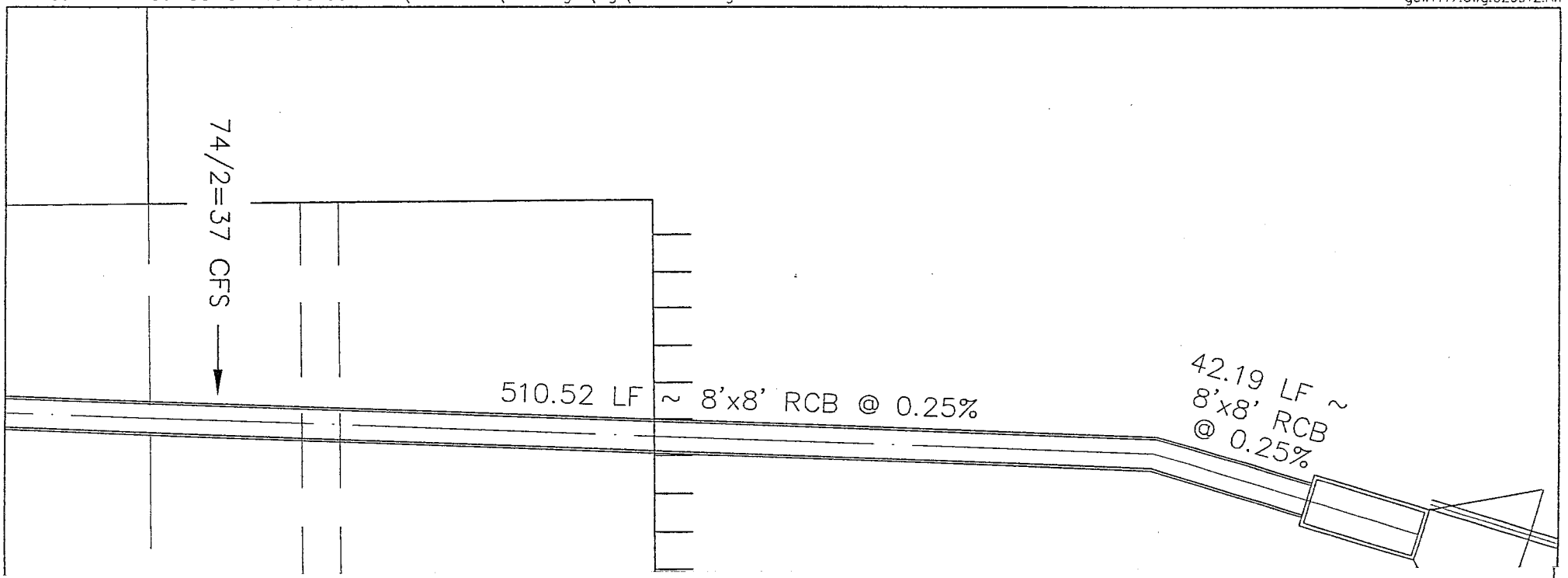
STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH		HGT/ DIA	BASE/ ID NO.	ZL	NO PIER	AVBPR
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR		
1000.00	2743.00	2.690	2745.690	508.0	15.73	3.845	2749.535	0.00	3.819		4.00	12.00	0.00	0	0.00
27.00	0.00407					.008594	0.23			3.443			0.00		
1027.00	2743.11	2.628	2745.738	508.0	16.11	4.030	2749.768	0.00	3.819		4.00	12.00	0.00	0	0.00
WALL EXIT													0.00		
1027.00	2743.11	3.204	2746.314	508.0	15.53	3.743	2750.057		4.000			3		0	0.00
2.00	0.00500					.012153	0.02			4.000					
1029.00	2743.12	3.195	2746.315	508.0	15.58	3.767	2750.082		4.000			3		0	0.00
WALL ENTRANCE															
1029.00	2743.12	1.722	2744.842	508.0	24.59	9.385	2754.227	0.00	3.819		4.00	12.00	0.00	0	0.00
3.00	0.01000					.031578	0.09			2.524			0.00		
1032.00	2743.15	1.715	2744.865	508.0	24.69	9.465	2754.330	0.00	3.819		4.00	12.00	0.00	0	0.00
WALL EXIT													0.00		
1032.00	2743.15	3.613	2746.763	508.0	23.43	8.526	2755.289	0.00	4.000		4.00	6.00	0.00	0	0.00
TRANS STR	0.00000					.025721	0.15						0.00		
1038.00	2743.15	3.559	2746.709	508.0	23.79	8.786	2755.495	0.00	5.500		5.50	6.00	0.00	0	0.00
WALL EXIT													0.00		
1038.00	2743.15	4.852	2748.002	508.0	22.90	8.142	2756.144	0.00	5.374		5.50	0.00	0.00	0	0.00
164.45	0.02121					.020344	3.35			4.727			0.00		
1202.45	2746.64	4.949	2751.587	508.0	22.56	7.902	2759.489	0.00	5.374		5.50	0.00	0.00	0	0.00
309.85	0.02121					.020263	6.28			4.727			0.00		
1512.30	2753.21	5.374	2758.584	508.0	21.51	7.183	2765.767	0.00	5.374		5.50	0.00	0.00	0	0.00

WEST DETENTION BASIN
66"RCP TO 12'X4' CULVERT WITH (3) 2' WIDE X 1.0' HIGH BAFFLES
JOB #451-002 - LONEU1D.WSP



N O T E S
1. GLOSSARY
   I = INVERT ELEVATION
   C = CRITICAL DEPTH
   W = WATER SURFACE ELEVATION
   H = HEIGHT OF CHANNEL
   E = ENERGY GRADE LINE
   X = CURVES CROSSING OVER
   B = BRIDGE ENTRANCE OR EXIT
   Y = WALL ENTRANCE OR EXIT
2. STATIONS FOR POINTS AT A JUMP MAY NOT BE PLOTTED EXACTLY

rlee 06-30-04 10:03:33 F:\451-002\Drainage\fig\FIG-27.dwg gcw1117.dwg.020912.rin



STA 10+00.00
INV 2743.00 (WSPG CARD)
FLOW DIRECTION

GRAPHIC SCALE
(IN FEET)
1 inch = 40 ft.
40 0 20 40

NORTH

WESTERN SEGMENT OF THE LAS VEGAS BELTWAY

CRAIG ROAD TO HUALAPAI WAY

WSPG EXIHIBIT - LOND1BN.WSP

LONE MOUNTAIN COLLECTOR

FIG 27

SHEET OF SHTS

G.C. WALLACE, INC.
Engineers/Planners/Surveyors
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146
TELEPHONE: (702) 804-2000 • FAX: (702) 804-2299

LOND1BN

```
0
T1 WESTERN BELTWAY #451-002
T2 LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (NORTH HALF SHEET)
T3 74 CFS TOTAL, 37 CFS PER LEG - LOND1BN.WSP
SO    970.002709.85  2                          2710.45
TS   1000.002710.00  1      .026
R    1165.872749.00  1      .037
R    1279.422758.73  1      .013                          50.00
SH   1279.422758.73  1
CD   1  2              3.00   10.00
CD   2  1              3.00   32.00 3.00 3.00
```

0
Q 37.0

DATE: 6/30/2004
TIME: 7:23

F0515P
WATER SURFACE PROFILE - CHANNEL DEFINITION LISTING

CARD CODE	SECT NO	CHN TYPE	NO OF PIERS	AVE PIER WIDTH	HEIGHT 1 DIAMETER	BASE WIDTH	ZL	ZR	INV DROP	Y(1)	Y(2)	Y(3)	Y(4)	Y(5)	Y(6)	Y(7)	Y(8)	Y(9)	Y(10)
CD	1	2	0	0.00	3.00	10.00			0.00										
CD	2	1	0	0.00	3.00	32.00	3.00	3.00	0.00										

F 0 5 1 5 P

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO 1 IS -

WESTERN BELTWAY #451-002

HEADING LINE NO 2 IS -

LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (NORTH HALF SHEET)

HEADING LINE NO 3 IS -

74 CFS TOTAL, 37 CFS PER LEG - LOND1BN.WSP

F 0 5 1 5 P

WATER SURFACE PROFILE - ELEMENT CARD LISTING

ELEMENT NO 1 IS A SYSTEM OUTLET * * *

U/S DATA	STATION	INVERT	SECT	W S ELEV
	970.00	2709.85	2	2710.45

ELEMENT NO 2 IS A TRANSITION * * *

U/S DATA	STATION	INVERT	SECT	N
	1000.00	2710.00	1	0.026

ELEMENT NO 3 IS A REACH * * *

H	U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN
		1165.87	2749.00	1	0.037	0.00	0.00	0.00	0

ELEMENT NO 4 IS A REACH * * *

H	U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN
		1279.42	2758.73	1	0.013	50.00	0.00	0.00	0

ELEMENT NO 5 IS A SYSTEM HEADWORKS * *

U/S DATA	STATION	INVERT	SECT	W S ELEV
	1279.42	2758.73	1	0.00

NO EDIT ERRORS ENCOUNTERED-COMPUTATION IS NOW BEGINNING
** WARNING NO. 2 ** - WATER SURFACE ELEVATION GIVEN IS LESS THAN OR EQUALS INVERT ELEVATION IN HDWKDS, W.S.ELEV = INV + DC
LICENSEE: G.C. WALLACE, INCORPORATED

WATER SURFACE PROFILE LISTING

WESTERN BELTWAY #451-002

LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (NORTH HALF SHEET)

74 CFS TOTAL, 37 CFS PER LEG - LOND1BN.WSP

STATION / L/ELEM	INVERT ELEV / SO	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD / SF AVE	ENERGY GRD.EL. / HF	SUPER ELEV	CRITICAL DEPTH / NORM DEPTH	HGT/ DIA	BASE/ ID NO.	ZL / ZR	NO PIER	AVBPR
970.00	2709.85	0.600	2710.450	37.0	1.82	0.052	2710.502	0.00	0.343	3.00	32.00	3.00	0	0.00
TRANS STR	0.00500											3.00		
1000.00	2710.00	0.380	2710.380	37.0	9.74	1.472	2711.852	0.00	0.752	3.00	10.00	0.00	0	0.00
152.39	0.23512					.235455	35.88		0.380			0.00		
1152.39	2745.83	0.380	2746.211	37.0	9.74	1.472	2747.683	0.00	0.752	3.00	10.00	0.00	0	0.00
6.48	0.23512					.254802	1.65		0.380			0.00		
1158.87	2747.36	0.363	2747.718	37.0	10.20	1.617	2749.335	0.00	0.752	3.00	10.00	0.00	0	0.00
2.34	0.23512					.297075	0.70		0.380			0.00		

1161.21	2747.90	0.346	2748.250	37.0	10.70	1.779	2750.029	0.00	0.752		3.00	10.00	0.00	0
0.00														
1.45	0.23512					.346793	0.50			0.380			0.00	
1162.66	2748.24	0.330	2748.575	37.0	11.23	1.957	2750.532	0.00	0.752		3.00	10.00	0.00	0
0.00														
1.06	0.23512					.404906	0.43			0.380			0.00	
1163.72	2748.49	0.314	2748.809	37.0	11.77	2.152	2750.961	0.00	0.752		3.00	10.00	0.00	0
0.00														
0.84	0.23512					.472838	0.40			0.380			0.00	
1164.56	2748.69	0.300	2748.993	37.0	12.35	2.368	2751.361	0.00	0.752		3.00	10.00	0.00	0
0.00														
0.71	0.23512					.552259	0.39			0.380			0.00	
1165.27	2748.86	0.286	2749.144	37.0	12.95	2.604	2751.748	0.00	0.752		3.00	10.00	0.00	0
0.00														
0.60	0.23512					.645121	0.39			0.380			0.00	
1165.87	2749.00	0.272	2749.272	37.0	13.58	2.865	2752.137	1.15	0.752		3.00	10.00	0.00	0
0.00														
47.86	0.08569					.083988	4.02			0.272			0.00	
1213.73	2753.10	0.276	2753.377	37.0	13.40	2.789	2756.166	1.12	0.752		3.00	10.00	0.00	0
0.00														
25.42	0.08569					.076244	1.94			0.272			0.00	

□

STATION	INVERT	DEPTH	W.S.	Q	VEL	VEL	ENERGY	SUPER	CRITICAL		HGT/	BASE/	ZL	NO
AVBPR	ELEV	OF FLOW	ELEV			HEAD	GRD.EL.	ELEV	DEPTH		DIA	ID NO.		PIER
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR	
1239.15	2755.28	0.290	2755.569	37.0	12.78	2.536	2758.105	1.01	0.752		3.00	10.00	0.00	0
0.00														
10.60	0.08569					.065272	0.69			0.272			0.00	
1249.75	2756.19	0.304	2756.491	37.0	12.18	2.305	2758.796	0.92	0.752		3.00	10.00	0.00	0
0.00														
6.53	0.08569					.055888	0.36			0.272			0.00	
1256.28	2756.75	0.318	2757.065	37.0	11.62	2.096	2759.161	0.84	0.752		3.00	10.00	0.00	0
0.00														
4.63	0.08569					.047861	0.22			0.272			0.00	
1260.91	2757.14	0.334	2757.478	37.0	11.08	1.906	2759.384	0.76	0.752		3.00	10.00	0.00	0
0.00														
3.51	0.08569					.040994	0.14			0.272			0.00	
1264.42	2757.44	0.350	2757.794	37.0	10.56	1.732	2759.526	0.69	0.752		3.00	10.00	0.00	0
0.00														
2.77	0.08569					.035118	0.10			0.272			0.00	
1267.19	2757.68	0.367	2758.049	37.0	10.07	1.575	2759.624	0.63	0.752		3.00	10.00	0.00	0
0.00														
2.25	0.08569					.030090	0.07			0.272			0.00	
1269.44	2757.87	0.385	2758.260	37.0	9.60	1.431	2759.691	0.57	0.752		3.00	10.00	0.00	0
0.00														
1.86	0.08569					.025788	0.05			0.272			0.00	

1271.30	2758.03	0.404	2758.438	37.0	9.15	1.301	2759.739	0.52	0.752		3.00	10.00	0.00	0
0.00														
1.55	0.08569					.022105	0.03			0.272			0.00	
1272.85	2758.17	0.424	2758.591	37.0	8.73	1.183	2759.774	0.47	0.752		3.00	10.00	0.00	0
0.00														
1.30	0.08569					.018952	0.02			0.272			0.00	
1274.15	2758.28	0.445	2758.724	37.0	8.32	1.075	2759.799	0.43	0.752		3.00	10.00	0.00	0
0.00														
1.10	0.08569					.016252	0.02			0.272			0.00	
1275.25	2758.37	0.466	2758.839	37.0	7.93	0.978	2759.817	0.39	0.752		3.00	10.00	0.00	0
0.00														
0.92	0.08569					.013940	0.01			0.272			0.00	

LICENSEE: G.C. WALLACE, INCORPORATED F0515P PAGE 3

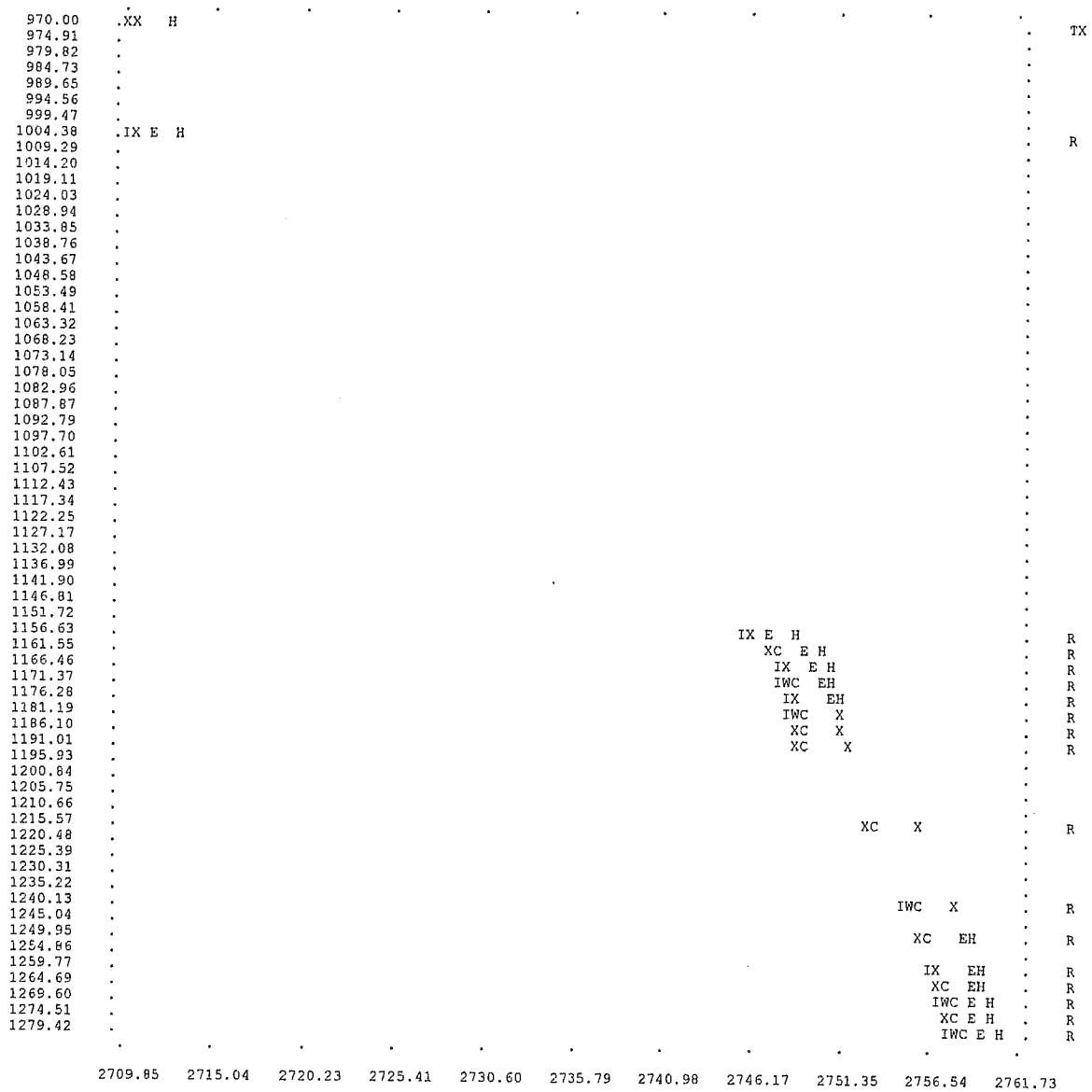
WATER SURFACE PROFILE LISTING

WESTERN BELTWAY #451-002

LONE MOUNTAIN DOWNSTREAM SIDE WEIR CHANNEL FACILITY (NORTH HALF SHEET)

74 CFS TOTAL, 37 CFS PER LEG - LOND1BN.WSP

STATION	INVERT ELEV	DEPTH OF FLOW	W.S. ELEV	Q	VEL	VEL HEAD	ENERGY GRD.EL.	SUPER ELEV	CRITICAL DEPTH		HGT/ DIA	BASE/ ID NO.	ZL	NO PIER
AVBPR														
L/ELEM	SO					SF AVE	HF			NORM DEPTH			ZR	
1276.17	2758.45	0.489	2758.941	37.0	7.56	0.889	2759.830	0.36	0.752		3.00	10.00	0.00	0
0.00														
0.77	0.08569					.011960	0.01			0.272			0.00	
1276.94	2758.52	0.513	2759.031	37.0	7.21	0.808	2759.839	0.32	0.752		3.00	10.00	0.00	0
0.00														
0.64	0.08569					.010264	0.01			0.272			0.00	
1277.58	2758.57	0.538	2759.111	37.0	6.88	0.734	2759.845	0.29	0.752		3.00	10.00	0.00	0
0.00														
0.53	0.08569					.008810	0.00			0.272			0.00	
1278.11	2758.62	0.564	2759.182	37.0	6.56	0.668	2759.850	0.27	0.752		3.00	10.00	0.00	0
0.00														
0.43	0.08569					.007565	0.00			0.272			0.00	
1278.54	2758.65	0.592	2759.246	37.0	6.25	0.607	2759.853	0.24	0.752		3.00	10.00	0.00	0
0.00														
0.33	0.08569					.006497	0.00			0.272			0.00	
1278.87	2758.68	0.621	2759.304	37.0	5.96	0.552	2759.856	0.22	0.752		3.00	10.00	0.00	0
0.00														
0.25	0.08569					.005582	0.00			0.272			0.00	
1279.12	2758.70	0.651	2759.355	37.0	5.68	0.502	2759.857	0.20	0.752		3.00	10.00	0.00	0
0.00														
0.17	0.08569					.004797	0.00			0.272			0.00	
1279.29	2758.72	0.683	2759.402	37.0	5.42	0.456	2759.858	0.18	0.752		3.00	10.00	0.00	0
0.00														
0.10	0.08569					.004124	0.00			0.272			0.00	
1279.39	2758.73	0.716	2759.443	37.0	5.17	0.415	2759.858	0.17	0.752		3.00	10.00	0.00	0
0.00														
0.03	0.08569					.003540	0.00			0.272			0.00	
1279.42	2758.73	0.752	2759.482	37.0	4.92	0.376	2759.858	0.15	0.752		3.00	10.00	0.00	0
0.00														



N O T E S
1. GLOSSARY
   I = INVERT ELEVATION
   C = CRITICAL DEPTH
   W = WATER SURFACE ELEVATION
   H = HEIGHT OF CHANNEL
   E = ENERGY GRADE LINE
   X = CURVES CROSSING OVER
   B = BRIDGE ENTRANCE OR EXIT
   Y = WALL ENTRANCE OR EXIT
2. STATIONS FOR POINTS AT A JUMP MAY NOT BE PLOTTED EXACTLY

1	0900	109	48.	303.1	25.2	*	1	2255	276	45.	250.9	23.2	*	2	1250	443	43.	200.6	21.2
1	0905	110	48.	302.8	25.2	*	1	2300	277	45.	250.6	23.1	*	2	1255	444	43.	200.3	21.2
1	0910	111	48.	302.5	25.2	*	1	2305	278	45.	250.3	23.1	*	2	1300	445	43.	200.0	21.2
1	0915	112	48.	302.1	25.2	*	1	2310	279	44.	250.0	23.1	*	2	1305	446	43.	199.7	21.2
1	0920	113	47.	301.8	25.2	*	1	2315	280	44.	249.7	23.1	*	2	1310	447	43.	199.4	21.1
1	0925	114	47.	301.5	25.1	*	1	2320	281	44.	249.3	23.1	*	2	1315	448	43.	199.1	21.1
1	0930	115	47.	301.2	25.1	*	1	2325	282	44.	249.0	23.1	*	2	1320	449	43.	198.8	21.1
1	0935	116	47.	300.8	25.1	*	1	2330	283	44.	248.7	23.1	*	2	1325	450	43.	198.5	21.1
1	0940	117	47.	300.5	25.1	*	1	2335	284	44.	248.4	23.1	*	2	1330	451	43.	198.2	21.1
1	0945	118	47.	300.2	25.1	*	1	2340	285	44.	248.1	23.1	*	2	1335	452	43.	197.9	21.1
1	0950	119	47.	299.9	25.1	*	1	2345	286	44.	247.8	23.0	*	2	1340	453	43.	197.6	21.1
1	0955	120	47.	299.5	25.1	*	1	2350	287	44.	247.5	23.0	*	2	1345	454	43.	197.3	21.1
1	1000	121	46.	299.2	25.1	*	1	2355	288	44.	247.2	23.0	*	2	1350	455	43.	197.0	21.1
1	1005	122	46.	298.9	25.0	*	2	0000	289	44.	246.9	23.0	*	2	1355	456	43.	196.7	21.0
1	1010	123	46.	298.6	25.0	*	2	0005	290	44.	246.6	23.0	*	2	1400	457	43.	196.4	21.0
1	1015	124	46.	298.3	25.0	*	2	0010	291	44.	246.3	23.0	*	2	1405	458	43.	196.1	21.0
1	1020	125	46.	297.9	25.0	*	2	0015	292	44.	246.0	23.0	*	2	1410	459	43.	195.9	21.0
1	1025	126	46.	297.6	25.0	*	2	0020	293	44.	245.7	23.0	*	2	1415	460	43.	195.6	21.0
1	1030	127	46.	297.3	25.0	*	2	0025	294	44.	245.4	22.9	*	2	1420	461	43.	195.3	21.0
1	1035	128	46.	297.0	25.0	*	2	0030	295	44.	245.1	22.9	*	2	1425	462	43.	195.0	21.0
1	1040	129	46.	296.7	24.9	*	2	0035	296	44.	244.8	22.9	*	2	1430	463	43.	194.7	21.0
1	1045	130	46.	296.4	24.9	*	2	0040	297	44.	244.5	22.9	*	2	1435	464	43.	194.4	21.0
1	1050	131	46.	296.0	24.9	*	2	0045	298	44.	244.2	22.9	*	2	1440	465	43.	194.1	20.9
1	1055	132	46.	295.7	24.9	*	2	0050	299	44.	243.8	22.9	*	2	1445	466	43.	193.8	20.9
1	1100	133	46.	295.4	24.9	*	2	0055	300	44.	243.5	22.9	*	2	1450	467	43.	193.5	20.9
1	1105	134	46.	295.1	24.9	*	2	0100	301	44.	243.2	22.9	*	2	1455	468	43.	193.2	20.9
1	1110	135	46.	294.8	24.9	*	2	0105	302	44.	242.9	22.8	*	2	1500	469	43.	192.9	20.9
1	1115	136	46.	294.5	24.9	*	2	0110	303	44.	242.6	22.8	*	2	1505	470	43.	192.6	20.9
1	1120	137	46.	294.2	24.8	*	2	0115	304	44.	242.3	22.8	*	2	1510	471	43.	192.3	20.9
1	1125	138	46.	293.8	24.8	*	2	0120	305	44.	242.0	22.8	*	2	1515	472	43.	192.0	20.9
1	1130	139	46.	293.5	24.8	*	2	0125	306	44.	241.7	22.8	*	2	1520	473	43.	191.7	20.8
1	1135	140	46.	293.2	24.8	*	2	0130	307	44.	241.4	22.8	*	2	1525	474	43.	191.4	20.8
1	1140	141	46.	292.9	24.8	*	2	0135	308	44.	241.1	22.8	*	2	1530	475	43.	191.1	20.8
1	1145	142	46.	292.6	24.8	*	2	0140	309	44.	240.8	22.8	*	2	1535	476	43.	190.9	20.8
1	1150	143	46.	292.3	24.8	*	2	0145	310	44.	240.5	22.8	*	2	1540	477	43.	190.6	20.8
1	1155	144	46.	291.9	24.8	*	2	0150	311	44.	240.2	22.7	*	2	1545	478	43.	190.3	20.8
1	1200	145	46.	291.6	24.8	*	2	0155	312	44.	239.9	22.7	*	2	1550	479	43.	190.0	20.8
1	1205	146	46.	291.3	24.7	*	2	0200	313	44.	239.6	22.7	*	2	1555	480	43.	189.7	20.8
1	1210	147	46.	291.0	24.7	*	2	0205	314	44.	239.3	22.7	*	2	1600	481	43.	189.4	20.8
1	1215	148	46.	290.7	24.7	*	2	0210	315	44.	239.0	22.7	*	2	1605	482	43.	189.1	20.7
1	1220	149	46.	290.4	24.7	*	2	0215	316	44.	238.7	22.7	*	2	1610	483	43.	188.8	20.7
1	1225	150	46.	290.1	24.7	*	2	0220	317	44.	238.4	22.7	*	2	1615	484	43.	188.5	20.7
1	1230	151	46.	289.7	24.7	*	2	0225	318	44.	238.1	22.7	*	2	1620	485	43.	188.2	20.7
1	1235	152	46.	289.4	24.7	*	2	0230	319	44.	237.8	22.6	*	2	1625	486	43.	187.9	20.7
1	1240	153	46.	289.1	24.7	*	2	0235	320	44.	237.5	22.6	*	2	1630	487	43.	187.6	20.7
1	1245	154	46.	288.8	24.6	*	2	0240	321	44.	237.1	22.6	*	2	1635	488	43.	187.3	20.7
1	1250	155	46.	288.5	24.6	*	2	0245	322	44.	236.8	22.6	*	2	1640	489	43.	187.0	20.7
1	1255	156	46.	288.2	24.6	*	2	0250	323	44.	236.5	22.6	*	2	1645	490	43.	186.7	20.7
1	1300	157	46.	287.8	24.6	*	2	0255	324	44.	236.2	22.6	*	2	1650	491	43.	186.5	20.6
1	1305	158	46.	287.5	24.6	*	2	0300	325	44.	235.9	22.6	*	2	1655	492	43.	186.2	20.6
1	1310	159	46.	287.2	24.6	*	2	0305	326	44.	235.6	22.6	*	2	1700	493	42.	185.9	20.6
1	1315	160	46.	286.9	24.6	*	2	0310	327	44.	235.3	22.6	*	2	1705	494	42.	185.6	20.6
1	1320	161	46.	286.6	24.6	*	2	0315	328	44.	235.0	22.5	*	2	1710	495	42.	185.3	20.6
1	1325	162	46.	286.3	24.5	*	2	0320	329	44.	234.7	22.5	*	2	1715	496	42.	185.0	20.6
1	1330	163	46.	286.0	24.5	*	2	0325	330	44.	234.4	22.5	*	2	1720	497	42.	184.7	20.6
1	1335	164	46.	285.6	24.5	*	2	0330	331	44.	234.1	22.5	*	2	1725	498	42.	184.4	20.6
1	1340	165	46.	285.3	24.5	*	2	0335	332	44.	233.8	22.5	*	2	1730	499	42.	184.1	20.6
1	1345	166	46.	285.0	24.5	*	2	0340	333	44.	233.5	22.5	*	2	1735	500	42.	183.8	20.5
1	1350	167	46.	284.7	24.5	*	2	0345	334	44.	233.2	22.5	*						

****

PEAK FLOW	TIME		MAXIMUM AVERAGE FLOW			
			6-HR	24-HR	72-HR	41.58-HR
+ (CFS)	(HR)					
		(CFS)				
+ 52.	6.25		49.	46.	42.	42.
		(INCHES)	.137	.515	.817	.817
		(AC-FT)	24.	91.	144.	144.

PEAK STORAGE	TIME	MAXIMUM AVERAGE STORAGE			
		6-HR	24-HR	72-HR	41.58-HR
+ (AC-FT)	(HR)				
313.	6.25	305.	274.	228.	228.

PEAK STAGE	TIME	MAXIMUM AVERAGE STAGE			
		6-HR	24-HR	72-HR	41.58-HR
+ (FEET)	(HR)				
25.65	6.25	25.31	24.05	21.35	21.35

CUMULATIVE AREA = 3.31 SQ MI

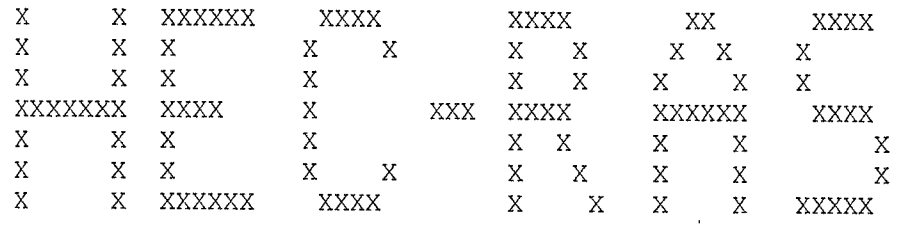
****

HYDROGRAPH AT STATION LMBWCDB
PLAN 1, RATIO = .98

****

DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE	DA	MON	HRMN	ORD	OUTFLOW	STORAGE	STAGE
1		0000	1	0.	.0	.0	1		1355	168	45.	276.0	24.1	2		0350	335	44.	224.8	22.1
1		0005	2	0.	.0	.0	1		1400	169	45.	275.7	24.1	2		0355	336	44.	224.5	22.1
1		0010	3	0.	.0	.0	1		1405	170	45.	275.3	24.1	2		0400	337	44.	224.2	22.1

HEC-RAS Version 3.1.1 May 2003
U.S. Army Corp of Engineers
Hydrologic Engineering Center
609 Second Street, Suite D
Davis, California 95616-4687
(916) 756-1104



PROJECT DATA
Project Title: Side Weir
Project File : LONU1A.prj
Run Date and Time: 6/29/2004 1:54:32 PM

Project in English units

PLAN DATA

Plan Title: west beltway
Plan File : f:\451-002\Drainage\calcs\ras\Side Weir West\LONU1A.p01

Geometry Title: side
Geometry File : f:\451-002\Drainage\calcs\ras\Side Weir West\LONU1A.g01

Flow Title : side
Flow File : f:\451-002\Drainage\calcs\ras\Side Weir West\LONU1A.f01

Plan Summary Information:

Number of:	Cross Sections	= 25	Mulitple Openings	=	0
	Culverts	= 0	Inline Structures	=	0
	Bridges	= 0	Lateral Structures	=	1

Computational Information

Water surface calculation tolerance	= 0.01
Critical depth calculaton tolerance	= 0.01
Maximum number of interations	= 20
Maximum difference tolerance	= 0.3
Flow tolerance factor	= 0.001

Computation Options
Critical depth computed at all cross sections
Conveyance Calculation Method: At breaks in n values only

Friction Slope Method: Average Conveyance
Computational Flow Regime: Mixed Flow

FLOW DATA

Flow Title: side
Flow File : f:\451-002\Drainage\calcs\ras\Side Weir West\LONU1A.f01

Flow Data (cfs)

River	Reach	RS	PF 1
side	side	1330	224

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
side	side	PF 1	Normal S = 0.04	Normal S = 0.04

GEOMETRY DATA

Geometry Title: side
Geometry File : f:\451-002\Drainage\calcs\ras\Side Weir West\LONU1A.g01

CROSS SECTION

RIVER: side
REACH: side RS: 1330

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	23.8	5	23.7	5.5	23.7	5.5	23.2	7	23.33
7	23.37	50	24.23						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	100	100	.1	.3

CROSS SECTION

RIVER: side
REACH: side RS: 1230

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	19.8	5	19.7	5.5	19.7	5.5	19.2	7	19.33
7	19.37	50	20.23						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	10	.1 .3

CROSS SECTION

RIVER: side
REACH: side RS: 1220

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	18.8	5	18.8	5.5	18.8	7	18.93	7	18.97
50	19.83								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	10	.1 .3

LATERAL STRUCTURE

RIVER: side
REACH: side RS: 1179

INPUT
Description:
Lateral structure position = Left overbank
Distance from Upstream XS = 0
Deck/Roadway Width = 5
Weir Coefficient = 3.1
Weir Flow Reference = Water Surface
Weir Embankment Coordinates num = 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	21.8	0	18.8	110	14.4	110	17.4

Weir crest shape = Broad Crested

LATERAL STRUCTURE OUTPUT Profile #PF 1 Lat Struct

E.G. US. (ft)	21.54	Weir Sta US (ft)	0.00
W.S. US. (ft)	19.73	Weir Sta DS (ft)	110.00
E.G. DS (ft)	15.80	Weir Max Depth (ft)	0.93
W.S. DS (ft)	14.83	Weir Avg Depth (ft)	0.66
Q US (cfs)	224.00	Weir Submerg	0.00
Q Leaving Total (cfs)	185.17	Min El Weir Flow (ft)	14.40
Q DS (cfs)	36.92	Wr Top Wdth (ft)	110.00
Perc Q Leaving	83.52	Q Gate Group (cfs)	
Q Weir (cfs)	185.17	Gate Open Ht (ft)	
Q Gates (cfs)		Gate #Open	
Q Culv (cfs)		Gate Area (sq ft)	
Q Lat RC (cfs)		Gate Submerg	
Weir Flow Area (sq ft)	72.52	Gate Invert (ft)	

CROSS SECTION

RIVER: side
REACH: side RS: 1172.72*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	18.4	5	18.4	5.5	18.4	7	18.53	7	18.57
50	19.43								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr. Expan.	
0	50	10	10	10	.1 .3

CROSS SECTION

RIVER: side
REACH: side RS: 1166.45*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	18	5	18	5.5	18	7	18.13	7	18.17
50	19.03								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

0	50	10	10	10	.1 .3

CROSS SECTION

RIVER: side
REACH: side RS: 1160.18*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	17.6	5	17.6	5.5	17.6	7	17.73	7	17.77
50	18.63								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

0	50	10	10	10	.1 .3

CROSS SECTION

RIVER: side
REACH: side RS: 1153.90*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	17.2	5	17.2	5.5	17.2	7	17.33	7	17.37
50	18.23								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

0	50	10	10	10	.1 .3

CROSS SECTION

RIVER: side
REACH: side RS: 1147.63*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	16.8	5	16.8	5.5	16.8	7	16.93	7	16.97

50 17.83

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	10	.1 .3

CROSS SECTION

RIVER: side
REACH: side RS: 1141.36*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	16.4	5	16.4	5.5	16.4	7	16.53	7	16.57
50	17.43								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	10	.1 .3

CROSS SECTION

RIVER: side
REACH: side RS: 1135.09*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	16	5	16	5.5	16	7	16.13	7	16.17
50	17.03								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	10	.1 .3

CROSS SECTION

RIVER: side
REACH: side RS: 1128.81*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	15.6	5	15.6	5.5	15.6	7	15.73	7	15.77
50	16.63								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	10	.1 .3

CROSS SECTION

RIVER: side
REACH: side RS: 1122.54*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	15.2	5	15.2	5.5	15.2	7	15.33	7	15.37
50	16.23								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	10	.1 .3

CROSS SECTION

RIVER: side
REACH: side RS: 1116.27*

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	14.8	5	14.8	5.5	14.8	7	14.93	7	14.97
50	15.83								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	10	.1 .3

CROSS SECTION

RIVER: side
REACH: side RS: 1110

INPUT
Description:
Station Elevation Data num= 6

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	14.4	5	14.4	5.5	14.4	7	14.53	7	14.57
50	15.43								

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr. Expan.	
0	50	10	10	10	.1 .3

CROSS SECTION

RIVER: side
REACH: side RS: 1100

INPUT
Description:
Station Elevation Data num= 7

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	14.6	5	14.5	5.5	14.5	5.5	14	7	14.13
7	14.17	50	15.03						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	50	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr. Expan.	
0	50	10	10	10	.1 .3

CROSS SECTION

RIVER: side
REACH: side RS: 1090.*

INPUT
Description:
Station Elevation Data num= 7

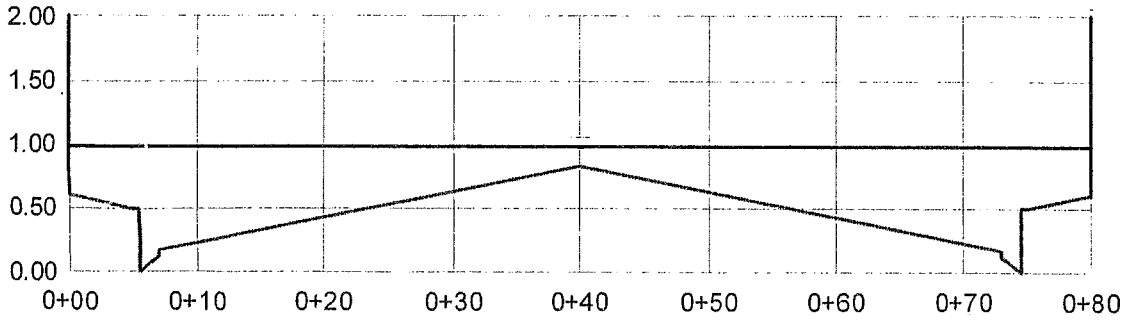
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	14.2	5	14.1	5.5	14.1	5.5	13.6	7	13.73
7	13.77	50	14.63						

Manning's n Values num= 3

80' R/W 448 CFS IN LONE MOUNTAIN
Cross Section for Irregular Channel

Project Description	
Worksheet	80' R/W 448 CFS IN LONE MOUN
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.016	
Channel Slope	0.040000	ft/ft
Water Surface Elevation	0.98	ft
Elevation Range	0.00 to 2.00	
Discharge	448.00	cfs



V:10.0
H:1
NTS

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G. C. Wallace Inc
37 Brookside Road Waterbury, CT 06708 USA +1-203-755-1666

80' R/W 448 CFS IN LONE MOUNTAIN
Worksheet for Irregular Channel

Project Description	
Worksheet	80' R/W 448 CFS IN LONE MOUN
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Channel Slope	0.040000	ft/ft
Discharge	448.00	cfs

Options	
Current Roughness Method	Improved Lotter's Method
Open Channel Weighting Method	Improved Lotter's Method
Closed Channel Weighting Metho	Horton's Method

Results		
Mannings Coefficient	0.016	
Water Surface Elevation	0.98	ft
Elevation Range	0.00 to 2.00	
Flow Area	39.3	ft²
Wetted Perimeter	81.87	ft
Top Width	80.00	ft
Actual Depth	0.98	ft
Critical Elevation	1.48	ft
Critical Slope	0.003921	ft/ft
Velocity	11.39	ft/s
Velocity Head	2.02	ft
Specific Energy	3.00	ft
Froude Number	2.86	
Flow Type	Supercritical	

Roughness Segments

Start Station	End Station	Mannings Coefficient
0+00	0+80	0.016

Natural Channel Points

Station (ft)	Elevation (ft)
0+00	2.00
0+00	0.60
0+05	0.50
0+06	0.50
0+06	0.00
0+07	0.13
0+07	0.17
0+40	0.83
0+73	0.17
0+73	0.13
0+75	0.00
0+75	0.50

80' R/W 448 CFS IN LONE MOUNTAIN
Worksheet for Irregular Channel

Natural Channel Points	
Station (ft)	Elevation (ft)
0+75	0.50
0+80	0.60
0+80	2.00

CRAIG ROAD TO HUALAPAI WAY
FACILITIES COST ESTIMATE ALTERNATIVE 3

FACILITY #	SHEET #	FACILITY DESCRIPTION	QUANTITY	UNIT	COST	TOTAL
8A	SD-2, 3	40' DEPRESSED CURB	140	LF	$180.00	$25,200.00
8B	SD-2, 4	2' HIGH GROUTED STEM WALL	1300	CF	$7.50	$9,750.00
8C	SD-2, 3	3' GRATED INLET	1	LS	$2,500.00	$2,500.00
8E	SD-2, 3	20' WIDE FLUME	120	LF	$220.00	$26,400.00
8F	SD-2	20' FLUME WITH GROUTED RIP RAP	160	LF	$220.00	$35,200.00
8G	SD-2	CONCRETE PAD	625	LF	$7.50	$4,687.50
						$103,737.50
9A	SD-2, 3	40' DEPRESSED CURB	140	LF	$180.00	$25,200.00
9B	SD-2, 4	2' HIGH GROUTED STEM WALL	1200	CF	$7.50	$9,000.00
9C	SD-2, 3	3' GRATED INLET	1	LS	$2,500.00	$2,500.00
9E	SD-2, 3	20' WIDE FLUME	200	CY	$220.00	$44,000.00
9F	SD-2, 3	20' FLUME WITH GROUTED RIP RAP	200	CY	$220.00	$44,000.00
9G	SD-2, 3	CONCRETE PAD	625	CY	$7.50	$4,687.50
						$129,387.50
					TOTAL	**$233,125.00**

APPENDIX D

South Detention Basin Facilities

Peaceful Dawn Stepped Spillway Calculations
HEC-RAS Model of the Peaceful Dawn Stepped Spillway
Maintenance Road Culvert HY-8 Model
Flowmaster Calculations
South Channel WSPG Model
South Channel Dual 54-inch RCP Calculations
South Channel Impact Basin Calculations
36-inch RCP Drain Low Flow System Calculations

Peaceful Dawn Stepped Spillway Calculations

DATE June 21, 2004

CLIENT Western Segment of the Las Vegas Beltway - Craig Road to Hualapai Way JOB NO 451.002 CALC BY

DESCRIPTION Peaceful Dawn Stepped Spillway CHECKED BY

Assume a 10' wide spillway with vertical walls

Weir Equation:

$Q = CLH^{3/2}$

Q = Flow, cfs

C = Weir coefficient (3.0 for broad crested weir)

H = Head, ft

$431\ FT^3/sec = (3.0)(10')\sqrt{H^3}$

$H = \left(\frac{341}{(3.0)(10)}\right)^{2/3}$

H = 5.06' = depth of flow upstream of spillway

Stepped Inflow Spillway:

Crest Elevation: 2860

Bottom Elevation: 2760

Total Drop = 100'

2' step → 50 steps $N * h = 100'$

Critical @ Crest:

Unit Discharge: $q_c = \frac{Q}{L} = \frac{341\ FT^3/sec}{10'} = 34.1\ cfs/ft$

$y_c = \sqrt[3]{\frac{q_c^2}{g}} = 3.31'$ Critical depth

$V_c = \sqrt{g y_c} = 10.32\ FT/sec$ Critical velocity

$H_c = y_c + V_c^2/2g = 4.96'$ Energy at crest

$H_o = Nh + H_c = 100' + 4.96' = 104.96'$

From Christodoulo for $y_c/Nh \leq 0.25$

$\frac{\Delta H}{H} = \exp\left[-30\left(\frac{y_c}{Nh}\right)^2\right]$

$= \exp\left[-30\left(\frac{3.31}{100}\right)^2\right] = 0.97$

$\Delta H = 0.97 * H$

EN-3-N
3/66

G. C. WALLACE, INC.
Engineers/Planners/Surveyors
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146

SHEET ____ OF ____

DATE

CLIENT JOB NO CALC BY

DESCRIPTION CHECKED BY

$\Delta H = 0.97H$ AND $H = H_0 - \Delta H$

$H = H_0 - 0.97H$

$H = 104.96" - 97 = 8.0$ SPECIFIC ENERGY AT BOTTOM OF DROP

$H = y + \frac{V^2}{2g}$ AND $V = Q/A = \frac{34.1 \text{ cfs}}{10ft(y)} = \frac{34.1}{y}$

$8.0 = y + \frac{\left(\frac{34.1}{y}\right)^2}{64.4}$ $\Rightarrow$ $8.0 = y + \frac{1}{y^2}(18.0)$

$y = 1.69$

$V = \frac{34.1}{(10)(1.69)} = 20.18 \text{ ft/sec}$

$Fr = \frac{V}{\sqrt{gy}} = \frac{20.18}{\sqrt{(1.69)(32.2)}} = 2.74$ $\therefore y = 1.69 = y_1$

$y_2 = \frac{y_1}{2}\left(\sqrt{1 + 8Fr_1^2} - 1\right) = \frac{1.69}{2}\left(\sqrt{1 + 8(2.74)^2} - 1\right) = 5.75$

HEC-RAS Model of the Peaceful Dawn Stepped Spillway

HEC-RAS Version 3.1.1 May 2003
U.S. Army Corp of Engineers
Hydrologic Engineering Center
609 Second Street, Suite D
Davis, California 95616-4687
(916) 756-1104

```
X     X  XXXXXX    XXXX        XXXX       XX      XXXX
X     X  X        X    X       X   X     X  X    X
X     X  X        X            X   X    X    X   X
XXXXXXX  XXXX     X       XXX  XXXX     XXXXXX    XXXX
X     X  X        X            X  X     X    X        X
X     X  X        X    X       X   X    X    X        X
X     X  XXXXXX    XXXX        X    X   X    X   XXXXX
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****

PROJECT DATA
Project Title: Peaceful Dawn to DB
Project File : PeacefulDawnToDB.prj
Run Date and Time: 7/20/2004 8:35:57 AM

Project in English units

****

PLAN DATA

Plan Title: n=0.065
Plan File : f:\451-002\Drainage\hecras\PeacefulDawnToDB.p03

Geometry Title: Extended Concrete Pads
Geometry File : f:\451-002\Drainage\hecras\PeacefulDawnToDB.g02

Flow Title : Trial1
Flow File : f:\451-002\Drainage\hecras\PeacefulDawnToDB.f01

Plan Summary Information:
Number of: Cross Sections = 98 Mulitple Openings = 0
Culverts = 1 Inline Structures = 0
Bridges = 0 Lateral Structures = 0

Computational Information
Water surface calculation tolerance = 0.01
Critical depth calculaton tolerance = 0.01
Maximum number of interations = 20
Maximum difference tolerance = 0.3
Flow tolerance factor = 0.001

Computation Options
Critical depth computed only where necessary
Conveyance Calculation Method: At breaks in n values only
Friction Slope Method: Average Conveyance
Computational Flow Regime: Mixed Flow

****

FLOW DATA

Flow Title: Trial1
Flow File : f:\451-002\Drainage\hecras\PeacefulDawnToDB.f01

Flow Data (cfs)

River	Reach	RS	PF 1
Peaceful D to DB	Main	1310	400

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
Peaceful D to DB	Main	PF 1	Normal S = 0.04	Normal S = 0.001

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GEOMETRY DATA

Geometry Title: Extended Concrete Pads
Geometry File : f:\451-002\Drainage\hecras\PeacefulDawnToDB.g02

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1310

INPUT
Description:
Station Elevation Data num= 15

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2859.25	.01	2857.85	5	2857.75	5.5	2857.75	5.51	2857.25
7	2857.38	7	2857.42	30	2857.88	53.01	2857.42	53.01	2857.38
54.5	2857.25	54.51	2857.75	55	2857.75	59.99	2857.85	60	2859.25

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.013	7	.016	53.01	.013

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
7	53.01	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2860.65	Element	Left OB	0.013	Channel	0.016	Right OB	0.013
Vel Head (ft)	2.45	Wt. n-Val.						
W.S. Elev (ft)	2858.19	Reach Len. (ft)	10.00		10.00		10.00	
Crit W.S. (ft)	2858.77	Flow Area (sq ft)	3.49		24.90		3.48	
E.G. Slope (ft/ft)	*0.040060	Area (sq ft)	3.49		24.90		3.48	
Q Total (cfs)	400.00	Flow (cfs)	46.33		307.40		46.27	
Top Width (ft)	59.98	Top Width (ft)	6.99		46.01		6.98	
Vel Total (ft/s)	12.55	Avg. Vel. (ft/s)	13.29		12.34		13.29	
Max Chl Dpth (ft)	0.94	Hydr. Depth (ft)	0.50		0.54		0.50	
Conv. Total (cfs)	1998.5	Conv. (cfs)	231.5		1535.8		231.2	
Length Wtd. (ft)	10.00	Wetted Per. (ft)	7.87		46.02		7.86	
Min Ch El (ft)	2857.38	Shear (lb/sq ft)	1.11		1.35		1.11	
Alpha	1.00	Stream Power (lb/ft s)	14.73		16.71		14.73	
Frctn Loss (ft)		Cum Volume (acre-ft)	0.01		1.13		0.01	
C & E Loss (ft)		Cum SA (acres)	0.01		1.12		0.01	

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1300.*

INPUT
Description:
Station Elevation Data num= 15

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2859	.01	2857.6	5	2857.5	5.5	2857.5	5.51	2857
7	2857.13	7	2857.17	33.75	2857.7	60.51	2857.17	60.51	2857.13
62	2857	62.01	2857.5	62.5	2857.5	67.49	2857.6	67.5	2859

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.013	7	.016	60.51	.013

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
7	60.51	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2860.18	Element	Left OB	Channel	Right OB

* Vel Head (ft)	* 2.25	* Wt. n-Val.	* 0.013	* 0.016	* 0.013 *
* W.S. Elev (ft)	* 2857.93	* Reach Len. (ft)	* 10.00	* 10.00	* 10.00 *
* Crit W.S. (ft)	* 2858.46	* Flow Area (sq ft)	* 3.41	* 26.51	* 3.41 *
* E.G. Slope (ft/ft)	*0.040477	* Area (sq ft)	* 3.41	* 26.51	* 3.41 *
* Q Total (cfs)	* 400.00	* Flow (cfs)	* 44.95	* 310.15	* 44.90 *
* Top Width (ft)	* 67.48	* Top Width (ft)	* 6.99	* 53.51	* 6.98 *
* Vel Total (ft/s)	* 12.00	* Avg. Vel. (ft/s)	* 13.18	* 11.70	* 13.18 *
* Max Chl Dpth (ft)	* 0.93	* Hydr. Depth (ft)	* 0.49	* 0.50	* 0.49 *
* Conv. Total (cfs)	* 1988.2	* Conv. (cfs)	* 223.4	* 1541.6	* 223.2 *
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	* 7.86	* 53.52	* 7.85 *
* Min Ch El (ft)	* 2857.13	* Shear (lb/sq ft)	* 1.10	* 1.25	* 1.10 *
* Alpha	* 1.01	* Stream Power (lb/ft s)	* 14.46	* 14.64	* 14.46 *
* Frctn Loss (ft)	* 0.40	* Cum Volume (acre-ft)	* 0.01	* 1.12	* 0.01 *
* C & E Loss (ft)	* 0.06	* Cum SA (acres)	* 0.01	* 1.11	* 0.01 *

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1290.*

INPUT
Description:
Station Elevation Data num= 15

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2858.75	.01	2857.35	5	2857.25	5.5	2857.25	5.51	2856.75
7	2856.88	7	2856.92	37.5	2857.53	68.01	2856.92	68.01	2856.88
69.5	2856.75	69.51	2857.25	70	2857.25	74.99	2857.35	75	2858.75

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.013	7	.016	68.01	.013

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
7	68.01	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2859.72	* Element	* Left OB	* Channel	* Right OB *
* Vel Head (ft)	* 2.03	* Wt. n-Val.	* 0.013	* 0.016	* 0.013 *
* W.S. Elev (ft)	* 2857.69	* Reach Len. (ft)	* 10.00	* 10.00	* 10.00 *
* Crit W.S. (ft)	* 2858.18	* Flow Area (sq ft)	* 3.47	* 28.34	* 3.47 *
* E.G. Slope (ft/ft)	*0.038512	* Area (sq ft)	* 3.47	* 28.34	* 3.47 *
* Q Total (cfs)	* 400.00	* Flow (cfs)	* 45.17	* 309.71	* 45.12 *
* Top Width (ft)	* 74.98	* Top Width (ft)	* 6.99	* 61.01	* 6.98 *
* Vel Total (ft/s)	* 11.34	* Avg. Vel. (ft/s)	* 13.01	* 10.93	* 13.01 *
* Max Chl Dpth (ft)	* 0.94	* Hydr. Depth (ft)	* 0.50	* 0.46	* 0.50 *
* Conv. Total (cfs)	* 2038.3	* Conv. (cfs)	* 230.2	* 1578.2	* 229.9 *
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	* 7.87	* 61.02	* 7.86 *
* Min Ch El (ft)	* 2856.88	* Shear (lb/sq ft)	* 1.06	* 1.12	* 1.06 *
* Alpha	* 1.02	* Stream Power (lb/ft s)	* 13.81	* 12.20	* 13.81 *
* Frctn Loss (ft)	* 0.39	* Cum Volume (acre-ft)	* 0.01	* 1.11	* 0.01 *
* C & E Loss (ft)	* 0.07	* Cum SA (acres)	* 0.01	* 1.10	* 0.01 *

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1280.*

INPUT
Description:
Station Elevation Data num= 15

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2858.5	.01	2857.1	5	2857	5.5	2857	5.51	2856.5
7	2856.63	7	2856.67	41.25	2857.35	75.51	2856.67	75.51	2856.63
77	2856.5	77.01	2857	77.5	2857	82.49	2857.1	82.5	2858.5

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.013	7	.016	75.51	.013

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
7	75.51	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2859.28	* Element	* Left OB	* Channel	* Right OB *
* Vel Head (ft)	* 1.83	* Wt. n-Val.	* 0.013	* 0.016	* 0.013 *
* W.S. Elev (ft)	* 2857.45	* Reach Len. (ft)	* 10.00	* 10.00	* 10.00 *
* Crit W.S. (ft)	* 2857.90	* Flow Area (sq ft)	* 3.56	* 30.27	* 3.56 *
* E.G. Slope (ft/ft)	*0.035941	* Area (sq ft)	* 3.56	* 30.27	* 3.56 *
* Q Total (cfs)	* 400.00	* Flow (cfs)	* 45.43	* 309.19	* 45.37 *
* Top Width (ft)	* 82.49	* Top Width (ft)	* 6.99	* 68.51	* 6.98 *
* Vel Total (ft/s)	* 10.70	* Avg. Vel. (ft/s)	* 12.76	* 10.21	* 12.76 *
* Max Chl Dpth (ft)	* 0.95	* Hydr. Depth (ft)	* 0.51	* 0.44	* 0.51 *
* Conv. Total (cfs)	* 2109.9	* Conv. (cfs)	* 239.6	* 1630.9	* 239.3 *
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	* 7.88	* 68.52	* 7.87 *
* Min Ch El (ft)	* 2856.63	* Shear (lb/sq ft)	* 1.01	* 0.99	* 1.01 *
* Alpha	* 1.03	* Stream Power (lb/ft s)	* 12.94	* 10.12	* 12.94 *
* Frctn Loss (ft)	* 0.37	* Cum Volume (acre-ft)	* 0.00	* 1.11	* 0.00 *
* C & E Loss (ft)	* 0.06	* Cum SA (acres)	* 0.01	* 1.08	* 0.01 *

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1270

INPUT
Description:
Station Elevation Data num= 15

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2858.25	.01	2856.85	5	2856.75	5.5	2856.75	5.51	2856.25
7	2856.38	7	2856.42	45	2857.18	83.01	2856.42	83.01	2856.38
84.5	2856.25	84.51	2856.75	85	2856.75	89.99	2856.85	90	2858.25

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.013	7	.016	83.01	.013

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
7	83.01	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2858.88	* Element	* Left OB	* Channel	* Right OB *
* Vel Head (ft)	* 1.65	* Wt. n-Val.	* 0.013	* 0.016	* 0.013 *
* W.S. Elev (ft)	* 2857.22	* Reach Len. (ft)	* 10.00	* 10.00	* 10.00 *
* Crit W.S. (ft)	* 2857.64	* Flow Area (sq ft)	* 3.71	* 32.19	* 3.71 *
* E.G. Slope (ft/ft)	*0.033130	* Area (sq ft)	* 3.71	* 32.19	* 3.71 *
* Q Total (cfs)	* 400.00	* Flow (cfs)	* 46.64	* 306.78	* 46.58 *
* Top Width (ft)	* 89.99	* Top Width (ft)	* 6.99	* 76.01	* 6.98 *
* Vel Total (ft/s)	* 10.10	* Avg. Vel. (ft/s)	* 12.57	* 9.53	* 12.57 *
* Max Chl Dpth (ft)	* 0.97	* Hydr. Depth (ft)	* 0.53	* 0.42	* 0.53 *
* Conv. Total (cfs)	* 2197.6	* Conv. (cfs)	* 256.3	* 1685.4	* 255.9 *
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	* 7.90	* 76.03	* 7.89 *
* Min Ch El (ft)	* 2856.38	* Shear (lb/sq ft)	* 0.97	* 0.88	* 0.97 *
* Alpha	* 1.04	* Stream Power (lb/ft s)	* 12.21	* 8.35	* 12.21 *
* Frctn Loss (ft)	* 0.34	* Cum Volume (acre-ft)	* 0.00	* 1.10	* 0.00 *
* C & E Loss (ft)	* 0.05	* Cum SA (acres)	* 0.01	* 1.07	* 0.01 *

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1260.*

INPUT
Description:
Station Elevation Data num= 15

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2858	.01	2856.6	5	2856.5	5.5	2856.5	5.51	2856

7	2856.13	7	2856.17	40	2856.83	73.01	2856.17	73.01	2856.13		
74.5	2856	74.51	2856.5	75	2856.5	79.99	2856.6	80	2858		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.013	7	.016	73.01	.013

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
7	73.01	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2858.55	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.55	Wt. n-Val.	0.013	0.016	0.013
W.S. Elev (ft)	2857.00	Reach Len. (ft)	10.00	10.00	10.00
Crit W.S. (ft)	2857.41	Flow Area (sq ft)	3.86	32.70	3.86
E.G. Slope (ft/ft)	*0.026701	Area (sq ft)	3.86	32.70	3.86
Q Total (cfs)	400.00	Flow (cfs)	44.72	310.62	44.66
Top Width (ft)	79.99	Top Width (ft)	6.99	66.01	6.98
Vel Total (ft/s)	9.90	Avg. Vel. (ft/s)	11.57	9.50	11.57
Max Chl Dpth (ft)	1.00	Hydr. Depth (ft)	0.55	0.50	0.55
Conv. Total (cfs)	2447.9	Conv. (cfs)	273.7	1900.9	273.3
Length Wtd. (ft)	10.00	Wetted Per. (ft)	7.92	66.02	7.91
Min Ch El (ft)	2856.13	Shear (lb/sq ft)	0.81	0.83	0.81
Alpha	1.02	Stream Power (lb/ft s)	9.41	7.84	9.41
Frctn Loss (ft)	0.30	Cum Volume (acre-ft)	0.00	1.09	0.00
C & E Loss (ft)	0.03	Cum SA (acres)	0.00	1.05	0.00

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1250.*

INPUT
Description:
Station Elevation Data num= 15

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2857.75	.01	2856.35	5	2856.25	5.5	2856.25	5.51	2855.75
7	2855.88	7	2855.92	35	2856.48	63.01	2855.92	63.01	2855.88
64.5	2855.75	64.51	2856.25	65	2856.25	69.99	2856.35	70	2857.75

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.013	7	.016	63.01	.013

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
7	63.01	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2858.29	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.50	Wt. n-Val.	0.013	0.016	0.013
W.S. Elev (ft)	2856.78	Reach Len. (ft)	10.00	10.00	10.00
Crit W.S. (ft)	2857.20	Flow Area (sq ft)	4.12	32.59	4.11
E.G. Slope (ft/ft)	*0.021703	Area (sq ft)	4.12	32.59	4.11
Q Total (cfs)	400.00	Flow (cfs)	44.70	310.65	44.64
Top Width (ft)	69.99	Top Width (ft)	6.99	56.01	6.98
Vel Total (ft/s)	9.80	Avg. Vel. (ft/s)	10.85	9.53	10.85
Max Chl Dpth (ft)	1.03	Hydr. Depth (ft)	0.59	0.58	0.59
Conv. Total (cfs)	2715.2	Conv. (cfs)	303.4	2108.7	303.0
Length Wtd. (ft)	10.00	Wetted Per. (ft)	7.96	56.02	7.95
Min Ch El (ft)	2855.88	Shear (lb/sq ft)	0.70	0.79	0.70
Alpha	1.01	Stream Power (lb/ft s)	7.61	7.51	7.61
Frctn Loss (ft)	0.24	Cum Volume (acre-ft)	0.00	1.09	0.00
C & E Loss (ft)	0.01	Cum SA (acres)	0.00	1.04	0.00

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1240

INPUT
Description:
Station Elevation Data num= 15

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2857.5	.01	2856.1	5	2856	5.5	2856	5.51	2855.5
7	2855.63	7	2855.67	30	2856.13	53.01	2855.67	53.01	2855.63
54.5	2855.5	54.51	2856	55	2856	59.99	2856.1	60	2857.5

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.013	7	.016	53.01	.013

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
7	53.01	20	20	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2858.08	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.49	Wt. n-Val.	0.013	0.016	0.013
W.S. Elev (ft)	2856.59	Reach Len. (ft)	20.00	20.00	20.00
Crit W.S. (ft)	2857.02	Flow Area (sq ft)	4.53	31.80	4.53
E.G. Slope (ft/ft)	*0.017584	Area (sq ft)	4.53	31.80	4.53
Q Total (cfs)	400.00	Flow (cfs)	46.98	306.10	46.92
Top Width (ft)	59.99	Top Width (ft)	6.99	46.01	6.98
Vel Total (ft/s)	9.79	Avg. Vel. (ft/s)	10.36	9.63	10.36
Max Chl Dpth (ft)	1.09	Hydr. Depth (ft)	0.65	0.69	0.65
Conv. Total (cfs)	3016.5	Conv. (cfs)	354.3	2308.4	353.8
Length Wtd. (ft)	20.00	Wetted Per. (ft)	8.02	46.02	8.01
Min Ch El (ft)	2855.63	Shear (lb/sq ft)	0.62	0.76	0.62
Alpha	1.00	Stream Power (lb/ft s)	6.43	7.30	6.43
Frctn Loss (ft)	0.19	Cum Volume (acre-ft)	0.00	1.08	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	1.02	0.00

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1220

INPUT
Description: Connects to Culvert
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2865	0	2855	40	2855	40	2865

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	40	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	40	9.17	9.17	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2857.25	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.00	Wt. n-Val.		0.065	
W.S. Elev (ft)	2856.25	Reach Len. (ft)	9.17	9.17	9.17
Crit W.S. (ft)	2856.46	Flow Area (sq ft)		49.94	
E.G. Slope (ft/ft)	*0.098984	Area (sq ft)		49.94	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	40.00	Top Width (ft)		40.00	
Vel Total (ft/s)	8.01	Avg. Vel. (ft/s)		8.01	
Max Chl Dpth (ft)	1.25	Hydr. Depth (ft)		1.25	
Conv. Total (cfs)	1271.4	Conv. (cfs)		1271.4	
Length Wtd. (ft)	9.17	Wetted Per. (ft)		42.50	
Min Ch El (ft)	2855.00	Shear (lb/sq ft)		7.26	
Alpha	1.00	Stream Power (lb/ft s)		58.16	
Frctn Loss (ft)	0.70	Cum Volume (acre-ft)		1.06	
C & E Loss (ft)	0.15	Cum SA (acres)		1.00	

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1210.83*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2860.83	0	2850.83	35	2850.83	35	2860.83

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	35	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	35	9.17	9.17	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2855.11	Element	Left OB	Channel / Right OB
Vel Head (ft)	3.52	Wt. n-Val.		0.065
W.S. Elev (ft)	2851.59	Reach Len. (ft)	9.17	9.17 / 9.17
Crit W.S. (ft)	2852.42	Flow Area (sq ft)		26.56
E.G. Slope (ft/ft)	*0.663736	Area (sq ft)		26.56
Q Total (cfs)	400.00	Flow (cfs)		400.00
Top Width (ft)	35.00	Top Width (ft)		35.00
Vel Total (ft/s)	15.06	Avg. Vel. (ft/s)		15.06
Max Chl Dpth (ft)	0.76	Hydr. Depth (ft)		0.76
Conv. Total (cfs)	491.0	Conv. (cfs)		491.0
Length Wtd. (ft)	9.17	Wetted Per. (ft)		36.52
Min Ch El (ft)	2850.83	Shear (lb/sq ft)		30.14
Alpha	1.00	Stream Power (lb/ft s)		453.89
Frctn Loss (ft)	1.89	Cum Volume (acre-ft)		1.05
C & E Loss (ft)	0.25	Cum SA (acres)		1.00

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.
Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1201.66*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2856.67	0	2846.67	30	2846.67	30	2856.67

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	30	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	30	9.17	9.17	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2850.43	Element	Left OB	Channel / Right OB
Vel Head (ft)	2.76	Wt. n-Val.		0.065
W.S. Elev (ft)	2847.67	Reach Len. (ft)	9.17	9.17 / 9.17
Crit W.S. (ft)	2848.43	Flow Area (sq ft)		30.00
E.G. Slope (ft/ft)	*0.370754	Area (sq ft)		30.00
Q Total (cfs)	400.00	Flow (cfs)		400.00
Top Width (ft)	30.00	Top Width (ft)		30.00
Vel Total (ft/s)	13.33	Avg. Vel. (ft/s)		13.33
Max Chl Dpth (ft)	1.00	Hydr. Depth (ft)		1.00
Conv. Total (cfs)	656.9	Conv. (cfs)		656.9
Length Wtd. (ft)	9.17	Wetted Per. (ft)		32.00
Min Ch El (ft)	2846.67	Shear (lb/sq ft)		21.70
Alpha	1.00	Stream Power (lb/ft s)		289.33
Frctn Loss (ft)	4.45	Cum Volume (acre-ft)		1.05
C & E Loss (ft)	0.23	Cum SA (acres)		0.99

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1192.5*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2852.5	0	2842.5	25	2842.5	25	2852.5

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	25	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	25	9.17	9.17	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2846.87	Element	Left OB	Channel / Right OB
Vel Head (ft)	3.27	Wt. n-Val.		0.065
W.S. Elev (ft)	2843.60	Reach Len. (ft)	9.17	9.17 / 9.17
Crit W.S. (ft)	2844.49	Flow Area (sq ft)		27.58
E.G. Slope (ft/ft)	*0.395448	Area (sq ft)		27.58
Q Total (cfs)	400.00	Flow (cfs)		400.00
Top Width (ft)	25.00	Top Width (ft)		25.00
Vel Total (ft/s)	14.51	Avg. Vel. (ft/s)		14.51
Max Chl Dpth (ft)	1.10	Hydr. Depth (ft)		1.10
Conv. Total (cfs)	636.1	Conv. (cfs)		636.1
Length Wtd. (ft)	9.17	Wetted Per. (ft)		27.21
Min Ch El (ft)	2842.50	Shear (lb/sq ft)		25.02
Alpha	1.00	Stream Power (lb/ft s)		362.98
Frctn Loss (ft)	3.51	Cum Volume (acre-ft)		1.04
C & E Loss (ft)	0.05	Cum SA (acres)		0.98

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1183.33*

INPUT
Description:

Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2848.33	0	2838.33	20	2838.33	20	2848.33

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	20	.065

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

Left	Right	Left	Channel	Right	Coeff Contr.	Expan.
0	20		9.17	9.17	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2843.30	Element	Left OB	Channel	Right OB
Vel Head (ft)	3.67	Wt. n-Val.		0.065	
W.S. Elev (ft)	2839.63	Reach Len. (ft)	9.17	9.17	9.17
Crit W.S. (ft)	2840.64	Flow Area (sq ft)		26.04	
E.G. Slope (ft/ft)	*0.374102	Area (sq ft)		26.04	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	20.00	Top Width (ft)		20.00	
Vel Total (ft/s)	15.36	Avg. Vel. (ft/s)		15.36	
Max Chl Dpth (ft)	1.30	Hydr. Depth (ft)		1.30	
Conv. Total (cfs)	654.0	Conv. (cfs)		654.0	
Length Wtd. (ft)	9.17	Wetted Per. (ft)		22.60	
Min Ch El (ft)	2838.33	Shear (lb/sq ft)		26.90	
Alpha	1.00	Stream Power (lb/ft s)		413.30	
Frctn Loss (ft)	3.53	Cum Volume (acre-ft)		1.03	
C & E Loss (ft)	0.04	Cum SA (acres)		0.98	

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1174.16*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2844.17	0	2834.17	15	2834.17	15	2844.17

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	15	.065

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

Left	Right	Left	Channel	Right	Coeff Contr.	Expan.
0	15		9.17	9.17	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2839.95	Element	Left OB	Channel	Right OB
Vel Head (ft)	4.15	Wt. n-Val.		0.065	
W.S. Elev (ft)	2835.80	Reach Len. (ft)	9.17	9.17	9.17
Crit W.S. (ft)	2836.97	Flow Area (sq ft)		24.46	
E.G. Slope (ft/ft)	*0.346620	Area (sq ft)		24.46	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	15.00	Top Width (ft)		15.00	
Vel Total (ft/s)	16.35	Avg. Vel. (ft/s)		16.35	
Max Chl Dpth (ft)	1.63	Hydr. Depth (ft)		1.63	
Conv. Total (cfs)	679.4	Conv. (cfs)		679.4	
Length Wtd. (ft)	9.17	Wetted Per. (ft)		18.26	
Min Ch El (ft)	2834.17	Shear (lb/sq ft)		28.98	
Alpha	1.00	Stream Power (lb/ft s)		474.00	
Frctn Loss (ft)	3.30	Cum Volume (acre-ft)		1.03	
C & E Loss (ft)	0.05	Cum SA (acres)		0.98	

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1165

INPUT
Description: Connects to Culvert
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2840	0	2830	10	2830	10	2840

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

Left	Right	Left	Channel	Right	Coeff Contr.	Expan.
0	10		9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2836.92	Element	Left OB	Channel	Right OB
Vel Head (ft)	4.60	Wt. n-Val.		0.065	
W.S. Elev (ft)	2832.32	Reach Len. (ft)	9.69	9.69	9.69
Crit W.S. (ft)	2833.67	Flow Area (sq ft)		23.24	
E.G. Slope (ft/ft)	*0.306259	Area (sq ft)		23.24	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	10.00	Top Width (ft)		10.00	
Vel Total (ft/s)	17.21	Avg. Vel. (ft/s)		17.21	
Max Chl Dpth (ft)	2.32	Hydr. Depth (ft)		2.32	
Conv. Total (cfs)	722.8	Conv. (cfs)		722.8	
Length Wtd. (ft)	9.69	Wetted Per. (ft)		14.65	
Min Ch El (ft)	2830.00	Shear (lb/sq ft)		30.34	
Alpha	1.00	Stream Power (lb/ft s)		522.10	
Frctn Loss (ft)	2.98	Cum Volume (acre-ft)		1.02	
C & E Loss (ft)	0.04	Cum SA (acres)		0.97	

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1155.31*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2835.31	0	2825.31	10	2825.31	10	2835.31

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

Left	Right	Left	Channel	Right	Coeff Contr.	Expan.
0	10		9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2833.26	Element	Left OB	Channel	Right OB
Vel Head (ft)	5.90	Wt. n-Val.		0.065	
W.S. Elev (ft)	2827.36	Reach Len. (ft)	9.69	9.69	9.69
Crit W.S. (ft)	2828.98	Flow Area (sq ft)		20.52	
E.G. Slope (ft/ft)	*0.440895	Area (sq ft)		20.52	
Q Total (cfs)	400.00	Flow (cfs)		400.00	

* Top Width (ft)	10.00	* Top Width (ft)	*	10.00	*
* Vel Total (ft/s)	19.49	* Avg. Vel. (ft/s)	*	19.49	*
* Max Chl Dpth (ft)	2.05	* Hydr. Depth (ft)	*	2.05	*
* Conv. Total (cfs)	602.4	* Conv. (cfs)	*	602.4	*
* Length Wtd. (ft)	9.69	* Wetted Per. (ft)	*	14.10	*
* Min Ch El (ft)	2825.31	* Shear (lb/sq ft)	*	40.05	*
* Alpha	1.00	* Stream Power (lb/ft s)	*	780.60	*
* Frctn Loss (ft)	3.53	* Cum Volume (acre-ft)	*	1.02	*
* C & E Loss (ft)	0.13	* Cum SA (acres)	*	0.97	*

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1145.62*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2830.62	0	2820.62	10	2820.62	10	2830.62

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	10	9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	2828.81	* Element	* Left OB	* Channel	* Right OB *
* Vel Head (ft)	6.19	* Wt. n-Val.	*	0.065	*
* W.S. Elev (ft)	2822.62	* Reach Len. (ft)	* 9.69	* 9.69	* 9.69 *
* Crit W.S. (ft)	2824.28	* Flow Area (sq ft)	*	20.04	*
* E.G. Slope (ft/ft)	*0.472827	* Area (sq ft)	*	20.04	*
* Q Total (cfs)	400.00	* Flow (cfs)	*	400.00	*
* Top Width (ft)	10.00	* Top Width (ft)	*	10.00	*
* Vel Total (ft/s)	19.96	* Avg. Vel. (ft/s)	*	19.96	*
* Max Chl Dpth (ft)	2.00	* Hydr. Depth (ft)	*	2.00	*
* Conv. Total (cfs)	581.7	* Conv. (cfs)	*	581.7	*
* Length Wtd. (ft)	9.69	* Wetted Per. (ft)	*	14.01	*
* Min Ch El (ft)	2820.62	* Shear (lb/sq ft)	*	42.23	*
* Alpha	1.00	* Stream Power (lb/ft s)	*	842.89	*
* Frctn Loss (ft)	4.42	* Cum Volume (acre-ft)	*	1.01	*
* C & E Loss (ft)	0.03	* Cum SA (acres)	*	0.97	*

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1135.93*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2825.94	0	2815.94	10	2815.94	10	2825.94

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	10	9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	2824.19	* Element	* Left OB	* Channel	* Right OB *
* Vel Head (ft)	6.25	* Wt. n-Val.	*	0.065	*
* W.S. Elev (ft)	2817.93	* Reach Len. (ft)	* 9.69	* 9.69	* 9.69 *
* Crit W.S. (ft)	2819.61	* Flow Area (sq ft)	*	19.93	*
* E.G. Slope (ft/ft)	*0.480390	* Area (sq ft)	*	19.93	*
* Q Total (cfs)	400.00	* Flow (cfs)	*	400.00	*
* Top Width (ft)	10.00	* Top Width (ft)	*	10.00	*
* Vel Total (ft/s)	20.07	* Avg. Vel. (ft/s)	*	20.07	*
* Max Chl Dpth (ft)	1.99	* Hydr. Depth (ft)	*	1.99	*
* Conv. Total (cfs)	577.1	* Conv. (cfs)	*	577.1	*
* Length Wtd. (ft)	9.69	* Wetted Per. (ft)	*	13.99	*
* Min Ch El (ft)	2815.94	* Shear (lb/sq ft)	*	42.74	*
* Alpha	1.00	* Stream Power (lb/ft s)	*	857.69	*
* Frctn Loss (ft)	4.62	* Cum Volume (acre-ft)	*	1.01	*
* C & E Loss (ft)	0.01	* Cum SA (acres)	*	0.97	*

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1126.25*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2821.25	0	2811.25	10	2811.25	10	2821.25

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	10	9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	2819.52	* Element	* Left OB	* Channel	* Right OB *
* Vel Head (ft)	6.28	* Wt. n-Val.	*	0.065	*
* W.S. Elev (ft)	2813.24	* Reach Len. (ft)	* 9.69	* 9.69	* 9.69 *
* Crit W.S. (ft)	2814.91	* Flow Area (sq ft)	*	19.90	*
* E.G. Slope (ft/ft)	*0.483006	* Area (sq ft)	*	19.90	*
* Q Total (cfs)	400.00	* Flow (cfs)	*	400.00	*
* Top Width (ft)	10.00	* Top Width (ft)	*	10.00	*
* Vel Total (ft/s)	20.10	* Avg. Vel. (ft/s)	*	20.10	*
* Max Chl Dpth (ft)	1.99	* Hydr. Depth (ft)	*	1.99	*
* Conv. Total (cfs)	575.6	* Conv. (cfs)	*	575.6	*
* Length Wtd. (ft)	9.69	* Wetted Per. (ft)	*	13.98	*
* Min Ch El (ft)	2811.25	* Shear (lb/sq ft)	*	42.92	*
* Alpha	1.00	* Stream Power (lb/ft s)	*	862.81	*
* Frctn Loss (ft)	4.67	* Cum Volume (acre-ft)	*	1.01	*
* C & E Loss (ft)	0.00	* Cum SA (acres)	*	0.96	*

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB

REACH: Main RS: 1116.56*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2816.56	0	2806.56	10	2806.56	10	2816.56

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	10	9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2814.83	Element	Left OB	Channel	Right OB
Vel Head (ft)	6.28	Wt. n-Val.		0.065	
W.S. Elev (ft)	2808.55	Reach Len. (ft)	9.69	9.69	9.69
Crit W.S. (ft)	2810.23	Flow Area (sq ft)		19.89	
E.G. Slope (ft/ft)	*0.483707	Area (sq ft)		19.89	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	10.00	Top Width (ft)		10.00	
Vel Total (ft/s)	20.11	Avg. Vel. (ft/s)		20.11	
Max Chl Dpth (ft)	1.99	Hydr. Depth (ft)		1.99	
Conv. Total (cfs)	575.1	Conv. (cfs)		575.1	
Length Wtd. (ft)	9.69	Wetted Per. (ft)		13.98	
Min Ch El (ft)	2806.56	Shear (lb/sq ft)		42.97	
Alpha	1.00	Stream Power (lb/ft s)		864.18	
Frctn Loss (ft)	4.68	Cum Volume (acre-ft)		1.00	
C & E Loss (ft)	0.00	Cum SA (acres)		0.96	

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1106.87*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2811.88	0	2801.88	10	2801.88	10	2811.88

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	10	9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2810.15	Element	Left OB	Channel	Right OB
Vel Head (ft)	6.28	Wt. n-Val.		0.065	
W.S. Elev (ft)	2803.87	Reach Len. (ft)	9.69	9.69	9.69
Crit W.S. (ft)	2805.55	Flow Area (sq ft)		19.89	
E.G. Slope (ft/ft)	*0.483707	Area (sq ft)		19.89	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	10.00	Top Width (ft)		10.00	
Vel Total (ft/s)	20.11	Avg. Vel. (ft/s)		20.11	
Max Chl Dpth (ft)	1.99	Hydr. Depth (ft)		1.99	
Conv. Total (cfs)	575.1	Conv. (cfs)		575.1	
Length Wtd. (ft)	9.69	Wetted Per. (ft)		13.98	
Min Ch El (ft)	2801.88	Shear (lb/sq ft)		42.97	
Alpha	1.00	Stream Power (lb/ft s)		864.18	
Frctn Loss (ft)	4.69	Cum Volume (acre-ft)		1.00	
C & E Loss (ft)	0.00	Cum SA (acres)		0.96	

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1097.18*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2807.19	0	2797.19	10	2797.19	10	2807.19

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	10	9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2805.46	Element	Left OB	Channel	Right OB
Vel Head (ft)	6.29	Wt. n-Val.		0.065	
W.S. Elev (ft)	2799.18	Reach Len. (ft)	9.69	9.69	9.69
Crit W.S. (ft)	2800.85	Flow Area (sq ft)		19.88	
E.G. Slope (ft/ft)	*0.484234	Area (sq ft)		19.88	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	10.00	Top Width (ft)		10.00	
Vel Total (ft/s)	20.12	Avg. Vel. (ft/s)		20.12	
Max Chl Dpth (ft)	1.99	Hydr. Depth (ft)		1.99	
Conv. Total (cfs)	574.8	Conv. (cfs)		574.8	
Length Wtd. (ft)	9.69	Wetted Per. (ft)		13.98	
Min Ch El (ft)	2797.19	Shear (lb/sq ft)		43.00	
Alpha	1.00	Stream Power (lb/ft s)		865.21	
Frctn Loss (ft)	4.69	Cum Volume (acre-ft)		0.99	
C & E Loss (ft)	0.00	Cum SA (acres)		0.96	

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1087.5*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2802.5	0	2792.5	10	2792.5	10	2802.5

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	10	9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2800.77	Element	Left OB	Channel	Right OB
Vel Head (ft)	6.28	Wt. n-Val.		0.065	
W.S. Elev (ft)	2794.49	Reach Len. (ft)	9.69	9.69	9.69

* Crit W.S. (ft)	* 2796.17	* Flow Area (sq ft)	*	*	19.88	*	*
* E.G. Slope (ft/ft)	*0.484058	* Area (sq ft)	*	*	19.88	*	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	*	400.00	*	*
* Top Width (ft)	* 10.00	* Top Width (ft)	*	*	10.00	*	*
* Vel Total (ft/s)	* 20.12	* Avg. Vel. (ft/s)	*	*	20.12	*	*
* Max Chl Dpth (ft)	* 1.99	* Hydr. Depth (ft)	*	*	1.99	*	*
* Conv. Total (cfs)	* 574.9	* Conv. (cfs)	*	*	574.9	*	*
* Length Wtd. (ft)	* 9.69	* Wetted Per. (ft)	*	*	13.98	*	*
* Min Ch El (ft)	* 2792.50	* Shear (lb/sq ft)	*	*	42.99	*	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	*	864.87	*	*
* Frctn Loss (ft)	* 4.69	* Cum Volume (acre-ft)	*	*	0.99	*	*
* C & E Loss (ft)	* 0.00	* Cum SA (acres)	*	*	0.96	*	*

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1077.81*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2797.81	0	2787.81	10	2787.81	10	2797.81

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	10	9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2796.08	* Element	* Left OB *	Channel *	Right OB *
* Vel Head (ft)	* 6.28	* Wt. n-Val.	*	* 0.065 *	*
* W.S. Elev (ft)	* 2789.80	* Reach Len. (ft)	* 9.69 *	9.69 *	9.69 *
* Crit W.S. (ft)	* 2791.47	* Flow Area (sq ft)	*	* 19.88 *	*
* E.G. Slope (ft/ft)	*0.484058	* Area (sq ft)	*	* 19.88 *	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	* 400.00 *	*
* Top Width (ft)	* 10.00	* Top Width (ft)	*	* 10.00 *	*
* Vel Total (ft/s)	* 20.12	* Avg. Vel. (ft/s)	*	* 20.12 *	*
* Max Chl Dpth (ft)	* 1.99	* Hydr. Depth (ft)	*	* 1.99 *	*
* Conv. Total (cfs)	* 574.9	* Conv. (cfs)	*	* 574.9 *	*
* Length Wtd. (ft)	* 9.69	* Wetted Per. (ft)	*	* 13.98 *	*
* Min Ch El (ft)	* 2787.81	* Shear (lb/sq ft)	*	* 42.99 *	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 864.87 *	*
* Frctn Loss (ft)	* 4.69	* Cum Volume (acre-ft)	*	* 0.98 *	*
* C & E Loss (ft)	* 0.00	* Cum SA (acres)	*	* 0.95 *	*

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1068.12*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2793.12	0	2783.12	10	2783.12	10	2793.12

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	10	9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2791.39	* Element	* Left OB *	Channel *	Right OB *
* Vel Head (ft)	* 6.28	* Wt. n-Val.	*	* 0.065 *	*
* W.S. Elev (ft)	* 2785.11	* Reach Len. (ft)	* 9.69 *	9.69 *	9.69 *
* Crit W.S. (ft)	* 2786.79	* Flow Area (sq ft)	*	* 19.88 *	*
* E.G. Slope (ft/ft)	*0.484058	* Area (sq ft)	*	* 19.88 *	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	* 400.00 *	*
* Top Width (ft)	* 10.00	* Top Width (ft)	*	* 10.00 *	*
* Vel Total (ft/s)	* 20.12	* Avg. Vel. (ft/s)	*	* 20.12 *	*
* Max Chl Dpth (ft)	* 1.99	* Hydr. Depth (ft)	*	* 1.99 *	*
* Conv. Total (cfs)	* 574.9	* Conv. (cfs)	*	* 574.9 *	*
* Length Wtd. (ft)	* 9.69	* Wetted Per. (ft)	*	* 13.98 *	*
* Min Ch El (ft)	* 2783.12	* Shear (lb/sq ft)	*	* 42.99 *	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 864.87 *	*
* Frctn Loss (ft)	* 4.69	* Cum Volume (acre-ft)	*	* 0.98 *	*
* C & E Loss (ft)	* 0.00	* Cum SA (acres)	*	* 0.95 *	*

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1058.43*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2788.44	0	2778.44	10	2778.44	10	2788.44

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	10	9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2786.71	* Element	* Left OB *	Channel *	Right OB *
* Vel Head (ft)	* 6.28	* Wt. n-Val.	*	* 0.065 *	*
* W.S. Elev (ft)	* 2780.43	* Reach Len. (ft)	* 9.69 *	9.69 *	9.69 *
* Crit W.S. (ft)	* 2782.11	* Flow Area (sq ft)	*	* 19.90 *	*
* E.G. Slope (ft/ft)	*0.483006	* Area (sq ft)	*	* 19.90 *	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	* 400.00 *	*
* Top Width (ft)	* 10.00	* Top Width (ft)	*	* 10.00 *	*
* Vel Total (ft/s)	* 20.10	* Avg. Vel. (ft/s)	*	* 20.10 *	*
* Max Chl Dpth (ft)	* 1.99	* Hydr. Depth (ft)	*	* 1.99 *	*
* Conv. Total (cfs)	* 575.6	* Conv. (cfs)	*	* 575.6 *	*
* Length Wtd. (ft)	* 9.69	* Wetted Per. (ft)	*	* 13.98 *	*
* Min Ch El (ft)	* 2778.44	* Shear (lb/sq ft)	*	* 42.92 *	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 862.81 *	*
* Frctn Loss (ft)	* 4.69	* Cum Volume (acre-ft)	*	* 0.97 *	*
* C & E Loss (ft)	* 0.00	* Cum SA (acres)	*	* 0.95 *	*

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB

REACH: Main RS: 1048.75*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2783.75	0	2773.75	10	2773.75	10	2783.75

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

Left	Right	Left	Channel	Right	Coeff Contr.	Expan.
0	10		9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2782.02	Element	Left OB	Channel	Right OB
Vel Head (ft)	6.28	Wt. n-Val.		0.065	
W.S. Elev (ft)	2775.74	Reach Len. (ft)	9.69	9.69	9.69
Crit W.S. (ft)	2777.41	Flow Area (sq ft)		19.89	
E.G. Slope (ft/ft)	*0.483883	Area (sq ft)		19.89	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	10.00	Top Width (ft)		10.00	
Vel Total (ft/s)	20.12	Avg. Vel. (ft/s)		20.12	
Max Chl Dpth (ft)	1.99	Hydr. Depth (ft)		1.99	
Conv. Total (cfs)	575.0	Conv. (cfs)		575.0	
Length Wtd. (ft)	9.69	Wetted Per. (ft)		13.98	
Min Ch El (ft)	2773.75	Shear (lb/sq ft)		42.98	
Alpha	1.00	Stream Power (lb/ft s)		864.53	
Frctn Loss (ft)	4.68	Cum Volume (acre-ft)		0.97	
C & E Loss (ft)	0.00	Cum SA (acres)		0.95	

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1039.06*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2779.06	0	2769.06	10	2769.06	10	2779.06

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

Left	Right	Left	Channel	Right	Coeff Contr.	Expan.
0	10		9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2777.33	Element	Left OB	Channel	Right OB
Vel Head (ft)	6.29	Wt. n-Val.		0.065	
W.S. Elev (ft)	2771.05	Reach Len. (ft)	9.69	9.69	9.69
Crit W.S. (ft)	2772.73	Flow Area (sq ft)		19.88	
E.G. Slope (ft/ft)	*0.484234	Area (sq ft)		19.88	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	10.00	Top Width (ft)		10.00	
Vel Total (ft/s)	20.12	Avg. Vel. (ft/s)		20.12	
Max Chl Dpth (ft)	1.99	Hydr. Depth (ft)		1.99	
Conv. Total (cfs)	574.8	Conv. (cfs)		574.8	
Length Wtd. (ft)	9.69	Wetted Per. (ft)		13.98	
Min Ch El (ft)	2769.06	Shear (lb/sq ft)		43.00	
Alpha	1.00	Stream Power (lb/ft s)		865.21	
Frctn Loss (ft)	4.69	Cum Volume (acre-ft)		0.97	
C & E Loss (ft)	0.00	Cum SA (acres)		0.94	

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1029.37*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2774.38	0	2764.38	10	2764.38	10	2774.38

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

Left	Right	Left	Channel	Right	Coeff Contr.	Expan.
0	10		9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2772.65	Element	Left OB	Channel	Right OB
Vel Head (ft)	6.28	Wt. n-Val.		0.065	
W.S. Elev (ft)	2766.37	Reach Len. (ft)	9.69	9.69	9.69
Crit W.S. (ft)	2768.04	Flow Area (sq ft)		19.90	
E.G. Slope (ft/ft)	*0.483006	Area (sq ft)		19.90	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	10.00	Top Width (ft)		10.00	
Vel Total (ft/s)	20.10	Avg. Vel. (ft/s)		20.10	
Max Chl Dpth (ft)	1.99	Hydr. Depth (ft)		1.99	
Conv. Total (cfs)	575.6	Conv. (cfs)		575.6	
Length Wtd. (ft)	9.69	Wetted Per. (ft)		13.98	
Min Ch El (ft)	2764.38	Shear (lb/sq ft)		42.92	
Alpha	1.00	Stream Power (lb/ft s)		862.81	
Frctn Loss (ft)	4.69	Cum Volume (acre-ft)		0.96	
C & E Loss (ft)	0.00	Cum SA (acres)		0.94	

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1019.68*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2769.69	0	2759.69	10	2759.69	10	2769.69

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

Left	Right	Left	Channel	Right	Coeff Contr.	Expan.
0	10		9.69	9.69	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2767.96	Element	Left OB	Channel	Right OB
Vel Head (ft)	6.28	Wt. n-Val.		0.065	
W.S. Elev (ft)	2761.68	Reach Len. (ft)	9.69	9.69	9.69

* Crit W.S. (ft)	* 2763.36	* Flow Area (sq ft)	*	*	19.89	*	*
* E.G. Slope (ft/ft)	*0.483883	* Area (sq ft)	*	*	19.89	*	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	*	400.00	*	*
* Top Width (ft)	* 10.00	* Top Width (ft)	*	*	10.00	*	*
* Vel Total (ft/s)	* 20.12	* Avg. Vel. (ft/s)	*	*	20.12	*	*
* Max Chl Dpth (ft)	* 1.99	* Hydr. Depth (ft)	*	*	1.99	*	*
* Conv. Total (cfs)	* 575.0	* Conv. (cfs)	*	*	575.0	*	*
* Length Wtd. (ft)	* 9.69	* Wetted Per. (ft)	*	*	13.98	*	*
* Min Ch El (ft)	* 2759.69	* Shear (lb/sq ft)	*	*	42.98	*	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	*	864.53	*	*
* Frctn Loss (ft)	* 4.68	* Cum Volume (acre-ft)	*	*	0.96	*	*
* C & E Loss (ft)	* 0.00	* Cum SA (acres)	*	*	0.94	*	*

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1010

INPUT
Description: Connects to Culvert
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2765	0	2755	10	2755	10	2765

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	10	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	10	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2763.27	* Element	* Left OB *	Channel *	Right OB *
* Vel Head (ft)	* 6.29	* Wt. n-Val.	*	* 0.065 *	*
* W.S. Elev (ft)	* 2756.99	* Reach Len. (ft)	* 10.00 *	* 10.00 *	* 10.00 *
* Crit W.S. (ft)	* 2758.66	* Flow Area (sq ft)	*	* 19.88 *	*
* E.G. Slope (ft/ft)	*0.484234	* Area (sq ft)	*	* 19.88 *	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	* 400.00 *	*
* Top Width (ft)	* 10.00	* Top Width (ft)	*	* 10.00 *	*
* Vel Total (ft/s)	* 20.12	* Avg. Vel. (ft/s)	*	* 20.12 *	*
* Max Chl Dpth (ft)	* 1.99	* Hydr. Depth (ft)	*	* 1.99 *	*
* Conv. Total (cfs)	* 574.8	* Conv. (cfs)	*	* 574.8 *	*
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	*	* 13.98 *	*
* Min Ch El (ft)	* 2755.00	* Shear (lb/sq ft)	*	* 43.00 *	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 865.21 *	*
* Frctn Loss (ft)	* 4.69	* Cum Volume (acre-ft)	*	* 0.95 *	*
* C & E Loss (ft)	* 0.00	* Cum SA (acres)	*	* 0.94 *	*

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 1000

INPUT
Description: Connects to Culvert
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2760	0	2750	20	2750	20	2760

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	20	.065

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	20	60	60	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2755.83	* Element	* Left OB *	Channel *	Right OB *
* Vel Head (ft)	* 0.20	* Wt. n-Val.	*	* 0.065 *	*
* W.S. Elev (ft)	* 2755.64	* Reach Len. (ft)	* 60.00 *	* 60.00 *	* 60.00 *
* Crit W.S. (ft)	* 2752.31	* Flow Area (sq ft)	*	* 112.71 *	*
* E.G. Slope (ft/ft)	*0.004361	* Area (sq ft)	*	* 112.71 *	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	* 400.00 *	*
* Top Width (ft)	* 20.00	* Top Width (ft)	*	* 20.00 *	*
* Vel Total (ft/s)	* 3.55	* Avg. Vel. (ft/s)	*	* 3.55 *	*
* Max Chl Dpth (ft)	* 5.64	* Hydr. Depth (ft)	*	* 5.64 *	*
* Conv. Total (cfs)	* 6057.0	* Conv. (cfs)	*	* 6057.0 *	*
* Length Wtd. (ft)	* 60.00	* Wetted Per. (ft)	*	* 31.27 *	*
* Min Ch El (ft)	* 2750.00	* Shear (lb/sq ft)	*	* 0.98 *	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 3.48 *	*
* Frctn Loss (ft)	*	* Cum Volume (acre-ft)	*	* 0.94 *	*
* C & E Loss (ft)	*	* Cum SA (acres)	*	* 0.93 *	*

Note: Hydraulic jump has occurred between this cross section and the previous upstream section.

CULVERT

RIVER: Peaceful D to DB
REACH: Main RS: 999

INPUT
Description: Single 12'X4' Culvert
Distance from Upstream XS = 1
Deck/Roadway Width = 58
Weir Coefficient = 2.6
Upstream Deck/Roadway Coordinates
num= 2

Sta Hi Cord	Lo Cord	Sta Hi Cord	Lo Cord
0 2759.9	2749.9	20 2759.9	2749.9

Upstream Bridge Cross Section Data
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2760	0	2750	20	2750	20	2760

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.065	0	.065	20	.065

Bank Sta: Left	Right	Coeff Contr.	Expan.
0	20	.1	.3

Downstream Deck/Roadway Coordinates
num= 2

Sta Hi Cord	Lo Cord	Sta Hi Cord	Lo Cord
0 2755.1	2745.1	30 2755.1	2745.1

Downstream Bridge Cross Section Data
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2755	0	2749.7	30	2749.7	30	2755

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.02	0	.02	30	.02

Bank Sta: Left Right Coeff Contr. Expan.

0	30	.1	.3

```
Upstream Embankment side slope                =       0 horiz. to 1.0 vertical
Downstream Embankment side slope              =       0 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow =      .95
Elevation at which weir flow begins           =
Energy head used in spillway design           =
Spillway height used in design                =
Weir crest shape                              = Broad Crested

Number of Culverts =  1

Culvert Name      Shape      Rise     Span
Culvert #1          Box       4       12
FHWA Chart # 8 - flared wingwalls
FHWA Scale # 1 - Wingwall flared 30 to 75 deg.
Solution Criteria = Highest U.S. EG
Culvert Upstrm Dist  Length    Top n  Bottom n  Depth Blocked  Entrance Loss Coef   Exit Loss
Coef
                 1      58     .013      .013        0                  .5               1
Upstream   Elevation =  2749.995
           Centerline Station =  10
Downstream Elevation =  2749.705
           Centerline Station =  15

CULVERT OUTPUT  Profile #PF 1  Culv Group:  Culvert #1
*************************************************************************
* Q Culv Group (cfs)     *  400.00  * Culv Full Len (ft)     *          *
* # Barrels              *       1  * Culv Vel US (ft/s)     *   10.24  *
* Q Barrel (cfs)         *  400.00  * Culv Vel DS (ft/s)     *   11.51  *
* E.G. US. (ft)          * 2755.84  * Culv Inv El Up (ft)    * 2750.00  *
* W.S. US. (ft)          * 2755.64  * Culv Inv El Dn (ft)    * 2749.71  *
* E.G. DS (ft)           * 2752.35  * Culv Frctn Ls (ft)     *    0.22  *
* W.S. DS (ft)           * 2751.46  * Culv Exit Loss (ft)    *    2.31  *
* Delta EG (ft)          *    3.48  * Culv Entr Loss (ft)    *    0.96  *
* Delta WS (ft)          *    4.17  * Q Weir (cfs)           *          *
* E.G. IC (ft)           * 2755.84  * Weir Sta Lft (ft)      *          *
* E.G. OC (ft)           * 2755.69  * Weir Sta Rgt (ft)      *          *
* Culvert Control        *   Inlet  * Weir Submerg           *          *
* Culv WS Inlet (ft)     * 2753.25  * Weir Max Depth (ft)    *          *
* Culv WS Outlet (ft)    * 2752.60  * Weir Avg Depth (ft)    *          *
* Culv Nml Depth (ft)    *    2.72  * Weir Flow Area (sq ft) *          *
* Culv Crt Depth (ft)    *    3.26  * Min El Weir Flow (ft)  * 2759.91  *
*************************************************************************

CROSS SECTION


RIVER: Peaceful D to DB
REACH: Main               RS: 940

INPUT
Description: End of Culvert
Station Elevation Data    num=       4
     Sta     Elev      Sta     Elev      Sta     Elev      Sta     Elev
*********************************************************************
       0     2755        0  2749.7       30  2749.7       30     2755

Manning's n Values        num=       3
     Sta    n Val      Sta    n Val      Sta    n Val
*************************************************
       0      .02        0      .02       30      .02

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
             0      30             9.33    9.33    9.33             .1       .3

CROSS SECTION OUTPUT  Profile #PF 1
*************************************************************************************************
* E.G. Elev (ft)         * 2752.35  * Element               *  Left OB *  Channel * Right OB *
* Vel Head (ft)          *    0.89  * Wt. n-Val.            *          *    0.020  *          *
* W.S. Elev (ft)         * 2751.46  * Reach Len. (ft)       *    9.33  *    9.33  *    9.33  *
* Crit W.S. (ft)         * 2751.46  * Flow Area (sq ft)     *          *   52.80  *          *
* E.G. Slope (ft/ft)     *0.005673  * Area (sq ft)          *          *   52.80  *          *
* Q Total (cfs)          *  400.00  * Flow (cfs)            *          *  400.00  *          *
* Top Width (ft)         *   30.00  * Top Width (ft)        *          *   30.00  *          *
* Vel Total (ft/s)       *    7.58  * Avg. Vel. (ft/s)      *          *    7.58  *          *
* Max Chl Dpth (ft)      *    1.76  * Hydr. Depth (ft)      *          *    1.76  *          *
* Conv. Total (cfs)      *  5310.8  * Conv. (cfs)           *          *  5310.8  *          *
* Length Wtd. (ft)       *    9.33  * Wetted Per. (ft)      *          *   33.52  *          *
* Min Ch El (ft)         * 2749.70  * Shear (lb/sq ft)      *          *    0.56  *          *
* Alpha                  *    1.00  * Stream Power (lb/ft s) *          *    4.23  *          *
* Frctn Loss (ft)        *          * Cum Volume (acre-ft)  *          *    0.82  *          *
* C & E Loss (ft)        *          * Cum SA (acres)        *          *    0.90  *          *
*************************************************************************************************

CROSS SECTION


RIVER: Peaceful D to DB
REACH: Main               RS: 930.666*

INPUT
Description:
Station Elevation Data    num=       4
     Sta     Elev      Sta     Elev      Sta     Elev      Sta     Elev
*********************************************************************
       0 2752.78        0 2746.96       30 2746.96       30 2752.78

Manning's n Values        num=       3
     Sta    n Val      Sta    n Val      Sta    n Val
*************************************************
       0      .02        0      .02       30      .02

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
             0      30             9.33    9.33    9.33             .1       .3

CROSS SECTION OUTPUT  Profile #PF 1
*************************************************************************************************
* E.G. Elev (ft)         * 2751.90  * Element               *  Left OB *  Channel * Right OB *
* Vel Head (ft)          *    4.12  * Wt. n-Val.            *          *    0.020  *          *
* W.S. Elev (ft)         * 2747.78  * Reach Len. (ft)       *    9.33  *    9.33  *    9.33  *
* Crit W.S. (ft)         * 2748.72  * Flow Area (sq ft)     *          *   24.56  *          *
* E.G. Slope (ft/ft)     *0.067371  * Area (sq ft)          *          *   24.56  *          *
* Q Total (cfs)          *  400.00  * Flow (cfs)            *          *  400.00  *          *
* Top Width (ft)         *   30.00  * Top Width (ft)        *          *   30.00  *          *
* Vel Total (ft/s)       *   16.29  * Avg. Vel. (ft/s)      *          *   16.29  *          *
* Max Chl Dpth (ft)      *    0.82  * Hydr. Depth (ft)      *          *    0.82  *          *
* Conv. Total (cfs)      *  1541.1  * Conv. (cfs)           *          *  1541.1  *          *
* Length Wtd. (ft)       *    9.33  * Wetted Per. (ft)      *          *   31.64  *          *
* Min Ch El (ft)         * 2746.96  * Shear (lb/sq ft)      *          *    3.26  *          *
* Alpha                  *    1.00  * Stream Power (lb/ft s) *          *   53.18  *          *
* Frctn Loss (ft)        *    0.13  * Cum Volume (acre-ft)  *          *    0.81  *          *
* C & E Loss (ft)        *    0.32  * Cum SA (acres)        *          *    0.89  *          *
*************************************************************************************************

Warning: The velocity head has changed by more than 0.5 ft (0.15 m).  This may indicate the need
for
         additional cross sections.
Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than
         0.7 or greater than 1.4.  This may indicate the need for additional cross sections.

CROSS SECTION


RIVER: Peaceful D to DB
REACH: Main               RS: 921.333*

INPUT
Description:
Station Elevation Data    num=       4
     Sta     Elev      Sta     Elev      Sta     Elev      Sta     Elev
*********************************************************************
       0 2750.56        0 2744.21       30 2744.21       30 2750.56

Manning's n Values        num=       3
     Sta    n Val      Sta    n Val      Sta    n Val
*************************************************
       0      .02        0      .02       30      .02

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
             0      30             9.33    9.33    9.33             .1       .3

CROSS SECTION OUTPUT  Profile #PF 1
*************************************************************************************************
```

* E.G. Elev (ft)	* 2750.88	* Element	* Left OB *	Channel *	Right OB *
* Vel Head (ft)	* 5.99	* Wt. n-Val.	*	0.020 *	*
* W.S. Elev (ft)	* 2744.89	* Reach Len. (ft)	* 9.33 *	9.33 *	9.33 *
* Crit W.S. (ft)	* 2745.97	* Flow Area (sq ft)	*	20.37 *	*
* E.G. Slope (ft/ft)	*0.124197	* Area (sq ft)	*	20.37 *	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	400.00 *	*
* Top Width (ft)	* 30.00	* Top Width (ft)	*	30.00 *	*
* Vel Total (ft/s)	* 19.64	* Avg. Vel. (ft/s)	*	19.64 *	*
* Max Chl Dpth (ft)	* 0.68	* Hydr. Depth (ft)	*	0.68 *	*
* Conv. Total (cfs)	* 1135.0	* Conv. (cfs)	*	1135.0 *	*
* Length Wtd. (ft)	* 9.33	* Wetted Per. (ft)	*	31.36 *	*
* Min Ch El (ft)	* 2744.21	* Shear (lb/sq ft)	*	5.04 *	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	98.90 *	*
* Frctn Loss (ft)	* 0.83	* Cum Volume (acre-ft)	*	0.81 *	*
* C & E Loss (ft)	* 0.19	* Cum SA (acres)	*	0.89 *	*

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 912.*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2748.33	0	2741.47	30	2741.47	30	2748.33

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.02	0	.02	30	.02

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

Left	Right	Left	Channel	Right	Coeff Contr.	Expan.
0	30	9.33	9.33	9.33	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2749.39	* Element	* Left OB *	Channel *	Right OB *
* Vel Head (ft)	* 7.30	* Wt. n-Val.	*	0.020 *	*
* W.S. Elev (ft)	* 2742.09	* Reach Len. (ft)	* 9.33 *	9.33 *	9.33 *
* Crit W.S. (ft)	* 2743.23	* Flow Area (sq ft)	*	18.44 *	*
* E.G. Slope (ft/ft)	*0.172010	* Area (sq ft)	*	18.44 *	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	400.00 *	*
* Top Width (ft)	* 30.00	* Top Width (ft)	*	30.00 *	*
* Vel Total (ft/s)	* 21.69	* Avg. Vel. (ft/s)	*	21.69 *	*
* Max Chl Dpth (ft)	* 0.61	* Hydr. Depth (ft)	*	0.61 *	*
* Conv. Total (cfs)	* 964.5	* Conv. (cfs)	*	964.5 *	*
* Length Wtd. (ft)	* 9.33	* Wetted Per. (ft)	*	31.23 *	*
* Min Ch El (ft)	* 2741.47	* Shear (lb/sq ft)	*	6.34 *	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	137.54 *	*
* Frctn Loss (ft)	* 1.35	* Cum Volume (acre-ft)	*	0.81 *	*
* C & E Loss (ft)	* 0.13	* Cum SA (acres)	*	0.88 *	*

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 902.666*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2746.11	0	2738.72	30	2738.72	30	2746.11

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.02	0	.02	30	.02

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

Left	Right	Left	Channel	Right	Coeff Contr.	Expan.
0	30	9.33	9.33	9.33	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2747.53	* Element	* Left OB *	Channel *	Right OB *
* Vel Head (ft)	* 8.23	* Wt. n-Val.	*	0.020 *	*
* W.S. Elev (ft)	* 2739.30	* Reach Len. (ft)	* 9.33 *	9.33 *	9.33 *
* Crit W.S. (ft)	* 2740.48	* Flow Area (sq ft)	*	17.37 *	*
* E.G. Slope (ft/ft)	*0.209267	* Area (sq ft)	*	17.37 *	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	400.00 *	*
* Top Width (ft)	* 30.00	* Top Width (ft)	*	30.00 *	*
* Vel Total (ft/s)	* 23.02	* Avg. Vel. (ft/s)	*	23.02 *	*
* Max Chl Dpth (ft)	* 0.58	* Hydr. Depth (ft)	*	0.58 *	*
* Conv. Total (cfs)	* 874.4	* Conv. (cfs)	*	874.4 *	*
* Length Wtd. (ft)	* 9.33	* Wetted Per. (ft)	*	31.16 *	*
* Min Ch El (ft)	* 2738.72	* Shear (lb/sq ft)	*	7.28 *	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	167.72 *	*
* Frctn Loss (ft)	* 1.77	* Cum Volume (acre-ft)	*	0.80 *	*
* C & E Loss (ft)	* 0.09	* Cum SA (acres)	*	0.87 *	*

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 893.333*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2743.89	0	2735.98	30	2735.98	30	2743.89

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.02	0	.02	30	.02

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

Left	Right	Left	Channel	Right	Coeff Contr.	Expan.
0	30	9.33	9.33	9.33	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2745.40	* Element	* Left OB *	Channel *	Right OB *
* Vel Head (ft)	* 8.86	* Wt. n-Val.	*	0.020 *	*
* W.S. Elev (ft)	* 2736.54	* Reach Len. (ft)	* 9.33 *	9.33 *	9.33 *
* Crit W.S. (ft)	* 2737.74	* Flow Area (sq ft)	*	16.74 *	*
* E.G. Slope (ft/ft)	*0.236255	* Area (sq ft)	*	16.74 *	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	400.00 *	*
* Top Width (ft)	* 30.00	* Top Width (ft)	*	30.00 *	*
* Vel Total (ft/s)	* 23.89	* Avg. Vel. (ft/s)	*	23.89 *	*
* Max Chl Dpth (ft)	* 0.56	* Hydr. Depth (ft)	*	0.56 *	*
* Conv. Total (cfs)	* 822.9	* Conv. (cfs)	*	822.9 *	*
* Length Wtd. (ft)	* 9.33	* Wetted Per. (ft)	*	31.12 *	*
* Min Ch El (ft)	* 2735.98	* Shear (lb/sq ft)	*	7.94 *	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	189.60 *	*

0	.017	0	.017	80	.017				

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
0 80 9.78 9.78 9.78 .1 .3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2719.13	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.78	Wt. n-Val.		0.017	
W.S. Elev (ft)	2718.36	Reach Len. (ft)	9.78	9.78	9.78
Crit W.S. (ft)	2718.56	Flow Area (sq ft)		56.56	
E.G. Slope (ft/ft)	*0.010638	Area (sq ft)		56.56	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	80.00	Top Width (ft)		80.00	
Vel Total (ft/s)	7.07	Avg. Vel. (ft/s)		7.07	
Max Chl Dpth (ft)	0.71	Hydr. Depth (ft)		0.71	
Conv. Total (cfs)	3878.2	Conv. (cfs)		3878.2	
Length Wtd. (ft)	9.78	Wetted Per. (ft)		81.41	
Min Ch El (ft)	2717.65	Shear (lb/sq ft)		0.46	
Alpha	1.00	Stream Power (lb/ft s)		3.26	
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)		0.54	
C & E Loss (ft)	0.00	Cum SA (acres)		0.47	

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 630.444*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2727.54	0	2717.54	80	2717.54	80	2727.54

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.017	0	.017	80	.017

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
0 80 9.78 9.78 9.78 .1 .3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2719.02	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.77	Wt. n-Val.		0.017	
W.S. Elev (ft)	2718.25	Reach Len. (ft)	9.78	9.78	9.78
Crit W.S. (ft)	2718.45	Flow Area (sq ft)		56.68	
E.G. Slope (ft/ft)	*0.010565	Area (sq ft)		56.68	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	80.00	Top Width (ft)		80.00	
Vel Total (ft/s)	7.06	Avg. Vel. (ft/s)		7.06	
Max Chl Dpth (ft)	0.71	Hydr. Depth (ft)		0.71	
Conv. Total (cfs)	3891.5	Conv. (cfs)		3891.5	
Length Wtd. (ft)	9.78	Wetted Per. (ft)		81.42	
Min Ch El (ft)	2717.54	Shear (lb/sq ft)		0.46	
Alpha	1.00	Stream Power (lb/ft s)		3.24	
Frctn Loss (ft)	0.10	Cum Volume (acre-ft)		0.53	
C & E Loss (ft)	0.00	Cum SA (acres)		0.45	

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 620.666*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2727.42	0	2717.42	80	2717.42	80	2727.42

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.017	0	.017	80	.017

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
0 80 9.78 9.78 9.78 .1 .3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2718.91	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.79	Wt. n-Val.		0.017	
W.S. Elev (ft)	2718.12	Reach Len. (ft)	9.78	9.78	9.78
Crit W.S. (ft)	2718.33	Flow Area (sq ft)		56.04	
E.G. Slope (ft/ft)	*0.010973	Area (sq ft)		56.04	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	80.00	Top Width (ft)		80.00	
Vel Total (ft/s)	7.14	Avg. Vel. (ft/s)		7.14	
Max Chl Dpth (ft)	0.70	Hydr. Depth (ft)		0.70	
Conv. Total (cfs)	3818.5	Conv. (cfs)		3818.5	
Length Wtd. (ft)	9.78	Wetted Per. (ft)		81.40	
Min Ch El (ft)	2717.42	Shear (lb/sq ft)		0.47	
Alpha	1.00	Stream Power (lb/ft s)		3.37	
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)		0.52	
C & E Loss (ft)	0.00	Cum SA (acres)		0.43	

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 610.888*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2727.3	0	2717.3	80	2717.3	80	2727.3

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.017	0	.017	80	.017

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
0 80 9.78 9.78 9.78 .1 .3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2718.80	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.81	Wt. n-Val.		0.017	
W.S. Elev (ft)	2717.99	Reach Len. (ft)	9.78	9.78	9.78
Crit W.S. (ft)	2718.21	Flow Area (sq ft)		55.53	
E.G. Slope (ft/ft)	*0.011309	Area (sq ft)		55.53	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	80.00	Top Width (ft)		80.00	
Vel Total (ft/s)	7.20	Avg. Vel. (ft/s)		7.20	
Max Chl Dpth (ft)	0.69	Hydr. Depth (ft)		0.69	
Conv. Total (cfs)	3761.4	Conv. (cfs)		3761.4	
Length Wtd. (ft)	9.78	Wetted Per. (ft)		81.39	
Min Ch El (ft)	2717.30	Shear (lb/sq ft)		0.48	
Alpha	1.00	Stream Power (lb/ft s)		3.47	
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)		0.50	
C & E Loss (ft)	0.00	Cum SA (acres)		0.41	

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 601.111*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev

0 2727.18	0 2717.18	80 2717.18	80 2727.18

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.017	0	.017	80	.017

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	80	9.78	9.78	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2718.68	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.81	Wt. n-Val.		0.017	
W.S. Elev (ft)	2717.87	Reach Len. (ft)	9.78	9.78	9.78
Crit W.S. (ft)	2718.09	Flow Area (sq ft)		55.53	
E.G. Slope (ft/ft)	*0.011309	Area (sq ft)		55.53	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	80.00	Top Width (ft)		80.00	
Vel Total (ft/s)	7.20	Avg. Vel. (ft/s)		7.20	
Max Chl Dpth (ft)	0.69	Hydr. Depth (ft)		0.69	
Conv. Total (cfs)	3761.4	Conv. (cfs)		3761.4	
Length Wtd. (ft)	9.78	Wetted Per. (ft)		81.39	
Min Ch El (ft)	2717.18	Shear (lb/sq ft)		0.48	
Alpha	1.00	Stream Power (lb/ft s)		3.47	
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)		0.49	
C & E Loss (ft)	0.00	Cum SA (acres)		0.39	

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 591.333*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0 2727.07		0 2717.07		80 2717.07		80 2727.07	

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.017	0	.017	80	.017

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	80	9.78	9.78	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2718.57	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.81	Wt. n-Val.		0.017	
W.S. Elev (ft)	2717.76	Reach Len. (ft)	9.78	9.78	9.78
Crit W.S. (ft)	2717.98	Flow Area (sq ft)		55.53	
E.G. Slope (ft/ft)	*0.011309	Area (sq ft)		55.53	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	80.00	Top Width (ft)		80.00	
Vel Total (ft/s)	7.20	Avg. Vel. (ft/s)		7.20	
Max Chl Dpth (ft)	0.69	Hydr. Depth (ft)		0.69	
Conv. Total (cfs)	3761.4	Conv. (cfs)		3761.4	
Length Wtd. (ft)	9.78	Wetted Per. (ft)		81.39	
Min Ch El (ft)	2717.07	Shear (lb/sq ft)		0.48	
Alpha	1.00	Stream Power (lb/ft s)		3.47	
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)		0.48	
C & E Loss (ft)	0.00	Cum SA (acres)		0.38	

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 581.555*

INPUT

Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0 2726.95		0 2716.95		80 2716.95		80 2726.95	

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.017	0	.017	80	.017

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	80	9.78	9.78	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2718.45	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.81	Wt. n-Val.		0.017	
W.S. Elev (ft)	2717.64	Reach Len. (ft)	9.78	9.78	9.78
Crit W.S. (ft)	2717.86	Flow Area (sq ft)		55.29	
E.G. Slope (ft/ft)	*0.011468	Area (sq ft)		55.29	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	80.00	Top Width (ft)		80.00	
Vel Total (ft/s)	7.23	Avg. Vel. (ft/s)		7.23	
Max Chl Dpth (ft)	0.69	Hydr. Depth (ft)		0.69	
Conv. Total (cfs)	3735.2	Conv. (cfs)		3735.2	
Length Wtd. (ft)	9.78	Wetted Per. (ft)		81.38	
Min Ch El (ft)	2716.95	Shear (lb/sq ft)		0.49	
Alpha	1.00	Stream Power (lb/ft s)		3.52	
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)		0.47	
C & E Loss (ft)	0.00	Cum SA (acres)		0.36	

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 571.777*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0 2726.83		0 2716.83		80 2716.83		80 2726.83	

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	80	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	80	9.78	9.78	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2718.34	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.83	Wt. n-Val.		0.016	
W.S. Elev (ft)	2717.51	Reach Len. (ft)	9.78	9.78	9.78
Crit W.S. (ft)	2717.75	Flow Area (sq ft)		54.71	
E.G. Slope (ft/ft)	*0.010524	Area (sq ft)		54.71	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	80.00	Top Width (ft)		80.00	
Vel Total (ft/s)	7.31	Avg. Vel. (ft/s)		7.31	
Max Chl Dpth (ft)	0.68	Hydr. Depth (ft)		0.68	
Conv. Total (cfs)	3899.2	Conv. (cfs)		3899.2	
Length Wtd. (ft)	9.78	Wetted Per. (ft)		81.37	
Min Ch El (ft)	2716.83	Shear (lb/sq ft)		0.44	
Alpha	1.00	Stream Power (lb/ft s)		3.23	
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)		0.46	
C & E Loss (ft)	0.00	Cum SA (acres)		0.34	

CROSS SECTION

RIVER: Peaceful D to DB

REACH: Main RS: 562.*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2726.71	0	2716.71	80	2716.71	80	2726.71

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	80	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	80	9.78	9.78	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

			Left OB	Channel	Right OB
E.G. Elev (ft)	2718.24	Element			
Vel Head (ft)	0.85	Wt. n-Val.		0.016	
W.S. Elev (ft)	2717.39	Reach Len. (ft)	9.78	9.78	9.78
Crit W.S. (ft)	2717.62	Flow Area (sq ft)		54.04	
E.G. Slope (ft/ft)	*0.010958	Area (sq ft)		54.04	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	80.00	Top Width (ft)		80.00	
Vel Total (ft/s)	7.40	Avg. Vel. (ft/s)		7.40	
Max Chl Dpth (ft)	0.68	Hydr. Depth (ft)		0.68	
Conv. Total (cfs)	3821.2	Conv. (cfs)		3821.2	
Length Wtd. (ft)	9.78	Wetted Per. (ft)		81.35	
Min Ch El (ft)	2716.71	Shear (lb/sq ft)		0.45	
Alpha	1.00	Stream Power (lb/ft s)		3.36	
Frctn Loss (ft)	0.11	Cum Volume (acre-ft)		0.44	
C & E Loss (ft)	0.00	Cum SA (acres)		0.32	

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 552.222*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2726.6	0	2716.6	80	2716.6	80	2726.6

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	80	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	80	9.78	9.78	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

			Left OB	Channel	Right OB
E.G. Elev (ft)	2718.14	Element			
Vel Head (ft)	0.22	Wt. n-Val.		0.016	
W.S. Elev (ft)	2717.91	Reach Len. (ft)	9.78	9.78	9.78
Crit W.S. (ft)	2717.51	Flow Area (sq ft)		105.10	
E.G. Slope (ft/ft)	*0.001219	Area (sq ft)		105.10	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	80.00	Top Width (ft)		80.00	
Vel Total (ft/s)	3.81	Avg. Vel. (ft/s)		3.81	
Max Chl Dpth (ft)	1.31	Hydr. Depth (ft)		1.31	
Conv. Total (cfs)	11458.1	Conv. (cfs)		11458.1	
Length Wtd. (ft)	9.78	Wetted Per. (ft)		82.63	
Min Ch El (ft)	2716.60	Shear (lb/sq ft)		0.10	
Alpha	1.00	Stream Power (lb/ft s)		0.37	
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)		0.42	
C & E Loss (ft)	0.01	Cum SA (acres)		0.30	

Note: Hydraulic jump has occurred between this cross section and the previous upstream section.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 542.444*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2726.48	0	2716.48	80	2716.48	80	2726.48

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	80	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	80	9.78	9.78	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

			Left OB	Channel	Right OB
E.G. Elev (ft)	2718.12	Element			
Vel Head (ft)	0.18	Wt. n-Val.		0.016	
W.S. Elev (ft)	2717.93	Reach Len. (ft)	9.78	9.78	9.78
Crit W.S. (ft)		Flow Area (sq ft)		116.15	
E.G. Slope (ft/ft)	*0.000877	Area (sq ft)		116.15	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	80.00	Top Width (ft)		80.00	
Vel Total (ft/s)	3.44	Avg. Vel. (ft/s)		3.44	
Max Chl Dpth (ft)	1.45	Hydr. Depth (ft)		1.45	
Conv. Total (cfs)	13506.4	Conv. (cfs)		13506.4	
Length Wtd. (ft)	9.78	Wetted Per. (ft)		82.90	
Min Ch El (ft)	2716.48	Shear (lb/sq ft)		0.08	
Alpha	1.00	Stream Power (lb/ft s)		0.26	
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)		0.40	
C & E Loss (ft)	0.01	Cum SA (acres)		0.29	

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 532.666*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2726.36	0	2716.36	80	2716.36	80	2726.36

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	80	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	80	9.78	9.78	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

			Left OB	Channel	Right OB
E.G. Elev (ft)	2718.10	Element			
Vel Head (ft)	0.15	Wt. n-Val.		0.016	
W.S. Elev (ft)	2717.95	Reach Len. (ft)	9.78	9.78	9.78
Crit W.S. (ft)		Flow Area (sq ft)		126.80	
E.G. Slope (ft/ft)	*0.000658	Area (sq ft)		126.80	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	80.00	Top Width (ft)		80.00	
Vel Total (ft/s)	3.15	Avg. Vel. (ft/s)		3.15	
Max Chl Dpth (ft)	1.58	Hydr. Depth (ft)		1.58	
Conv. Total (cfs)	15598.3	Conv. (cfs)		15598.3	
Length Wtd. (ft)	9.78	Wetted Per. (ft)		83.17	

* Min Ch El (ft)	* 2716.36	* Shear (lb/sq ft)	*	* 0.06	*	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 0.20	*	*
* Frctn Loss (ft)	* 0.01	* Cum Volume (acre-ft)	*	* 0.37	*	*
* C & E Loss (ft)	* 0.01	* Cum SA (acres)	*	* 0.27	*	*

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 522.888*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2726.25	0	2716.25	80	2716.25	80	2726.25

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	80	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	80	9.78	9.78	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

			Left OB	Channel	Right OB
* E.G. Elev (ft)	* 2718.09	* Element		* 0.016	
* Vel Head (ft)	* 0.13	* Wt. n-Val.		* 0.016	
* W.S. Elev (ft)	* 2717.95	* Reach Len. (ft)	* 9.78	* 9.78	* 9.78
* Crit W.S. (ft)	*	* Flow Area (sq ft)		* 136.31	
* E.G. Slope (ft/ft)	*0.000519	* Area (sq ft)		* 136.31	
* Q Total (cfs)	* 400.00	* Flow (cfs)		* 400.00	
* Top Width (ft)	* 80.00	* Top Width (ft)		* 80.00	
* Vel Total (ft/s)	* 2.93	* Avg. Vel. (ft/s)		* 2.93	
* Max Chl Dpth (ft)	* 1.70	* Hydr. Depth (ft)		* 1.70	
* Conv. Total (cfs)	* 17563.5	* Conv. (cfs)		* 17563.5	
* Length Wtd. (ft)	* 9.78	* Wetted Per. (ft)		* 83.41	
* Min Ch El (ft)	* 2716.25	* Shear (lb/sq ft)		* 0.05	
* Alpha	* 1.00	* Stream Power (lb/ft s)		* 0.16	
* Frctn Loss (ft)	* 0.00	* Cum Volume (acre-ft)		* 0.34	
* C & E Loss (ft)	* 0.01	* Cum SA (acres)		* 0.25	

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 513.111*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2726.13	0	2716.13	80	2716.13	80	2726.13

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.016	0	.016	80	.016

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	80	9.78	9.78	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

			Left OB	Channel	Right OB
* E.G. Elev (ft)	* 2718.08	* Element		* 0.016	
* Vel Head (ft)	* 0.12	* Wt. n-Val.		* 0.016	
* W.S. Elev (ft)	* 2717.96	* Reach Len. (ft)	* 9.78	* 9.78	* 9.78
* Crit W.S. (ft)	*	* Flow Area (sq ft)		* 146.56	
* E.G. Slope (ft/ft)	*0.000409	* Area (sq ft)		* 146.56	
* Q Total (cfs)	* 400.00	* Flow (cfs)		* 400.00	
* Top Width (ft)	* 80.00	* Top Width (ft)		* 80.00	
* Vel Total (ft/s)	* 2.73	* Avg. Vel. (ft/s)		* 2.73	
* Max Chl Dpth (ft)	* 1.83	* Hydr. Depth (ft)		* 1.83	
* Conv. Total (cfs)	* 19779.7	* Conv. (cfs)		* 19779.7	
* Length Wtd. (ft)	* 9.78	* Wetted Per. (ft)		* 83.66	
* Min Ch El (ft)	* 2716.13	* Shear (lb/sq ft)		* 0.04	
* Alpha	* 1.00	* Stream Power (lb/ft s)		* 0.12	
* Frctn Loss (ft)	* 0.00	* Cum Volume (acre-ft)		* 0.31	
* C & E Loss (ft)	* 0.00	* Cum SA (acres)		* 0.23	

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 503.333*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2726.01	0	2716.01	80	2716.01	80	2726.01

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	80	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	80	9.78	9.78	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

			Left OB	Channel	Right OB
* E.G. Elev (ft)	* 2718.07	* Element		* 0.015	
* Vel Head (ft)	* 0.10	* Wt. n-Val.		* 0.015	
* W.S. Elev (ft)	* 2717.97	* Reach Len. (ft)	* 9.78	* 9.78	* 9.78
* Crit W.S. (ft)	*	* Flow Area (sq ft)		* 156.70	
* E.G. Slope (ft/ft)	*0.000289	* Area (sq ft)		* 156.70	
* Q Total (cfs)	* 400.00	* Flow (cfs)		* 400.00	
* Top Width (ft)	* 80.00	* Top Width (ft)		* 80.00	
* Vel Total (ft/s)	* 2.55	* Avg. Vel. (ft/s)		* 2.55	
* Max Chl Dpth (ft)	* 1.96	* Hydr. Depth (ft)		* 1.96	
* Conv. Total (cfs)	* 23538.6	* Conv. (cfs)		* 23538.6	
* Length Wtd. (ft)	* 9.78	* Wetted Per. (ft)		* 83.92	
* Min Ch El (ft)	* 2716.01	* Shear (lb/sq ft)		* 0.03	
* Alpha	* 1.00	* Stream Power (lb/ft s)		* 0.09	
* Frctn Loss (ft)	* 0.00	* Cum Volume (acre-ft)		* 0.28	
* C & E Loss (ft)	* 0.00	* Cum SA (acres)		* 0.21	

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 493.555*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2725.89	0	2715.89	80	2715.89	80	2725.89

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	80	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	80	9.78	9.78	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

			Left OB	Channel	Right OB
* E.G. Elev (ft)	* 2718.06	* Element		* 0.015	
* Vel Head (ft)	* 0.09	* Wt. n-Val.		* 0.015	
* W.S. Elev (ft)	* 2717.97	* Reach Len. (ft)	* 9.78	* 9.78	* 9.78
* Crit W.S. (ft)	*	* Flow Area (sq ft)		* 166.76	
* E.G. Slope (ft/ft)	*0.000236	* Area (sq ft)		* 166.76	

* Q Total (cfs)	* 400.00	* Flow (cfs)	*	* 400.00	*	*	*
* Top Width (ft)	* 80.00	* Top Width (ft)	*	* 80.00	*	*	*
* Vel Total (ft/s)	* 2.40	* Avg. Vel. (ft/s)	*	* 2.40	*	*	*
* Max Chl Dpth (ft)	* 2.08	* Hydr. Depth (ft)	*	* 2.08	*	*	*
* Conv. Total (cfs)	* 26058.3	* Conv. (cfs)	*	* 26058.3	*	*	*
* Length Wtd. (ft)	* 9.78	* Wetted Per. (ft)	*	* 84.17	*	*	*
* Min Ch El (ft)	* 2715.89	* Shear (lb/sq ft)	*	* 0.03	*	*	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 0.07	*	*	*
* Frctn Loss (ft)	* 0.00	* Cum Volume (acre-ft)	*	* 0.24	*	*	*
* C & E Loss (ft)	* 0.00	* Cum SA (acres)	*	* 0.20	*	*	*

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 483.777*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2725.78	0	2715.78	80	2715.78	80	2725.78

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	80	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	80	9.78	9.78	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2718.06	* Element	* Left OB *	Channel *	Right OB *
* Vel Head (ft)	* 0.08	* Wt. n-Val.	*	* 0.015 *	*
* W.S. Elev (ft)	* 2717.98	* Reach Len. (ft)	* 9.78 *	9.78 *	9.78 *
* Crit W.S. (ft)	*	* Flow Area (sq ft)	*	* 175.88 *	*
* E.G. Slope (ft/ft)	*0.000198	* Area (sq ft)	*	* 175.88 *	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	* 400.00 *	*
* Top Width (ft)	* 80.00	* Top Width (ft)	*	* 80.00 *	*
* Vel Total (ft/s)	* 2.27	* Avg. Vel. (ft/s)	*	* 2.27 *	*
* Max Chl Dpth (ft)	* 2.20	* Hydr. Depth (ft)	*	* 2.20 *	*
* Conv. Total (cfs)	* 28425.6	* Conv. (cfs)	*	* 28425.6 *	*
* Length Wtd. (ft)	* 9.78	* Wetted Per. (ft)	*	* 84.40 *	*
* Min Ch El (ft)	* 2715.78	* Shear (lb/sq ft)	*	* 0.03 *	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 0.06 *	*
* Frctn Loss (ft)	* 0.00	* Cum Volume (acre-ft)	*	* 0.20 *	*
* C & E Loss (ft)	* 0.00	* Cum SA (acres)	*	* 0.18 *	*

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 474

INPUT
Description: Connects to Culvert
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2725.66	0	2715.66	80	2715.66	80	2725.66

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	80	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	80	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2718.06	* Element	* Left OB *	Channel *	Right OB *
* Vel Head (ft)	* 0.07	* Wt. n-Val.	*	* 0.015 *	*

* W.S. Elev (ft)	* 2717.98	* Reach Len. (ft)	* 10.00	* 10.00	* 10.00	*	*
* Crit W.S. (ft)	*	* Flow Area (sq ft)	*	* 185.82	*	*	*
* E.G. Slope (ft/ft)	*0.000166	* Area (sq ft)	*	* 185.82	*	*	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	* 400.00	*	*	*
* Top Width (ft)	* 80.00	* Top Width (ft)	*	* 80.00	*	*	*
* Vel Total (ft/s)	* 2.15	* Avg. Vel. (ft/s)	*	* 2.15	*	*	*
* Max Chl Dpth (ft)	* 2.32	* Hydr. Depth (ft)	*	* 2.32	*	*	*
* Conv. Total (cfs)	* 31092.6	* Conv. (cfs)	*	* 31092.6	*	*	*
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	*	* 84.65	*	*	*
* Min Ch El (ft)	* 2715.66	* Shear (lb/sq ft)	*	* 0.02	*	*	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 0.05	*	*	*
* Frctn Loss (ft)	* 0.00	* Cum Volume (acre-ft)	*	* 0.16	*	*	*
* C & E Loss (ft)	* 0.01	* Cum SA (acres)	*	* 0.16	*	*	*

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 464.*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2725.54	0	2715.54	50	2715.54	50	2725.54

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	50	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2718.04	* Element	* Left OB *	Channel *	Right OB *
* Vel Head (ft)	* 0.19	* Wt. n-Val.	*	* 0.015 *	*
* W.S. Elev (ft)	* 2717.86	* Reach Len. (ft)	* 10.00 *	10.00 *	10.00 *
* Crit W.S. (ft)	*	* Flow Area (sq ft)	*	* 115.80 *	*
* E.G. Slope (ft/ft)	*0.000447	* Area (sq ft)	*	* 115.80 *	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	* 400.00 *	*
* Top Width (ft)	* 50.00	* Top Width (ft)	*	* 50.00 *	*
* Vel Total (ft/s)	* 3.45	* Avg. Vel. (ft/s)	*	* 3.45 *	*
* Max Chl Dpth (ft)	* 2.32	* Hydr. Depth (ft)	*	* 2.32 *	*
* Conv. Total (cfs)	* 18927.6	* Conv. (cfs)	*	* 18927.6 *	*
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	*	* 54.63 *	*
* Min Ch El (ft)	* 2715.54	* Shear (lb/sq ft)	*	* 0.06 *	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 0.20 *	*
* Frctn Loss (ft)	* 0.01	* Cum Volume (acre-ft)	*	* 0.13 *	*
* C & E Loss (ft)	* 0.01	* Cum SA (acres)	*	* 0.15 *	*

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 454.*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2725.42	0	2715.42	40	2715.42	40	2725.42

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	40	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.

0	40		10	10	10		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2718.03	* Element	* Left OB *	Channel	* Right OB *			
* Vel Head (ft)	* 0.29	* Wt. n-Val.	*	0.015	*			
* W.S. Elev (ft)	* 2717.74	* Reach Len. (ft)	* 10.00 *	10.00	* 10.00 *			
* Crit W.S. (ft)	*	* Flow Area (sq ft)	*	92.63	*			
* E.G. Slope (ft/ft)	*0.000718	* Area (sq ft)	*	92.63	*			
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	400.00	*			
* Top Width (ft)	* 40.00	* Top Width (ft)	*	40.00	*			
* Vel Total (ft/s)	* 4.32	* Avg. Vel. (ft/s)	*	4.32	*			
* Max Chl Dpth (ft)	* 2.32	* Hydr. Depth (ft)	*	2.32	*			
* Conv. Total (cfs)	* 14929.3	* Conv. (cfs)	*	14929.3	*			
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	*	44.63	*			
* Min Ch El (ft)	* 2715.42	* Shear (lb/sq ft)	*	0.09	*			
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	0.40	*			
* Frctn Loss (ft)	* 0.02	* Cum Volume (acre-ft)	*	0.10	*			
* C & E Loss (ft)	* 0.06	* Cum SA (acres)	*	0.14	*			

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 444

INPUT
Description: Connects to Culvert
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2725.3	0	2715.3	30	2715.3	30	2725.3

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.02	0	.02	30	.02

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	30	10	10	10	.1 .3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2717.95	* Element	* Left OB *	Channel	* Right OB *			
* Vel Head (ft)	* 0.89	* Wt. n-Val.	*	0.020	*			
* W.S. Elev (ft)	* 2717.06	* Reach Len. (ft)	* 10.00 *	10.00	* 10.00 *			
* Crit W.S. (ft)	* 2717.06	* Flow Area (sq ft)	*	52.83	*			
* E.G. Slope (ft/ft)	*0.005663	* Area (sq ft)	*	52.83	*			
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	400.00	*			
* Top Width (ft)	* 30.00	* Top Width (ft)	*	30.00	*			
* Vel Total (ft/s)	* 7.57	* Avg. Vel. (ft/s)	*	7.57	*			
* Max Chl Dpth (ft)	* 1.76	* Hydr. Depth (ft)	*	1.76	*			
* Conv. Total (cfs)	* 5315.5	* Conv. (cfs)	*	5315.5	*			
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	*	33.52	*			
* Min Ch El (ft)	* 2715.30	* Shear (lb/sq ft)	*	0.56	*			
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	4.22	*			
* Frctn Loss (ft)	* 0.06	* Cum Volume (acre-ft)	*	0.09	*			
* C & E Loss (ft)	* 0.00	* Cum SA (acres)	*	0.13	*			

Warning: The energy equation could not be balanced within the specified number of iterations. The program selected the water surface that had the least amount of error between computed and assumed values.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 434.*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2725.15	0	2715.15	30	2715.15	30	2725.15

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.02	0	.02	30	.02

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	30	10	10	10	.1 .3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2717.86	* Element	* Left OB *	Channel	* Right OB *			
* Vel Head (ft)	* 1.18	* Wt. n-Val.	*	0.020	*			
* W.S. Elev (ft)	* 2716.68	* Reach Len. (ft)	* 10.00 *	10.00	* 10.00 *			
* Crit W.S. (ft)	* 2716.91	* Flow Area (sq ft)	*	45.93	*			
* E.G. Slope (ft/ft)	*0.008864	* Area (sq ft)	*	45.93	*			
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	400.00	*			
* Top Width (ft)	* 30.00	* Top Width (ft)	*	30.00	*			
* Vel Total (ft/s)	* 8.71	* Avg. Vel. (ft/s)	*	8.71	*			
* Max Chl Dpth (ft)	* 1.53	* Hydr. Depth (ft)	*	1.53	*			
* Conv. Total (cfs)	* 4248.6	* Conv. (cfs)	*	4248.6	*			
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	*	33.06	*			
* Min Ch El (ft)	* 2715.15	* Shear (lb/sq ft)	*	0.77	*			
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	6.70	*			
* Frctn Loss (ft)	* 0.07	* Cum Volume (acre-ft)	*	0.08	*			
* C & E Loss (ft)	* 0.03	* Cum SA (acres)	*	0.12	*			

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 424

INPUT
Description: Connects to Culvert
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2725	0	2715	30	2715	30	2725

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.02	0	.02	30	.02

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	30	10	10	10	.1 .3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2717.75	* Element	* Left OB *	Channel	* Right OB *			
* Vel Head (ft)	* 1.29	* Wt. n-Val.	*	0.020	*			
* W.S. Elev (ft)	* 2716.46	* Reach Len. (ft)	* 10.00 *	10.00	* 10.00 *			
* Crit W.S. (ft)	* 2716.76	* Flow Area (sq ft)	*	43.92	*			
* E.G. Slope (ft/ft)	*0.010232	* Area (sq ft)	*	43.92	*			
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	400.00	*			
* Top Width (ft)	* 30.00	* Top Width (ft)	*	30.00	*			
* Vel Total (ft/s)	* 9.11	* Avg. Vel. (ft/s)	*	9.11	*			
* Max Chl Dpth (ft)	* 1.46	* Hydr. Depth (ft)	*	1.46	*			
* Conv. Total (cfs)	* 3954.4	* Conv. (cfs)	*	3954.4	*			
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	*	32.93	*			
* Min Ch El (ft)	* 2715.00	* Shear (lb/sq ft)	*	0.85	*			
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	7.76	*			

* Frctn Loss (ft)	* 0.10	* Cum Volume (acre-ft)	*	* 0.07	*	*
* C & E Loss (ft)	* 0.01	* Cum SA (acres)	*	* 0.11	*	*

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 414.*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2722.5	0	2712.5	30	2712.5	30	2722.5

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.02	0	.02	30	.02

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
0 30 10 10 10 .1 .3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2717.27	* Element	* Left OB *	Channel *	Right OB *
* Vel Head (ft)	* 3.93	* Wt. n-Val.	*	* 0.020 *	*
* W.S. Elev (ft)	* 2713.34	* Reach Len. (ft)	* 10.00 *	10.00 *	10.00 *
* Crit W.S. (ft)	* 2714.26	* Flow Area (sq ft)	*	* 25.13 *	*
* E.G. Slope (ft/ft)	*0.062500	* Area (sq ft)	*	* 25.13 *	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	* 400.00 *	*
* Top Width (ft)	* 30.00	* Top Width (ft)	*	* 30.00 *	*
* Vel Total (ft/s)	* 15.92	* Avg. Vel. (ft/s)	*	* 15.92 *	*
* Max Chl Dpth (ft)	* 0.84	* Hydr. Depth (ft)	*	* 0.84 *	*
* Conv. Total (cfs)	* 1600.0	* Conv. (cfs)	*	* 1600.0 *	*
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	*	* 31.68 *	*
* Min Ch El (ft)	* 2712.50	* Shear (lb/sq ft)	*	* 3.10 *	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 49.27 *	*
* Frctn Loss (ft)	* 0.21	* Cum Volume (acre-ft)	*	* 0.06 *	*
* C & E Loss (ft)	* 0.26	* Cum SA (acres)	*	* 0.11 *	*

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4. This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 404.*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2720	0	2710	30	2710	30	2720

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.02	0	.02	30	.02

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
0 30 10 10 10 .1 .3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2716.29	* Element	* Left OB *	Channel *	Right OB *
* Vel Head (ft)	* 5.58	* Wt. n-Val.	*	* 0.020 *	*
* W.S. Elev (ft)	* 2710.70	* Reach Len. (ft)	* 10.00 *	10.00 *	10.00 *
* Crit W.S. (ft)	* 2711.76	* Flow Area (sq ft)	*	* 21.09 *	*
* E.G. Slope (ft/ft)	*0.110756	* Area (sq ft)	*	* 21.09 *	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	* 400.00 *	*
* Top Width (ft)	* 30.00	* Top Width (ft)	*	* 30.00 *	*
* Vel Total (ft/s)	* 18.96	* Avg. Vel. (ft/s)	*	* 18.96 *	*
* Max Chl Dpth (ft)	* 0.70	* Hydr. Depth (ft)	*	* 0.70 *	*
* Conv. Total (cfs)	* 1201.9	* Conv. (cfs)	*	* 1201.9 *	*
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	*	* 31.41 *	*
* Min Ch El (ft)	* 2710.00	* Shear (lb/sq ft)	*	* 4.64 *	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 88.06 *	*
* Frctn Loss (ft)	* 0.82	* Cum Volume (acre-ft)	*	* 0.05 *	*
* C & E Loss (ft)	* 0.16	* Cum SA (acres)	*	* 0.10 *	*

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 394.*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2717.5	0	2707.5	30	2707.5	30	2717.5

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.02	0	.02	30	.02

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
0 30 10 10 10 .1 .3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2714.89	* Element	* Left OB *	Channel *	Right OB *
* Vel Head (ft)	* 6.75	* Wt. n-Val.	*	* 0.020 *	*
* W.S. Elev (ft)	* 2708.14	* Reach Len. (ft)	* 10.00 *	10.00 *	10.00 *
* Crit W.S. (ft)	* 2709.26	* Flow Area (sq ft)	*	* 19.19 *	*
* E.G. Slope (ft/ft)	*0.151005	* Area (sq ft)	*	* 19.19 *	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	* 400.00 *	*
* Top Width (ft)	* 30.00	* Top Width (ft)	*	* 30.00 *	*
* Vel Total (ft/s)	* 20.84	* Avg. Vel. (ft/s)	*	* 20.84 *	*
* Max Chl Dpth (ft)	* 0.64	* Hydr. Depth (ft)	*	* 0.64 *	*
* Conv. Total (cfs)	* 1029.4	* Conv. (cfs)	*	* 1029.4 *	*
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	*	* 31.28 *	*
* Min Ch El (ft)	* 2707.50	* Shear (lb/sq ft)	*	* 5.78 *	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	* 120.56 *	*
* Frctn Loss (ft)	* 1.29	* Cum Volume (acre-ft)	*	* 0.05 *	*
* C & E Loss (ft)	* 0.12	* Cum SA (acres)	*	* 0.09 *	*

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 384.*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2715	0	2705	30	2705	30	2715

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.02	0	.02	30	.02

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

Left	Right	Left Channel	Channel	Right	Coeff Contr.	Expan.
0	30		10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2713.16	Element	Left OB	Channel	Right OB
Vel Head (ft)	7.55	Wt. n-Val.		0.020	
W.S. Elev (ft)	2705.60	Reach Len. (ft)	10.00	10.00	10.00
Crit W.S. (ft)	2706.76	Flow Area (sq ft)		18.13	
E.G. Slope (ft/ft)	*0.181770	Area (sq ft)		18.13	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	30.00	Top Width (ft)		30.00	
Vel Total (ft/s)	22.06	Avg. Vel. (ft/s)		22.06	
Max Chl Dpth (ft)	0.60	Hydr. Depth (ft)		0.60	
Conv. Total (cfs)	938.2	Conv. (cfs)		938.2	
Length Wtd. (ft)	10.00	Wetted Per. (ft)		31.21	
Min Ch El (ft)	2705.00	Shear (lb/sq ft)		6.59	
Alpha	1.00	Stream Power (lb/ft s)		145.44	
Frctn Loss (ft)	1.65	Cum Volume (acre-ft)		0.04	
C & E Loss (ft)	0.08	Cum SA (acres)		0.09	

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 374.*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2712.5	0	2702.5	30	2702.5	30	2712.5

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.02	0	.02	30	.02

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

Left	Right	Left Channel	Channel	Right	Coeff Contr.	Expan.
0	30		10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2711.19	Element	Left OB	Channel	Right OB
Vel Head (ft)	8.10	Wt. n-Val.		0.020	
W.S. Elev (ft)	2703.08	Reach Len. (ft)	10.00	10.00	10.00
Crit W.S. (ft)	2704.26	Flow Area (sq ft)		17.51	
E.G. Slope (ft/ft)	*0.203856	Area (sq ft)		17.51	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	30.00	Top Width (ft)		30.00	
Vel Total (ft/s)	22.84	Avg. Vel. (ft/s)		22.84	
Max Chl Dpth (ft)	0.58	Hydr. Depth (ft)		0.58	
Conv. Total (cfs)	885.9	Conv. (cfs)		885.9	
Length Wtd. (ft)	10.00	Wetted Per. (ft)		31.17	
Min Ch El (ft)	2702.50	Shear (lb/sq ft)		7.15	
Alpha	1.00	Stream Power (lb/ft s)		163.33	
Frctn Loss (ft)	1.92	Cum Volume (acre-ft)		0.04	
C & E Loss (ft)	0.05	Cum SA (acres)		0.08	

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.

Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 364

INPUT
Description: Connects to Culvert
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2710	0	2700	30	2700	30	2710

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	30	.015

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

Left	Right	Left Channel	Channel	Right	Coeff Contr.	Expan.
0	30		10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2709.47	Element	Left OB	Channel	Right OB
Vel Head (ft)	8.91	Wt. n-Val.		0.015	
W.S. Elev (ft)	2700.56	Reach Len. (ft)	10.00	10.00	10.00
Crit W.S. (ft)	2701.76	Flow Area (sq ft)		16.70	
E.G. Slope (ft/ft)	*0.134046	Area (sq ft)		16.70	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	30.00	Top Width (ft)		30.00	
Vel Total (ft/s)	23.95	Avg. Vel. (ft/s)		23.95	
Max Chl Dpth (ft)	0.56	Hydr. Depth (ft)		0.56	
Conv. Total (cfs)	1092.5	Conv. (cfs)		1092.5	
Length Wtd. (ft)	10.00	Wetted Per. (ft)		31.11	
Min Ch El (ft)	2700.00	Shear (lb/sq ft)		4.49	
Alpha	1.00	Stream Power (lb/ft s)		107.59	
Frctn Loss (ft)	1.64	Cum Volume (acre-ft)		0.04	
C & E Loss (ft)	0.08	Cum SA (acres)		0.07	

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 354.*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2710	0	2700	40	2700	40	2710

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	40	.015

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

Left	Right	Left Channel	Channel	Right	Coeff Contr.	Expan.
0	40		10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2707.60	Element	Left OB	Channel	Right OB
Vel Head (ft)	7.13	Wt. n-Val.		0.015	
W.S. Elev (ft)	2700.47	Reach Len. (ft)	10.00	10.00	10.00

* Crit W.S. (ft)	* 2701.46	* Flow Area (sq ft)	*	*	18.66	*	*
* E.G. Slope (ft/ft)	*0.133416	* Area (sq ft)	*	*	18.66	*	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	*	400.00	*	*
* Top Width (ft)	* 40.00	* Top Width (ft)	*	*	40.00	*	*
* Vel Total (ft/s)	* 21.43	* Avg. Vel. (ft/s)	*	*	21.43	*	*
* Max Chl Dpth (ft)	* 0.47	* Hydr. Depth (ft)	*	*	0.47	*	*
* Conv. Total (cfs)	* 1095.1	* Conv. (cfs)	*	*	1095.1	*	*
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	*	*	40.93	*	*
* Min Ch El (ft)	* 2700.00	* Shear (lb/sq ft)	*	*	3.80	*	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	*	81.39	*	*
* Frctn Loss (ft)	* 1.34	* Cum Volume (acre-ft)	*	*	0.03	*	*
* C & E Loss (ft)	* 0.53	* Cum SA (acres)	*	*	0.06	*	*

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 344.*

INPUT
Description:
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2709.99	0	2699.99	50	2699.99	50	2709.99

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	50	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	50	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2705.87	* Element	*	Left OB *	Channel	*	Right OB *
* Vel Head (ft)	* 5.45	* Wt. n-Val.	*	*	0.015	*	*
* W.S. Elev (ft)	* 2700.42	* Reach Len. (ft)	*	10.00 *	10.00	*	10.00 *
* Crit W.S. (ft)	* 2701.24	* Flow Area (sq ft)	*	*	21.35	*	*
* E.G. Slope (ft/ft)	*0.113784	* Area (sq ft)	*	*	21.35	*	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	*	400.00	*	*
* Top Width (ft)	* 50.00	* Top Width (ft)	*	*	50.00	*	*
* Vel Total (ft/s)	* 18.74	* Avg. Vel. (ft/s)	*	*	18.74	*	*
* Max Chl Dpth (ft)	* 0.43	* Hydr. Depth (ft)	*	*	0.43	*	*
* Conv. Total (cfs)	* 1185.8	* Conv. (cfs)	*	*	1185.8	*	*
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	*	*	50.85	*	*
* Min Ch El (ft)	* 2699.99	* Shear (lb/sq ft)	*	*	2.98	*	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	*	55.87	*	*
* Frctn Loss (ft)	* 1.23	* Cum Volume (acre-ft)	*	*	0.03	*	*
* C & E Loss (ft)	* 0.50	* Cum SA (acres)	*	*	0.05	*	*

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 334

INPUT
Description: Connects to Culvert
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2709.99	0	2699.99	60	2699.99	60	2709.99

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	60	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	60	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2704.46	* Element	*	Left OB *	Channel	*	Right OB *
* Vel Head (ft)	* 4.05	* Wt. n-Val.	*	*	0.015	*	*
* W.S. Elev (ft)	* 2700.40	* Reach Len. (ft)	*	10.00 *	10.00	*	10.00 *
* Crit W.S. (ft)	* 2701.10	* Flow Area (sq ft)	*	*	24.76	*	*
* E.G. Slope (ft/ft)	*0.088206	* Area (sq ft)	*	*	24.76	*	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	*	400.00	*	*
* Top Width (ft)	* 60.00	* Top Width (ft)	*	*	60.00	*	*
* Vel Total (ft/s)	* 16.16	* Avg. Vel. (ft/s)	*	*	16.16	*	*
* Max Chl Dpth (ft)	* 0.41	* Hydr. Depth (ft)	*	*	0.41	*	*
* Conv. Total (cfs)	* 1346.8	* Conv. (cfs)	*	*	1346.8	*	*
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	*	*	60.83	*	*
* Min Ch El (ft)	* 2699.99	* Shear (lb/sq ft)	*	*	2.24	*	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	*	36.21	*	*
* Frctn Loss (ft)	* 1.00	* Cum Volume (acre-ft)	*	*	0.02	*	*
* C & E Loss (ft)	* 0.42	* Cum SA (acres)	*	*	0.04	*	*

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.
Warning: The energy loss was greater than 1.0 ft (0.3 m). between the current and previous cross section.
This may indicate the need for additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 324

INPUT
Description: Connects to Culvert
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2709.98	0	2699.98	60	2699.98	60	2709.98

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	60	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	60	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

* E.G. Elev (ft)	* 2703.47	* Element	*	Left OB *	Channel	*	Right OB *
* Vel Head (ft)	* 3.01	* Wt. n-Val.	*	*	0.015	*	*
* W.S. Elev (ft)	* 2700.46	* Reach Len. (ft)	*	10.00 *	10.00	*	10.00 *
* Crit W.S. (ft)	* 2701.09	* Flow Area (sq ft)	*	*	28.73	*	*
* E.G. Slope (ft/ft)	*0.053883	* Area (sq ft)	*	*	28.73	*	*
* Q Total (cfs)	* 400.00	* Flow (cfs)	*	*	400.00	*	*
* Top Width (ft)	* 60.00	* Top Width (ft)	*	*	60.00	*	*
* Vel Total (ft/s)	* 13.92	* Avg. Vel. (ft/s)	*	*	13.92	*	*
* Max Chl Dpth (ft)	* 0.48	* Hydr. Depth (ft)	*	*	0.48	*	*
* Conv. Total (cfs)	* 1723.2	* Conv. (cfs)	*	*	1723.2	*	*
* Length Wtd. (ft)	* 10.00	* Wetted Per. (ft)	*	*	60.96	*	*
* Min Ch El (ft)	* 2699.98	* Shear (lb/sq ft)	*	*	1.59	*	*
* Alpha	* 1.00	* Stream Power (lb/ft s)	*	*	22.07	*	*
* Frctn Loss (ft)	* 0.68	* Cum Volume (acre-ft)	*	*	0.02	*	*
* C & E Loss (ft)	* 0.31	* Cum SA (acres)	*	*	0.03	*	*

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 314

INPUT
Description: Connects to Culvert
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2709.97	0	2699.97	60	2699.97	60	2709.97

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	60	.015

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
0	60	10	10	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2702.84	Element	Left OB	Channel	Right OB
Vel Head (ft)	2.32	Wt. n-Val.		0.015	
W.S. Elev (ft)	2700.52	Reach Len. (ft)	10.00	10.00	10.00
Crit W.S. (ft)	2701.08	Flow Area (sq ft)		32.70	
E.G. Slope (ft/ft)	*0.035101	Area (sq ft)		32.70	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	60.00	Top Width (ft)		60.00	
Vel Total (ft/s)	12.23	Avg. Vel. (ft/s)		12.23	
Max Chl Dpth (ft)	0.54	Hydr. Depth (ft)		0.54	
Conv. Total (cfs)	2135.0	Conv. (cfs)		2135.0	
Length Wtd. (ft)	10.00	Wetted Per. (ft)		61.09	
Min Ch El (ft)	2699.97	Shear (lb/sq ft)		1.17	
Alpha	1.00	Stream Power (lb/ft s)		14.35	
Frctn Loss (ft)	0.43	Cum Volume (acre-ft)		0.01	
C & E Loss (ft)	0.21	Cum SA (acres)		0.01	

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for
additional cross sections.

CROSS SECTION

RIVER: Peaceful D to DB
REACH: Main RS: 304

INPUT
Description: Connects to Culvert
Station Elevation Data num= 4

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	2709.96	0	2699.96	60	2699.96	60	2709.96

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.015	0	.015	60	.015

Bank Sta: Left	Right	Coeff Contr.	Expan.
0	60	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	2702.41	Element	Left OB	Channel	Right OB
Vel Head (ft)	1.83	Wt. n-Val.		0.015	
W.S. Elev (ft)	2700.57	Reach Len. (ft)			
Crit W.S. (ft)	2701.07	Flow Area (sq ft)		36.84	
E.G. Slope (ft/ft)	*0.023649	Area (sq ft)		36.84	
Q Total (cfs)	400.00	Flow (cfs)		400.00	
Top Width (ft)	60.00	Top Width (ft)		60.00	
Vel Total (ft/s)	10.86	Avg. Vel. (ft/s)		10.86	
Max Chl Dpth (ft)	0.61	Hydr. Depth (ft)		0.61	
Conv. Total (cfs)	2601.1	Conv. (cfs)		2601.1	
Length Wtd. (ft)		Wetted Per. (ft)		61.23	
Min Ch El (ft)	2699.96	Shear (lb/sq ft)		0.89	
Alpha	1.00	Stream Power (lb/ft s)		9.65	
Frctn Loss (ft)	0.29	Cum Volume (acre-ft)			
C & E Loss (ft)	0.15	Cum SA (acres)			

SUMMARY OF MANNING'S N VALUES

River:Peaceful D to DB

Reach	River Sta.	n1	n2	n3
Main	1310	.013	.016	.013
Main	1300.*	.013	.016	.013
Main	1290.*	.013	.016	.013
Main	1280.*	.013	.016	.013
Main	1270	.013	.016	.013
Main	1260.*	.013	.016	.013
Main	1250.*	.013	.016	.013
Main	1240	.013	.016	.013
Main	1220	.065	.065	.065
Main	1210.83*	.065	.065	.065
Main	1201.66*	.065	.065	.065
Main	1192.5*	.065	.065	.065
Main	1183.33*	.065	.065	.065
Main	1174.16*	.065	.065	.065
Main	1165	.065	.065	.065
Main	1155.31*	.065	.065	.065
Main	1145.62*	.065	.065	.065
Main	1135.93*	.065	.065	.065
Main	1126.25*	.065	.065	.065
Main	1116.56*	.065	.065	.065
Main	1106.87*	.065	.065	.065
Main	1097.18*	.065	.065	.065
Main	1087.5*	.065	.065	.065
Main	1077.81*	.065	.065	.065
Main	1068.12*	.065	.065	.065
Main	1058.43*	.065	.065	.065
Main	1048.75*	.065	.065	.065
Main	1039.06*	.065	.065	.065
Main	1029.37*	.065	.065	.065
Main	1019.68*	.065	.065	.065
Main	1010	.065	.065	.065
Main	1000	.065	.065	.065
Main	999	Culvert		
Main	940	.02	.02	.02
Main	930.666*	.02	.02	.02
Main	921.333*	.02	.02	.02
Main	912.*	.02	.02	.02
Main	902.666*	.02	.02	.02
Main	893.333*	.02	.02	.02
Main	884.*	.02	.02	.02
Main	874.666*	.02	.02	.02
Main	865.333*	.02	.02	.02
Main	856	.02	.02	.02
Main	846.*	.02	.02	.02
Main	836	.02	.02	.02
Main	826	.02	.02	.02
Main	816.222*	.02	.02	.02
Main	806.444*	.02	.02	.02
Main	796.666*	.02	.02	.02
Main	786.888*	.019	.019	.019
Main	777.111*	.019	.019	.019
Main	767.333*	.019	.019	.019
Main	757.555*	.019	.019	.019
Main	747.777*	.019	.019	.019
Main	738.*	.019	.019	.019
Main	728.222*	.019	.019	.019
Main	718.444*	.018	.018	.018

*Main	*	708.666*	*	.018*	.018*	.018*
*Main	*	698.888*	*	.018*	.018*	.018*
*Main	*	689.111*	*	.018*	.018*	.018*
*Main	*	679.333*	*	.018*	.018*	.018*
*Main	*	669.555*	*	.018*	.018*	.018*
*Main	*	659.777*	*	.018*	.018*	.018*
*Main	*	650.*	*	.018*	.018*	.018*
*Main	*	640.222*	*	.017*	.017*	.017*
*Main	*	630.444*	*	.017*	.017*	.017*
*Main	*	620.666*	*	.017*	.017*	.017*
*Main	*	610.888*	*	.017*	.017*	.017*
*Main	*	601.111*	*	.017*	.017*	.017*
*Main	*	591.333*	*	.017*	.017*	.017*
*Main	*	581.555*	*	.017*	.017*	.017*
*Main	*	571.777*	*	.016*	.016*	.016*
*Main	*	562.*	*	.016*	.016*	.016*
*Main	*	552.222*	*	.016*	.016*	.016*
*Main	*	542.444*	*	.016*	.016*	.016*
*Main	*	532.666*	*	.016*	.016*	.016*
*Main	*	522.888*	*	.016*	.016*	.016*
*Main	*	513.111*	*	.016*	.016*	.016*
*Main	*	503.333*	*	.015*	.015*	.015*
*Main	*	493.555*	*	.015*	.015*	.015*
*Main	*	483.777*	*	.015*	.015*	.015*
*Main	*	474	*	.015*	.015*	.015*
*Main	*	464.*	*	.015*	.015*	.015*
*Main	*	454.*	*	.015*	.015*	.015*
*Main	*	444	*	.02*	.02*	.02*
*Main	*	434.*	*	.02*	.02*	.02*
*Main	*	424	*	.02*	.02*	.02*
*Main	*	414.*	*	.02*	.02*	.02*
*Main	*	404.*	*	.02*	.02*	.02*
*Main	*	394.*	*	.02*	.02*	.02*
*Main	*	384.*	*	.02*	.02*	.02*
*Main	*	374.*	*	.02*	.02*	.02*
*Main	*	364	*	.015*	.015*	.015*
*Main	*	354.*	*	.015*	.015*	.015*
*Main	*	344.*	*	.015*	.015*	.015*
*Main	*	334	*	.015*	.015*	.015*
*Main	*	324	*	.015*	.015*	.015*
*Main	*	314	*	.015*	.015*	.015*
*Main	*	304	*	.015*	.015*	.015*

SUMMARY OF REACH LENGTHS

River: Peaceful D to DB

Reach	River Sta.	Left	Channel	Right
*Main	1310	10*	10*	10*
*Main	1300.*	10*	10*	10*
*Main	1290.*	10*	10*	10*
*Main	1280.*	10*	10*	10*
*Main	1270	10*	10*	10*
*Main	1260.*	10*	10*	10*
*Main	1250.*	10*	10*	10*
*Main	1240	20*	20*	20*
*Main	1220	9.17*	9.17*	9.17*
*Main	1210.83*	9.17*	9.17*	9.17*
*Main	1201.66*	9.17*	9.17*	9.17*
*Main	1192.5*	9.17*	9.17*	9.17*
*Main	1183.33*	9.17*	9.17*	9.17*
*Main	1174.16*	9.17*	9.17*	9.17*
*Main	1165	9.69*	9.69*	9.69*
*Main	1155.31*	9.69*	9.69*	9.69*
*Main	1145.62*	9.69*	9.69*	9.69*
*Main	1135.93*	9.69*	9.69*	9.69*
*Main	1126.25*	9.69*	9.69*	9.69*
*Main	1116.56*	9.69*	9.69*	9.69*
*Main	1106.87*	9.69*	9.69*	9.69*
*Main	1097.18*	9.69*	9.69*	9.69*
*Main	1087.5*	9.69*	9.69*	9.69*
*Main	1077.81*	9.69*	9.69*	9.69*
*Main	1068.12*	9.69*	9.69*	9.69*
*Main	1058.43*	9.69*	9.69*	9.69*
*Main	1048.75*	9.69*	9.69*	9.69*
*Main	1039.06*	9.69*	9.69*	9.69*
*Main	1029.37*	9.69*	9.69*	9.69*
*Main	1019.68*	9.69*	9.69*	9.69*
*Main	1010	10*	10*	10*
*Main	1000	60*	60*	60*
*Main	999	*Culvert	*	*
*Main	940	9.33*	9.33*	9.33*
*Main	930.666*	9.33*	9.33*	9.33*
*Main	921.333*	9.33*	9.33*	9.33*
*Main	912.*	9.33*	9.33*	9.33*
*Main	902.666*	9.33*	9.33*	9.33*
*Main	893.333*	9.33*	9.33*	9.33*
*Main	884.*	9.33*	9.33*	9.33*
*Main	874.666*	9.33*	9.33*	9.33*
*Main	865.333*	9.33*	9.33*	9.33*
*Main	856	10*	10*	10*
*Main	846.*	10*	10*	10*
*Main	836	10*	10*	10*
*Main	826	9.78*	9.78*	9.78*
*Main	816.222*	9.78*	9.78*	9.78*
*Main	806.444*	9.78*	9.78*	9.78*
*Main	796.666*	9.78*	9.78*	9.78*
*Main	786.888*	9.78*	9.78*	9.78*
*Main	777.111*	9.78*	9.78*	9.78*
*Main	767.333*	9.78*	9.78*	9.78*
*Main	757.555*	9.78*	9.78*	9.78*
*Main	747.777*	9.78*	9.78*	9.78*
*Main	738.*	9.78*	9.78*	9.78*
*Main	728.222*	9.78*	9.78*	9.78*
*Main	718.444*	9.78*	9.78*	9.78*
*Main	708.666*	9.78*	9.78*	9.78*
*Main	698.888*	9.78*	9.78*	9.78*
*Main	689.111*	9.78*	9.78*	9.78*
*Main	679.333*	9.78*	9.78*	9.78*
*Main	669.555*	9.78*	9.78*	9.78*
*Main	659.777*	9.78*	9.78*	9.78*
*Main	650.*	9.78*	9.78*	9.78*
*Main	640.222*	9.78*	9.78*	9.78*
*Main	630.444*	9.78*	9.78*	9.78*
*Main	620.666*	9.78*	9.78*	9.78*
*Main	610.888*	9.78*	9.78*	9.78*
*Main	601.111*	9.78*	9.78*	9.78*
*Main	591.333*	9.78*	9.78*	9.78*
*Main	581.555*	9.78*	9.78*	9.78*
*Main	571.777*	9.78*	9.78*	9.78*
*Main	562.*	9.78*	9.78*	9.78*
*Main	552.222*	9.78*	9.78*	9.78*
*Main	542.444*	9.78*	9.78*	9.78*
*Main	532.666*	9.78*	9.78*	9.78*
*Main	522.888*	9.78*	9.78*	9.78*
*Main	513.111*	9.78*	9.78*	9.78*
*Main	503.333*	9.78*	9.78*	9.78*
*Main	493.555*	9.78*	9.78*	9.78*
*Main	483.777*	9.78*	9.78*	9.78*
*Main	474	10*	10*	10*
*Main	464.*	10*	10*	10*
*Main	454.*	10*	10*	10*
*Main	444	10*	10*	10*
*Main	434.*	10*	10*	10*
*Main	424	10*	10*	10*
*Main	414.*	10*	10*	10*
*Main	404.*	10*	10*	10*
*Main	394.*	10*	10*	10*
*Main	384.*	10*	10*	10*
*Main	374.*	10*	10*	10*
*Main	364	10*	10*	10*
*Main	354.*	10*	10*	10*
*Main	344.*	10*	10*	10*
*Main	334	10*	10*	10*
*Main	324	10*	10*	10*
*Main	314	10*	10*	10*
*Main	304	*	*	*

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: Peaceful D to DB

Reach	River Sta.	Contr.	Expan.
*Main	1310	.1*	.3*
*Main	1300.*	.1*	.3*
*Main	1290.*	.1*	.3*
*Main	1280.*	.1*	.3*
*Main	1270	.1*	.3*
*Main	1260.*	.1*	.3*
*Main	1250.*	.1*	.3*
*Main	1240	.1*	.3*
*Main	1220	.1*	.3*
*Main	1210.83**	.1*	.3*
*Main	1201.66**	.1*	.3*
*Main	1192.5*	.1*	.3*
*Main	1183.33**	.1*	.3*
*Main	1174.16**	.1*	.3*
*Main	1165	.1*	.3*
*Main	1155.31**	.1*	.3*
*Main	1145.62**	.1*	.3*
*Main	1135.93**	.1*	.3*
*Main	1126.25**	.1*	.3*
*Main	1116.56**	.1*	.3*
*Main	1106.87**	.1*	.3*
*Main	1097.18**	.1*	.3*
*Main	1087.5*	.1*	.3*
*Main	1077.81**	.1*	.3*
*Main	1068.12**	.1*	.3*
*Main	1058.43**	.1*	.3*
*Main	1048.75**	.1*	.3*
*Main	1039.06**	.1*	.3*
*Main	1029.37**	.1*	.3*
*Main	1019.68**	.1*	.3*
*Main	1010	.1*	.3*
*Main	1000	.1*	.3*
*Main	999	*Culvert	*
*Main	940	.1*	.3*
*Main	930.666**	.1*	.3*
*Main	921.333**	.1*	.3*
*Main	912.*	.1*	.3*
*Main	902.666**	.1*	.3*
*Main	893.333**	.1*	.3*
*Main	884.*	.1*	.3*
*Main	874.666**	.1*	.3*
*Main	865.333**	.1*	.3*
*Main	856	.1*	.3*
*Main	846.*	.1*	.3*
*Main	836	.1*	.3*
*Main	826	.1*	.3*
*Main	816.222**	.1*	.3*
*Main	806.444**	.1*	.3*
*Main	796.666**	.1*	.3*
*Main	786.888**	.1*	.3*
*Main	777.111**	.1*	.3*
*Main	767.333**	.1*	.3*
*Main	757.555**	.1*	.3*
*Main	747.777**	.1*	.3*
*Main	738.*	.1*	.3*
*Main	728.222**	.1*	.3*
*Main	718.444**	.1*	.3*
*Main	708.666**	.1*	.3*
*Main	698.888**	.1*	.3*
*Main	689.111**	.1*	.3*
*Main	679.333**	.1*	.3*
*Main	669.555**	.1*	.3*
*Main	659.777**	.1*	.3*
*Main	650.*	.1*	.3*
*Main	640.222**	.1*	.3*
*Main	630.444**	.1*	.3*
*Main	620.666**	.1*	.3*
*Main	610.888**	.1*	.3*
*Main	601.111**	.1*	.3*
*Main	591.333**	.1*	.3*
*Main	581.555**	.1*	.3*
*Main	571.777**	.1*	.3*
*Main	562.*	.1*	.3*
*Main	552.222**	.1*	.3*
*Main	542.444**	.1*	.3*
*Main	532.666**	.1*	.3*
*Main	522.888**	.1*	.3*
*Main	513.111**	.1*	.3*
*Main	503.333**	.1*	.3*
*Main	493.555**	.1*	.3*
*Main	483.777**	.1*	.3*
*Main	474	.1*	.3*
*Main	464.*	.1*	.3*
*Main	454.*	.1*	.3*
*Main	444	.1*	.3*
*Main	434.*	.1*	.3*
*Main	424	.1*	.3*
*Main	414.*	.1*	.3*
*Main	404.*	.1*	.3*
*Main	394.*	.1*	.3*
*Main	384.*	.1*	.3*
*Main	374.*	.1*	.3*
*Main	364	.1*	.3*
*Main	354.*	.1*	.3*
*Main	344.*	.1*	.3*
*Main	334	.1*	.3*
*Main	324	.1*	.3*
*Main	314	.1*	.3*
*Main	304	.1*	.3*

Profile Output Table - Standard Table 1

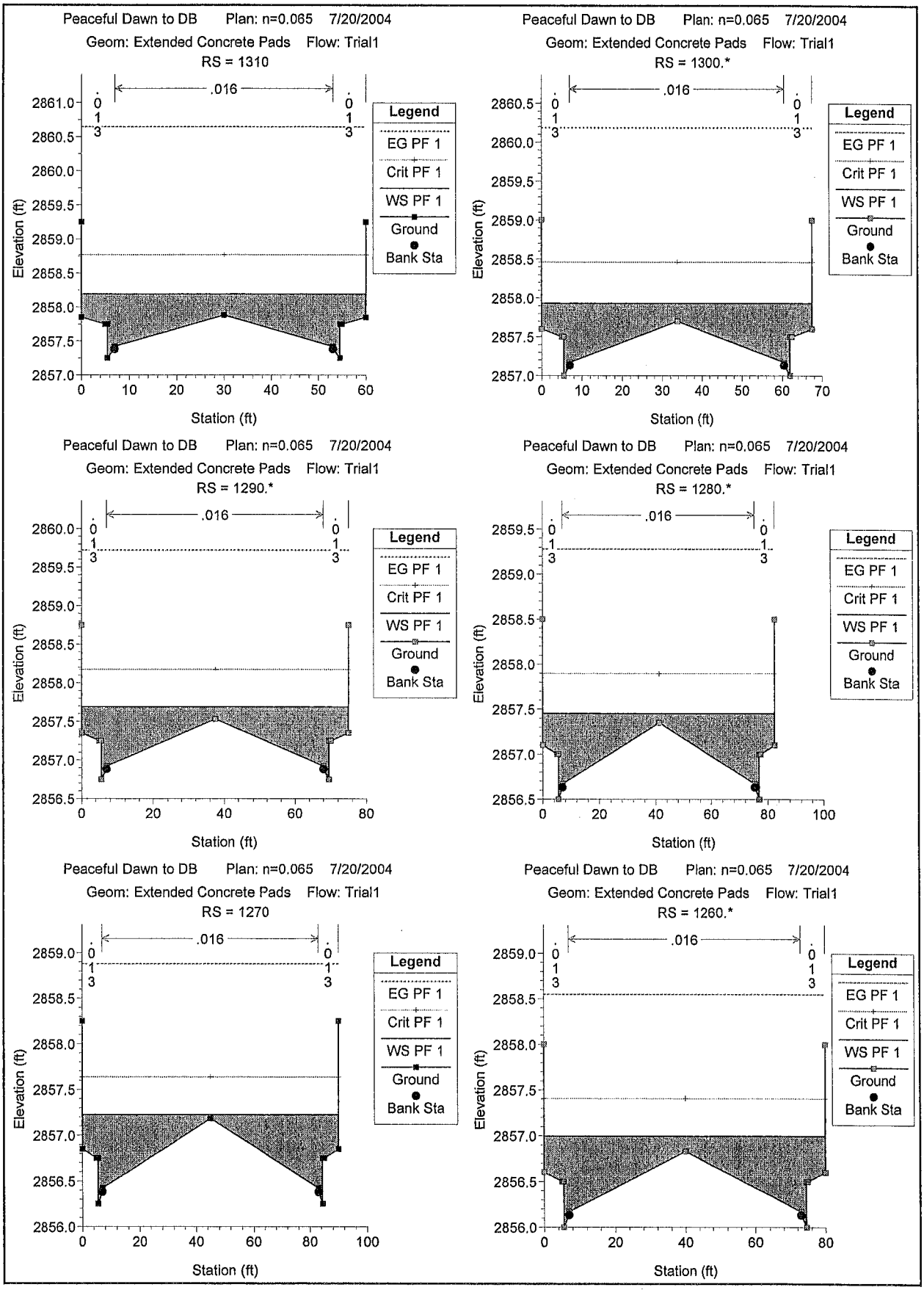
Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Main	1310	PF 1	400.00	2857.38	2858.19	2858.77	2860.65	0.040060	12.34	31.87	59.98	2.96
Main	1300.*	PF 1	400.00	2857.13	2857.93	2858.46	2860.18	0.040477	11.70	33.33	67.48	2.93
Main	1290.*	PF 1	400.00	2856.88	2857.69	2858.18	2859.72	0.038512	10.93	35.28	74.98	2.83
Main	1280.*	PF 1	400.00	2856.63	2857.45	2857.90	2859.28	0.035941	10.21	37.39	82.49	2.71
Main	1270	PF 1	400.00	2856.38	2857.22	2857.64	2858.88	0.033130	9.53	39.60	89.99	2.58
Main	1260.*	PF 1	400.00	2856.13	2857.00	2857.41	2858.55	0.026701	9.50	40.42	79.99	2.38
Main	1250.*	PF 1	400.00	2855.88	2856.78	2857.20	2858.29	0.021703	9.53	40.82	69.99	2.20
Main	1240	PF 1	400.00	2855.63	2856.59	2857.02	2858.08	0.017584	9.63	40.86	59.99	2.04
Main	1220	PF 1	400.00	2855.00	2856.25	2856.46	2857.25	0.098984	8.01	49.94	40.00	1.26
Main	1210.83*	PF 1	400.00	2850.83	2851.59	2852.42	2855.11	0.663736	15.06	26.56	35.00	3.05
Main	1201.66*	PF 1	400.00	2846.67	2847.67	2848.43	2850.43	0.370754	13.33	30.00	30.00	2.35
Main	1192.5*	PF 1	400.00	2842.50	2843.60	2844.49	2846.87	0.395448	14.51	27.58	25.00	2.43
Main	1183.33*	PF 1	400.00	2838.33	2839.63	2840.64	2843.30	0.374102	15.36	26.04	20.00	2.37
Main	1174.16*	PF 1	400.00	2834.17	2835.80	2836.97	2839.95	0.346620	16.35	24.46	15.00	2.26
Main	1165	PF 1	400.00	2830.00	2832.32	2833.67	2836.92	0.306259	17.21	23.24	10.00	1.99
Main	1155.31*	PF 1	400.00	2825.31	2827.36	2828.98	2833.26	0.440895	19.49	20.52	10.00	2.40
Main	1145.62*	PF 1	400.00	2820.62	2822.62	2824.28	2828.81	0.472827	19.96	20.04	10.00	2.48
Main	1135.93*	PF 1	400.00	2815.94	2817.93	2819.61	2824.19	0.480390	20.07	19.93	10.00	2.50
Main	1126.25*	PF 1	400.00	2811.25	2813.24	2814.91	2819.52	0.483006	20.10	19.90	10.00	2.51
Main	1116.56*	PF 1	400.00	2806.56	2808.55	2810.23	2814.83	0.483707	20.11	19.89	10.00	2.51
Main	1106.87*	PF 1	400.00	2801.88	2803.87	2805.55	2810.15	0.483707	20.11	19.89	10.00	2.51
Main	1097.18*	PF 1	400.00	2797.19	2799.18	2800.85	2805.46	0.484234	20.12	19.88	10.00	2.51
Main	1087.5*	PF 1	400.00	2792.50	2794.49	2796.17	2800.77	0.484058	20.12	19.88	10.00	2.51
Main	1077.81*	PF 1	400.00	2787.81	2789.80	2791.47	2796.08	0.484058	20.12	19.88	10.00	2.51
Main	1068.12*	PF 1	400.00	2783.12	2785.11	2786.79	2791.39	0.484058	20.12	19.88	10.00	2.51
Main	1058.43*	PF 1	400.00	2778.44	2780.43	2782.11	2786.71	0.483006	20.10	19.90	10.00	2.51
Main	1048.75*	PF 1	400.00	2773.75	2775.74	2777.41	2782.02	0.483883	20.12	19.89	10.00	2.51
Main	1039.06*	PF 1	400.00	2769.06	2771.05	2772.73	2777.33	0.484234	20.12	19.88	10.00	2.51
Main	1029.37*	PF 1	400.00	2764.38	2766.37	2768.04	2772.65	0.483006	20.10	19.90	10.00	2.51
Main	1019.68*	PF 1	400.00	2759.69	2761.68	2763.36	2767.96	0.483883	20.12	19.89	10.00	2.51
Main	1010	PF 1	400.00	2755.00	2756.99	2758.66	2763.27	0.484234	20.12	19.88	10.00	2.51
Main	1000	PF 1	400.00	2750.00	2755.64	2752.31	2755.83	0.004361	3.55	112.71	20.00	0.26
Main	999		Culvert									
Main	940	PF 1	400.00	2749.70	2751.46	2751.46	2752.35	0.005673	7.58	52.80	30.00	0.26
Main	930.666*	PF 1	400.00	2746.96	2747.78	2748.72	2751.90	0.067371	16.29	24.56	30.00	3.17
Main	921.333*	PF 1	400.00	2744.21	2744.89	2745.97	2750.88	0.124197	19.64	20.37	30.00	4.20
Main	912.*	PF 1	400.00	2741.47	2742.09	2743.23	2749.39	0.172010	21.69	18.44	30.00	4.87
Main	902.666*	PF 1	400.00	2738.72	2739.30	2740.48	2747.53	0.209267	23.02	17.37	30.00	5.33
Main	893.333*	PF 1	400.00	2735.98	2736.54	2737.74	2745.40	0.236255	23.89	16.74	30.00	5.64
Main	884.*	PF 1	400.00	2733.23	2733.78	2734.99	2743.07	0.255562	24.47	16.35	30.00	5.84
Main	874.666*	PF 1	400.00	2730.49	2731.03	2732.25	2740.60	0.268386	24.84	16.11	30.00	5.97
Main	865.333*	PF 1	400.00	2727.74	2728.27	2729.50	2738.04	0.276987	25.07	15.95	30.00	6.06
Main	856	PF 1	400.00	2725.00	2725.53	2726.76	2735.41	0.282493	25.23	15.86	30.00	6.11
Main	846.*	PF 1	400.00	2722.50	2722.91	2723.96	2732.02	0.355322	24.22	16.51	40.00	6.64
Main	836	PF 1	400.00	2720.00	2720.33	2721.18	2727.84	0.388858	21.98	18.19	55.00	6.74
Main	826	PF 1	400.00	2719.88	2720.20	2720.79	2723.98	0.203571	15.61	25.63	80.00	4.86
Main	816.222*	PF 1	400.00	2719.76	2720.19	2720.67	2722.33	0.078951	11.74	34.08	80.00	3.17
Main	806.444*	PF 1	400.00	2719.65	2720.18	2720.56	2721.58	0.039140	9.50	42.11	80.00	2.31
Main	796.666*	PF 1	400.00	2719.53	2720.14	2720.44	2721.18	0.023803	8.18	48.93	80.00	1.84
Main	786.888*	PF 1	400.00	2719.41	2720.08	2720.32	2720.94	0.015790	7.45	53.69	80.00	1.60
Main	777.111*	PF 1	400.00	2719.29	2719.99	2720.20	2720.79	0.014044	7.19	55.63	80.00	1.52
Main	767.333*	PF 1	400.00	2719.18	2719.90	2720.09	2720.65	0.012571	6.95	57.52	80.00	1.45
Main	757.555*	PF 1	400.00	2719.06	2719.78	2719.97	2720.53	0.012571	6.95	57.52	80.00	1.45
Main	747.777*	PF 1	400.00	2718.94	2719.66	2719.85	2720.41	0.012571	6.95	57.52	80.00	1.45
Main	738.*	PF 1	400.00	2718.82	2719.54	2719.73	2720.29	0.012571	6.95	57.52	80.00	1.45
Main	728.222*	PF 1	400.00	2718.71	2719.44	2719.62	2720.17	0.012115	6.88	58.16	80.00	1.42
Main	718.444*	PF 1	400.00	2718.59	2719.32	2719.50	2720.05	0.010874	6.88	58.16	80.00	1.42
Main	708.666*	PF 1	400.00	2718.47	2719.19	2719.38	2719.94	0.011423	6.98	57.30	80.00	1.45
Main	698.888*	PF 1	400.00	2718.36	2719.08	2719.27	2719.83	0.011371	6.97	57.38	80.00	1.45
Main	689.111*	PF 1	400.00	2718.24	2718.95	2719.15	2719.72	0.011859	7.06	56.66	80.00	1.48
Main	679.333*	PF 1	400.00	2718.12	2718.84	2719.03	2719.60	0.011513	7.00	57.17	80.00	1.46
Main	669.555*	PF 1	400.00	2718.00	2718.71	2718.91	2719.48	0.011818	7.05	56.72	80.00	1.48
Main	659.777*	PF 1	400.00	2717.89	2718.60	2718.80	2719.37	0.011818	7.05	56.72	80.00	1.48
Main	650.*	PF 1	400.00	2717.77	2718.48	2718.68	2719.25	0.011579	7.01	57.07	80.00	1.46
Main	640.222*	PF 1	400.00	2717.65	2718.36	2718.56	2719.13	0.010638	7.07	56.56	80.00	1.48
Main	630.444*	PF 1	400.00	2717.54	2718.25	2718.45	2719.02	0.010565	7.06	56.68	80.00	1.48
Main	620.666*	PF 1	400.00	2717.42	2718.12	2718.33	2718.91	0.010973	7.14	56.04	80.00	1.50
Main	610.888*	PF 1	400.00	2717.30	2717.99	2718.21	2718.80	0.011309	7.20	55.53	80.00	1.52
Main	601.111*	PF 1	400.00	2717.18	2717.87	2718.09	2718.68	0.011309	7.20	55.53	80.00	1.52
Main	591.333*	PF 1	400.00	2717.07	2717.76	2717.98	2718.57	0.011309	7.20	55.53	80.00	1.52
Main	581.555*	PF 1	400.00	2716.95	2717.64	2717.86	2718.45	0.011468	7.23	55.29	80.00	1.53
Main	571.777*	PF 1	400.00	2716.83	2717.51	2717.75	2718.34	0.010524	7.31	54.71	80.00	1.56

Main	562.*	PF 1	400.00	2716.71	2717.39	2717.62	2718.24	0.010958	7.40	54.04	80.00	1.59
Main	552.222*	PF 1	400.00	2716.60	2717.91	2717.51	2718.14	0.001219	3.81	105.10	80.00	0.59
Main	542.444*	PF 1	400.00	2716.48	2717.93		2718.12	0.000877	3.44	116.15	80.00	0.50
Main	532.666*	PF 1	400.00	2716.36	2717.95		2718.10	0.000658	3.15	126.80	80.00	0.44
Main	522.888*	PF 1	400.00	2716.25	2717.95		2718.09	0.000519	2.93	136.31	80.00	0.40
Main	513.111*	PF 1	400.00	2716.13	2717.96		2718.08	0.000409	2.73	146.56	80.00	0.36
Main	503.333*	PF 1	400.00	2716.01	2717.97		2718.07	0.000289	2.55	156.70	80.00	0.32
Main	493.555*	PF 1	400.00	2715.89	2717.97		2718.06	0.000236	2.40	166.76	80.00	0.29
Main	483.777*	PF 1	400.00	2715.78	2717.98		2718.06	0.000198	2.27	175.88	80.00	0.27
Main	474	PF 1	400.00	2715.66	2717.98		2718.06	0.000166	2.15	185.82	80.00	0.25
Main	464.*	PF 1	400.00	2715.54	2717.86		2718.04	0.000447	3.45	115.80	50.00	0.40
Main	454.*	PF 1	400.00	2715.42	2717.74		2718.03	0.000718	4.32	92.63	40.00	0.50
Main	444	PF 1	400.00	2715.30	2717.06	2717.06	2717.95	0.005663	7.57	52.83	30.00	1.01
Main	434.*	PF 1	400.00	2715.15	2716.68	2716.91	2717.86	0.008864	8.71	45.93	30.00	1.24
Main	424	PF 1	400.00	2715.00	2716.46	2716.76	2717.75	0.010232	9.11	43.92	30.00	1.33
Main	414.*	PF 1	400.00	2712.50	2713.34	2714.26	2717.27	0.062500	15.92	25.13	30.00	3.06
Main	404.*	PF 1	400.00	2710.00	2710.70	2711.76	2716.29	0.110756	18.96	21.09	30.00	3.99
Main	394.*	PF 1	400.00	2707.50	2708.14	2709.26	2714.89	0.151005	20.84	19.19	30.00	4.59
Main	384.*	PF 1	400.00	2705.00	2705.60	2706.76	2713.16	0.181770	22.06	18.13	30.00	5.00
Main	374.*	PF 1	400.00	2702.50	2703.08	2704.26	2711.19	0.203856	22.84	17.51	30.00	5.27
Main	364	PF 1	400.00	2700.00	2700.56	2701.76	2709.47	0.134046	23.95	16.70	30.00	5.66
Main	354.*	PF 1	400.00	2700.00	2700.47	2701.46	2707.60	0.133416	21.43	18.66	40.00	5.53
Main	344.*	PF 1	400.00	2699.99	2700.42	2701.24	2705.87	0.113784	18.74	21.35	50.00	5.05
Main	334	PF 1	400.00	2699.99	2700.40	2701.10	2704.46	0.088206	16.16	24.76	60.00	4.43
Main	324	PF 1	400.00	2699.98	2700.46	2701.09	2703.47	0.053883	13.92	28.73	60.00	3.55
Main	314	PF 1	400.00	2699.97	2700.52	2701.08	2702.84	0.035101	12.23	32.70	60.00	2.92
Main	304	PF 1	400.00	2699.96	2700.57	2701.07	2702.41	0.023649	10.86	36.84	60.00	2.44

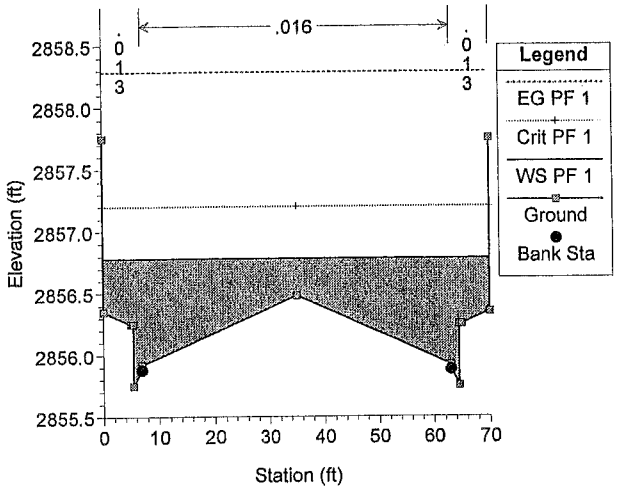
Profile Output Table - Standard Table 2

Reach	River Sta	Profile	E.G. Elev (ft)	W.S. Elev (ft)	Vel Head (ft)	Frctn Loss (ft)	C & E Loss (ft)	Q Left (cfs)	Q Channel (cfs)	Q Right (cfs)	Top Width (ft)
Main	1310	PF 1	2860.65	2858.19	2.45			46.33	307.40	46.27	59.98
Main	1300.*	PF 1	2860.18	2857.93	2.25	0.40	0.06	44.95	310.15	44.90	67.48
Main	1290.*	PF 1	2859.72	2857.69	2.03	0.39	0.07	45.17	309.71	45.12	74.98
Main	1280.*	PF 1	2859.28	2857.45	1.83	0.37	0.06	45.43	309.19	45.37	82.49
Main	1270	PF 1	2858.88	2857.22	1.65	0.34	0.05	46.64	306.78	46.58	89.99
Main	1260.*	PF 1	2858.55	2857.00	1.55	0.30	0.03	44.72	310.62	44.66	79.99
Main	1250.*	PF 1	2858.29	2856.78	1.50	0.24	0.01	44.70	310.65	44.64	69.99
Main	1240	PF 1	2858.08	2856.59	1.49	0.19	0.00	46.98	306.10	46.92	59.99
Main	1220	PF 1	2857.25	2856.25	1.00	0.70	0.15		400.00		40.00
Main	1210.83*	PF 1	2855.11	2851.59	3.52	1.89	0.25		400.00		35.00
Main	1201.66*	PF 1	2850.43	2847.67	2.76	4.45	0.23		400.00		30.00
Main	1192.5*	PF 1	2846.87	2843.60	3.27	3.51	0.05		400.00		25.00
Main	1183.33*	PF 1	2843.30	2839.63	3.67	3.53	0.04		400.00		20.00
Main	1174.16*	PF 1	2839.95	2835.80	4.15	3.30	0.05		400.00		15.00
Main	1165	PF 1	2836.92	2832.32	4.60	2.98	0.04		400.00		10.00
Main	1155.31*	PF 1	2833.26	2827.36	5.90	3.53	0.13		400.00		10.00
Main	1145.62*	PF 1	2828.81	2822.62	6.19	4.42	0.03		400.00		10.00
Main	1135.93*	PF 1	2824.19	2817.93	6.25	4.62	0.01		400.00		10.00
Main	1126.25*	PF 1	2819.52	2813.24	6.28	4.67	0.00		400.00		10.00
Main	1116.56*	PF 1	2814.83	2808.55	6.28	4.68	0.00		400.00		10.00
Main	1106.87*	PF 1	2810.15	2803.87	6.28	4.69	0.00		400.00		10.00
Main	1097.18*	PF 1	2805.46	2799.18	6.29	4.69	0.00		400.00		10.00
Main	1087.5*	PF 1	2800.77	2794.49	6.28	4.69	0.00		400.00		10.00
Main	1077.81*	PF 1	2796.08	2789.80	6.28	4.69	0.00		400.00		10.00
Main	1068.12*	PF 1	2791.39	2785.11	6.28	4.69	0.00		400.00		10.00
Main	1058.43*	PF 1	2786.71	2780.43	6.28	4.69	0.00		400.00		10.00
Main	1048.75*	PF 1	2782.02	2775.74	6.28	4.68	0.00		400.00		10.00
Main	1039.06*	PF 1	2777.33	2771.05	6.29	4.69	0.00		400.00		10.00
Main	1029.37*	PF 1	2772.65	2766.37	6.28	4.69	0.00		400.00		10.00
Main	1019.68*	PF 1	2767.96	2761.68	6.28	4.68	0.00		400.00		10.00
Main	1010	PF 1	2763.27	2756.99	6.29	4.69	0.00		400.00		10.00
Main	1000	PF 1	2755.83	2755.64	0.20				400.00		20.00
Main	999		Culvert								
Main	940	PF 1	2752.35	2751.46	0.89				400.00		30.00
Main	930.666*	PF 1	2751.90	2747.78	4.12	0.13	0.32		400.00		30.00
Main	921.333*	PF 1	2750.88	2744.89	5.99	0.83	0.19		400.00		30.00
Main	912.*	PF 1	2749.39	2742.09	7.30	1.35	0.13		400.00		30.00
Main	902.666*	PF 1	2747.53	2739.30	8.23	1.77	0.09		400.00		30.00
Main	893.333*	PF 1	2745.40	2736.54	8.86	2.07	0.06		400.00		30.00
Main	884.*	PF 1	2743.07	2733.78	9.30	2.29	0.04		400.00		30.00
Main	874.666*	PF 1	2740.60	2731.03	9.58	2.44	0.03		400.00		30.00
Main	865.333*	PF 1	2738.04	2728.27	9.76	2.54	0.02		400.00		30.00
Main	856	PF 1	2735.41	2725.53	9.88	2.61	0.01		400.00		30.00

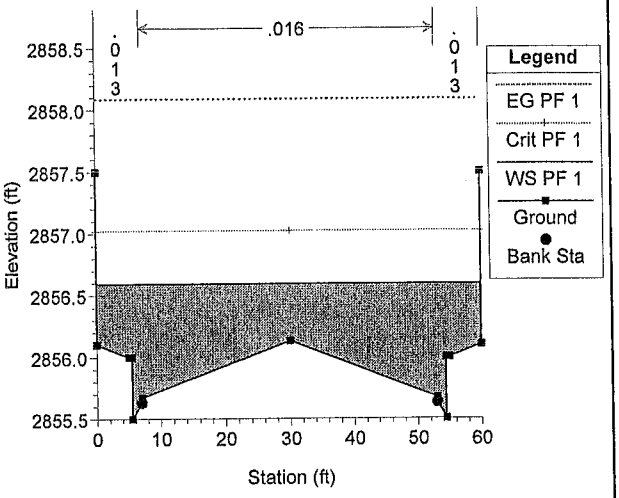
Main	846.*	PF 1	2732.02	2722.91	9.11	3.16	0.23		400.00		40.00
Main	836	PF 1	2727.84	2720.33	7.50	3.72	0.48		400.00		55.00
Main	826	PF 1	2723.98	2720.20	3.78	2.74	1.12		400.00		80.00
Main	816.222*	PF 1	2722.33	2720.19	2.14	1.17	0.49		400.00		80.00
Main	806.444*	PF 1	2721.58	2720.18	1.40	0.53	0.22		400.00		80.00
Main	796.666*	PF 1	2721.18	2720.14	1.04	0.29	0.11		400.00		80.00
Main	786.888*	PF 1	2720.94	2720.08	0.86	0.19	0.05		400.00		80.00
Main	777.111*	PF 1	2720.79	2719.99	0.80	0.15	0.02		400.00		80.00
Main	767.333*	PF 1	2720.65	2719.90	0.75	0.13	0.02		400.00		80.00
Main	757.555*	PF 1	2720.53	2719.78	0.75	0.12	0.00		400.00		80.00
Main	747.777*	PF 1	2720.41	2719.66	0.75	0.12	0.00		400.00		80.00
Main	738.*	PF 1	2720.29	2719.54	0.75	0.12	0.00		400.00		80.00
Main	728.222*	PF 1	2720.17	2719.44	0.73	0.12	0.00		400.00		80.00
Main	718.444*	PF 1	2720.05	2719.32	0.73	0.11	0.00		400.00		80.00
Main	708.666*	PF 1	2719.94	2719.19	0.76	0.11	0.00		400.00		80.00
Main	698.888*	PF 1	2719.83	2719.08	0.75	0.11	0.00		400.00		80.00
Main	689.111*	PF 1	2719.72	2718.95	0.77	0.11	0.00		400.00		80.00
Main	679.333*	PF 1	2719.60	2718.84	0.76	0.11	0.00		400.00		80.00
Main	669.555*	PF 1	2719.48	2718.71	0.77	0.11	0.00		400.00		80.00
Main	659.777*	PF 1	2719.37	2718.60	0.77	0.12	0.00		400.00		80.00
Main	650.*	PF 1	2719.25	2718.48	0.76	0.11	0.00		400.00		80.00
Main	640.222*	PF 1	2719.13	2718.36	0.78	0.11	0.00		400.00		80.00
Main	630.444*	PF 1	2719.02	2718.25	0.77	0.10	0.00		400.00		80.00
Main	620.666*	PF 1	2718.91	2718.12	0.79	0.11	0.00		400.00		80.00
Main	610.888*	PF 1	2718.80	2717.99	0.81	0.11	0.00		400.00		80.00
Main	601.111*	PF 1	2718.68	2717.87	0.81	0.11	0.00		400.00		80.00
Main	591.333*	PF 1	2718.57	2717.76	0.81	0.11	0.00		400.00		80.00
Main	581.555*	PF 1	2718.45	2717.64	0.81	0.11	0.00		400.00		80.00
Main	571.777*	PF 1	2718.34	2717.51	0.83	0.11	0.00		400.00		80.00
Main	562.*	PF 1	2718.24	2717.39	0.85	0.11	0.00		400.00		80.00
Main	552.222*	PF 1	2718.14	2717.91	0.22	0.01	0.01		400.00		80.00
Main	542.444*	PF 1	2718.12	2717.93	0.18	0.01	0.01		400.00		80.00
Main	532.666*	PF 1	2718.10	2717.95	0.15	0.01	0.01		400.00		80.00
Main	522.888*	PF 1	2718.09	2717.95	0.13	0.00	0.01		400.00		80.00
Main	513.111*	PF 1	2718.08	2717.96	0.12	0.00	0.00		400.00		80.00
Main	503.333*	PF 1	2718.07	2717.97	0.10	0.00	0.00		400.00		80.00
Main	493.555*	PF 1	2718.06	2717.97	0.09	0.00	0.00		400.00		80.00
Main	483.777*	PF 1	2718.06	2717.98	0.08	0.00	0.00		400.00		80.00
Main	474	PF 1	2718.06	2717.98	0.07	0.00	0.01		400.00		80.00
Main	464.*	PF 1	2718.04	2717.86	0.19	0.01	0.01		400.00		50.00
Main	454.*	PF 1	2718.03	2717.74	0.29	0.02	0.06		400.00		40.00
Main	444	PF 1	2717.95	2717.06	0.89	0.06	0.00		400.00		30.00
Main	434.*	PF 1	2717.86	2716.68	1.18	0.07	0.03		400.00		30.00
Main	424	PF 1	2717.75	2716.46	1.29	0.10	0.01		400.00		30.00
Main	414.*	PF 1	2717.27	2713.34	3.93	0.21	0.26		400.00		30.00
Main	404.*	PF 1	2716.29	2710.70	5.58	0.82	0.16		400.00		30.00
Main	394.*	PF 1	2714.89	2708.14	6.75	1.29	0.12		400.00		30.00
Main	384.*	PF 1	2713.16	2705.60	7.55	1.65	0.08		400.00		30.00
Main	374.*	PF 1	2711.19	2703.08	8.10	1.92	0.05		400.00		30.00
Main	364	PF 1	2709.47	2700.56	8.91	1.64	0.08		400.00		30.00
Main	354.*	PF 1	2707.60	2700.47	7.13	1.34	0.53		400.00		40.00
Main	344.*	PF 1	2705.87	2700.42	5.45	1.23	0.50		400.00		50.00
Main	334	PF 1	2704.46	2700.40	4.05	1.00	0.42		400.00		60.00
Main	324	PF 1	2703.47	2700.46	3.01	0.68	0.31		400.00		60.00
Main	314	PF 1	2702.84	2700.52	2.32	0.43	0.21		400.00		60.00
Main	304	PF 1	2702.41	2700.57	1.83	0.29	0.15		400.00		60.00


Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1310
.016
0 1 3
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1300.*
.016
0 1 3
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1290.*
.016
0 1 3
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1280.*
.016
0 1 3
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1270
.016
0 1 3
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1260.*
.016
0 1 3
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

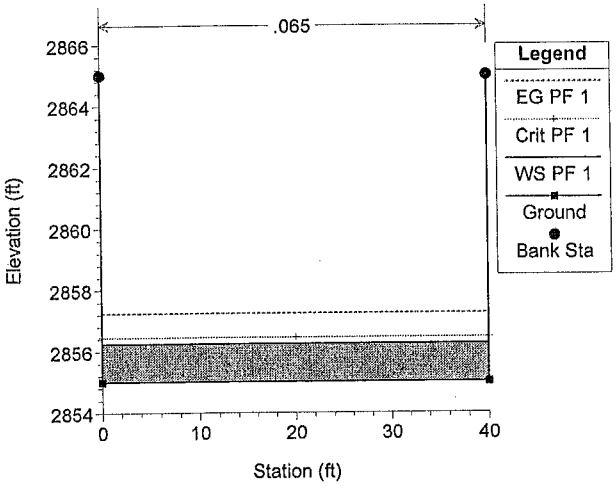
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1250.*



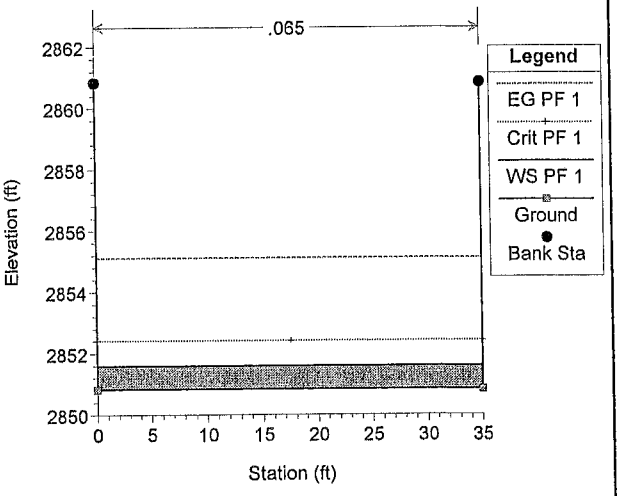
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1240



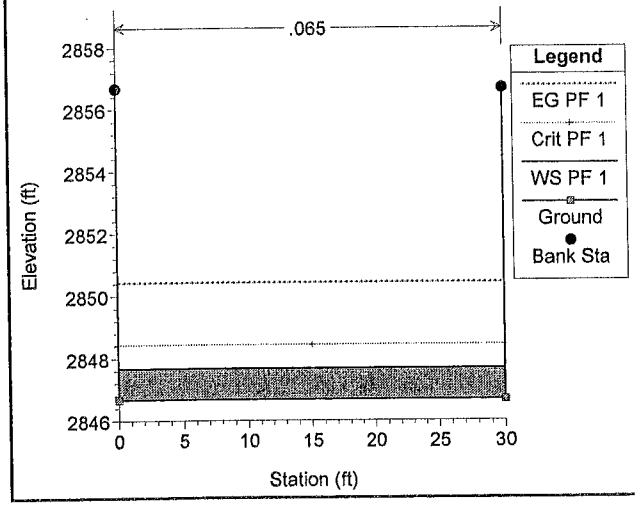
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1220 Connects to Culvert



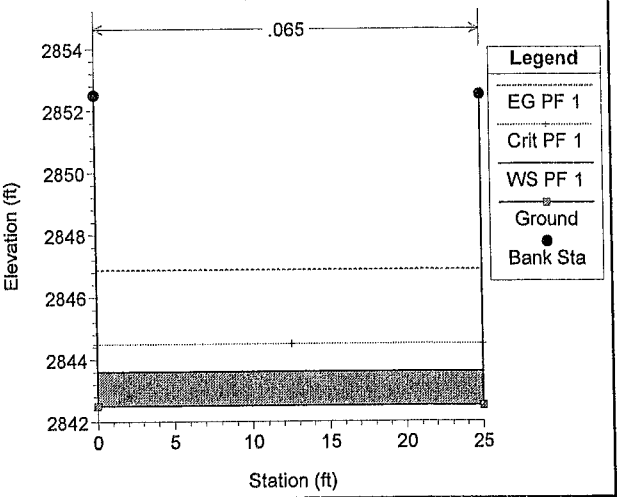
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1210.83*



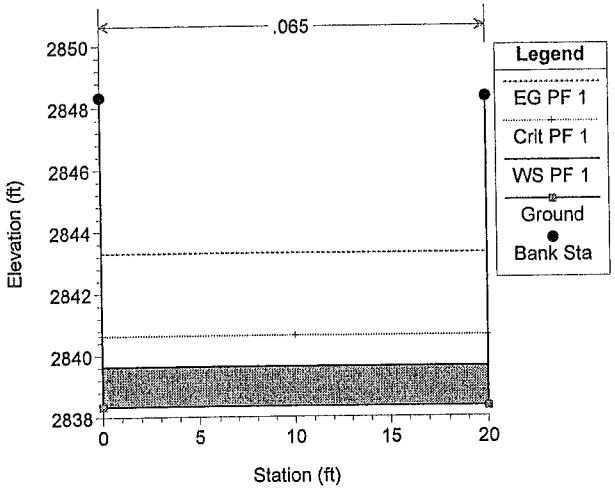
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1201.66*



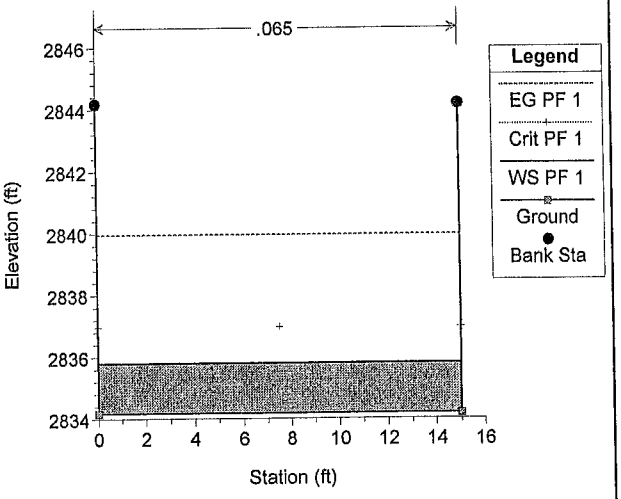
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1192.5*



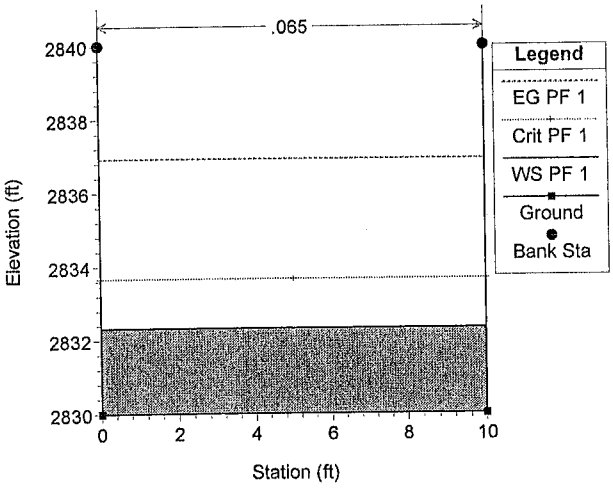
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1183.33*



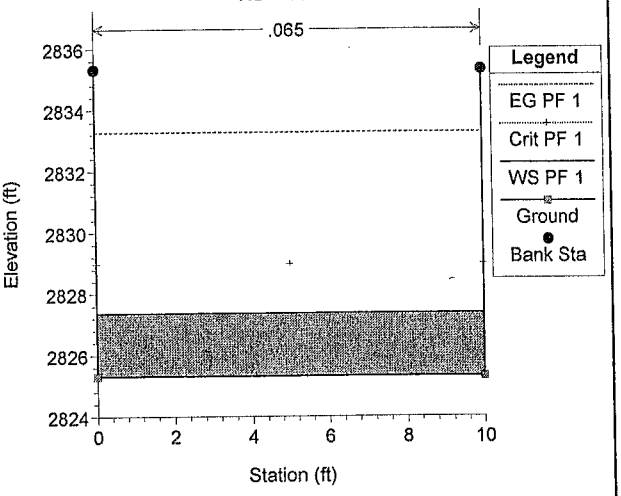
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1174.16*



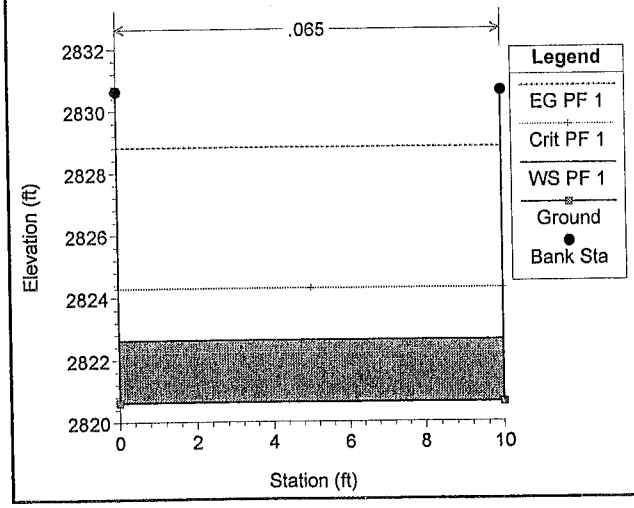
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1165 Connects to Culvert



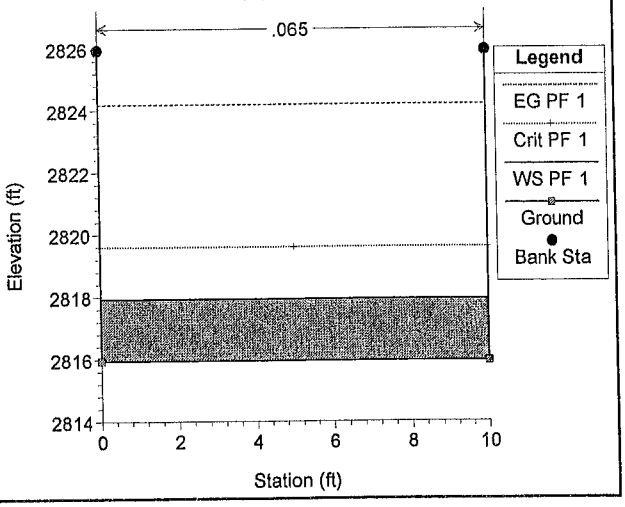
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1155.31*



Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1145.62*



Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1135.93*



Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
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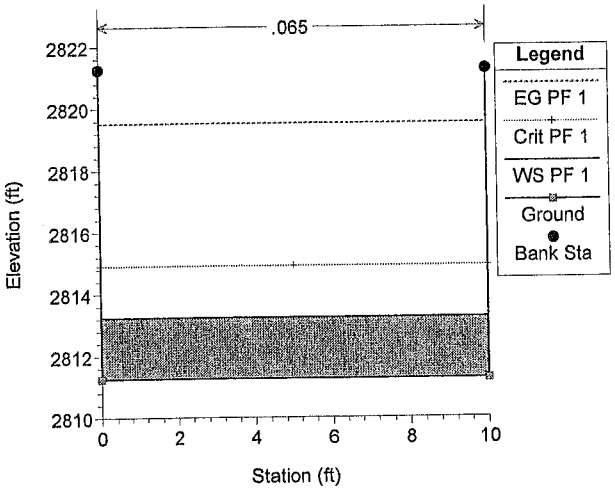
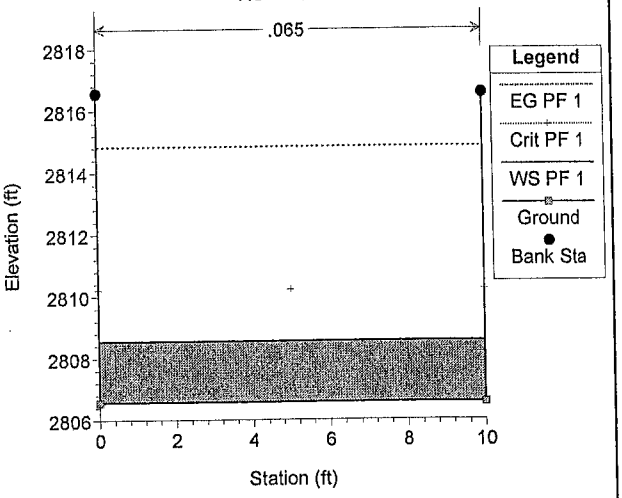
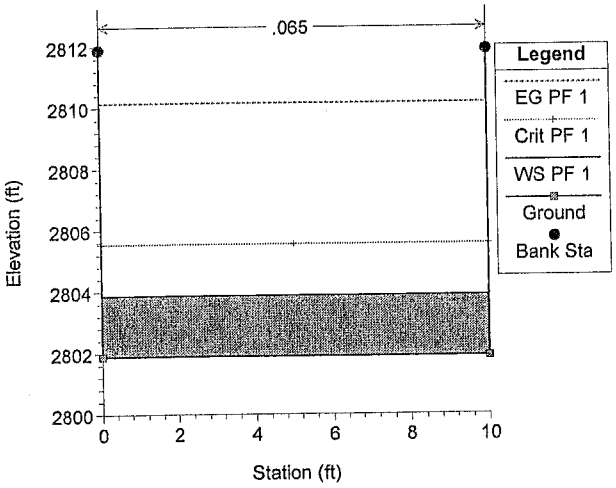


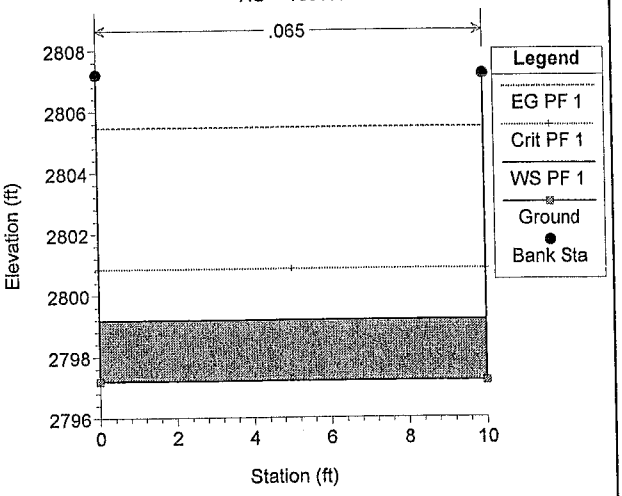
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1116.56*



Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1106.87*



Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1097.18*



Peaceful Dawn to DB Plan: n=0.065 7/20/2004
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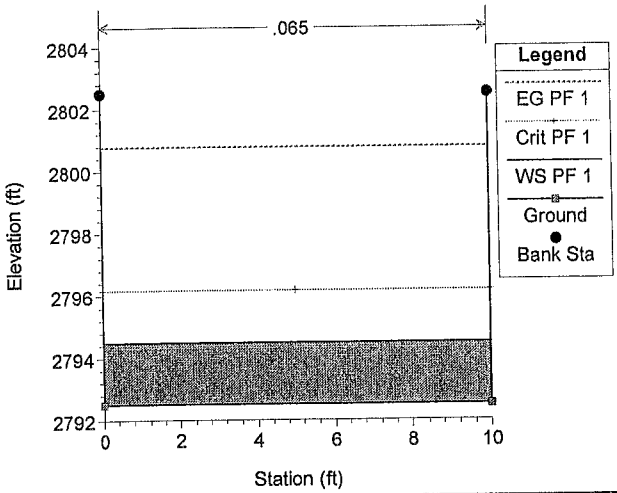
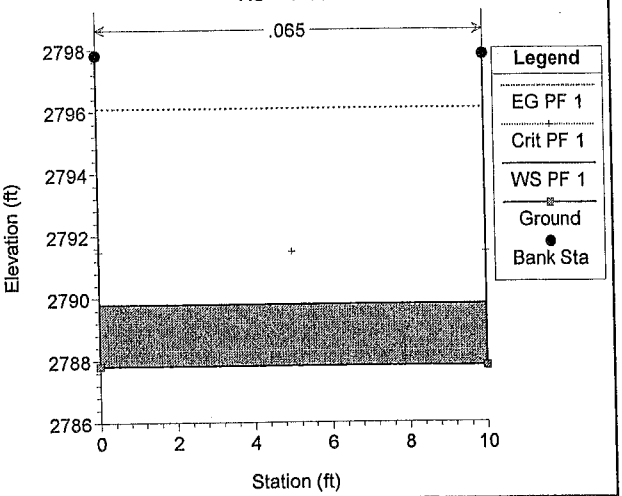
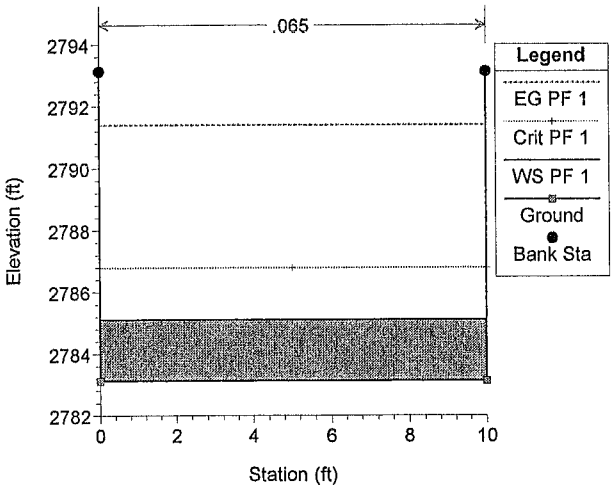
RS = 1087.5*



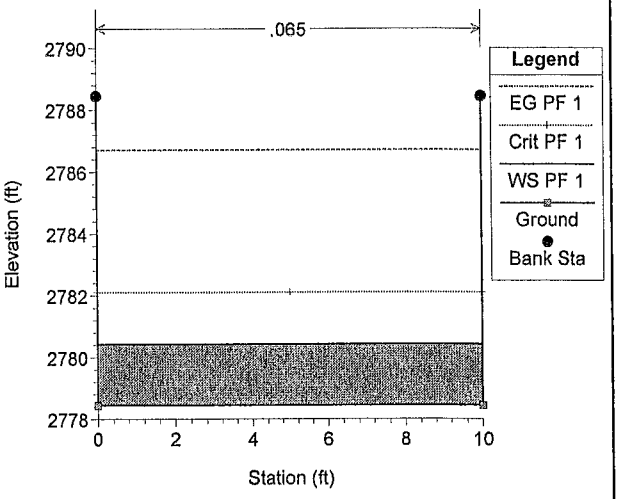
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1077.81*



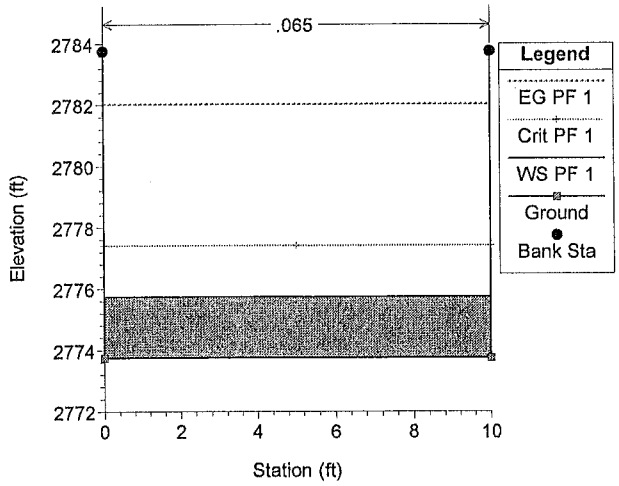
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1068.12*



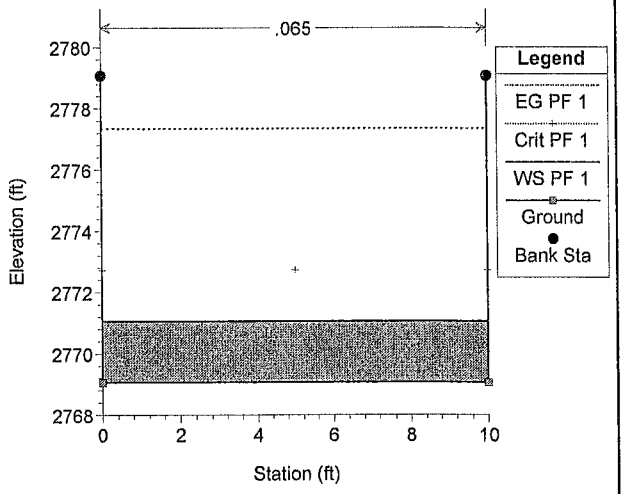
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1058.43*



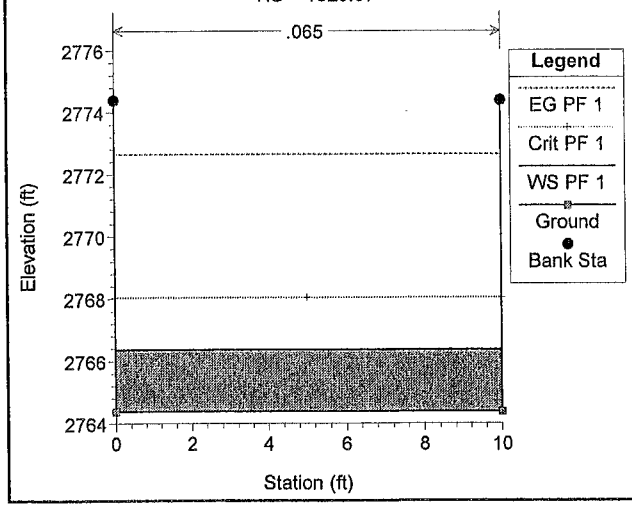
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1048.75*



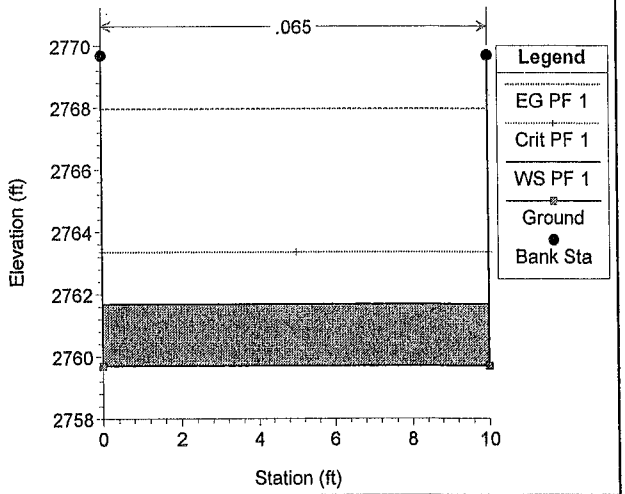
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1039.06*



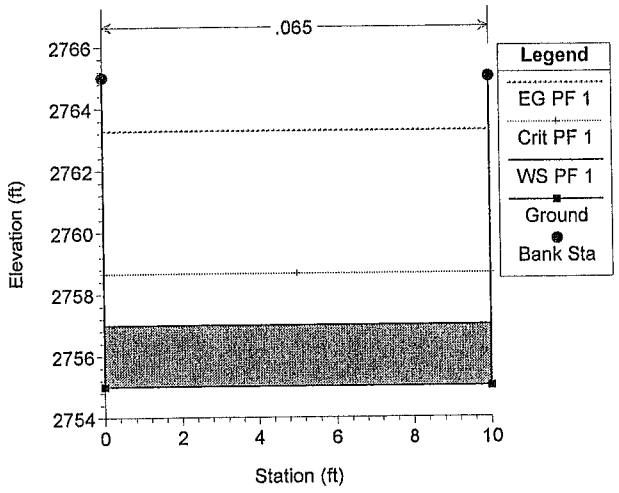
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1029.37*



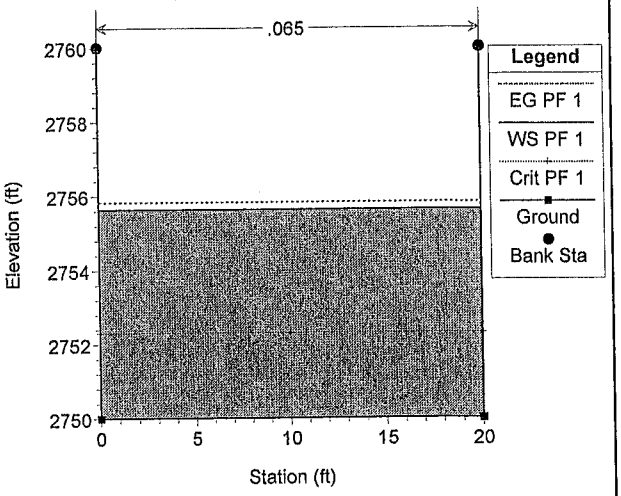
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1019.68*



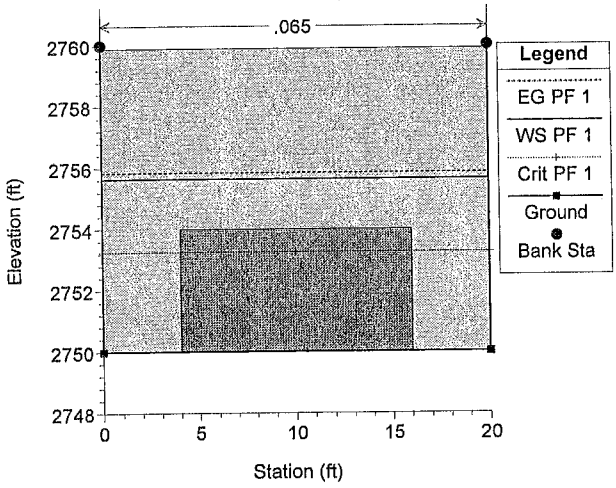
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1010 Connects to Culvert



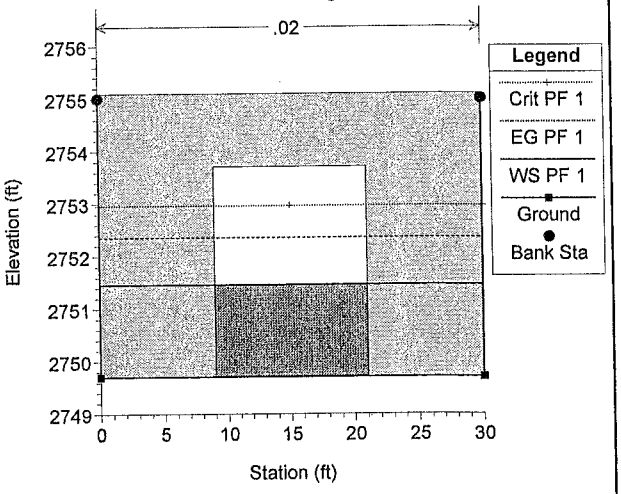
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 1000 Connects to Culvert



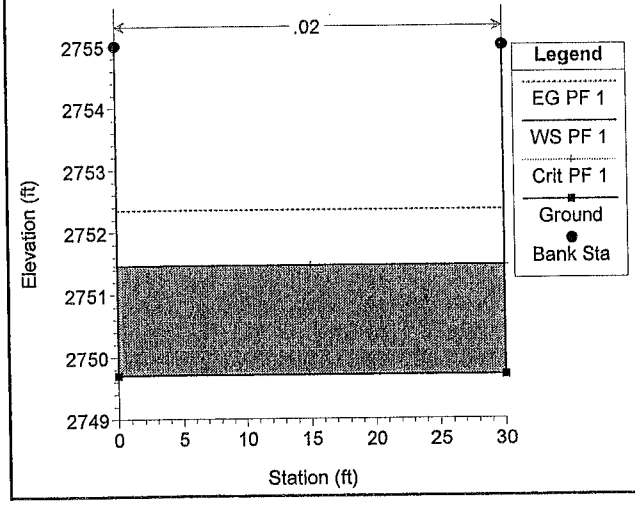
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 999 Culv Single 12'X4' Culvert



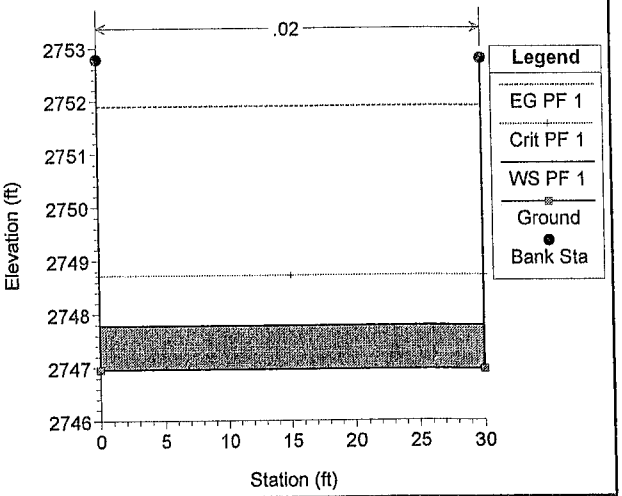
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 999 Culv Single 12'X4' Culvert

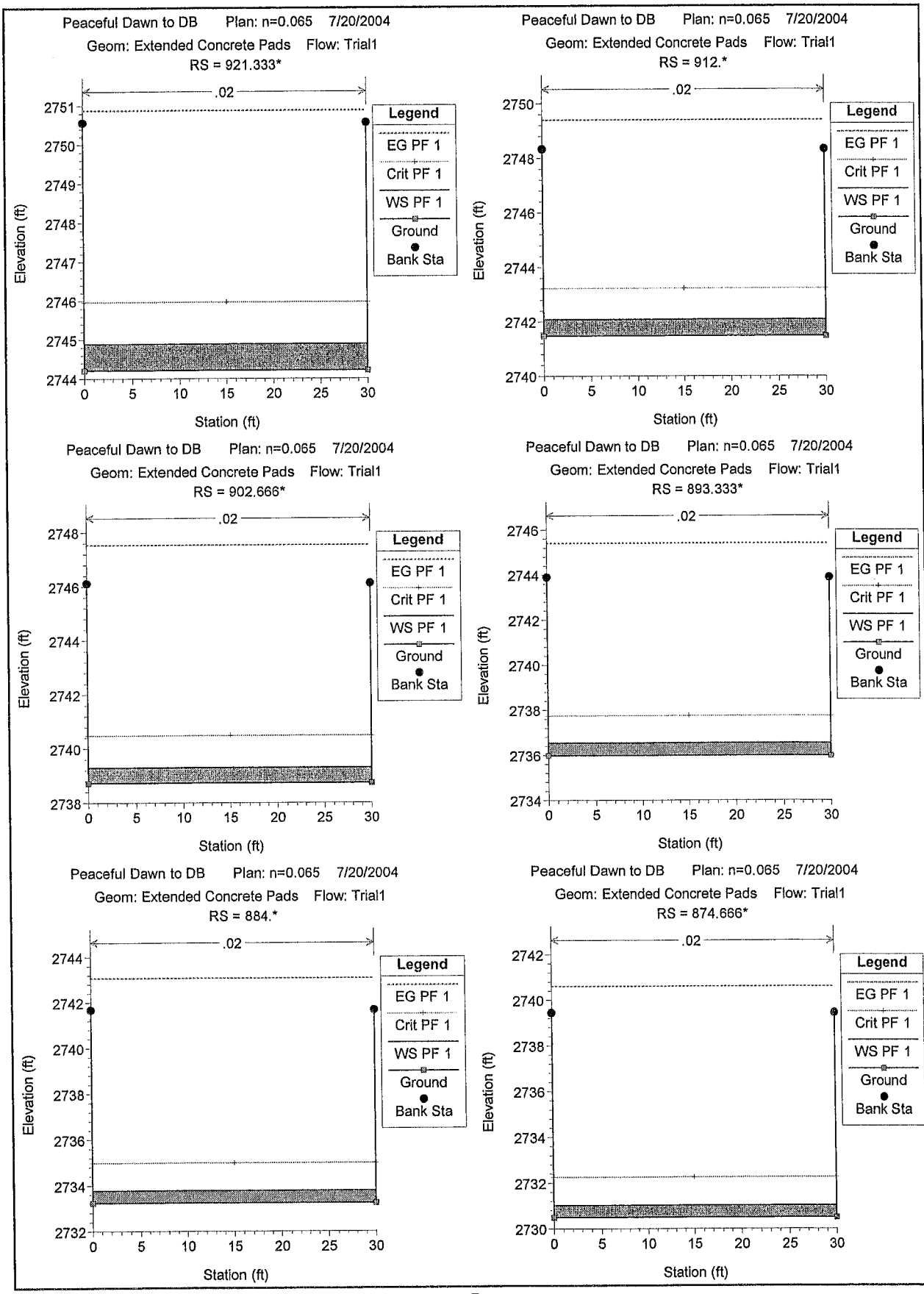


Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 940 End of Culvert

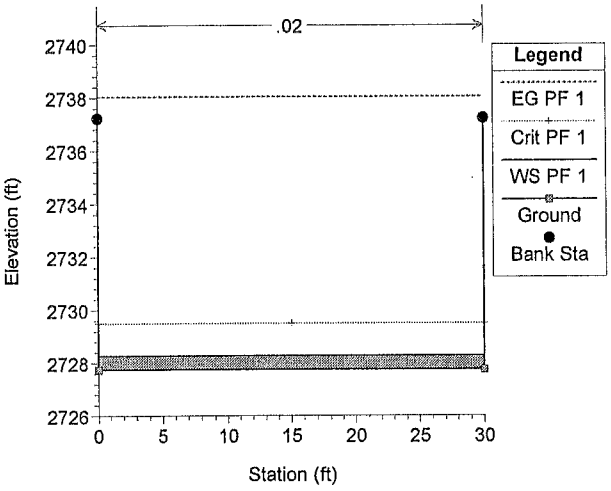


Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 930.666*

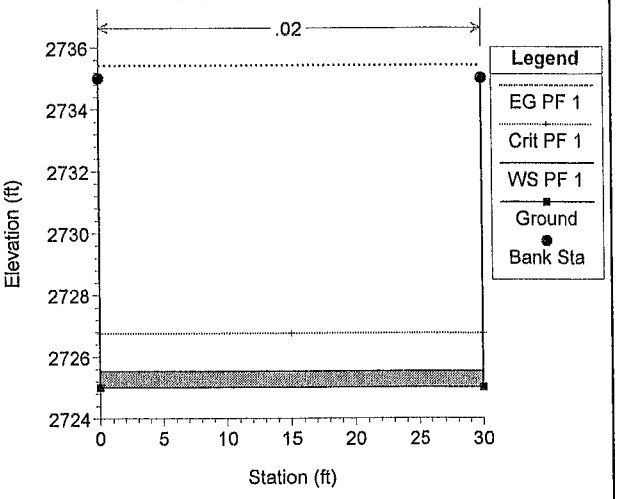



Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 921.333*
.02
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 912.*
.02
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 902.666*
.02
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 893.333*
.02
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 884.*
.02
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 874.666*
.02
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)

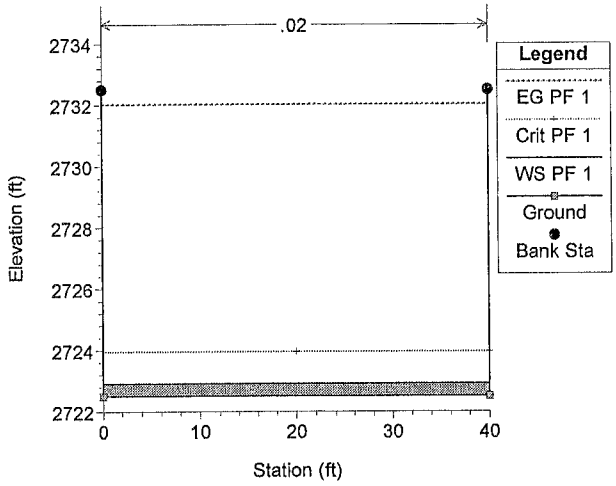
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 865.333*



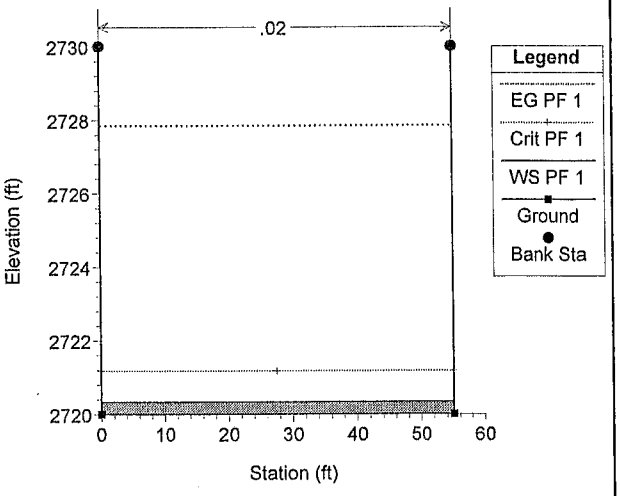
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 856 Connects to Culvert



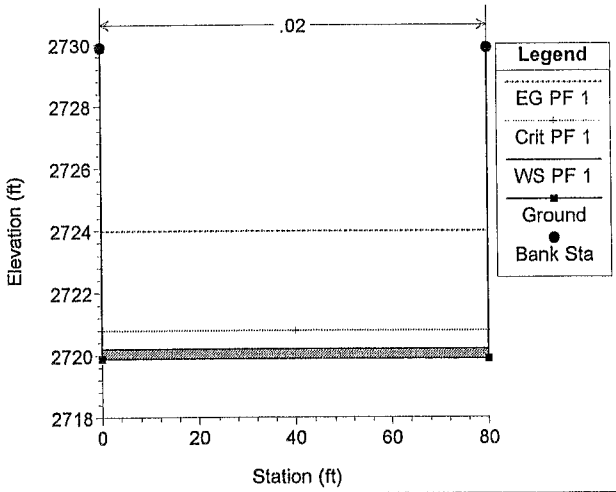
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 846.*



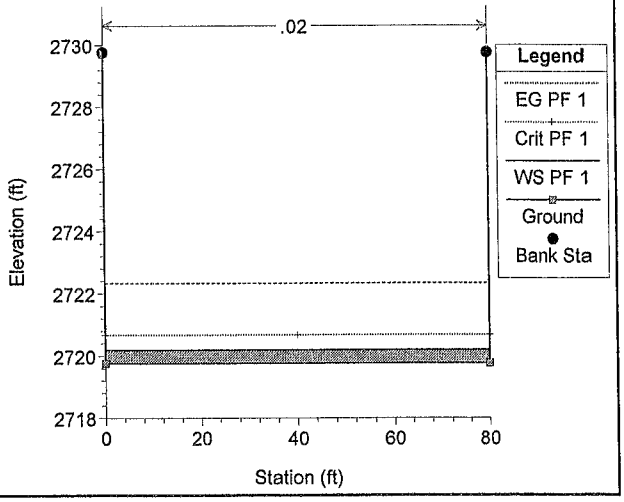
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 836 Connects to Culvert



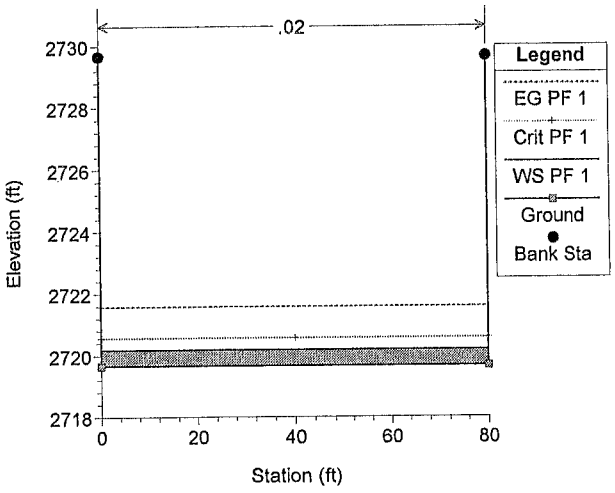
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 826 Connects to Culvert



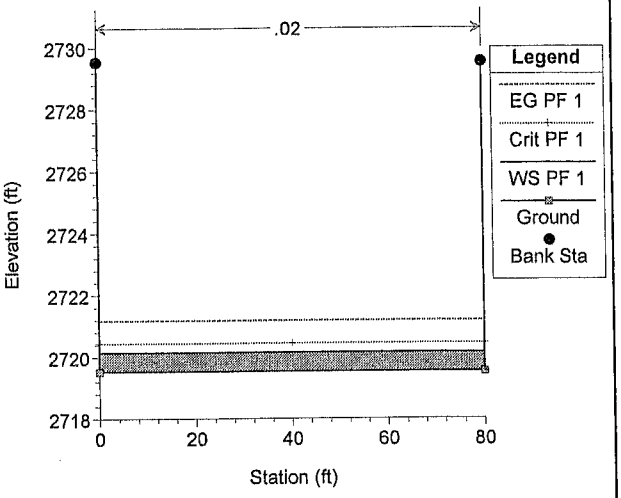
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 816.222*



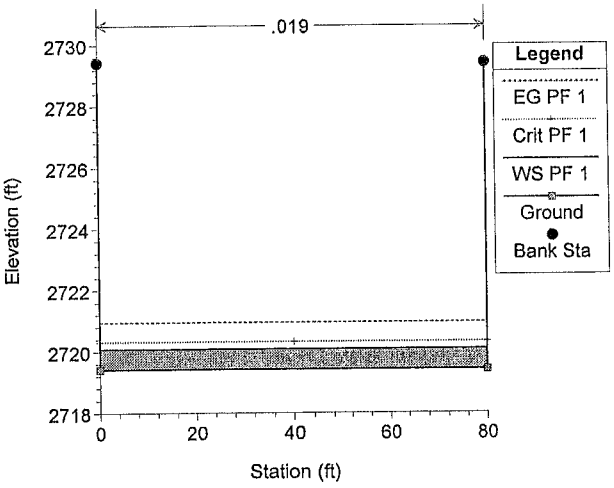
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 806.444*



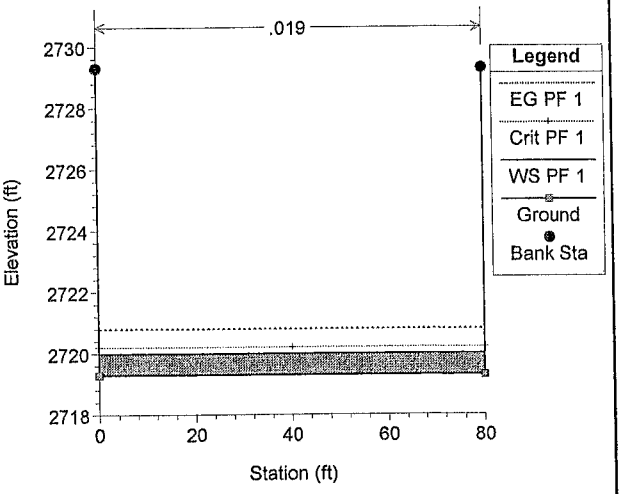
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 796.666*



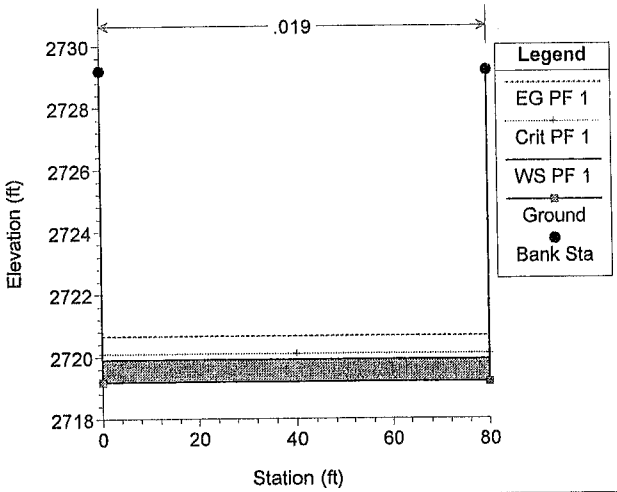
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 786.888*



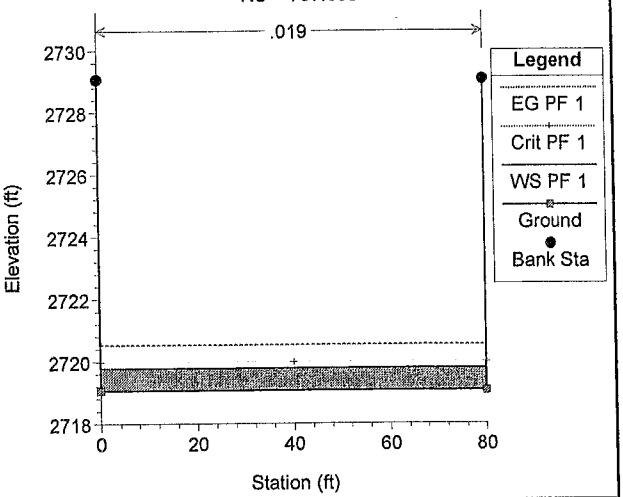
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 777.111*



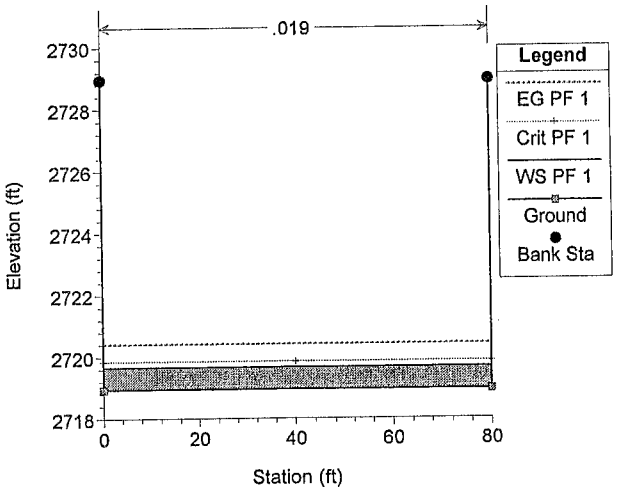
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 767.333*



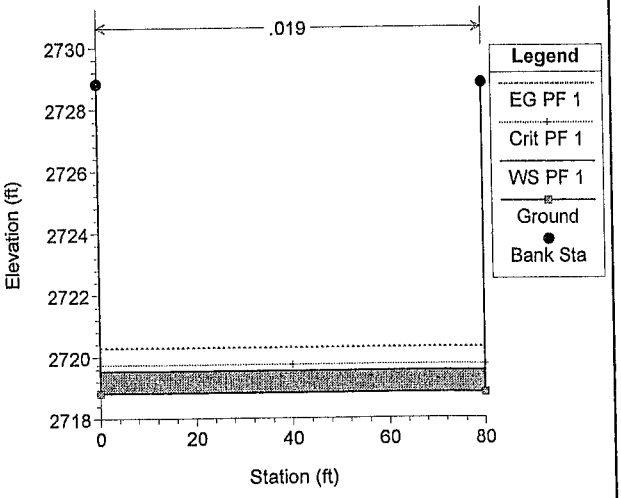
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 757.555*



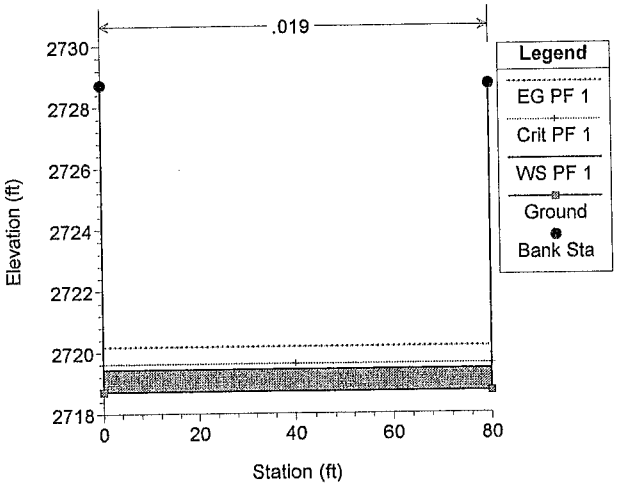
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 747.777*



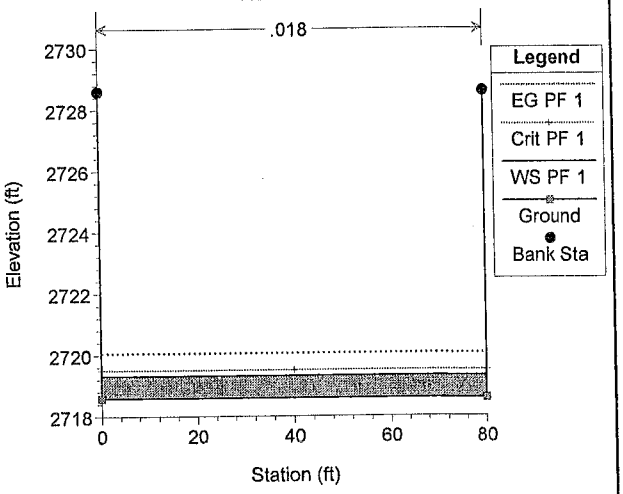
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 738.*



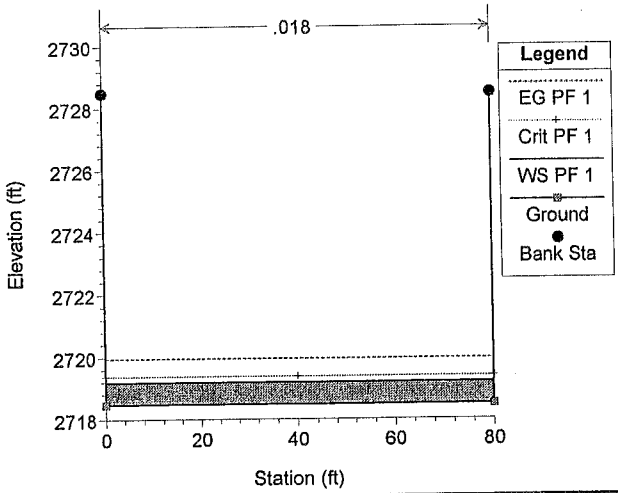
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 728.222*



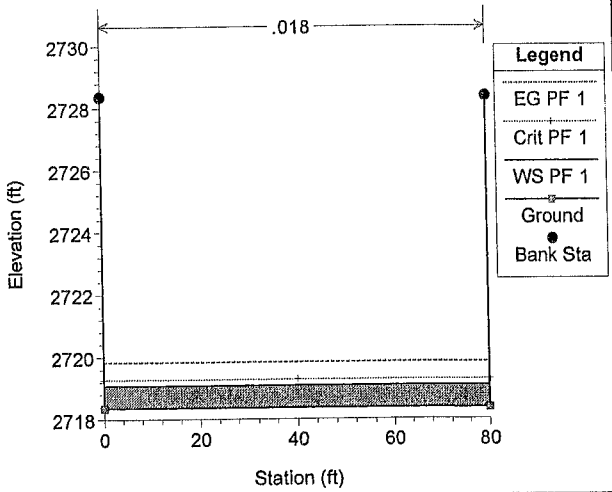
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 718.444*



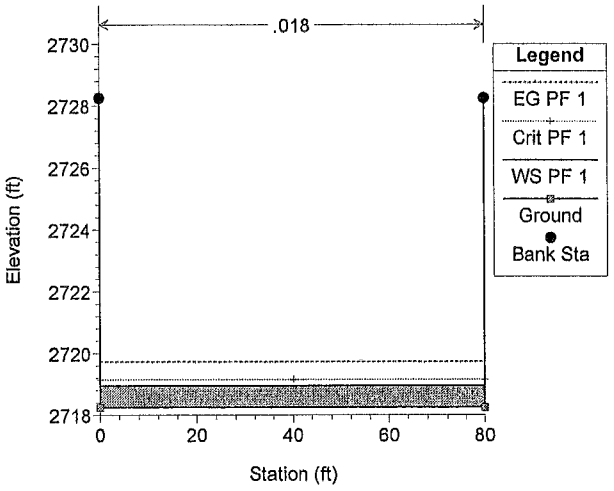
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 708.666*



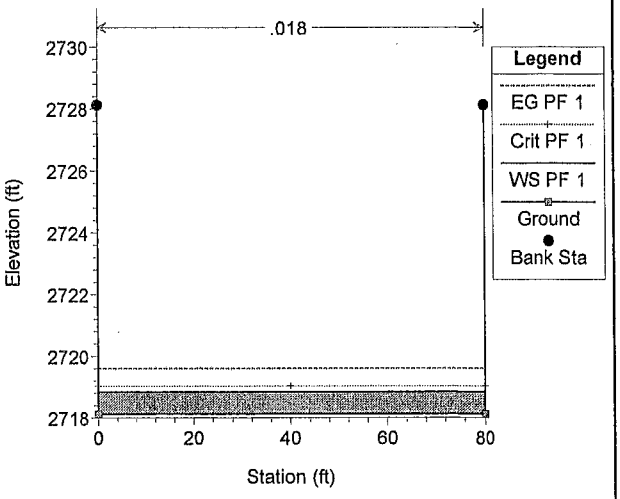
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 698.888*



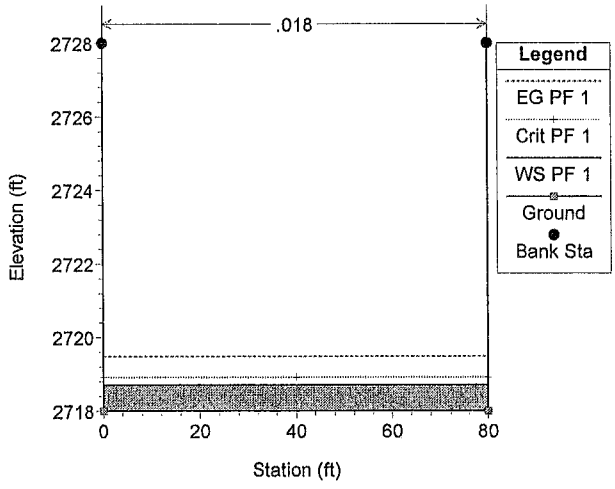
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 689.111*



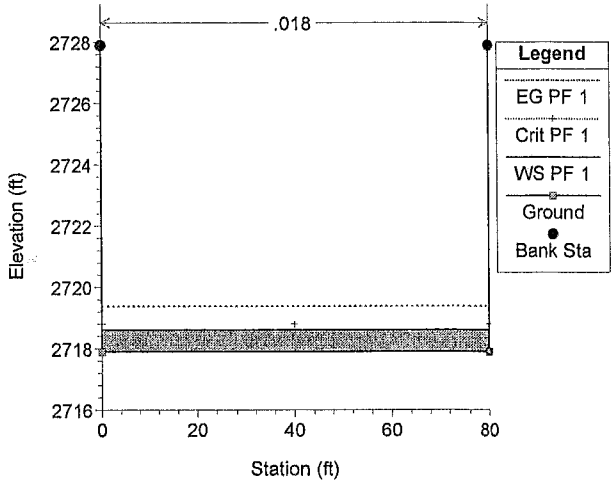
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 679.333*



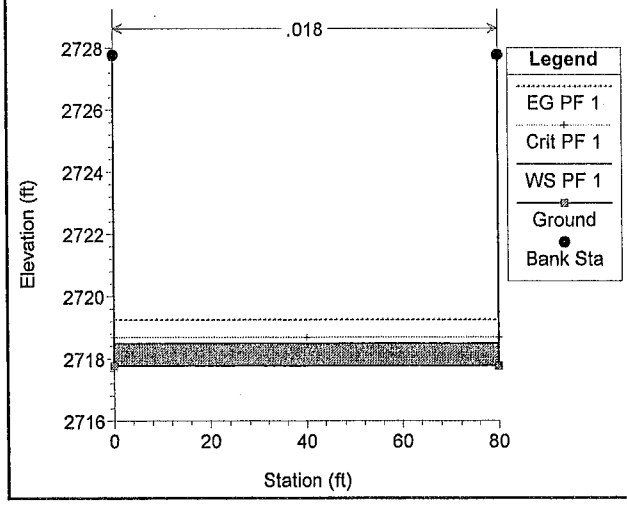
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 669.555*



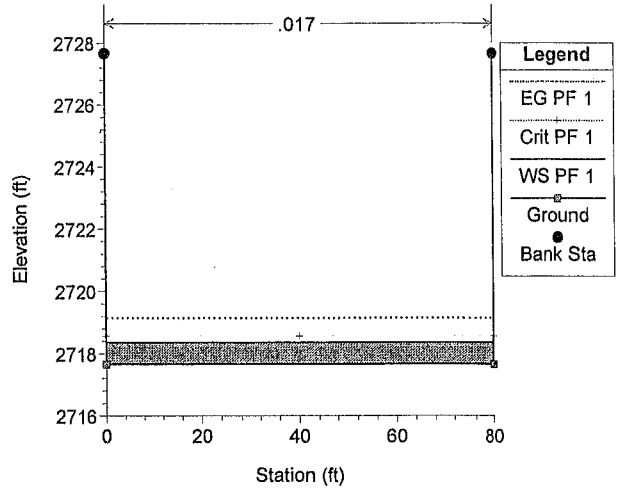
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 659.777*

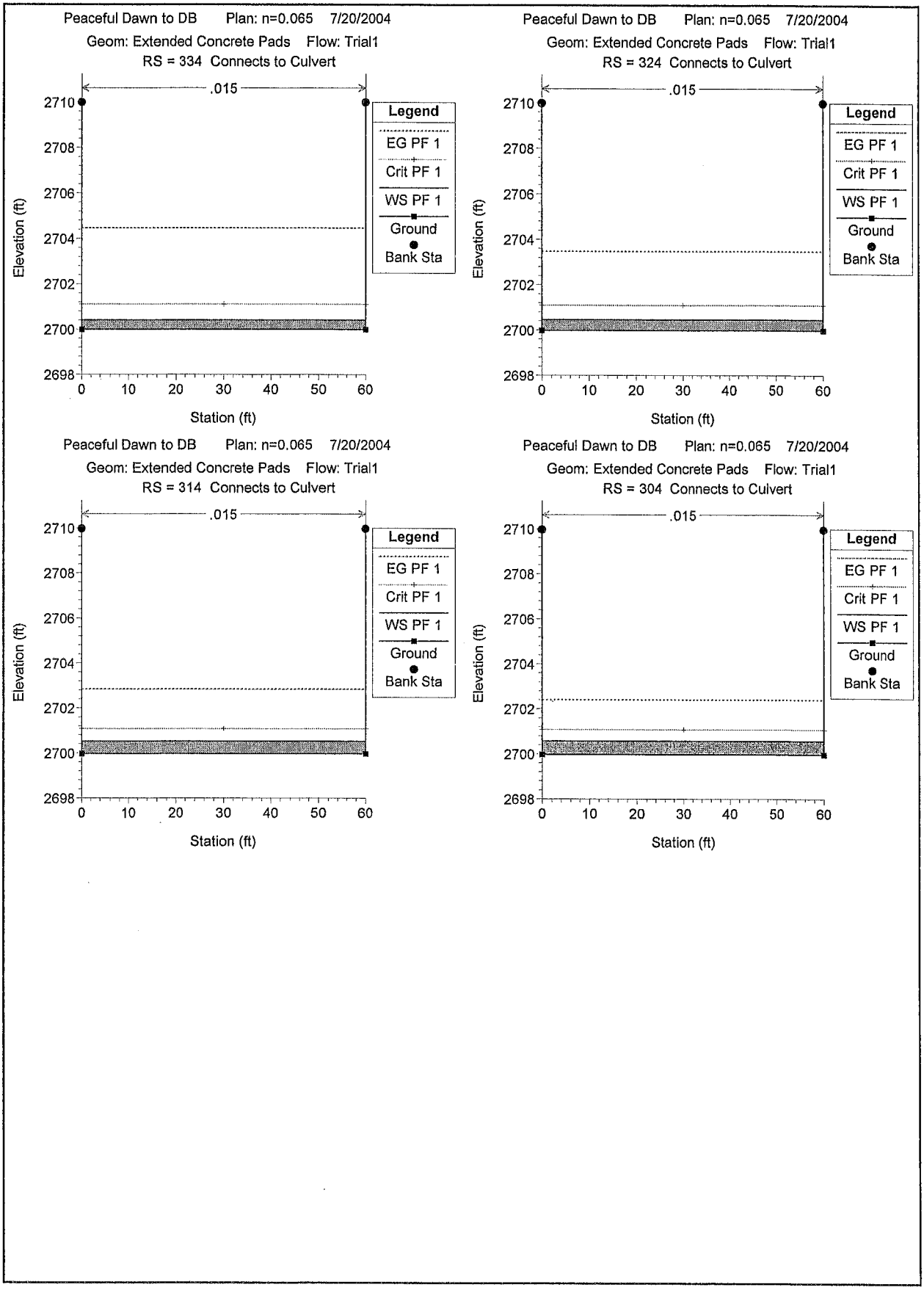


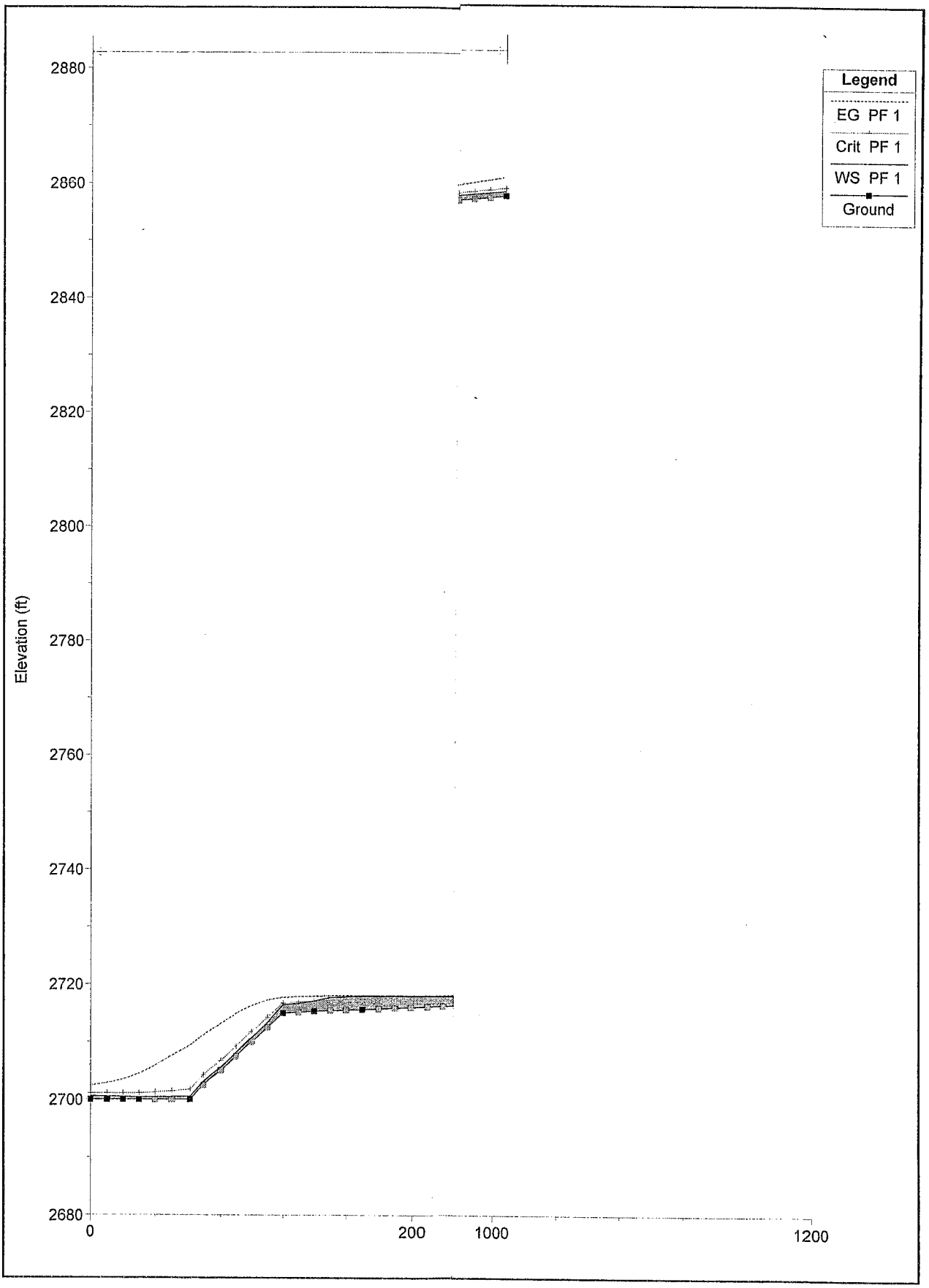
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 650.*



Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 640.222*




Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 334 Connects to Culvert
.015
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 324 Connects to Culvert
.015
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 314 Connects to Culvert
.015
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)
Peaceful Dawn to DB Plan: n=0.065 7/20/2004
Geom: Extended Concrete Pads Flow: Trial1
RS = 304 Connects to Culvert
.015
Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Bank Sta
Elevation (ft)
Station (ft)


Legend
EG PF 1
Crit PF 1
WS PF 1
Ground
Elevation (ft)
2880
2860
2840
2820
2800
2780
2760
2740
2720
2700
2680
0
200
1000
1200

Maintenance Road Culvert HY-8 Model

CURRENT DATE: 07-15-2004 FILE DATE: 07-15-2004
CURRENT TIME: 10:10:59 FILE NAME:

FHWA CULVERT ANALYSIS
HY-8, VERSION 6.1

CULV NO.	SITE DATA: INLET ELEV. (ft)	OUTLET ELEV. (ft)	CULVERT LENGTH (ft)	BARRELS: SHAPE & MATERIAL	SPAN (ft)	RISE (ft)	MANNING n	INLET TYPE
1	2750.00	2749.71	58.00	1 RCB	12.00	4.00	.013	CONVENTIONAL
2								
3								
4								
5								
6								

SUMMARY OF CULVERT FLOWS (cfs) FILE: DATE: 07-15-2004

ELEV (ft)	TOTAL	1	2	3	4	5	6	ROADWAY	ITR
0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0
2751.20	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0
2751.90	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0
2752.47	120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0
2752.98	160.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0
2753.46	200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0
2753.91	240.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0
2754.37	280.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0
2754.85	320.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0
2755.35	360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0
2755.90	400.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0
0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	OVERTOPPING	

SUMMARY OF ITERATIVE SOLUTION ERRORS FILE: DATE: 07-15-2004

HEAD ELEV (ft)	HEAD ERROR (ft)	TOTAL FLOW (cfs)	FLOW ERROR (cfs)	% FLOW ERROR
0.00	0.000	0.00	0.00	0.00
2751.20	0.000	40.00	0.00	0.00
2751.90	0.000	80.00	0.00	0.00
2752.47	0.000	120.00	0.00	0.00
2752.98	0.000	160.00	0.00	0.00
2753.46	0.000	200.00	0.00	0.00
2753.91	0.000	240.00	0.00	0.00
2754.37	0.000	280.00	0.00	0.00
2754.85	0.000	320.00	0.00	0.00
2755.35	0.000	360.00	0.00	0.00
2755.90	0.000	400.00	0.00	0.00

<1> TOLERANCE (ft) = 0.010 <2> TOLERANCE (%) = 1.000

CURRENT DATE: 07-15-2004 FILE DATE: 07-15-2004
CURRENT TIME: 10:10:59 FILE NAME:

PERFORMANCE CURVE FOR CULVERT 1 - 1(12.00 (ft) BY 4.00 (ft)) RCB

DIS-CHARGE FLOW (cfs)	HEAD-WATER ELEV. (ft)	INLET CONTROL DEPTH (ft)	OUTLET CONTROL DEPTH (ft)	FLOW TYPE <F4>	NORMAL DEPTH (ft)	CRIT. DEPTH (ft)	OUTLET DEPTH (ft)	TW DEPTH (ft)	OUTLET VEL. (fps)	TW VEL. (fps)
0.00	2750.00	0.00	0.00	0-NF	0.00	0.00	0.00	0.00	0.00	24.00
40.00	2751.20	1.20	1.20	1-S2n	0.59	0.70	0.50	0.18	6.63	7.57
80.00	2751.90	1.91	1.91	1-S2n	0.93	1.12	0.96	0.27	6.95	9.96
120.00	2752.47	2.48	2.48	1-S2n	1.22	1.46	1.16	0.34	8.61	11.69
160.00	2752.98	2.99	2.99	1-S2n	1.47	1.77	1.53	0.41	8.71	13.09
200.00	2753.45	3.46	3.46	1-S2n	1.70	2.06	1.79	0.47	9.34	14.29
240.00	2753.91	3.92	3.92	1-S2n	1.92	2.32	2.02	0.52	9.90	15.35
280.00	2754.37	4.38	4.38	5-S2n	2.13	2.57	2.25	0.57	10.36	16.31
320.00	2754.85	4.85	4.85	5-S2n	2.33	2.81	2.47	0.62	10.79	17.18
360.00	2755.35	5.36	5.36	5-S2n	2.52	3.04	2.69	0.67	11.15	17.99
400.00	2755.90	5.90	5.90	5-S2n	2.71	3.26	2.89	0.71	11.52	18.74

El. inlet face invert 2750.00 ft El. outlet invert 2749.71 ft
El. inlet throat invert 0.00 ft El. inlet crest 0.00 ft

***** SITE DATA ***** CULVERT INVERT **********

INLET STATION	1058.00 ft
INLET ELEVATION	2750.00 ft
OUTLET STATION	1000.00 ft
OUTLET ELEVATION	2749.71 ft
NUMBER OF BARRELS	1
SLOPE (V/H)	0.0050
CULVERT LENGTH ALONG SLOPE	58.00 ft

***** CULVERT DATA SUMMARY **********

BARREL SHAPE	BOX
BARREL SPAN	12.00 ft
BARREL RISE	4.00 ft
BARREL MATERIAL	CONCRETE
BARREL MANNING'S n	0.013
INLET TYPE	CONVENTIONAL
INLET EDGE AND WALL	SQUARE EDGE (90-45 DEG.)
INLET DEPRESSION	NONE

CURRENT DATE: 07-15-2004
CURRENT TIME: 10:10:59

FILE DATE: 07-15-2004
FILE NAME:

TAILWATER

******* REGULAR CHANNEL CROSS SECTION ***********

BOTTOM WIDTH	30.00 ft
SIDE SLOPE H/V (X:1)	0.0
CHANNEL SLOPE V/H (ft/ft)	0.240
MANNING'S n (.01-0.1)	0.030
CHANNEL INVERT ELEVATION	2749.71 ft
CULVERT NO.1 OUTLET INVERT ELEVATION	2749.71 ft

******* UNIFORM FLOW RATING CURVE FOR DOWNSTREAM CHANNEL

FLOW (cfs)	W.S.E. (ft)	FROUDE NUMBER	DEPTH (ft)	VEL. (f/s)	SHEAR (psf)
0.00	2749.71	5.675	0.00	24.00	8.32
40.00	2749.88	3.175	0.18	7.57	2.64
80.00	2749.97	3.391	0.27	9.96	4.01
120.00	2750.05	3.522	0.34	11.69	5.13
160.00	2750.11	3.615	0.41	13.09	6.10
200.00	2750.17	3.688	0.47	14.29	6.99
240.00	2750.23	3.748	0.52	15.35	7.80
280.00	2750.28	3.799	0.57	16.31	8.57
320.00	2750.33	3.843	0.62	17.18	9.30
360.00	2750.37	3.882	0.67	17.99	9.99
400.00	2750.42	3.916	0.71	18.74	10.65

ROADWAY OVERTOPPING DATA

ROADWAY SURFACE	PAVED
EMBANKMENT TOP WIDTH	0.00 ft
CREST LENGTH	58.00 ft
OVERTOPPING CREST ELEVATION	15.00 ft

Flowmaster Calculations

Grass-lined V-Ditch - South Detention Basin
Worksheet for Irregular Channel

Project Description	
Worksheet	Grass-lined V-Ditch - South Detention Basin
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Channel Depth

Input Data		
Channel Slope	0.010000	ft/ft
Discharge	905.00	cfs

Options	
Current Roughness Method	Improved Lotter's Method
Open Channel Weighting Method	Improved Lotter's Method
Closed Channel Weighting Metho	Horton's Method

Results		
Mannings Coefficient	0.030	
Water Surface Elevation	3.54	ft
Elevation Range	0.00 to 4.00	
Flow Area	125.3	ft²
Wetted Perimeter	71.15	ft
Top Width	70.79	ft
Actual Depth	3.54	ft
Critical Elevation	3.48	ft
Critical Slope	0.010979	ft/ft
Velocity	7.22	ft/s
Velocity Head	0.81	ft
Specific Energy	4.35	ft
Froude Number	0.96	
Flow Type	Subcritical	

Roughness Segments

Start Station	End Station	Mannings Coefficient
0+00	0+80	0.030

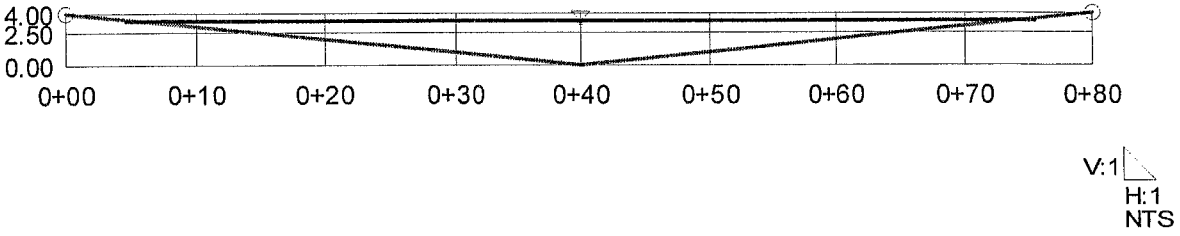
Natural Channel Points

Station (ft)	Elevation (ft)
0+00	4.00
0+40	0.00
0+80	4.00

Grass-lined V-Ditch - South Detention Basin
Cross Section for Irregular Channel

Project Description	
Worksheet	Grass-lined V-Ditch - South Detention Basin
Flow Element	Irregular Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.030	
Channel Slope	0.010000	ft/ft
Water Surface Elevation	3.54	ft
Elevation Range	0.00 to 4.00	
Discharge	905.00	cfs



South Channel Before Dual Pipes
Worksheet for Rectangular Channel

Project Description	
Worksheet	South Channel
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

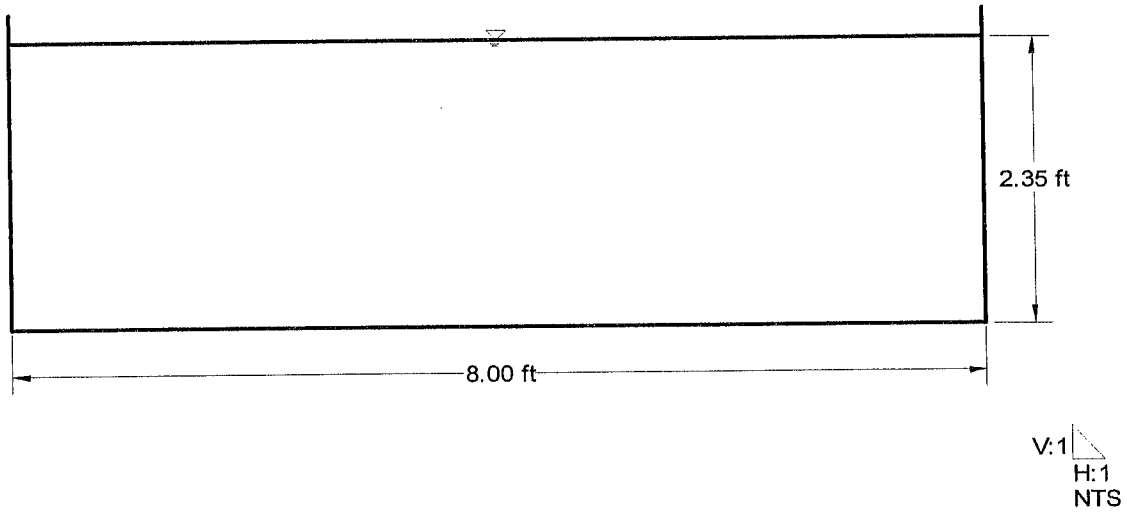
Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.052600	ft/ft
Bottom Width	8.00	ft
Discharge	642.00	cfs

Results		
Depth	2.35	ft
Flow Area	18.8	ft^2
Wetted Perimeter	12.71	ft
Top Width	8.00	ft
Critical Depth	5.85	ft
Critical Slope	0.004545	ft/ft
Velocity	34.08	ft/s
Velocity Head	18.05	ft
Specific Energy	20.41	ft
Froude Number	3.92	
Flow Type	Supercritical	

South Channel Before Dual Pipes
Cross Section for Rectangular Channel

Project Description	
Worksheet	South Channel
Flow Element	Rectangular Channel
Method	Manning's Formula
Solve For	Channel Depth

Section Data		
Mannings Coefficient	0.013	
Channel Slope	0.052600	ft/ft
Depth	2.35	ft
Bottom Width	8.00	ft
Discharge	642.00	cfs



South Channel WSPG Model

```
T1 Western Beltway                                                                                                  0
T2 South Channel Right Before Dual Pipes
T3 Project #451-002
SO   1153.8002717.700  1      .013
R    1153.8002717.700  1      .013                                                          .000     .000 0
WE   1153.8002717.700  2      .500
JX   1172.8002719.690  6  5   .013  112.000          2721.200          -70.8          .000
TS   1175.8002720.000  7      .013                                                          .000
R    1210.9802724.580  7      .013                                                          .000     .000 0
R    1242.1602728.660  7      .013                                                        35.730     .000 0
R    1250.0002729.680  7      .013                                                          .000     .000 0
SH   1250.0002729.680  7                                    2732.030
CD   1  4   2    .000    4.500     .000  .000  .000   .00
CD   2  3   0    .000    4.500   13.500  .000  .000   .00
CD   3  4   1    .000    4.000     .000  .000  .000   .00
CD   4  3   0    .000    7.520    8.750  .000  .000   .00
CD   5  3   0    .000    7.520    8.750  .000  .000   .00
CD   6  3   0    .000    7.520    8.750  .000  .000   .00
CD   7  3   0    .000    8.000    8.000  .000  .000   .00
CD   8  3   0    .000    7.500   24.000  .000  .000   .00
Q            642.000   .0
```

Western Beltway
South Channel Right Before Dual Pipes
Project #451-002

Station / L/Elem	Invert Elev / Ch Slope	Depth (FT) / SF Ave	Water Elev / HF	Q (CFS) / SE Dpth	Vel (FPS) / Froude N	Vel Head / Norm Dp	Energy Grd.El. / "N"	Super Elev / X-Fall	Critical Depth / ZR	Flow Top Width / Type Ch	Height/Dia.-FT or I.D. / Base Wt ZL / No Wth Prs/Pip
1153.800	2717.700	4.453	2722.153	754.00	23.75	8.76	2730.91	.00	4.45	.91	4.500 .000 .00 2 .0
WALL ENTRANCE											
1153.800	2717.700	14.000	2731.700	754.00	12.41	2.39	2734.09	.00	4.50	13.50	4.500 13.500 .00 0 .0
JUNCT STR	.1047					.0059	.11	14.00	1.03		.013 .00 .00 BOX
1172.800	2719.690	13.581	2733.271	642.00	9.76	1.48	2734.75	.00	5.51	8.75	7.520 8.750 .00 0 .0
TRANS STR	.1034					.0028	.01	13.58	.63		.013 .00 .00 BOX
1175.800	2720.000	13.218	2733.219	642.00	10.03	1.56	2734.78	.00	5.85	8.00	8.000 8.000 .00 0 .0
.175	.1302					.0031	.00	13.22	.63	1.72	.013 .00 .00 BOX
1175.975	2720.023	13.197	2733.219	642.00	10.03	1.56	2734.78	.00	5.85	8.00	8.000 8.000 .00 0 .0
HYDRAULIC JUMP											
1175.975	2720.023	2.074	2722.097	642.00	38.69	23.24	2745.34	.00	5.85	8.00	8.000 8.000 .00 0 .0
1.511	.1302					.0754	.11	2.07	4.73	1.72	.013 .00 .00 BOX
1177.486	2720.219	2.078	2722.298	642.00	38.62	23.15	2745.45	.00	5.85	8.00	8.000 8.000 .00 0 .0
33.494	.1302					.0704	2.36	2.08	4.72	1.72	.013 .00 .00 BOX
1210.980	2724.580	2.180	2726.760	642.00	36.82	21.05	2747.81	8.00	5.85	8.00	8.000 8.000 .00 0 .0
6.410	.1308					.0646	.41	8.00	4.39	1.72	.013 .00 .00 BOX
1217.390	2725.419	2.203	2727.622	642.00	36.43	20.61	2748.23	8.00	5.85	8.00	8.000 8.000 .00 0 .0
24.770	.1308					.0596	1.48	8.00	4.33	1.72	.013 .00 .00 BOX

Western Beltway
South Channel Right Before Dual Pipes
Project #451-002

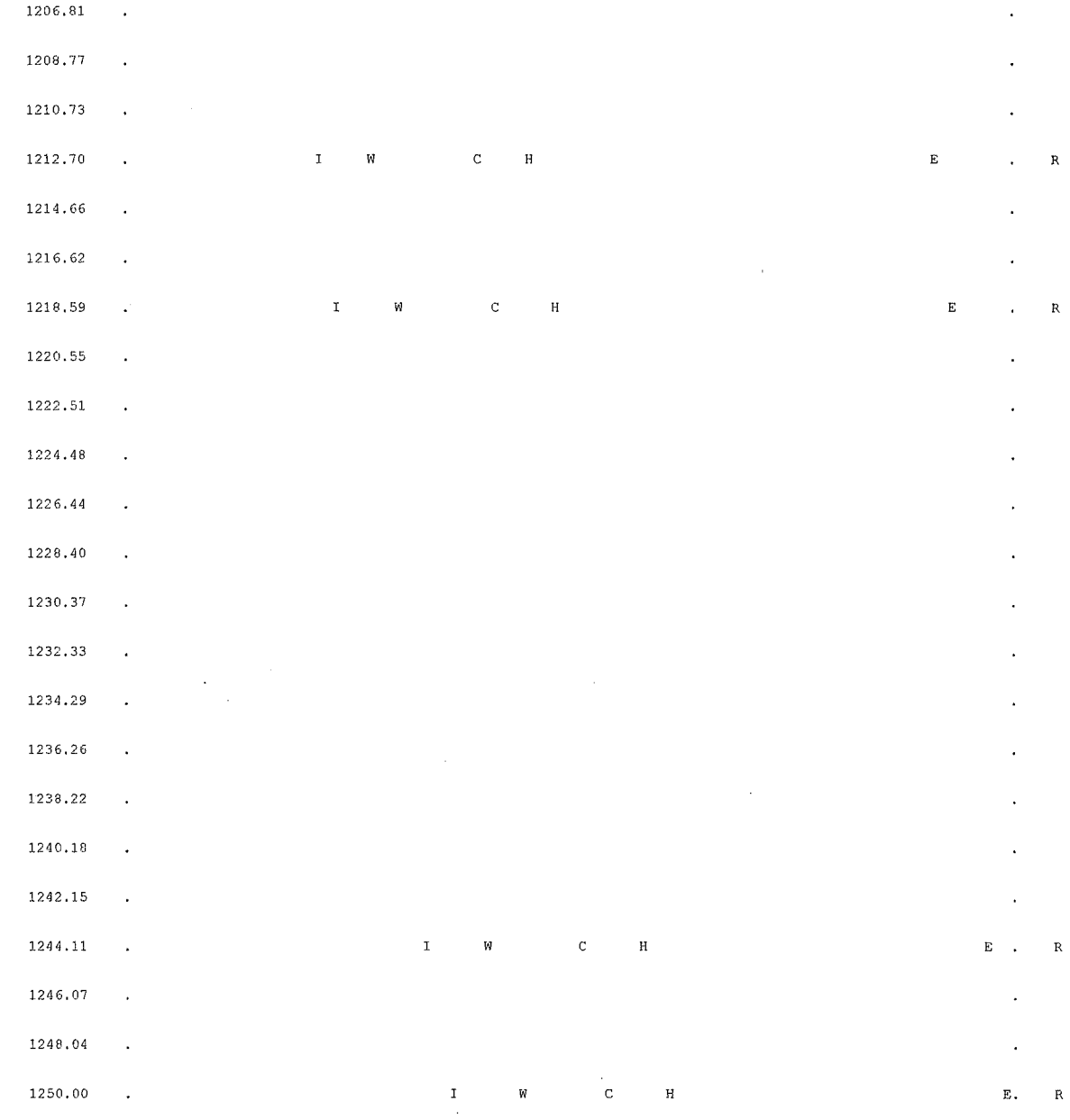
Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Dia.-FT or "N"	Base Wt I.D. or X-Fall	ZL	ZR	No Wth Prs/Pip Type Ch
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp					
1242.160	2728.660	2.310	2730.970	642.00	34.73	18.73	2749.70	.00	5.85	8.00	8.000	8.000	.00	0	.0
7.840	.1301					.0542	.42	2.31	4.03	1.72	.013	.00	.00	BOX	
1250.000	2729.680	2.350	2732.030	642.00	34.15	18.11	2750.14	.00	5.85	8.00	8.000	8.000	.00	0	.0

Western Beltway

South Channel Right Before Dual Pipes

Project #451-002

```
1153.80   .IYYYYYYYYYYYH                        E                                    .  WE
1155.76   .I            H                          W      E                          .  JX
1157.73   .                                                                          .
1159.69   .                                                                          .
1161.65   .                                                                          .
1163.62   .                                                                          .
1165.58   .                                                                          .
1167.54   .                                                                          .
1169.51   .                                                                          .
1171.47   .                                                                          .
1173.43   .     I              C     H               W   E                           .  TX
1175.40   .                                                                          .
1177.36   .      I               C     H             W    E                          .  R
1179.32   .      I               C     H             W    E                          .  R
1181.29   .      I     W         C     H                                  E          .  R
1183.25   .      I      W        C      H                                 E          .  R
1185.21   .                                                                          .
1187.18   .                                                                          .
1189.14   .                                                                          .
1191.10   .                                                                          .
1193.07   .                                                                          .
1195.03   .                                                                          .
1196.99   .                                                                          .
1198.96   .                                                                          .
1200.92   .                                                                          .
1202.88   .                                                                          .
1204.84   .                                                                          .
```



N O T E S
1. GLOSSARY
   I = INVERT ELEVATION
   C = CRITICAL DEPTH
   W = WATER SURFACE ELEVATION
   S = SUPER-ELEVATION
   H = HEIGHT OF CHANNEL
   E = ENERGY GRADE LINE
   X = CURVES CROSSING OVER
   B = BRIDGE ENTRANCE OR EXIT
   Y = WALL ENTRANCE OR EXIT
2. STATIONS FOR POINTS AT A JUMP MAY NOT BE PLOTTED EXACTLY

South Channel Dual 54-inch RCP Calculations

$\Delta E = E_1 - E_2$

$= 2730.91 - 2706.91$

$= 24'$

E_1 = EGL from in WSPG model Parallel RCP, WSH

E_2 = WSE assuming 1' ponding in impact basin above top of Dual 54" RCP outlet

Hydraulic Jump occurs in Pipe

$H_{L_{jump}} = \Delta E - H_{L_{pipe}}$

$= 24' - 16'$

$H_{L_{jump}} = 8'$

$H_{L_{pipe}} = 16'$ from "Calculation for Head Loss in Dual 54" RCP"

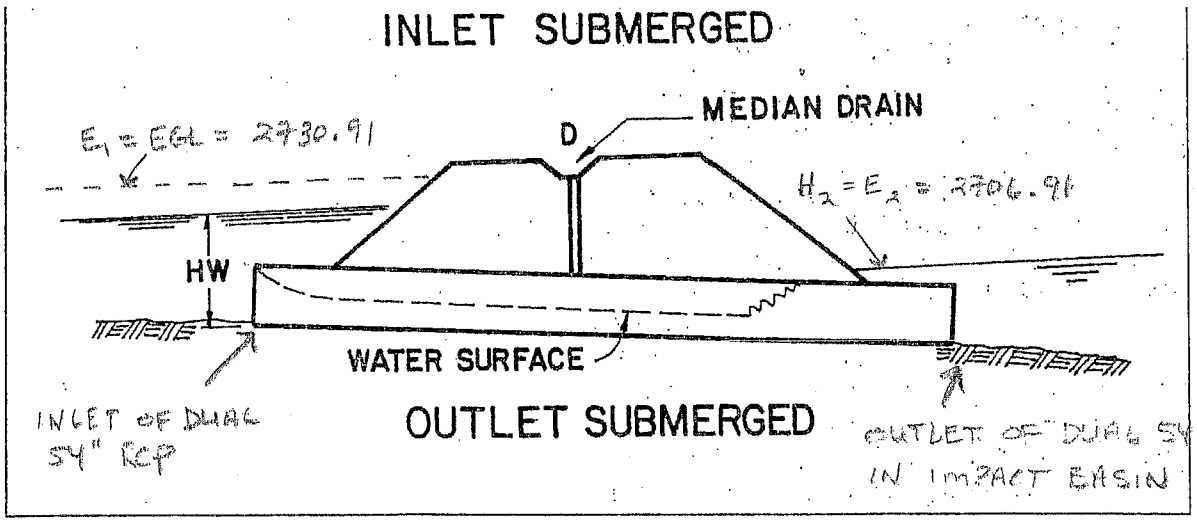
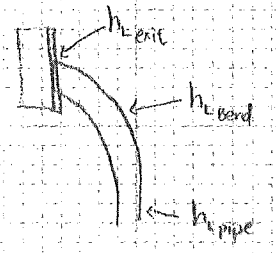


Figure 44. Types of inlet control

WESTERN SEGMENT OF THE LAS VEGAS BELTWAY — DATE 7/19/04

CLIENT CRAIG ROAD TO HUALAPAI WAY — JOB NO 451-002 — CALC BY RL / JL

DESCRIPTION Calculation For Head Loss in Dual 54" RCP — CHECKED BY BH



$Q = VA = 754$ cfs

Since there are two pipes, flow is divided by two

$\therefore Q = 754/2 \Rightarrow Q = 377$ cfs

$V = Q/A = 377\ cfs / \pi \cdot 2.25\ ft^2 = 23.70$ ft/s

Headloss Exit

When water hits impact wall $v \to 0$ ft/s $\therefore$ $\frac{P_1}{\gamma_1}^{0} + \frac{V_1^2}{2g} + \cancel{z_1}^{0} = \frac{P_2}{\gamma_2}^{0} + \frac{V_2^2}{2g}^{0} + \cancel{z_2}^{0} + h_{L\,exit}$

$h_{L\,exit} = \frac{V_1^2}{2g} = \frac{23.70^2\ ft^2/s^2}{2 \cdot 32.2\ ft/s^2} = 8.72$ ft

Headloss in Bend

$K_b = 0.25(\theta/90)^{0.5}$

$K_b = 0.25(43.54/90)^{0.5}$

$K_b = 0.174$

Radius of curve = 50 ft Length of curve = 38 ft

Circumference $= 2\pi r = 314.16$ ft

$\frac{314.16}{360^\circ} = \frac{38\ ft}{\theta} \Rightarrow \theta = 43.54^\circ$

$h_{L\,bend} = K_b(V^2/2g) \Rightarrow 0.174\left[23.70^2\ ft^2/s^2 / 2(32.2\ ft/s^2)\right] = 1.52$ ft

Headloss in Pipe

Hydraulic Radius assuming full flow $\Rightarrow R = \frac{D}{4} = \frac{7.5'}{4}$

$\Rightarrow R = 1.125'$

Flow Coefficient $= \phi = 2gn^2/2.21 = 2(32.2)(0.013)^2/2.21 \Rightarrow \phi = 4.92 \times 10^{-3}$

Velocity Head $= H_v = \frac{V^2}{2g} = \frac{23.70^2}{2(32.2)} \Rightarrow H_v = 8.72$ ft

Friction Slope $= S_f = \phi H_v / R^{1.33} = 0.00492 \cdot 8.72 / 1.125^{1.33} \Rightarrow S_f = 0.0367$ ft/ft

Length of pipe = 153.8 ft

$h_{L\,pipe} = S_f \times L = 0.0367 \cdot 153.8 = 5.64$ ft

$\triangle$ Headloss = Headloss Exit + Headloss in Bend + Headloss in Pipe $= 8.72 + 1.52 + 5.64 = 15.88$ ft

$\triangle$ Headloss = 15.88 ft

G. C. WALLACE, INC.
Engineers/Planners/Surveyors
1555 SOUTH RAINBOW BLVD / LAS VEGAS, NEVADA 89146

SHEET ____ OF ____

South Channel Impact Basin Calculations

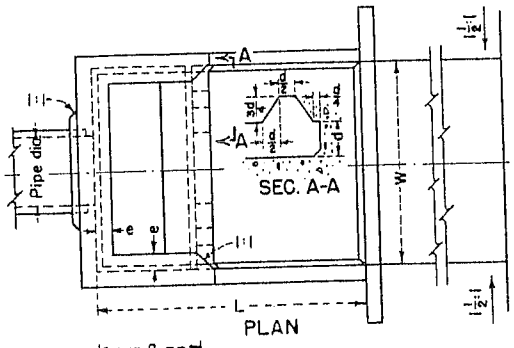
UNITED STATES DEPARTMENT OF THE INTERIOR

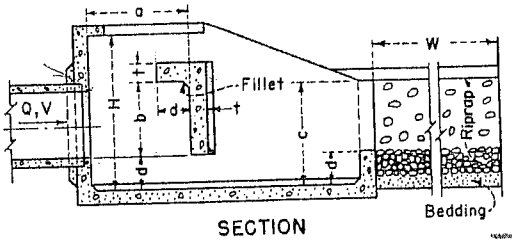
BUREAU OF RECLAMATION

DESIGN OF SMALL DAMS

A Water Resources Technical Publication

First Edition, 1960
Second Edition, 1973
Revised Reprint, 1977
Third Edition, 1987





H = ¾ (W) d = ⅛ (W)
L = 4/3 (W) e = ½ (W)
a = ½ (W) t = ½ (W), suggested minimum
b = ⅜ (W) Riprap stone size diameter = 1/20 (W).
c = ½ (W)

STILLING BASIN DESIGN

$H = 15'$

$L = 27'$

$a = 10'$

$b = 7.5'$

$c = 10'$

$d = 3.33'$

$e = 1.67'$

$t = 1.67'$

Riprap

$D_{50} = 12''$

thickness = 24"

$V = \frac{400\ cfs}{\frac{(4.5)^2 \pi}{4}}$

$= 25.15\ FPS$

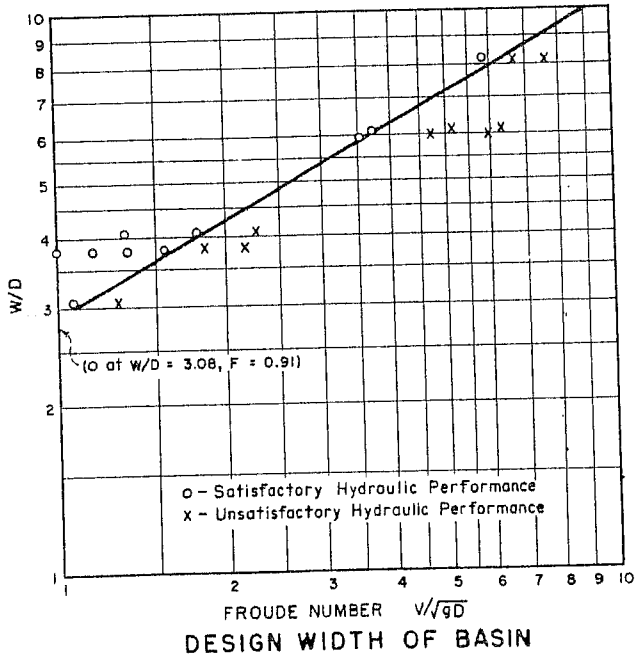
$F = \frac{25.15}{\sqrt{(32.2)(4.5)}}$

$= 2.1$

$W/D = 4.5$

$W = 4.5^2 = 20.25'$

$\Rightarrow W \sim 20'$



DESIGN WIDTH OF BASIN

NOTES:

W is the inside width of the basin.
D represents the depth of flow entering the basin and is the square root of the flow area.
V is the velocity of the incoming flow.

Figure 10-14.—Dimensional criteria for impact-type stilling basin. 288-D-2436.

36-inch RCP Drain Low Flow System Calculations

Hydraulics of Stepped Spillways, Minor & Hager (eds) © 2000 Balkema, Rotterdam, ISBN 90 5809 135 X

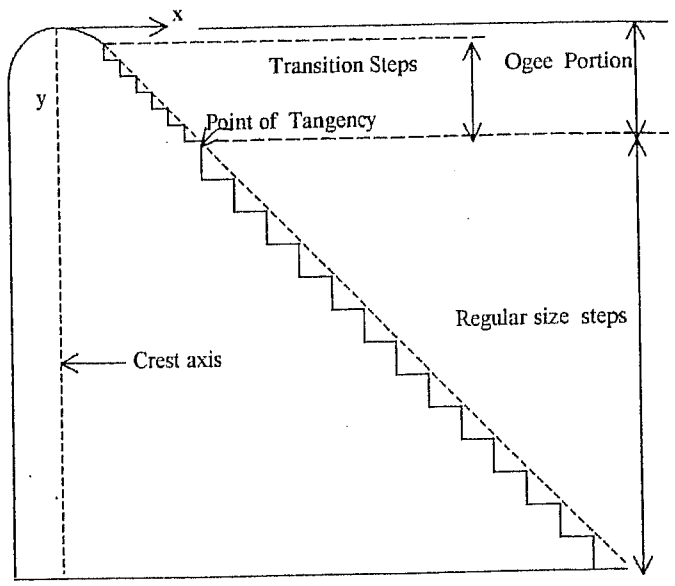
Design of stepped spillway for skimming flow regime

Sandeep P.Tatewar
Department of Civil Engineering (R and D Cell), Government College of Engineering, Amravati, India
Ramesh N. Ingle
Yashwantrao College of Engineering, Wanadongari, Nagpur, India

ABSTRACT: This paper deals with the hydraulic design of stepped spillway and develops a methodology for a design of stepped spillways for skimming flow regime. The paper suggests a criteria for suitability of stepped spillways in terms of design parameters. A method for fixation of step geometry from the consideration of minimizing the length of stilling basin is described. Adopting prototype data of Tehari dam project in India, the procedure of design is illustrated as an example. Considerable reduction in the length of stilling basin is possible by adopting a stepped spillway.

1. INTRODUCTION

Recently considerable interest is generated in the study of stepped spillway because of the technical advances in the construction of roller compacted concrete (RCC) dams and the advantages it offers in increased energy dissipation in the flow over the spillway face. Frizell and Mefford (1991) stated that the compatibility of stepped spillway design with RCC construction techniques results in low additional cost for the spillway. A stepped spillway is a standard overflow section of a dam with a series of steps starting below the crest up to the toe (Fig.1). Few smaller steps called transition steps are provided near the crest to eliminate the risk of deflection of jet of water. Below the point of tangency, a regular step height is to be provided. Provision of steps on the face of spillway increases energy dissipation in the flow over the spillway face thereby reducing the total energy at the toe of spillway, which reduces the cost of the energy dissipation arrangement. The flow over stepped spillway is very complex in nature. Regimes of this flow can be broadly classified as : (i) skimming flow,in which the steps are completely submerged and no nappe is formed, the flow being supercritical throughout; (ii) nappe flow,in which a nappe is formed on each step and the flow is subcritical on the portion of step. Rajaratnam (1990) developed an approximate criteria for defining the regimes of flow,which states that the ratio of critical depth to step height should be more than 0.8 for skimming flow regime. Generally the downstream face of the spillway has a slope of 1 Vertical : 0.7 Horizontal. For the normal range of discharges the flow would be in the skimming regime. This paper deals with the hydraulic design of stepped spillway for skimming flow regime. The research work reported in literature is mainly on the analysis of flow and estimation of energy loss. Little information is available for general guidelines and procedure for the design of stepped spillway. A methodology for the design of stepped spillway for skimming flow regime, and criteria for the suitability of stepped spillway in terms of design parameters is described. The method of fixation the step geometry from the consideration of minimizing the stilling basin length is described. An illustrative example for the prototype data of Tehari dam project in India is given.

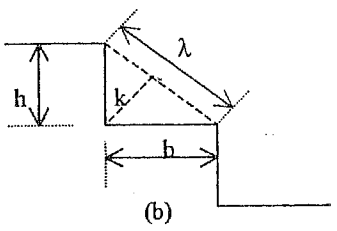


(a)

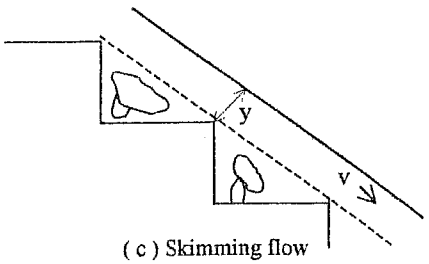
$h = 1'$

$b = 2'$

$\lambda = 1.73'$



(b)

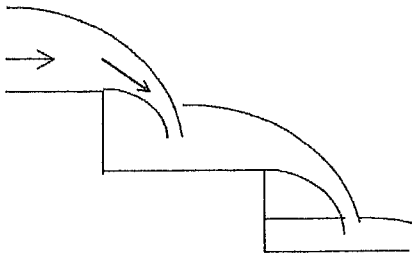


(c) Skimming flow

$\cos\alpha = \frac{k}{h}$

$\Rightarrow k = \cos 26.6^\circ$

$= 0.89'$



(d) Nappe flow

Figure 1 : Definition sketch for stepped spillway

2. COMPUTATION OF ENERGY DISSIPATION

In the design of the overflow portion of a dam provided with steps on the downstream face, the data regarding discharge q, slope of downstream face S, step size and geometry are known. Therefore, the values of λ, k and b can be determined (Fig.1(b)). Tatewar and Ingle (1996)

proposed a method for the computation of flow depth at the toe of spillway for skimming flow regime. The toe depth can be determined using Manning's equation as

$$v = (1/n)\, R^{2/3}\sqrt{S}, \quad (1)$$

where $v = q/y$ = velocity of flow.

Therefore, $$y = (q\, n/\sqrt{S})^{0.6} \quad (2)$$

where n = Manning's roughness coefficient; R = hydraulic radius equal to y for a wide rectangular channel and $S = \sin\alpha$ = slope of downstream spillway face.
Equating the values of velocity given by equation (1) and equation given by Knight and Mc Donold (1979) for the velocity over large roughness elements, the following equation can be obtained

$$Z^{0.1}/ng^{1/2} = 0.25 + 19.0 \log(\lambda/b) + 5.75 \log(Z^{0.6}/k) \quad (3)$$

where $Z = (q\, n/\sqrt{S})$ = section factor for computation of uniform flow.

For a known discharge and downstream slope of spillway the value of Manning's n can be determined from equation (3). With this value of n, the toe depth (y) and toe velocity (v) can be computed from equation (2) and equation (1). The energy dissipation over the surface of spillway is given as

$$\Delta E = E - E_t, \quad (4)$$

where $E = H + 1.5 * y_c$ = energy at the crest of spillway; $E_t = y + v^2/2g$ = energy at the toe of spillway; H = height of spillway and y_c = critical depth of flow.

3. SELECTION OF STEP HEIGHT

The step height selected should be such that for a given discharge, the required length of the stilling basin should be a minimum.The Froude number at the toe of the spillway governs the type of stilling basin. According to USBR commonly adopted stilling basins are based on the Froude number at the toe of the spillway, classified as type-II and type-IV (Chow (1959)). When the Froude number (F) is between 2.5 to 4.5, stilling basin type-IV is provided. In this case, the hydraulic jump formed is oscillating which requires more length for the stilling basin. When the Froude number is larger than 4.5, stilling basin type-II should be provided, where the jump is steady and therefore length required to be provided is less. If the step height to be provided is selected such that the Froude number at the toe of the spillway is 4.5 for the design discharge, then the length of stilling basin required would be minimum. However, it is necessary that such a stilling basin should perform efficiently for all values of discharge lower than the design discharge. At lower discharges the Froude number would be less than 4.5 and oscillating type hydraulic jump would form, for which the length of stilling basin required should be more for efficient performance. It is therefore recommended that the step height should be such that the Froude number at the toe of spillway is larger than 4.5 for the design discharge and the corresponding length of Type-II stilling basin provided is sufficient for lower discharges, having a Froude number less than 4.5 even from the consideration of length requirement for Type-IV basin. In order to determine such a Froude number, design discharges in the range of 0.071 to 5.86 $m^3/s/m$ are considered and for each value of design discharge, various values of Froude numbers in the ascending order from 4.5 are assumed. Then, for each value of design discharge and Froude number, the toe depth and the specific energy at the spillway toe are calculated. Following the method of computation of energy dissipation described in paragraph 2, the step height for this specific energy is determined. For the assumed value of Froude number at design discharge, length of Type-II stilling basin is determined and it is checked whether this length is sufficient to take care of all the discharges lower than the design discharge. Adopting this trial

Model Study of a Roller Compacted Concrete Stepped Spillway

By Charles E. Rice[1] and Kem C. Kadavy[2]

Abstract: Studies were conducted with a two-dimensional 1:20 scale model of a roller compacted concrete stepped spillway to evaluate the flow transition from the level spillway crest to the sloping steps, the energy dissipation of the steps, and performance of the proposed stilling basin. The steps were effective in dissipating energy. At maximum discharge, 14.5 $m^3/s/m$ (156 $ft^3/s/ft$), the energy dissipation with the steps was 48% compared with an energy dissipation of 20% for the spillway with a smooth chute surface. At 5.81 $m^3/s/m$ (62.5 $ft^3/s/ft$), the energy dissipation with the steps was 71% compared with 25% with a smooth chute surface. The energy dissipation caused by the steps significantly reduces the size of stilling basin required at the toe of the spillway compared to a conventional chute spillway.

INTRODUCTION

A roller compacted concrete stepped spillway was designed by the U.S. Department of Agriculture (USDA) Soil Conservation Service (SCS), Temple, Texas, for the Salado Creek Site 10, San Antonio, Texas. Location of the reservoir within the city limits of San Antonio places the reservoir in a high-hazard-potential category. Concern for safety and because the generalized criteria for the design of stepped spillways are limited, the SCS contracted our laboratory to conduct hydraulic model studies to evaluate the proposed design.

The proposed spillway for Salado Creek Site 10 is 73.15 m (240 ft) wide with a design discharge of 1,062 m^3/s (37,500 ft^3/s); the design unit discharge is 14.5 $m^3/s/m$ (156 $ft^3/s/ft$). The difference in elevation between the spillway crest and the floor of the stilling basin is 17.07 m (56 ft). The spillway crest is at an elevation of 260.91 m (856.0 ft) and the stilling basin floor is at an elevation of 243.84 m (800.0 ft). The spillway will be constructed over an existing earthen dam with a $1V$:$3H$ downstream slope. The proposed step dimensions are 0.610 m (2 ft) high by 1.524 m (5 ft) in length, giving a $1V$:$2.5H$ slope. A schematic of the spillway is presented in Fig. 1.

BACKGROUND

The design concept for stepped spillways is not new. However, there was little interest in the spillways prior to 1982. In 1982 the Bureau of Reclamation conducted model studies of a stepped spillway for the Upper Stillwater Dam proposed for construction in Utah (Houston 1987; Young 1982). Sorensen (1985) reported on the model study of the Monksville Dam of the Wanaque South Project in New Jersey. Rajaratnam (1990) and Christodoulou (1993) present analyses of energy dissipation for stepped spillways. These studies have demonstrated that stepped spillways are effective in kinetic energy dissipation, thereby reducing the required size of the stilling basin at the toe of the dam.

For the Upper Stillwater Dam (Houston 1987; Young 1982), the energy reduction achieved by the stepped spillway over a conventional smooth spillway of the same height was approximately 75%. This reduction in energy required a stilling basin only half as long as one for a conventional (equivalent) high dam. Sorensen (1985) reported toe velocities of 9.2 m/s (3 ft/s) for the 36.6 m (120 ft) high Monksville Dam stepped spillway compared with toe velocities of 22.9 m/s (75 ft/s) for a prototypical spillway (smooth chute surface), which represented a kinetic energy dissipation of 84%.

Christodoulou (1993) found from experiments on a moderately sized stepped spillway that the energy dissipation may be significantly less than that suggested by earlier studies based on the establishment of uniform flow on high spillways. The energy loss due to the steps depended primarily on the y_c/h ratio, where y_c is the critical depth of flow passing over the spillway and h is the step height; as well as on the number of steps N. For small values of y_c/h near unity, i.e., near the limit of skimming flow, the stepped surface was very effective in dissipating energy, and for higher values of y_c/h, the effect of N became appreciable. At a certain y_c/h, the relative energy loss increased with N.

Using model results and experimental results from Sorensen (1985), Christodoulou (1993) presented a general relation between the energy loss and the parameter y_c/h, and an experimental curve expressing the relative energy loss in terms of the parameter y_c/Nh for the commonly used values of l/h (where l is the step length) close to 0.7 and y_c/h in the range of 1–4.

Rajaratnam (1990) presented a method for predicting the shear stress and the frictional energy loss for skimming flow and suggested it would be interesting and useful to find the coefficient of fluid friction, c_f, for skimming flow for stepped spillways for a range of slopes or h/l values. Using the experimental observations of Sorensen (1985) on a 1:25-scale model of the new Monksville Dam (h/l = 1.28), Rajaratnam (1990) found that c_f for skimming flow varied from 0.11 to 0.20, with an average value of 0.18.

Previous model studies have used the Waterways Experiment Station or theoretical nappe curves for the spillway crest, with a steep (>$1V$:$1H$) slope tangent to the crest curve for the remaining spillway height. The profile for the proposed Salado spillway is considerably flatter, $1V$:$2.5H$. It would be expected that the flatter slope would have a smaller fluid friction coefficient, thus, less energy dissipation compared to spillways with steeper slopes.

The unit discharge for the Salado spillway is 14.5 $m^3/s/m$ (156 $ft^3/s/ft$), 2.4 times the 6 $m^3/s/m$ (65 $ft^3/s/ft$) unit discharge for the Monksville spillway, and 6.2 times the 2.32 $m^3/s/m$ (25 $ft^3/s/ft$) unit discharge for the Upper Stillwater spillway. The high unit discharge for the Salado spillway is sufficient reason for investigating its performance.

EXPERIMENTAL DESIGN

A two-dimensional 1:20-scale sectional model representing a 15.24 m (50 ft) width of spillway was used: (1) To evaluate

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Note. Discussion open until November 1, 1996. To extend the closing date one month, a written request must be filed with the ASCE Manager of Journals. The manuscript for this paper was submitted for review and possible publication on June 13, 1994. This paper is part of the *Journal of Hydraulic Engineering*, Vol. 122, No. 6, June, 1996. ©ASCE, ISSN 0733-9429/96/0006-0292–0297/$4.00 + $.50 per page. Paper No. 8643.

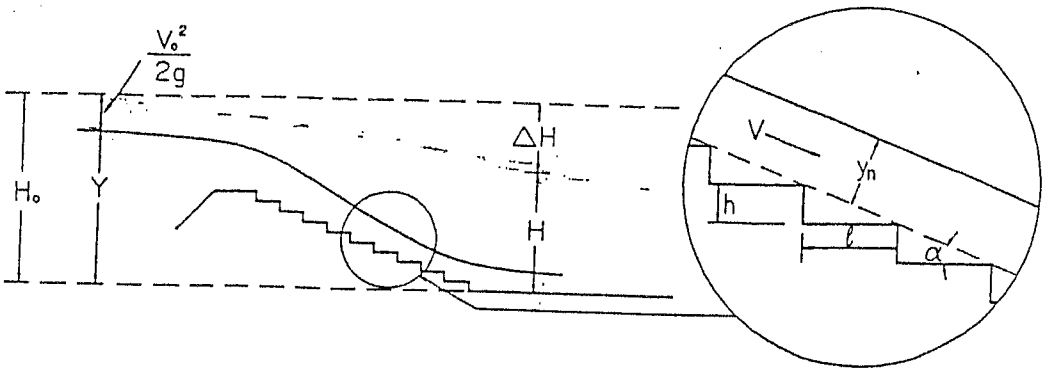


FIG. 6. Energy Notation

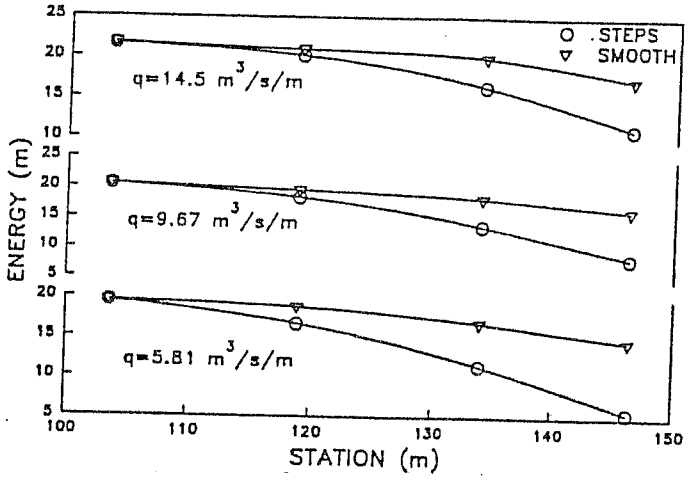


FIG. 7. Total Head Loss Profiles

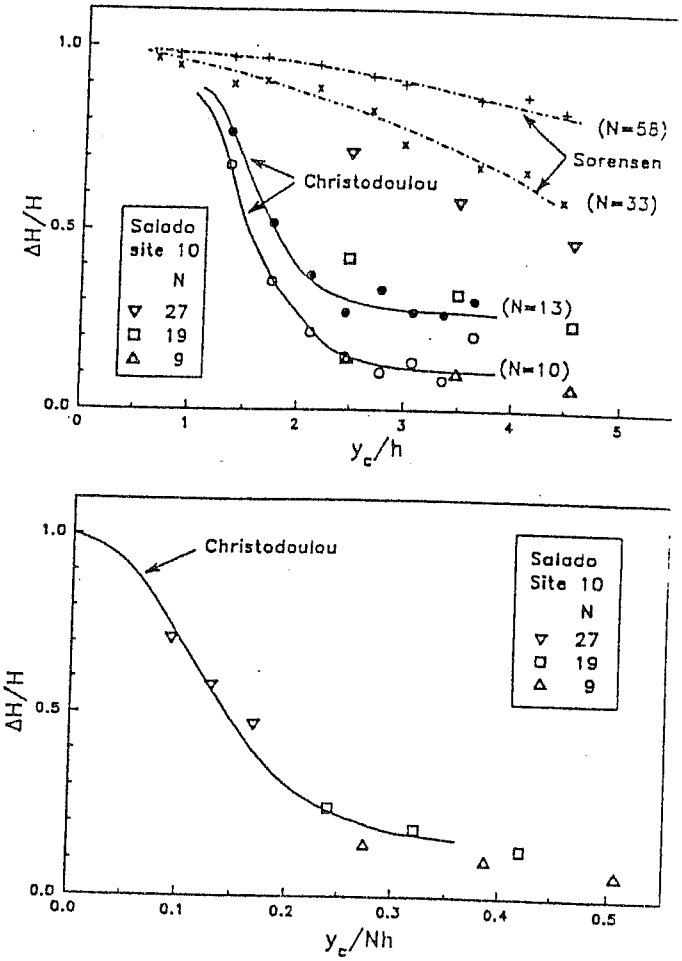


FIG. 8. Comparison of Current Results with Christodoulou's (1993): (a) $\Delta H/H_o$ versus y_c/h, (Fig. 3); (b) $\Delta H/H_o$ versus y_c/Nh (Fig. 4)

energy dissipation caused by the steps will permit a stilling basin approximately 70% as long as the stilling basin required with a conventional chute spillway.

Comparison with Christodoulou's (1993) Results

Figs. 8(a) and 8(b), respectively, present data from Fig. 3 ($\Delta H/H_o$ versus y_c/h) and Fig. 4 (ΔH_o versus y_c/Nh) presented by Christodoulou (1993) for l/h values close to 0.7 and y_c/h in the 1–4 range. The Salado spillway results, for $l/h = 2.5$ and y_c/h in the range of 1–4.5, have been added to the figures. The Salado spillway results follow the general trend of the results presented by Christodoulou (1993). This was not expected by the writers because of the difference in the spillway slopes. The writers expected a family of curves represented by different slopes and less relative energy loss due to the flatter slope. However, the Christodoulou (1993) curves shown in Fig. 8, expressing the relative energy loss, represent the Salado spillway results very well.

The energy loss for a stepped spillway is strongly dependent on the slope length. For a given spillway height, step height, and discharge, a steep spillway slope will have a larger friction coefficient and thus a larger energy loss per unit of slope length compared with a flatter spillway slope. However, the flatter slope will have a longer slope length so the total energy loss for the flatter slope may approximate the energy loss for the steeper slope. This would explain why the curve presented by Christodoulou (1993), Fig. 8b, represents the current results very well even though the slope for the Christodoulou spillway is 3.6 times as great as the slope for the Salado spillway.

The slope range of 0.4–1.43, $y_c/h \leq 4.5$, and $y_c/Nh \leq 0.5$ in Fig. 8 will generally be in the range of values used for most stepped spillways. Thus, it would appear the relative energy loss represented by the Christodoulou (1993) curve in Fig. 8(b) may be adequate to predict the energy loss for most stepped spillways. However, this should be verified with additional experimental data.

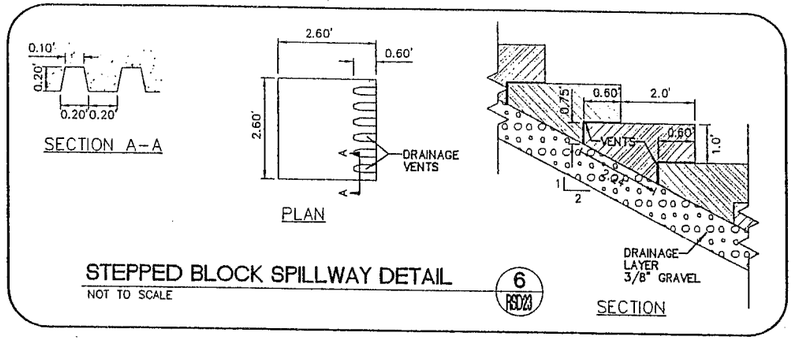
SUMMARY AND CONCLUSIONS

Physical model studies were conducted on a roller compacted concrete stepped spillway to evaluate the proposed design and hydraulic performance of the spillway and stilling basin. A two-dimensional 1:20 scale sectional model was used to evaluate the flow transition from the level spillway crest to the sloping steps, the energy dissipation of the steps, and performance of the proposed stilling basin. The two-dimensional model was also tested with a smooth chute surface to provide data to compare energy dissipation with the step surface.

The hydraulic performance of the spillway was very good for all discharges tested. The flow transition from the level crest to the sloping blocks was very good without use of a

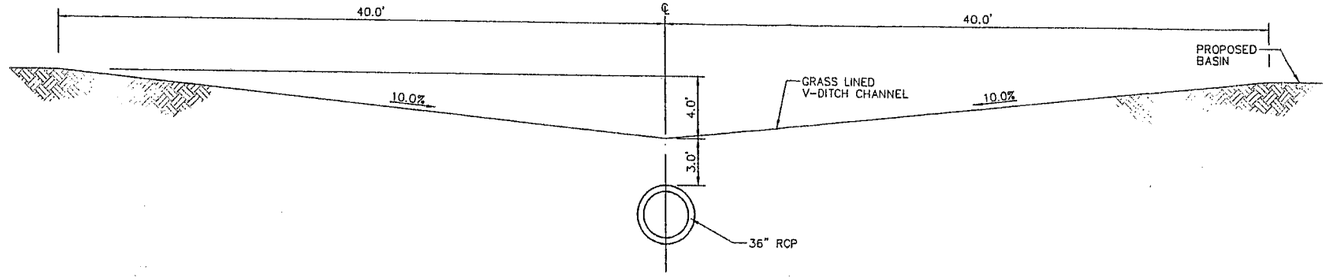
APPENDIX F

Plan and Profile Sheets



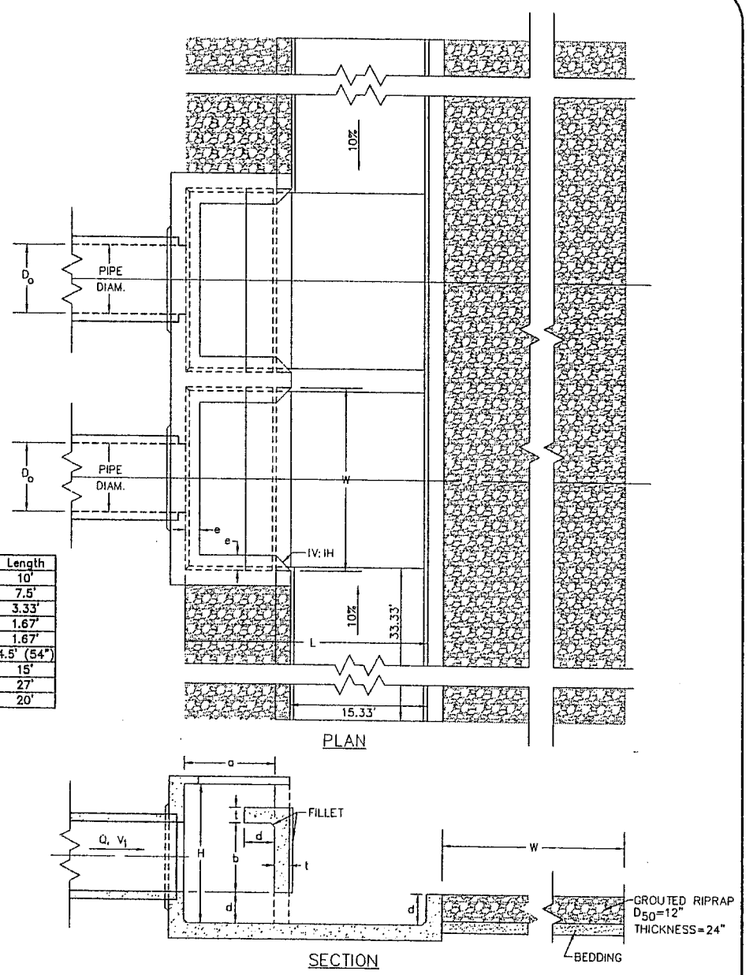
STEPPED BLOCK SPILLWAY DETAIL (6 RSD23)

NOT TO SCALE



GRASS LINED V-DITCH CHANNEL SECTION (2 RSD23)

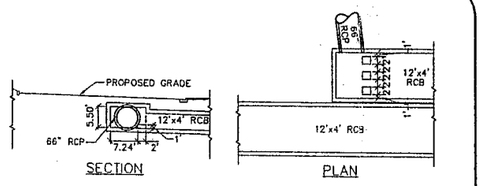
NOT TO SCALE



Desc	Length
a	10'
b	7.5'
d	3.33'
e	1.67'
t	1.67'
D_o	4.5' (54")
H	15'
L	27'
W	20'

IMPACT TYPE STILLING BASIN (5 RSD23)

NOT TO SCALE



12'x4' RCB BAFFLE BLOCKS (4 RSD23)

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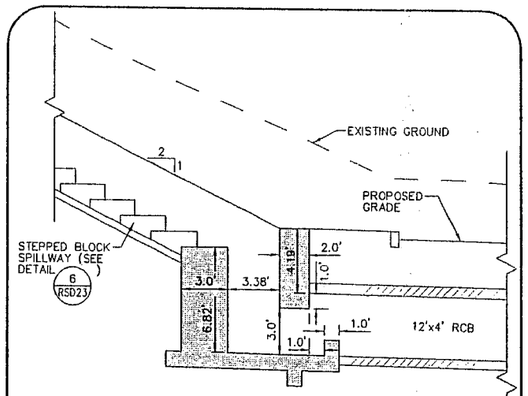

IMPACT/DROP STRUCTURE (3 RSD23)

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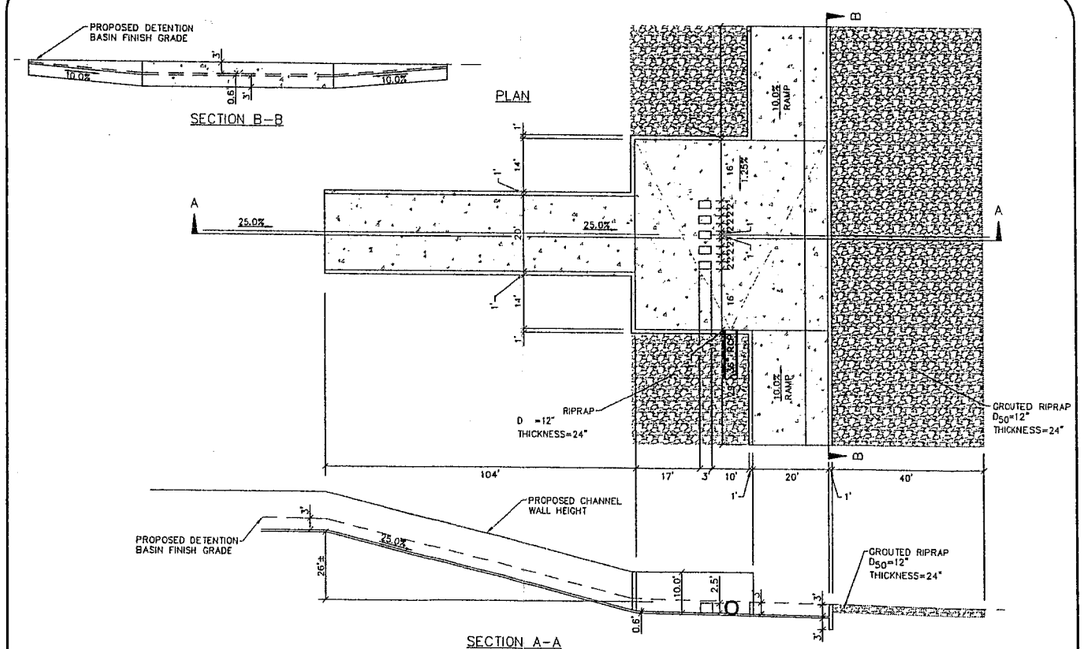

(NORTH BASIN 2) MODIFIED USBR TYPE III ENERGY DISSIPATOR (1 RSD23)

NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	APPROVED

WESTERN SEGMENT OF THE LAS VEGAS BELTWAY - CRAIG ROAD TO HUALAPAI WAY

DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

PROJECT No: 451.002 DRAWN BY:
DESIGNED BY: CHECKED BY:
APPROVED BY

G.C. WALLACE, INC.
Engineers/Planners/Surveyors
1555 SOUTH RAINBOW BLVD./LAS VEGAS, NEVADA 89146
TELEPHONE: (702) 804-2000 • FAX: (702) 804-2299

SCALE
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VERT: AS SHOWN
FIELD BOOK

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