STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

TECHNICAL REPORT COVERSHEET

650-050-38
ENVIRONMENTAL
MANAGEMENT
08/22

BRIDGE HYDRAULICS MEMORANDUM FOR BURNT STORE ROAD SOUTH BOUND BRIDGE OVER GATOR SLOUGH

Florida Department of Transportation

District One

Burnt Store Road PD&E Study

Limits of Project: From Van Buren Parkway to Charlotte County Line

Lee County, Florida

Financial Management Number: 436928-1-22-01

ETDM Number: 14380

Date: FEBRUARY 2023

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. § 327 and a Memorandum of Understanding dated May 26, 2022 and executed by the Federal Highway Administration and FDOT.

Digitally signed by Miao Tian
Date: 2023.03.06 12:56:40
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Authorized Signature

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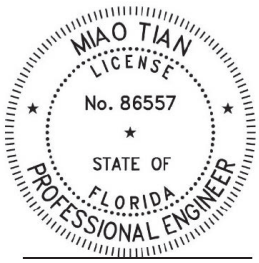

BRIDGE HYDRAULICS MEMORANDUM
FOR BURNT STORE RD SOUTH BOUND BRIDGE OVER GATOR SLOUGH
IN LEE COUNTY

FOR
FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 1
FINANCIAL PROJECT ID: 436928-1-22-01

PREPARED FOR:
SCALAR CONSULTING GROUP, INC.
13337 NORTH 56TH STEET,
TAMPA, FL, 33617

PREPARED BY:
INTERA INCORPORATED
CERTIFICATE OF AUTHORIZATION NUMBER 00009062
2114 NW 40TH TERRACE, SUITE A1
GAINESVILLE, FL 32605

February 28, 2023

Project Index and Engineer's Certification

I. Project Information

Burnt Store Rd South Bound Bridge Over Gator Slough, Lee County, FL

II. Governing Standards and Specifications

a) FDOT Drainage Design Guide (2022)
b) FDOT Drainage Manual (January 2022)
c) FDOT Plans Preparation Manual (January 2018)

III. Computer Programs used for Calculations and Analysis

a) HEC-RAS 6.2
b) Microsoft Office Excel 2016

The official record of this report is the electronic file digitally signed and sealed under 61G15-23.004, F.A.C.

I, Miao Tian, P.E., hereby state that this report, as listed in the following Table of Contents, is, to the best of my knowledge and belief, true and correct and represents the described work in accordance with current established engineering practices. I hereby certify that I am a Licensed Professional Engineer in the State of Florida practicing with INTERA Incorporated, and that I have supervised the preparation of and approve the evaluations, findings, opinions, and conclusions hereby reported.

This document has been digitally signed and sealed by Miao Tian, Ph.D., P.E. on 2/28/2023 using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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1 Introduction

Florida Department of Transportation (FDOT) District 1 requires a Project Development and Environment (PD&E) Studies for Burnt Store Road (CR-765) from Van Buren Parkway to Charlotte County Line. As part of this project, Scalar Consulting Group Inc. (Scalar) has contracted INTERA Incorporated (INTERA) to perform a bridge hydraulic analysis for the south bound (SB) Burnt Store Road Bridge over Gator Sough (Bridge number 120025). Specifically, this project entails widening the bridge from 2 to 4 lanes and analysis of bridge replacement options. Chapter 2 of this report documents data collection, synthesis, and development of hydrology. Chapter 3 describes hydraulic modeling efforts, including model construction and model simulation results.

1.1 Gator Slough

The Gator Slough canal system watershed is located in the northwest area of Lee County and covers an area of approximately fifty-eight square miles in the counties of Lee and Charlotte (Southern DataStream, Inc. and Boyle Engineering Corporation, 2001). It starts at the west side of US 41 and eventually flows into the City of Cape Coral's canal system. The Burnt Store Road Bridge is located within FEMA AE zone with an elevation of +7 to +8 ft-NAVD88 (Figure 1-1); it is not a FEMA regulated floodway. The design high water corresponds to 50-year storm event.

Figure 1-1 FEMA Floodmap 12071C0233G

2 Data Collection and Synthesis

Construction of a hydraulic model representative of actual conditions requires detailed knowledge of the contributing drainage basin and watershed, bathymetry and topography near the project location, vegetation as well as the location of any structures upstream and downstream of the project, and the bridge geometry as well as the alignment and profile of its approaches.

2.1 Location Map

The proposed project will evaluate widening the SB Burnt Store Road Bridge from 2 to 4 lanes and analysis of bridge replacement options. The existing bridge was constructed in 1972 and consists of six spans for a total length of 156 ft (Southern DataStream, Inc. and Boyle Engineering Corporation, 2001). Upstream of the SB bridge lies the north bound (NB) Burnt Store Road Bridge. Additionally, there is a weir immediately upstream of the NB bridge. Figure 2-1 displays the project location. Gator Slough is a canal system within Lee County. At the bridge location, Gator Slough is designated as a FEMA AE flood zone with a 100-year base flood elevation of +7 to +8 ft-NAVD88. Gator Slough starts approximately 7.5 rivermiles (rmis) upstream of the project location and ultimately discharges into the City of Cape Coral's canal system. The water levels downstream of the bridge are controlled by Matlacha Pass, Florida.

Figure 2-1 Project Location Map

2.2 Tidal Benchmarks

Figure 2-2 shows the location of the closest NOAA tidal benchmark: 8725506, Matlacha Pass, FL. Table 2.1 presents tidal datums at this station from the 1960 – 1978 tidal epoch. The original datums were in NGVD29, which was converted to NAVD88 with a conversion factor of -1.18-ft using VDATUM (https://vdatum.noaa.gov/vdatumweb/). Mean Low Water (MLW) and Mean High Water (MHW) will be taken as -1.21 and -0.04-ft-NAVD, respectively, for this study.

Table 2.1 Tidal Benchmark Information at NOAA Tidal Station in Matlacha Pass, FL (8725506)

Tidal Datum Type	ft-MLLW	ft-NGVD29	ft-NAVD88
Mean Higher High Water	+1.82	+1.43	+0.25
Mean High Water	+1.53	+1.14	-0.04
Mean Sea Level	+0.94	+0.55	-0.63
NGVD29	+0.39	0.00	-1.18
Mean Low Water	+0.36	-0.03	-1.21
Mean Lower Low Water	0.00	-0.39	-1.57

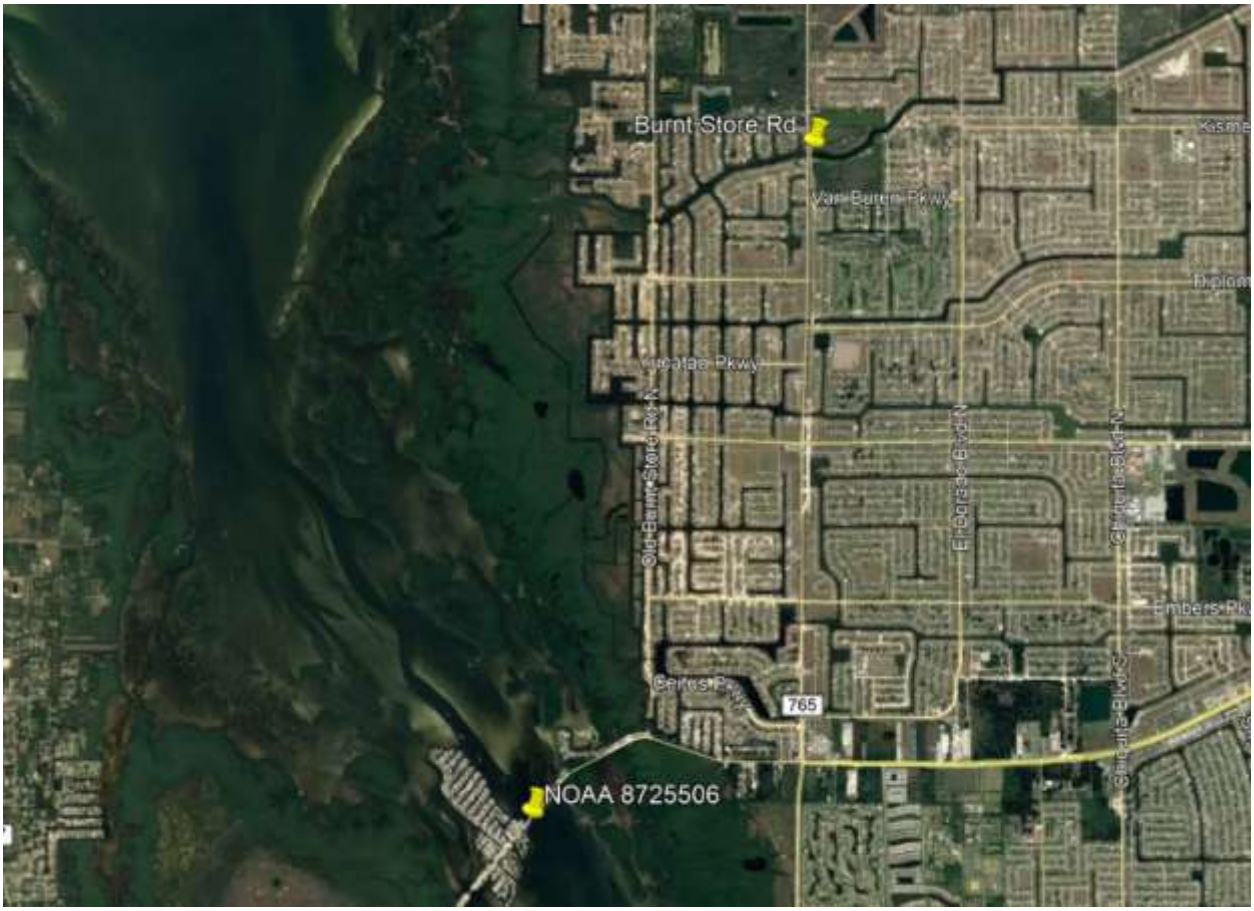


Figure 2-2 Tidal Benchmark Location at NOAA Station Matlacha Pass, FL (NOAA 8725506)

2.3 Sea Level Rise Analysis

FDOT Drainage Manual (2022) Section 3.4.1 requires sea-level rise (SLR) to be included in new designs and describes a methodology based on historical analysis of long-term NOAA tidal stations. The nearest tidal station for analyzing sea-level rise is the NOAA station at Fort Myers, Caloosahatchee River, FL (Station ID: 8725520), which presents a sea-level-rise rate of 3.37 mm/yr at this station. Mean sea level for NOAA tidal benchmarks is reported for the 1983-2001 tidal epoch. Sea-level rise was calculated from the midpoint of this period (1992) and projected to the end of service date for the new bridge (assuming 75-year design life and construction completion in 2024). This results in a sea-level rise of 1.18 ft.

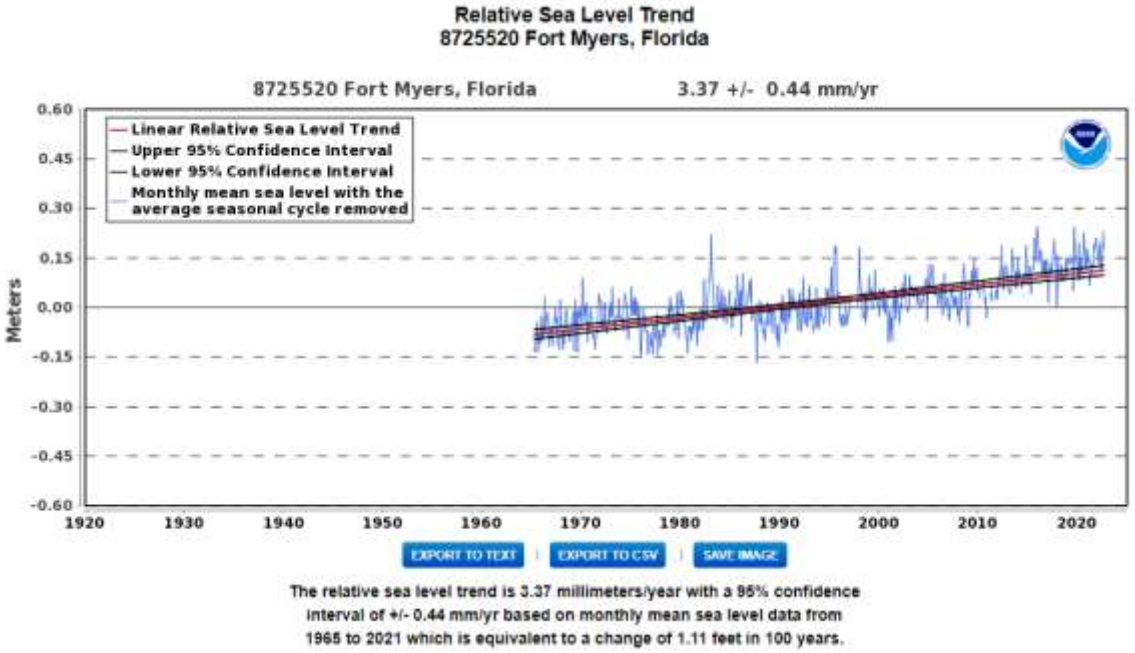


Figure 2-3 Sea Level Rise at NOAA Station Fort Myers, FL (NOAA 8725520)

2.4 Elevation Data

Construction of hydraulic model cross sections requires knowledge of bathymetry and topography near the project. As no surveyed channel data was provided, this study utilized the channel elevations documented in Southern DataStream, Inc. and Boyle Engineering Corporation (2001). Their report stated that Gator Slough has a bottom elevation of -6.5 ft-NGVD29 at its downstream origin near Old Burnt Store Rd and raises to -4.0 ft-NGVD29 at Burnt Store Road. These values were converted to NAVD88 and used for channel bottom elevation assuming a linearly sloped channel from Burnt Store Road to the Old Burnt Store Rd Bridge (Figure 2-4). The Florida Lee County LiDAR Data (LiDAR) including the project location (FL_LeeCounty_2007_000204 and FL_LeeCounty_2007_000205) provided the floodplain elevation as shown in Figure 2-4. A bank slope of 1V:2H was assumed when combing the channel and floodplain elevations. Channel elevation and LiDAR data were combined as elevation data for HEC-RAS cross-sections 1 – 6 (Figure 2-4).

Figure 2-4 LiDAR Elevation Contours and HEC-RAS Model Cross-Sections (White)

2.5 Hydrology

Southern DataStream, Inc. and Boyle Engineering Corporation (2001) performed a Gumbel statistical analysis for the outflow data collected by USGS at the weir immediately upstream of the Burnt Store Road Bridge (the Burnt Store Road Weir). Table 2.1 presents the peak discharges provided by their report. Note that although their calculation does not include the 500-year flow, it can be easily obtained using the regression formula shown in Figure 2-5. The peak discharges in Table 2.1 will be used for hydraulic modeling in Section 3.

Table 2.1 Peak Discharges for Gator Slough at Burnt Store Road Bridge

Return Period (year)	Flow (cfs)
2	523
10	1027
50	1469
100	1656
500	2137

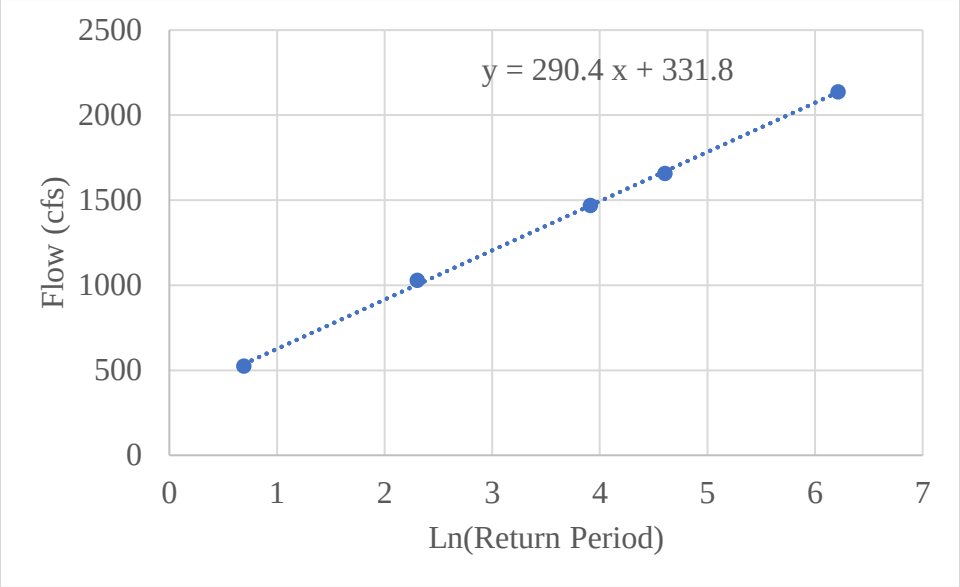


Figure 2-5 Regression Curve for the Peak Flows at Burnt Store Road Bridge

2.6 Storm Surge Hydrograph

Water surface elevation hydrographs applied at the downstream HEC-RAS model boundary can drive the storm surge simulation. Sheppard and Miller (2003) compared available offshore storm surge hydrographs from various sources and recommended 50-, 100-, and 500-year hydrographs for the Florida coastline for use by the FDOT. This study utilized the hydrographs recommended for Captiva Pass (Station 2002) as the station is the closest to the project site (Figure 2-6). As these hydrographs represent the offshore storm surge elevation while the model boundary is located near the mouth of Gator Slough, the curves have been rescaled using the coastal still water elevation at Transect 112 presented by FEMA's Flood Insurance Study (FIS) report (FIS No. 12071CV001C as shown in Figure 2-7). Note that the maximum value corresponding to each event along the transect has been conservatively adopted. Figure 2-8 shows the rescaled Sheppard and Miller's hydrographs that were specified at the downstream boundary for storm surge modeling. The SLR developed in Section 2.3 will also be added to the hydrographs to evaluate the influence of SLR on the bridge.

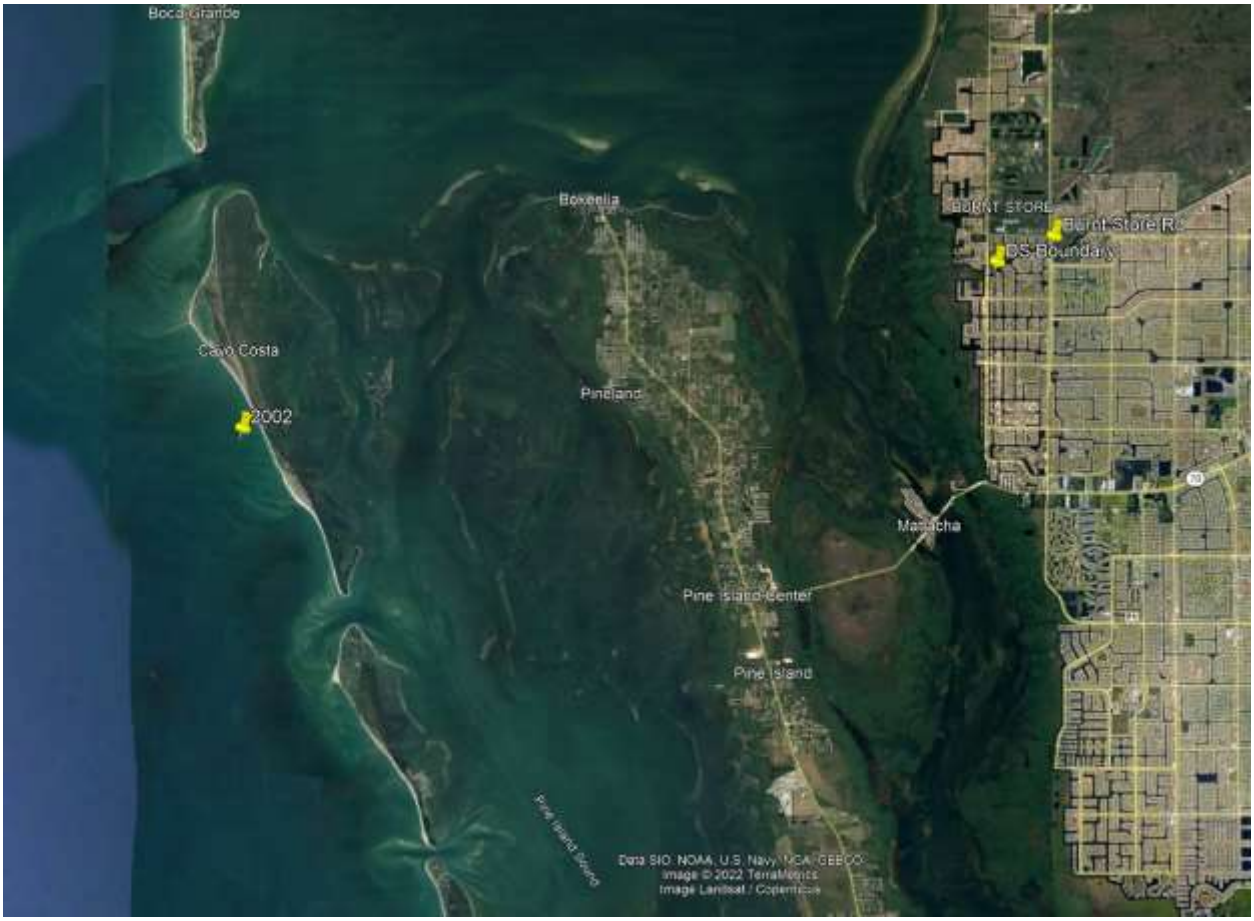
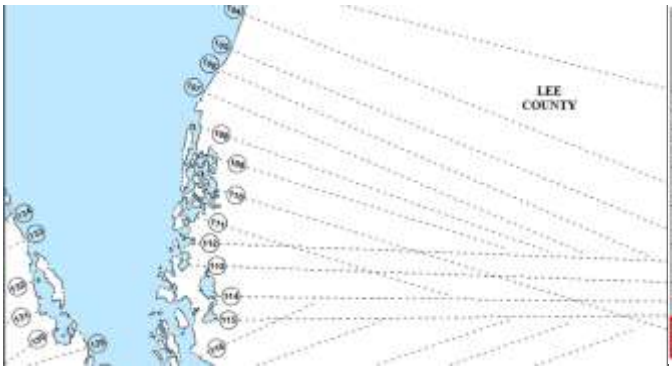


Figure 2-6 Location Map of Station 2002 in Sheppard and Miller (2003).



Flood Source	Coastal Transect	Starting Wave Conditions for the 1% Annual Chance: Significant Wave Height H_s (ft)	Starting Wave Conditions for the 1% Annual Chance: Peak Wave Period T_p (sec)	Starting Stillwater Elevations (ft NAVD88): 10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Charlotte Harbor	186	3.6	4.8	3.2 2.9-3.2	4.8 4.6-5.0	6.8 5.9-6.1	7.2 7.0-7.6	9.0 8.7-10.3
Charlotte Harbor	187	3.6	4.6	3.2 2.9-3.2	4.8 4.6-4.9	6.8 5.9-6.0	7.2 7.0-7.4	9.7 9.6-10.3
Matlacha Pass	188	3.7	4.5	3.1 2.8-3.2	4.8 4.5-4.8	6.8 5.8-6.0	7.2 7.1-7.3	9.6 9.6-10.2
Matlacha Pass	189	3.6	4.4	3.1 2.8-3.2	4.8 4.5-4.8	6.8 5.8-6.0	7.1 7.1-7.2	9.6 9.6-10.2
Matlacha Pass	110	3.6	4.3	3.1 2.8-3.1	4.8 4.5-5.4	6.8 5.8-6.1	7.1 7.0-7.3	9.6 9.6-10.2
Matlacha Pass	111	3.7	4.2	3.1 2.8-3.1	4.7 4.5-4.7	5.9 5.7-5.9	7.1 7.0-7.3	9.5 9.5-10.1
Matlacha Pass	112	3.4	3.8	3.1 2.8-3.1	4.7 4.4-5.2	5.9 5.7-6.1	7.0 6.9-7.3	9.4 9.4-10.2

Figure 2-7 Excerpts of the FIS Report No. 12071CV001C. Left: Locations of the Transects; Right: Stillwater Elevation.

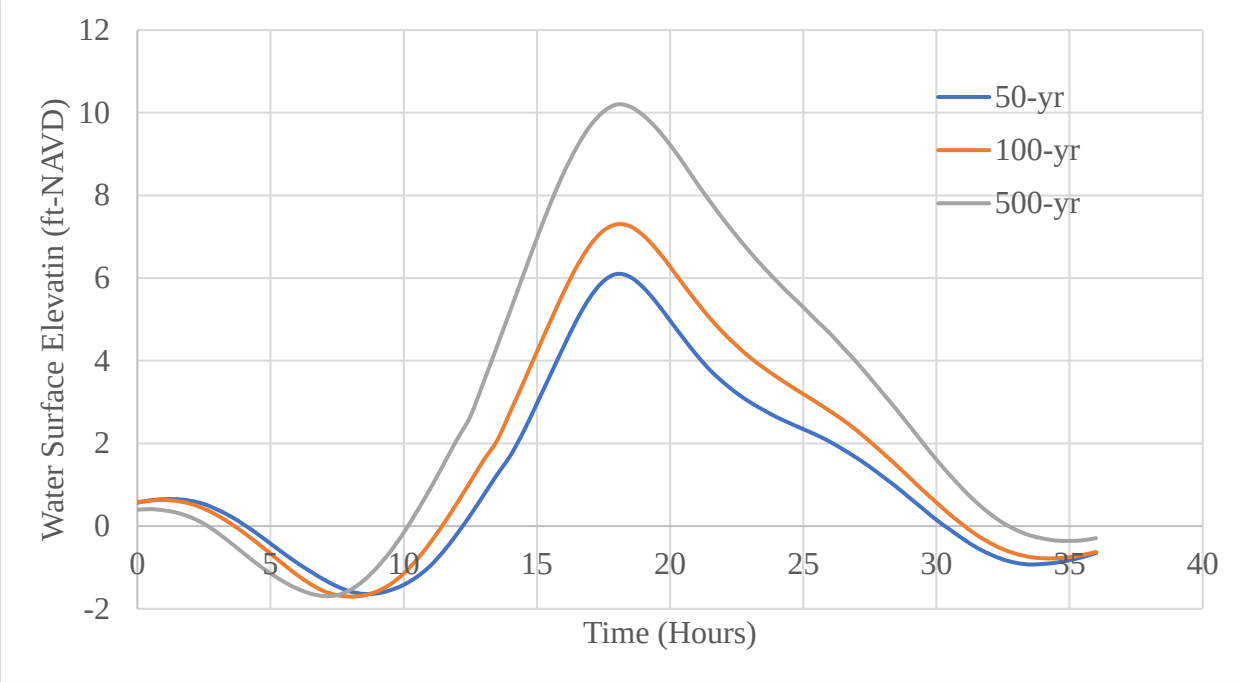


Figure 2-8 Rescaled Sheppard and Miller's Hydrographs for Storm Surge Elevation at the Downstream Boundary

2.7 Structure Geometry

The existing SB Burnt Store Road Bridge was incorporated in the HEC-RAS model. To correctly model the bridge hydraulics, two additional structures immediately upstream of the SB bridge were also included in the model. The existing SB bridge is a 156 feet long concrete bridge consisting of six spans. The out-to-out width is 40'. The bridge substructure consists of six inline bents of 18" square reinforced concrete piles.

The existing NB bridge lies upstream of the SB bridge. It is a 228'-3" long bridge consisting of three 76'-1" spans. It has an out-to-out width of 62'-6.5". The proposed bridge substructure consists of inline bents of five 24" square reinforced concrete piles spaced 11' on center. Figure 2-9 displays the plan and elevation sheet for the structure. The low member elevation is approximately +9.2 ft-NAVD88 as measured from the plan.

The Burnt Store Road Weir is located immediately upstream of the NB bridge. It is a reinforced concrete weir, which has a crest elevation of +1.22 ft-NAVD88 with a length of 175 feet. There is no notch in the crest. There is one slide gate on the south end of the weir. Figure 2-10 presents the elevation of the weir.

This project not only studied the hydraulics of the existing SB bridge but also evaluated two options involving widening or replacing the existing bridge. Details of the options were provided by email correspondence with Scalar. Option 1 includes removing the existing SB bridge and constructing a new bridge with the same configuration as the existing NB bridge. The only difference between the existing NB bridge and proposed SB bridge is that the SB replacement bridge will be 51'-5" wide, narrower than the NB bridge. Option 2 involves retaining the existing structure and adding a 16'-wide pedestrian bridge with the same substructures along the downstream side of the SB bridge. Section 3 will model the bridge hydraulics associated with the existing, Option 1, and Option 2 geometries.

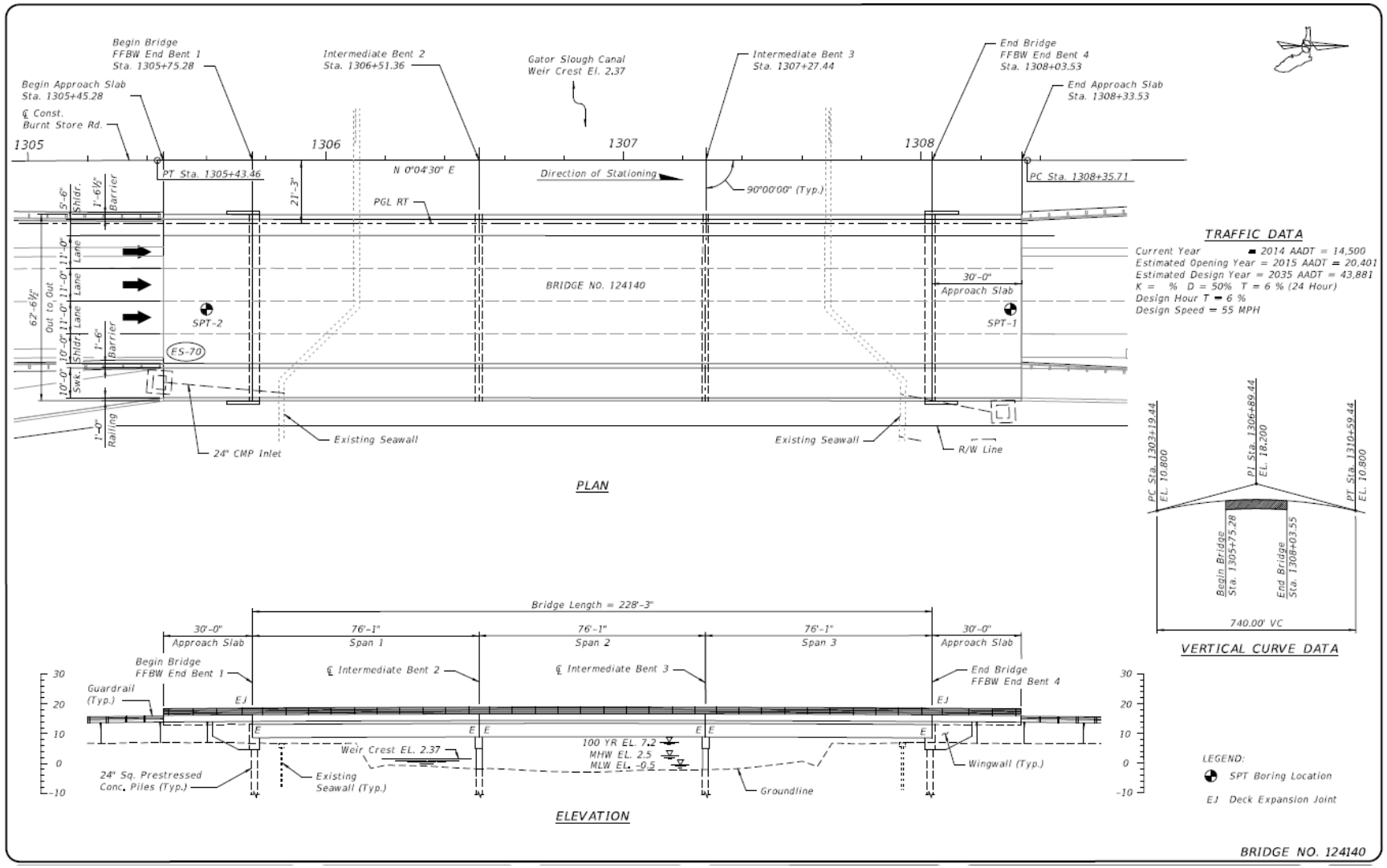


Figure 2-9 Plan and Elevation Sheet of the North Bound Bridge (Source: Scalar)

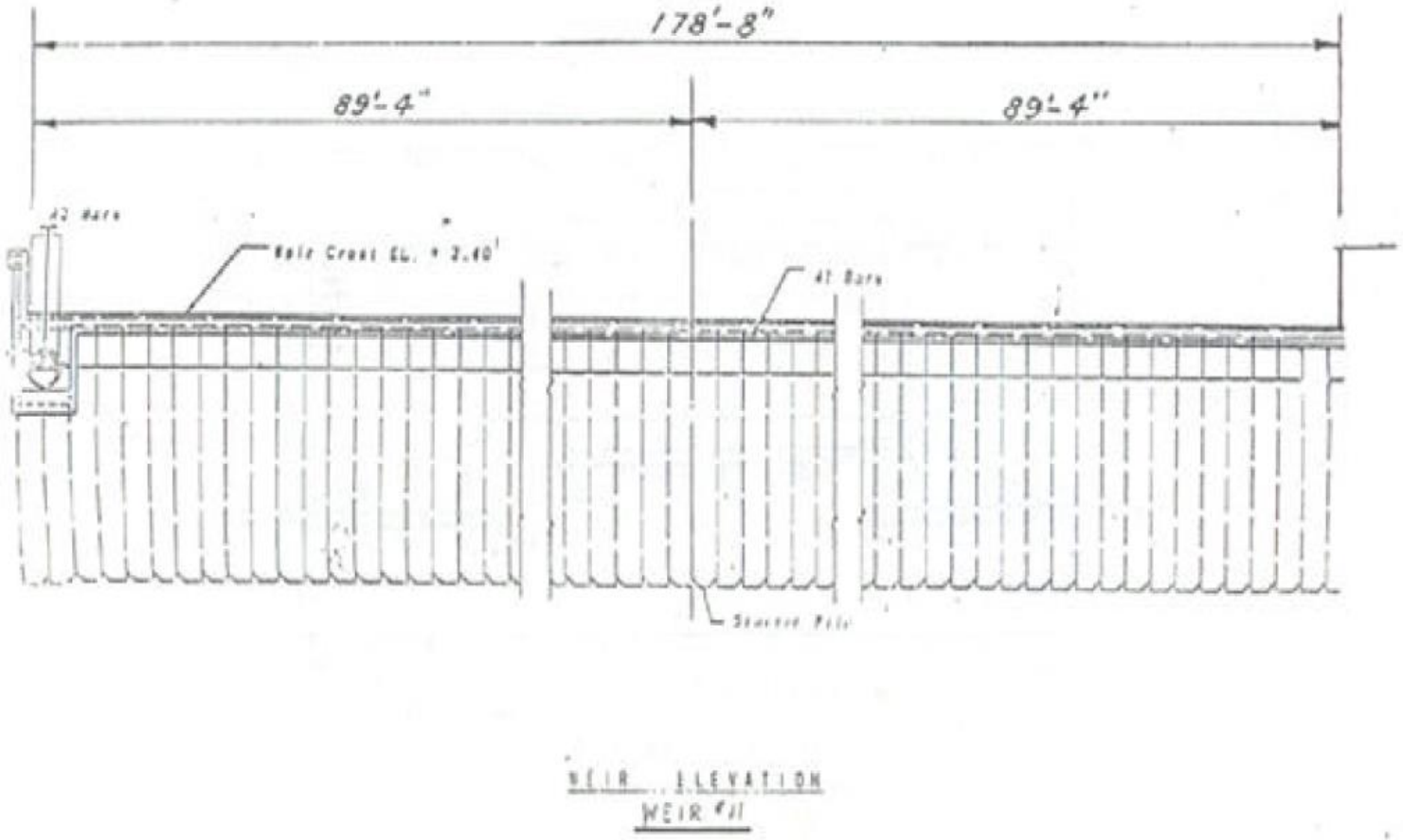


Figure 2-10 *Sketch of the Weir Elevation (Source: Southern DataStream, Inc. and Boyle Engineering Corporation, 2001)*

2.8 Field Review

In support of this study, INTERA personnel performed a field investigation of the project location on March 11, 2020. The investigation was conducted to assess the conditions of the channel and floodplain surrounding the bridge location. Photographs from the field visit are contained in Appendix A. As the photographs illustrate, both the south and north roadway approaches of the bridge are well developed. Channel banks south and north of the bridge crossing are protected with seawalls that prohibit any channel meandering. The abutment protection at the south and north abutments compromises vertical wall abutments with concrete wingwalls. Minor bank erosion can be observed at the shoreline of the northwest bank. The weir crest is approximately 3’ from top of the channel bank.

3 Hydraulic Modeling

Determining the bridge hydraulic parameters requires a detailed hydraulic analysis of the study area. The relative uniformity of the Gator Slough channel and floodplain are suitable for application of a one-dimensional (1D) hydraulic model to evaluate design conditions at the project location. For this project, the US Army Corps HEC-RAS model (version 6.2) was selected to analyze flow through the bridge. As Gator Slough starts at the west side of US-41 and eventually flows into the City of Cape Coral's canal system, the stages at the bridge are controlled by storm surge while the velocities are likely to be dominated by riverine runoffs. Both events were evaluated in the subsequent report sections.

3.1 HEC-RAS Model Development

The HEC-RAS model geometry is comprised of ten cross sections. Two bridges and one weir situated between cross sections 4 and 5. Section 2.4 described the elevation data that was applied in the generation of the model cross sections. The model cross section locations are shown in Figure 3-1. As the model requires bridge and weir to have two downstream cross sections, cross sections 4.9 and 4.89 are duplicates of cross section 5 and cross section 4.59 is a duplicate of cross section 4.6. Therefore, Figure 3-1 displays only seven cross sections. The model vertical datum is consistent with the project survey vertical datum – NAVD88. The model cross sections are presented in Appendix B.

For this project, three geometries were constructed, an existing conditions model geometry that includes the existing structure configured based on available information, and two optional geometry structures based on Section 2.7.

Peak discharges detailed in Section 2.5 provided upstream flow rate boundary conditions. The model downstream boundary was set at known elevations for riverine runoff events. For riverine runoff simulation, the steady-state mode was implemented with the flow discharges associated with different return period discharges (Section 2.5) specified at the upstream boundary (cross section 6). The Mean High Water (Section 2.2) plus Sea Level Rise (Section 2.3) and Mean Low Water (Section 2.2) were specified as the downstream boundary condition, respectively. For storm surge simulation, the unsteady mode was applied with the hydrographs developed in Section 2.6 at the downstream boundary and the 10-year flow discharge on the upstream side per FDOT Drainage Manual. The storm surge events were also simulated without an upstream runoff discharge to verify that such conditions do not result in more severe velocity conditions.

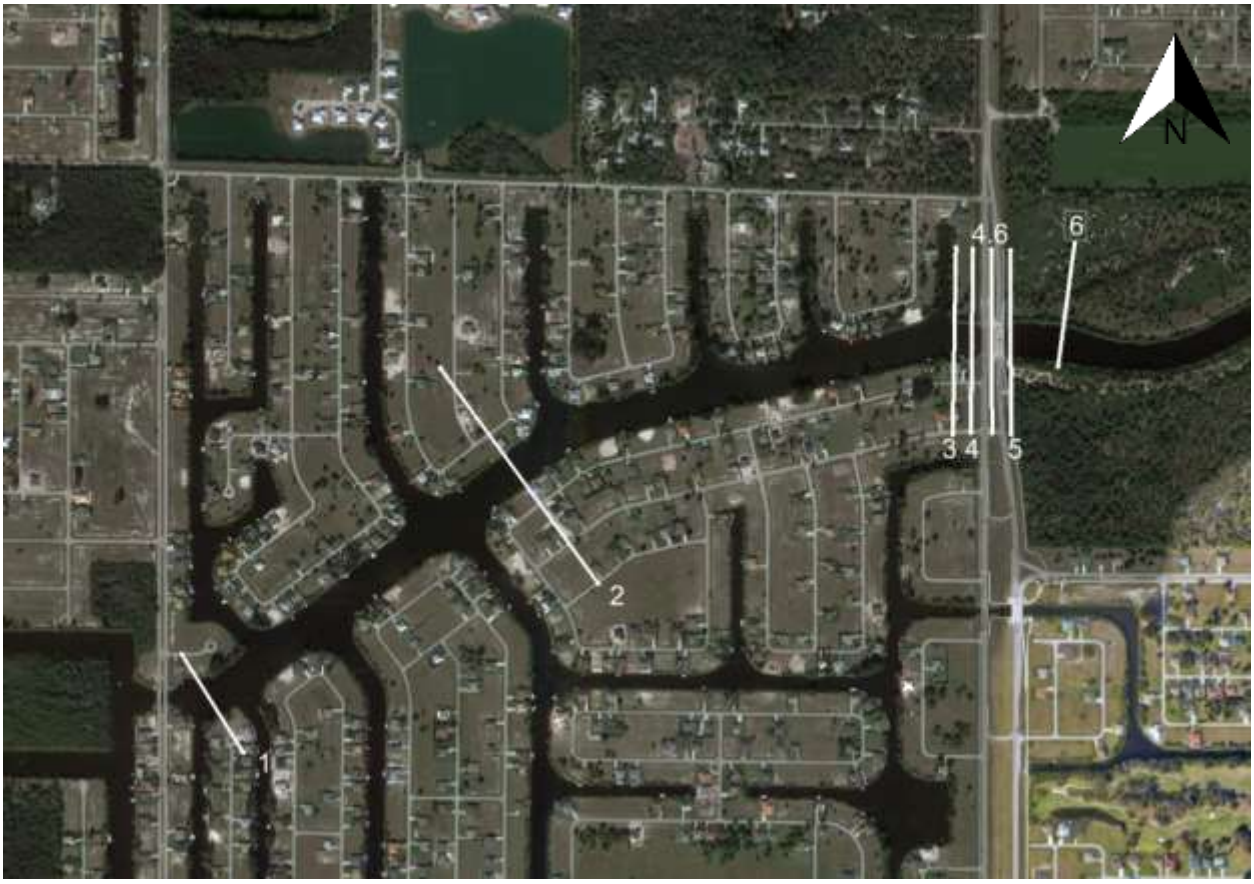


Figure 3-1 HEC-RAS Model Cross Section Locations

3.2 HEC-RAS Model Friction Selection

HEC-RAS, similar to many hydraulic models, applies bed friction to simulated flows with Manning's roughness coefficients. For this project, the same values used by Southern DataStream, Inc. and Boyle Engineering Corporation (2001) were implemented for Manning's n coefficient selection, 0.03 for the channels and 0.2 for the overland flow for cross-section 4 to 6. Additionally, the overland from cross-section 1 to 3 consists of short grass to light brush/trees. Therefore, a lower overbank Maning's n coefficient of 0.1 was adopted for cross-sections 1 to 3. Careful examination using field visit photos and Google Earth Aerials verified their selections.

3.3 HEC-RAS Model Results for the Existing Structure

Modeling efforts described in this chapter determines the design hydraulic parameters. Table 3.1 through Table 3.2 summarize results for the 50-, 100-, and 500-year riverine runoff runs at the model cross section immediately north of the bridge (RS 4.59) for MHW with SLR and MLW, respectively. Figure 3-2 through Figure 3-3 present the HEC-RAS water surface profiles along the model cross sections.

Table 3.3 and Table 3.4 summarize the results for the 50-, 100-, and 500-year storm surge runs at the model cross section immediately north of the bridge (RS 4.59) for surge only and surge with SLR. Figure 3-4 through Figure 3-9 present the time series of hydrographs, channel velocity, and flow rate at RS 4.59 for surge only and for surge with SLR. Note that the 100-year surge elevation is not only consistent with

FEMA's 100-year flood elevation but also agrees with the 100-year elevation shown in the plan for the NB bridge. Therefore, the model is considered accurate. The HEC-RAS results show that the surge with SLR simulation provides the dominant stages, while the MLW riverine runoff simulation shows the greatest channel velocities and flow rates. The 50-year stage for surge with SLR serves as the design high water (DHW); the 100- and 500-year results will be used for scour calculation per FDOT Drainage manual. The HEC-RAS model results are summarized in Table 3.5. Appendix D contains a detailed HEC-RAS output report.

Table 3.1 Summary of Model Results at HEC-RAS Cross Section Immediately North of Bridge (RS 4.59) for MHW with SLR for the Existing Structure

Event	50-year	100-year	500-year
Flow Rate (cfs)	1469	1656	2137
Stage (ft-NAVD88)	+1.24	+1.26	+1.34
Channel Velocity (ft/s)	1.47	1.65	2.10

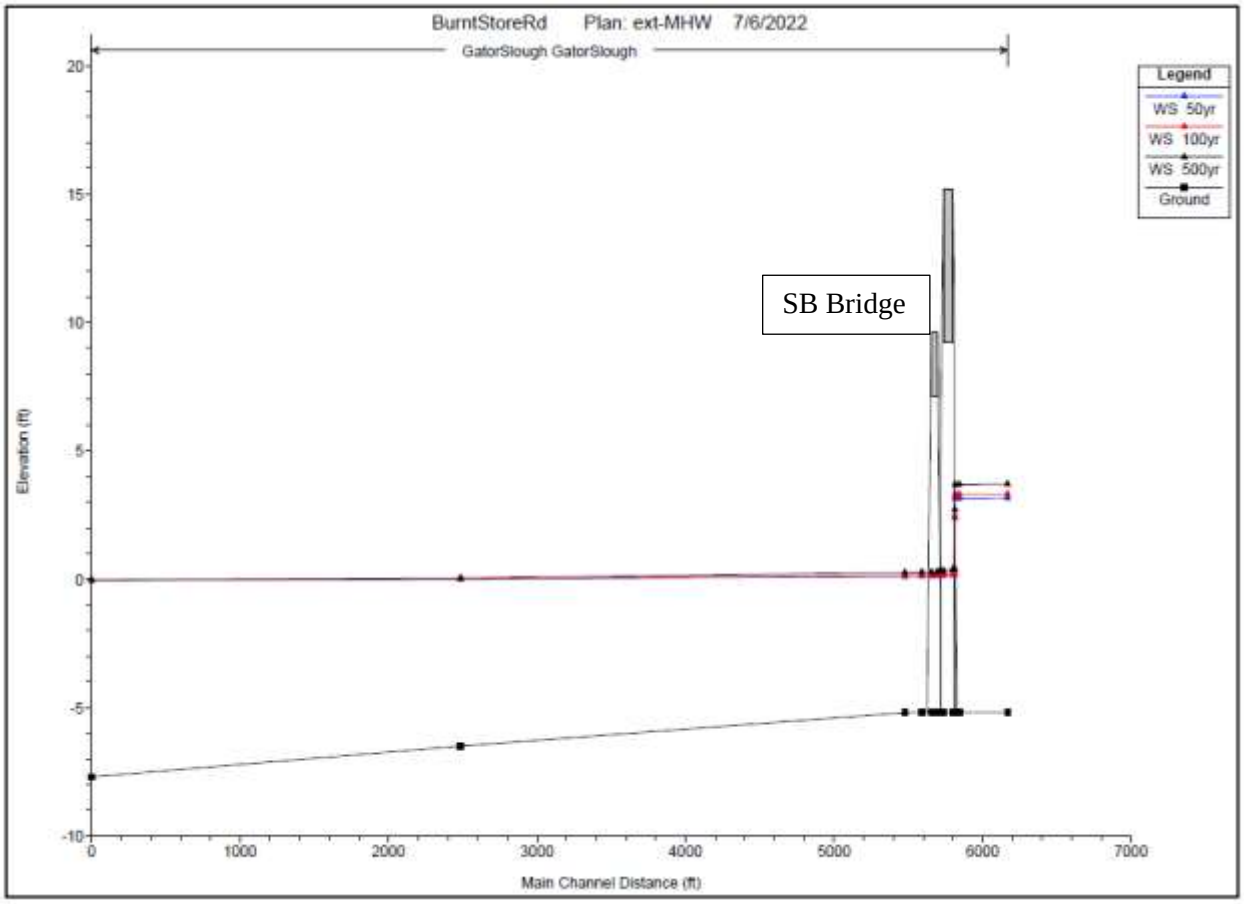


Figure 3-2 HEC-RAS Water Surface Profiles for MHW with SLR for the Existing Structure (Elevation Datum is NAVD88)

Table 3.2 Summary of Model Results at HEC-RAS Cross Section Immediately North of Bridge (RS 4.59) for MLW for the Existing Structure

Event	50-year	100-year	500-year
Flow Rate (cfs)	1469	1656	2137
Stage (ft-NAVD88)	-0.86	-0.78	-0.54
Channel Velocity (ft/s)	2.18	2.42	2.96

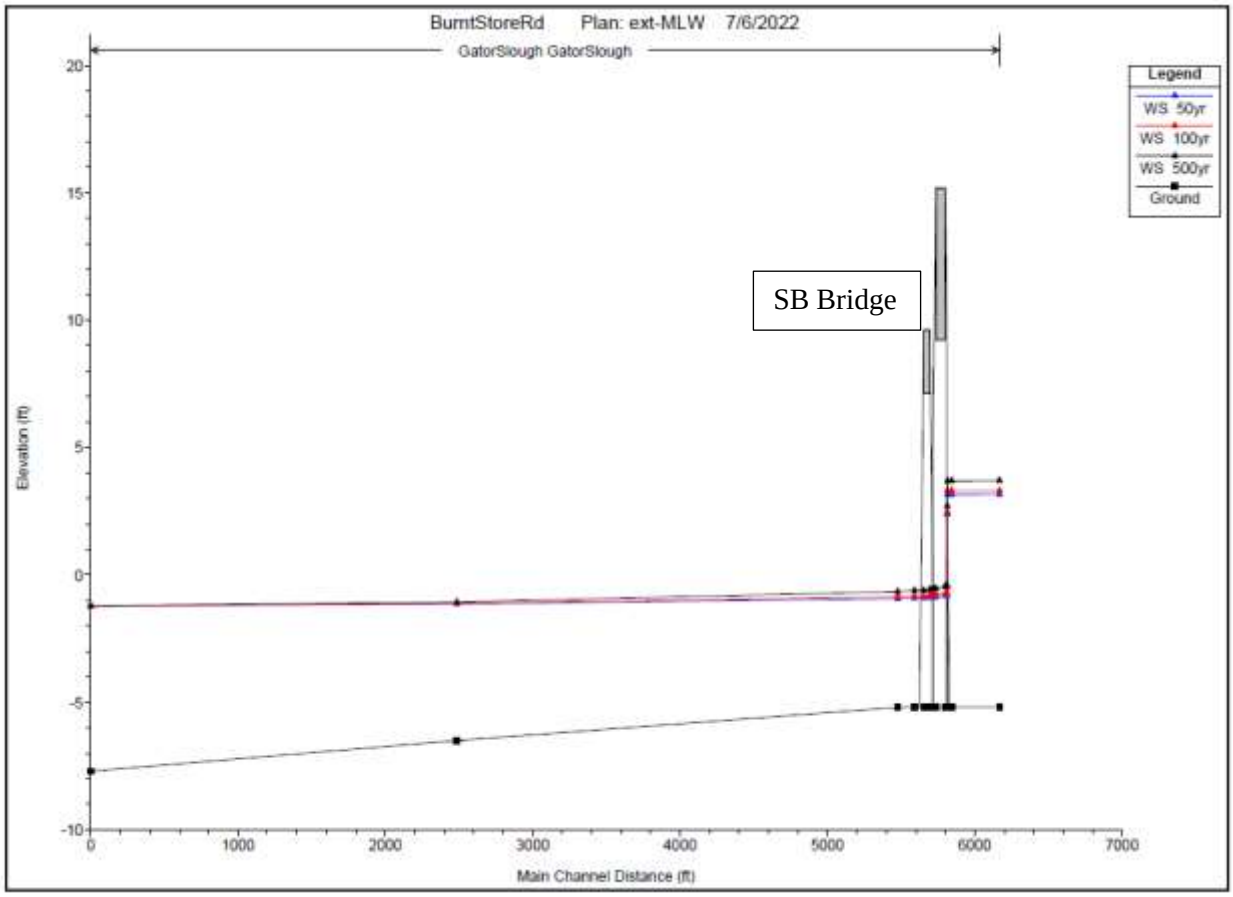


Figure 3-3 HEC-RAS Water Surface Profiles for MLW for the Existing Structure (Elevation Datum is NAVD88)

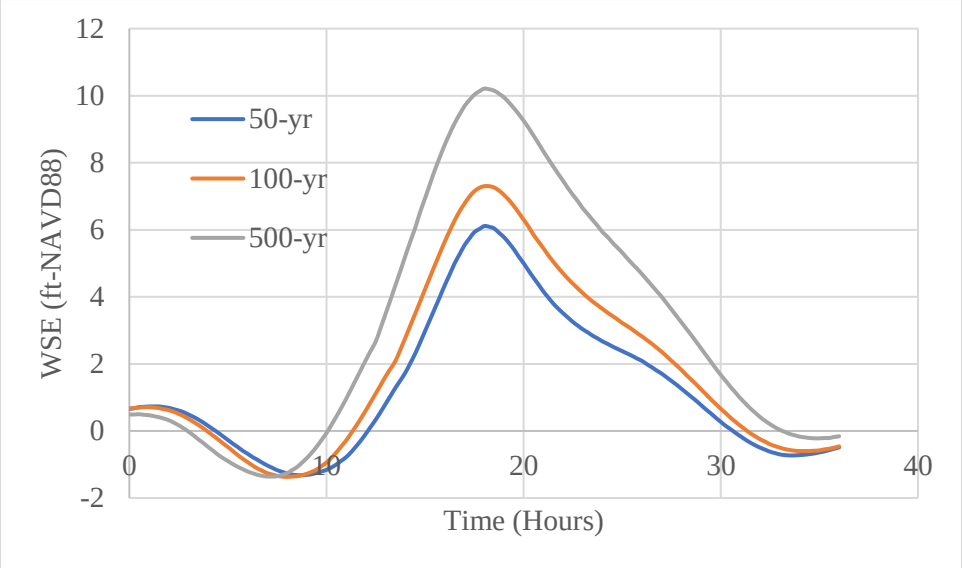


Figure 3-4 *HEC-RAS Simulated Hydrographs at Cross Section Immediately North of Bridge (RS 4.59) During Storm Surge without Sea-Level Rise for the Existing Structure*

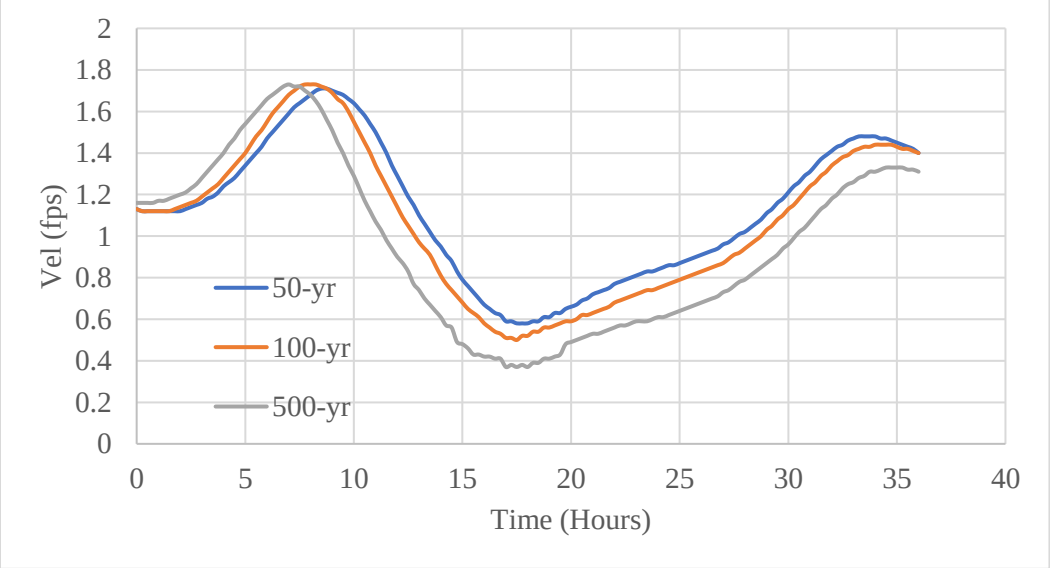


Figure 3-5 *HEC-RAS Simulated Channel Flow Velocity at Cross Section Immediately North of Bridge (RS 4.59) During Storm Surge without Sea-Level Rise for the Existing Structure*

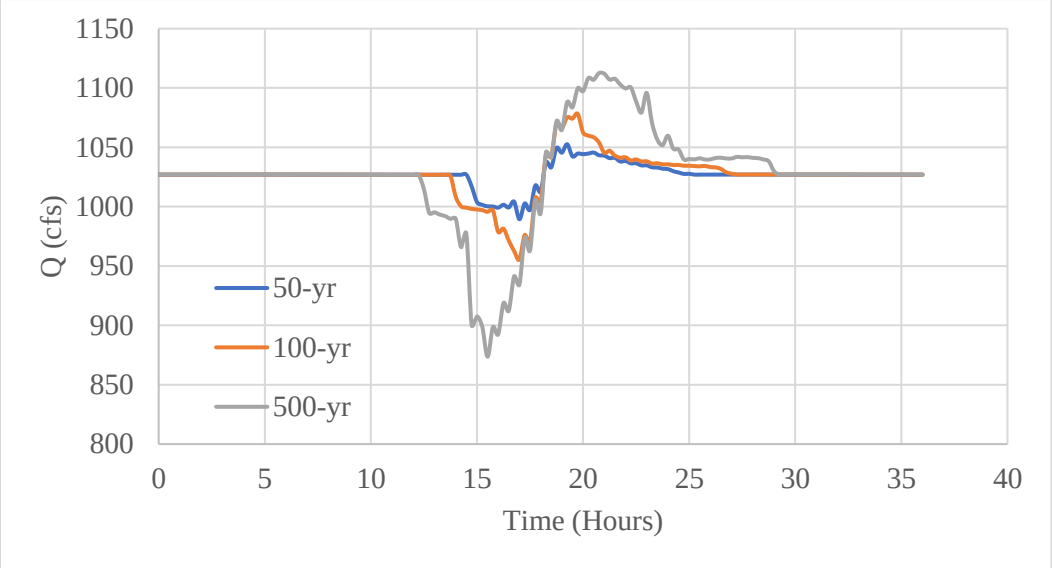


Figure 3-6 *HEC-RAS Simulated Flow Rate at Cross Section Immediately North of Bridge (RS 4.59) During Surge without Sea-Level Rise for the Existing Structure*

Table 3.3 *Summary of Model Results at HEC-RAS Cross Section Immediately South of Bridge (RS 4.6) During Surge without Sea-Level Rise for the Existing Structure*

Event	50-year	100-year	500-year
Flow Rate (cfs)	1053	1078	1113
Stage (ft-NAVD88)	+6.11	+7.30	+10.21
Channel Velocity (ft/s)	1.71	1.73	1.73

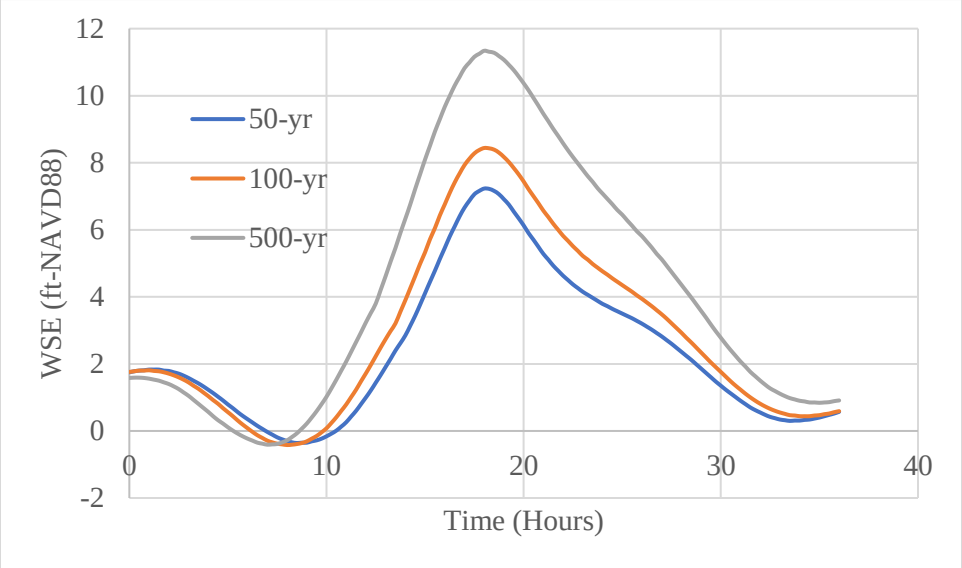


Figure 3-7 *HEC-RAS Simulated Hydrographs at Cross Section Immediately North of Bridge (RS 4.59) During Surge with Sea-Level Rise for the Existing Structure*

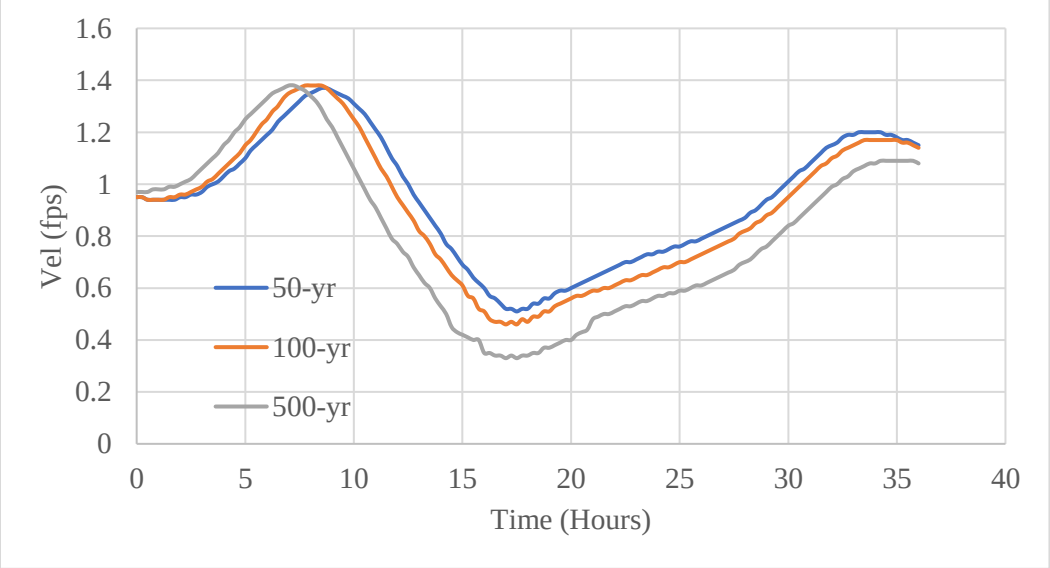


Figure 3-8 *HEC-RAS Simulated Channel Flow Velocity at Cross Section Immediately North of Bridge (RS 4.59) During Surge with Sea-Level Rise for the Existing Structure*

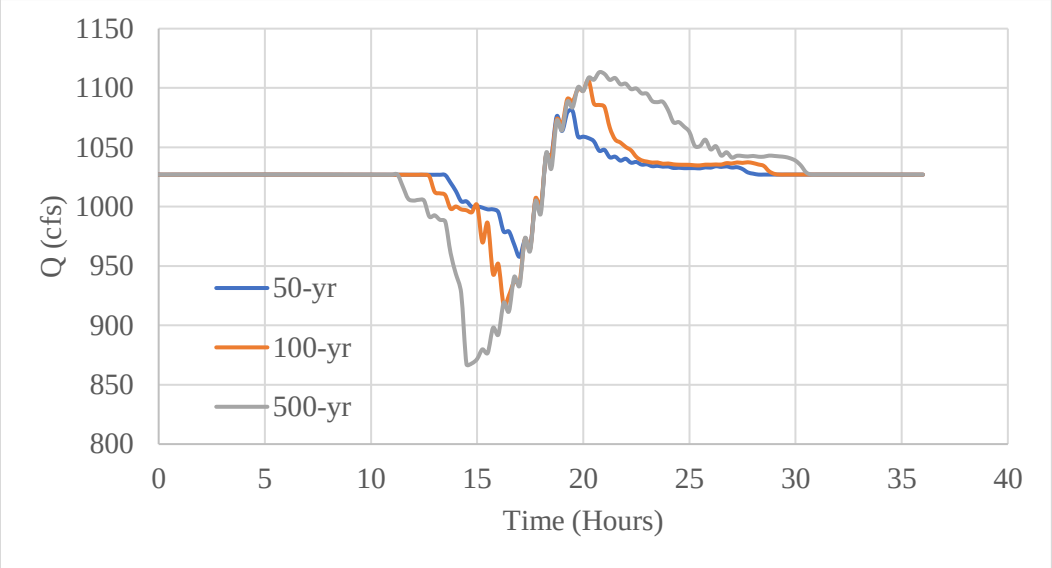


Figure 3-9 *HEC-RAS Simulated Flow Rate at Cross Section Immediately North of Bridge (RS 4.59) During Surge with Sea-Level Rise for the Existing Structure*

Table 3.4 *Summary of Model Results at HEC-RAS Cross Section Immediately North of Bridge (RS 4.59) During Surge with Sea-Level Rise for the Existing Structure*

Event	50-year	100-year	500-year
Flow Rate (cfs)	1081	1106	1113
Stage (ft-NAVD88)	+7.28	+8.49	+11.39
Channel Velocity (ft/s)	1.35	1.37	1.37

Table 3.5 *Summary of HEC-RAS Model Results at Cross Section Immediately North of Bridge (RS 4.59) for the Existing Structure*

Event	Flow Rate (cfs)	Stage (ft, NAVD)	Channel Velocity (ft/s)
50-year (DHW)	1469	+7.28	2.18
100-year	1656	+8.49	2.42
500-year	2137	+11.39	2.96

3.4 Proposed Structural Geometries and Recommendations

Two optional structural geometries described in Section 2.7 were also evaluated with the same boundary conditions mentioned in Section 3.3. Same as the existing condition, the HEC-RAS results show that surge with SLR controls the stage, while the MLW riverine runoff dominates the channel velocities and flow rates. The controlling flow rates are the same for all three geometries, while tiny differences exist among the stages and velocities. The comparisons of the dominating stage and velocity are summarized in Table 3.6 and Table 3.7.

For Option 1, the proposed low member elevation is +9.20 ft-NAVD88, similar to the existing NB bridge. The proposed SB bridge lies a 228'-3" long bridge consisting of three 76'-1" spans. It has an out-to-out width of 62'-5.5". The proposed bridge substructure consists of in-line bents of five 24" square reinforced concrete piles spaced 9.25' on center. It provides 1.92 ft of drift clearance above the design high water (+7.28 ft-NAVD88), just a little under FDOT's 2-ft drift clearance requirement (+9.28 ft-NAVD88). A slight increase of the proposed low member elevation (0.08 ft) will ensure the satisfaction of FDOT's drift clearance criteria. Additionally, Option 1 has a lower debris potential because its substructures are in line with the existing NB bridge.

For Option 2, the proposed low member elevation is +7.12 ft-NAVD88, the same as the existing SB bridge. The proposed bridge substructure consists of in-line bents of six 18" square reinforced concrete piles spaced 7.75' on center. It is lower than the design high water, an elevation of +7.28 ft-NAVD88, therefore does not satisfy FDOT's 2-ft drift clearance requirement for vertical clearance (+9.28 ft-NAVD88). The construction of Option 2 will require a design variation from FDOT. Based on the HEC-RAS results, Option 1 will be recommended. Table 3.8 through Table 3.9 summarized the hydraulic design parameters for Option 1 and 2, respectively.

Table 3.6 *Comparison of the HEC-RAS Modeled Stages at Cross Section Immediately North of Bridge (RS 4.59) for Three Geometries*

Stage (ft-NAVD88)	Existing	Option 1	Option 2
50-year	+7.28	+7.28	+7.28
100-year	+8.49	+8.48	+8.49
500-year	+11.39	+11.39	+11.39

Table 3.7 *Comparison of the HEC-RAS Modeled Velocities at Cross Section Immediately North of Bridge (RS 4.59) for Three Geometries*

Velocity (fps)	Existing	Option 1	Option 2
50-year	2.18	2.19	2.18
100-year	2.42	2.43	2.41
500-year	2.96	2.97	2.95

Table 3.8 Summary of HEC-RAS Model Results at Cross Section Immediately North of Bridge (RS 4.59) for Option 1

Event	Flow Rate (cfs)	Stage (ft, NAVD)	Channel Velocity (ft/s)
50-year (DHW)	1469	+7.28	2.19
100-year	1656	+8.48	2.43
500-year	2137	+11.39	2.97

Table 3.9 Summary of HEC-RAS Model Results at Cross Section Immediately North of Bridge (RS 4.59) for Option 2

Event	Flow Rate (cfs)	Stage (ft, NAVD)	Channel Velocity (ft/s)
50-year (DHW)	1469	+7.28	2.18
100-year	1656	+8.49	2.41
500-year	2137	+11.39	2.95

4 Scour Calculation and Countermeasures

Total scour consists of three components: (1) general scour, (2) contraction scour, and (3) local scour. Unlike general scour, the contributions of contraction and local scour are derived from the results of the hydraulic analysis. The riverine runoffs simulation with Mean Low Water as the downstream boundary condition provides the values for these parameters as its flow discharge and velocity are greater than the values resulting from storm surge. This section presents discussions of the scour components and the results of these scour calculations for the proposed bridge.

Scour depth computations require values for the depth-averaged critical velocity of the waterway necessary to begin sediment motion on the bed. Calculating these values requires a representative median sediment size (assuming D_{50} = 0.2 mm). This study contains scour calculations for the 100-year design event and the 500-year check event for the two proposed structural options. The next three sections will cover general scour, contraction scour, and local scour.

4.1 General Scour

Most of the bridges in the National Bridge Inventory (NBI) that cross alluvial streams continually adjust their beds and banks (Lagasse, Schall, Johnson, Richardson, Richardson, & Chang, 1991). Channel stability at the bridge crossing depends on the stream system. Changes upstream and downstream affect stability at the bridge crossing. Natural and man-made disturbances may result in changes in sediment load and flow dynamics resulting in adverse changes in the stream channel at the bridge crossing. These changes may include channel bank migration, aggradation, or degradation of the channel bed. During channel migration, one bank tends to erode laterally while the opposite bank tends to accrete. During aggradation or degradation of a channel, the channel bed and thalweg tend to accrete or erode.

Channel stability, as characterized by channel migration and aggradation/degradation of the channel bed, is an important consideration in evaluating the potential scour at a bridge for two reasons. First, because aggradation and degradation influence the channel's hydraulic properties, any hydraulic modeling must consider their effects when determining design scour conditions. Second, bank migration, thalweg shifting, and degradation may cause foundation undermining regardless of whether the bridge experiences the design storm event. This section presents an analysis of channel migration and aggradation/degradation of the channel bed at the bridge opening. This analysis forecasts channel stability based on historic observations near the bridge. The analysis incorporates a review of available historic aerials in the vicinity of the bridge. These help to evaluate channel migration and thalweg position within the channel banks and aggradation or degradation of the bed.

4.1.1 Aggradation/Degradation

Aggradation and degradation refer to the long-term raising or lowering of the stream bed. Aggradation and degradation are the result of excess or insufficient sediment transport in a stream to maintain its bed elevation. Aggradation and degradation are typically long-term processes, but significant changes in an upstream drainage basin, such as the installation of a dam or the construction of a large development resulting in a drastic change in land-use, may result in accelerations in aggradation or degradation. The most reliable method for assessing aggradation and degradation is through comparison of historic bed profiles at the bridge crossing. FDOT

provided the 2021 Bridge Inspection Report for the Burnt Store Road South Bound Bridge over Gator Slough (120025) that contains bed measurements from 1997 to 2021.

The surrounding area of the Gator Slough Canal banks includes established residential area. Changes in land-use are not anticipated. Given the anticipated stability of the surrounding watershed, only minor fluctuations in bed elevation are expected. Bed aggradation/degradation of Gator Slough Canal in the vicinity of the bridge crossing was evaluated through the investigation of historical cross sections. Figure 4-1 shows the historical cross sections obtained from the 2021 Bridge Inspection Report. During the period from 1997 to 2021, the bed remained relatively stable with minor variation in elevation both upstream and downstream. Based upon the twenty-four-year record, there is not a noticeable trend of bed degradation at this bridge. The degradation is conservatively taken as 1 ft to account for the minor variability observed in the measurements.

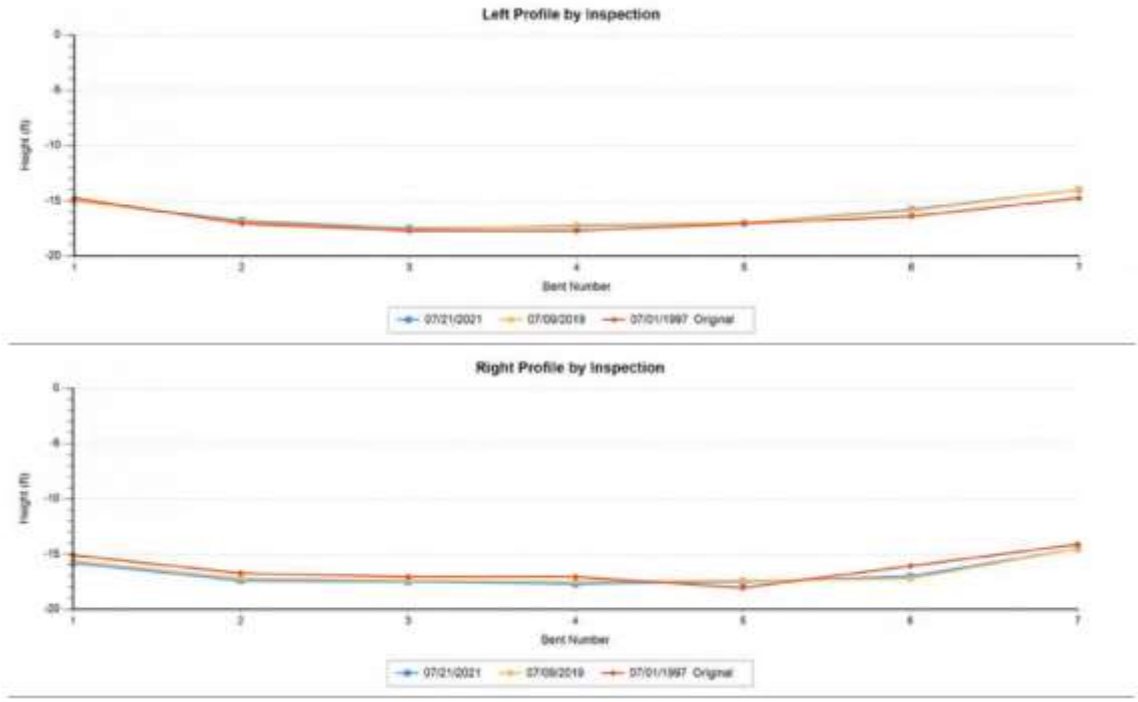


Figure 4-1 Burnt Store Rd South Bound Bridge Historic Channel Profiles (Excerpt of FDOT Bridge Inspection Report for Bridge No. 120025 Dated 07/21/2021)

4.1.2 Channel Migration

Lateral channel migration is an important factor to consider when deciding on a bridge's location. Rivers and streams are dynamic entities that can continually shift banklines and move both laterally and downstream. Bridges, on the other hand, are static entities that fix the river/stream at a specific location. This juxtaposition of a bridge's immobility and a river's instability can lead to erosion of the approach embankment, changes in the contraction or local scour due to changes in flow direction or increases in abutment scour. Factors affecting lateral channel migration include stream geomorphology, bridge crossing location, flood characteristics, characteristics of the bed and bank material, and wash load (Richardson & Davis, 2001).

Channel migration (the lateral movement of the channel banks with respect to time) was evaluated via the investigation of historical aerial imagery. Aerial photographs were downloaded from the FDOT Aerial Photograph Lookup System and Google Earth for the years 1975, 1986, 1996, 2004, 2010, and 2022 (Figure 4-2 through Figure 4-7). Based upon the aerial imagery and the presence of seawalls stabilizing the banks, channel migration is not expected to occur.

Figure 4-2 Historic Aerial of the Project Site (FDOT 1975)

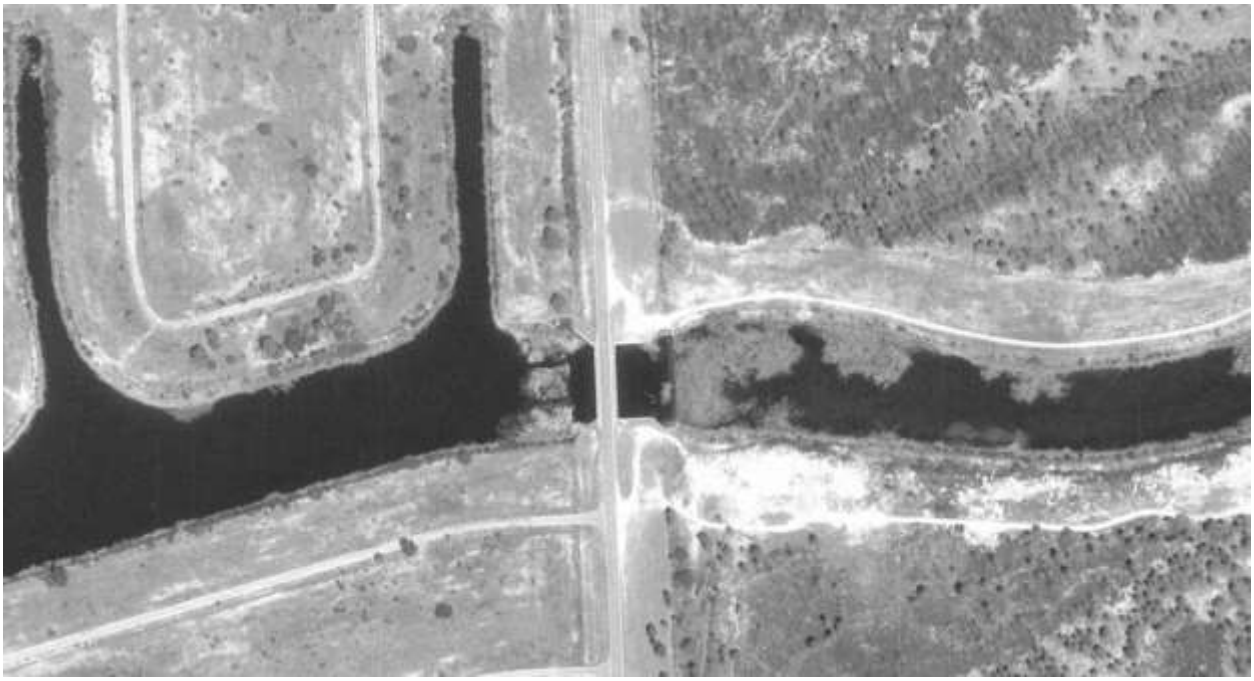


Figure 4-3 Historic Aerial of the Project Site (FDOT 1986)

Figure 4-4 Historic Aerial of the Project Site (FDOT 1996)

Figure 4-5 Historic Aerial of the Project Site (Google Earth 2004)

Figure 4-6 Historic Aerial of the Project Site (Google Earth 2010)

Figure 4-7 Historic Aerial of the Project Site (Google Earth 2022)

4.2 Contraction Scour

An abrupt decrease in cross-sectional area at a bridge crossing increases flow velocity resulting in contraction scour (a lowering of the channel bottom over the entire width of the channel cross section). Changes in cross-sectional area can result from either natural channel constriction or encroachment of a bridge structure by both the abutments and the piles. HEC-18 presents several equations for contraction scour given various encroachment conditions (cases). The Case 1b (see Figure 4-8) description in HEC-18 (the abutments are at edge of channel) describes the conditions applicable to the bridge. In this case, contraction scour results from the reduction of the flow cross sectional area by the approach embankments, abutments, and piers as the flood event flows through the bridge crossing.

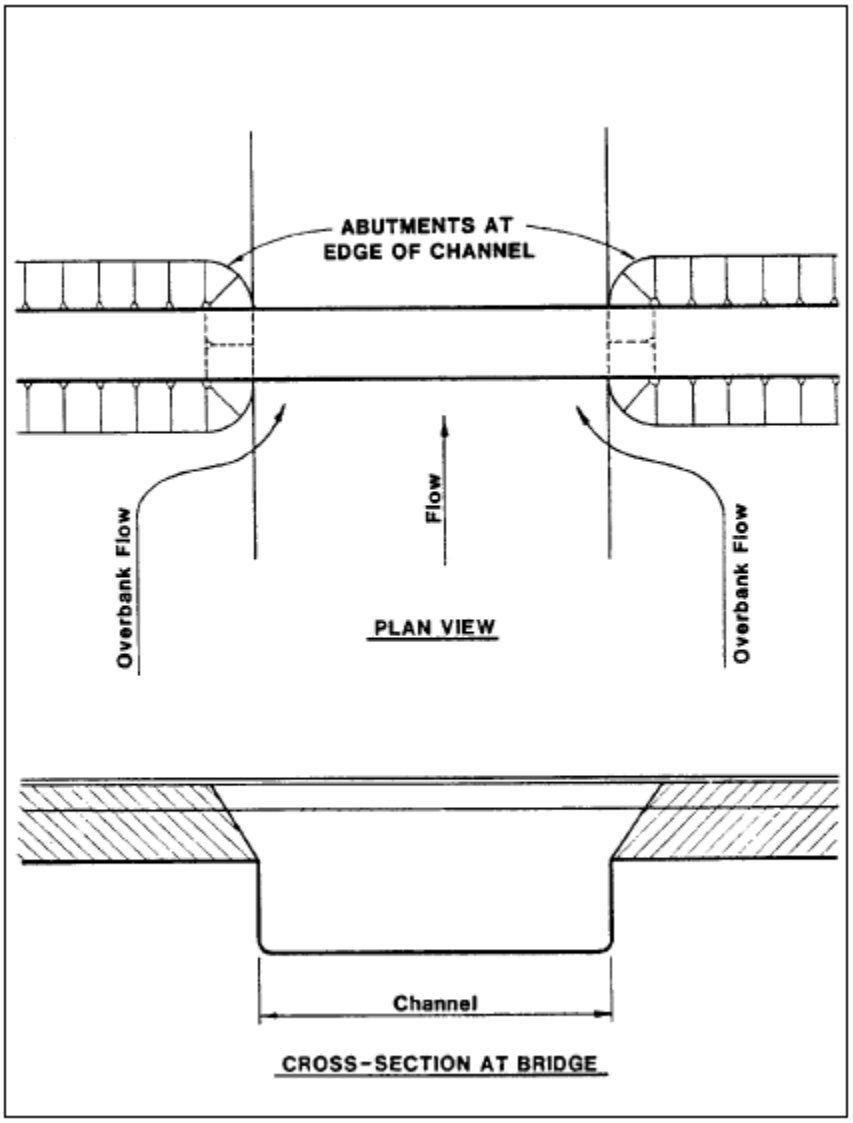


Figure 6.2. Case 1b: Abutments at edge of channel.

Figure 4-8 Case 1b: Abutments at Edge of Channel (Source: HEC-18)

Computing contraction scour for the bridge requires determining whether the scour is live-bed or clear water. Since the upstream velocity does not exceed the critical velocity for the sediment and the presence of the weir which would prevent sediment influx to the bridge, the contraction scour is considered clear water. Thus, contraction scour computation for the overbank flow follows the Modified Laursen Clear Water Contraction Scour Equation located in HEC-18 (Section 5.3):

$$y_2 = \left[\frac{K_u Q^2}{D_m^{2/3} W^2} \right]^{3/7}$$

where y_2 is the average depth of the contracted section, Q is the flow rate through the cross section, and W is the bottom width of the cross section. D_m is the diameter of the smallest non-transportable particle in the bed material in the contracted section.

The pre-scour average profile depths (y_0) are compared to the post-scour average depths (y_2) to arrive at the contraction scour depths (y_s):

$$y_s = y_2 - y_0.$$

The hydraulic parameters for both Option 1 and 2 have been used for contraction scour calculation. Both the storm surge and riverine runoff conditions have been evaluated. The riverine runoff case with MLW for Option 2 produced slightly greater contraction scour compared to Option 1, 3.4 ft and 5.1 ft for the 100- and 500-year events, respectively. This is because Option 2 involves more piles in the channel, constricting the cross-section. The contraction scours for Option 2 were conservatively used in this analysis. Input and output are shown in Table 4.1.

Table 4.1 HEC-18 Contraction Scour Inputs and Outputs

Parameter Name	Symbol	Channel	Channel
		100-year	500-year
		Design Event	Check Event
Input		Clearwater	Clearwater
Upstream Velocity	V1 (fps)	0.91	1.11
Critical Velocity	Vc (fps)	1.37	1.38
Live bed coefficient	K_1	0.69	0.69
Depth in upstream section	y_1 (ft)	7.94	8.3
Flow rate at upstream section	Q_1 (cfs)	1,656	2,137
Flow rate at contracted section	Q_2 (cfs)	1,656	2,137
Median grain diameter	D_{50} (mm)	0.2	0.2
Upstream section width	W_1 (ft)	230	230
Contracted section width	W_2 (ft)	141	141
Depth at bridge before scour	y_0 (ft)	4.4	4.6
Output			
Equilibrium depth in contracted section	y_2 (ft)	7.8	9.7
Scour depth	y_s (ft)	3.4	5.1

4.3 Local Scour

Local scour refers to bed erosion around obstacles in the path of flow such as bridge piers and abutments. Local scour results from increased shear and normal stresses applied to the bed near the structure due to the presence of the structure. Local pier scour depends on structure geometry, current velocity, angle of attack

(the angle between the flow direction and the major axis of the pier/pile group), flow depth, and soil characteristics. Local scour may occur at bridge piers and abutments, but this report only addresses local pier scour as it is assumed that the abutments will have scour protection. This section provides local scour for two hydraulic conditions — the 100-year (base event) and the 500-year (check event).

The local pier scour calculation involved application of the FDOT methodology. The FDOT guidelines for calculating local pier scour require application of the scour equations developed by the FDOT and based on the latest research from the University of Florida for the analysis of complex pier geometries, which includes the equations developed for NCHRP for scour at wide piers (Sheppard et al 2011). This methodology combines the individual scour depths produced by the column, pile cap, and pile group. The local scour is then added to the general and contraction to produce the design scour depths. The FDOT equations predict the scour hole depth based on sediment characteristics, flow parameters, and bent geometry. The flow parameters include depth, velocity, and angle of attack. The bent geometry includes the dimensions of the pier column, pile cap, and pile group.

Maximum channel velocities and initial bed elevations were applied as local scour calculation inputs. Table 4.2 presents the input for local scour calculation. A detailed local scour calculation is shown in Appendix C. Table 4.4 summarizes the total scour calculations for the bridge at each intermediate pier for the 100- and 500-year events. Option 1 results in greater scour values because it employs wider bridge piles.

Table 4.2 Input for Local Scour Calculation for Option 1

Event	Depth (ft)	Velocity (fps)	Pier Width (ft)	Column Number	Column Spacing (ft)	Angle of Attack (deg)
100	7.8	2.5	2.0	5	9.25	5
500	9.8	3.0	2.0	5	9.25	5

Table 4.3 Input for Local Scour Calculation for Option 2

Event	Depth (ft)	Velocity (fps)	Pier Width (ft)	Column Number	Column Spacing (ft)	Angle of Attack (deg)
100	7.8	2.5	1.5	6	7.75	5
500	9.8	3.0	1.5	6	7.75	5

Table 4.4 Summary of Scour Calculation for Option 1

Event	Bents	Initial Bed Elevation (ft, NAVD)	Degradation (ft)	Contraction Scour (ft)	Local Scour (ft)	Total Scour (ft)	Recommended Total Scour (ft)	Final Bed Elevation (ft, NAVD)
100	2-3	-5.2	1.0	3.4	5.3	9.7	10.0	-15.2
500	2-3	-5.2	1.0	5.1	5.6	11.7	12.0	-17.2

Table 4.5 Summary of Scour Calculation for Option 2

Event	Bents	Initial Bed Elevation (ft, NAVD)	Degradation (ft)	Contraction Scour (ft)	Local Scour (ft)	Total Scour (ft)	Recommended Total Scour (ft)	Final Bed Elevation (ft, NAVD)
100	2-6	-5.2	1.0	3.4	4.5	8.9	9.0	-14.2
500	2-6	-5.2	1.0	5.1	4.8	10.9	11.0	-16.2

4.4 Countermeasures

Per FDOT Drainage Design Guideline, proper abutment protection should be installed to resist the hydrodynamic forces experienced during design events. Additionally, proper countermeasures should also be installed at the existing seawall as it would be overtopped during design events. The size and material of the countermeasures should satisfy the FDOT requirement.

5 Summary

Florida Department of Transportation (FDOT) District 1 has required a PD&E study for Burnt Store Road (CR-765) from Van Buren Parkway to Charlotte County Line. Specifically, this project entails widening the bridge from 2 to 4 lanes and analysis of bridge replacement options. INTERA simulated the 50-, 100-, and 500-year storm surge and riverine runoff events at the bridge site using a one-dimensional HEC-RAS model. The existing condition and two optional proposed structures (Option 1 and 2) were evaluated. Option 1 includes removing the existing SB bridge and constructing a new bridge with the same configuration as the existing NB bridge. Option 2 involves retaining the existing structure and adding a 16'-wide pedestrian bridge with the same substructures along the downstream side of the SB bridge. A scour analysis was also performed using the hydraulic parameters from the modeling. Option 1 results in greater scour values because it uses wider bridge piles. Based on the model results, Option 1 was recommended because a slight adjustment of the proposed low member elevation will provide the required drift clearance below the low chord.

6 References

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Appendix A – Field Visit Photos

Bridge 120025 bridge number

South approach facing south

Southwest bank facing north

Southwest abutment and seawall

Bridge piers looking from southwest bank facing north

Northwest floodplain

Channel facing west

Northwest bank and abutment

Southwest bank and seawall

Northwest bank

Northwest floodplain

North approach looking from northwest bank

Roadway looking south

Northeast floodplain

Northeast abutment

Southeast abutment and wingwall looking from northeast bank

Bridge piers looking south

Waterbody and northbound bridge looking east

Northeast seawall and floodplain

Southeast seawall

Southeast abutment and seawall

South abutment and seawall

Northbound bridge (124140)

Bridge number of the northbound bridge

Waterbody and southbound bridge looking west

North approach from northwest side

Bridge roadway looking south from northeast side

Northwest abutment and bank

Northwest abutment

Northeast floodplain

Northeast bank and wall

Waterway facing east

Southeast bank

Southwest abutment

Southwest abutment

South approach

Southeast bank and abutment

Southeast bank and floodplain

Southeast abutment

Piers looking from southeast to the north

Southeast abutment

Abutment and piers

Weir looking southeast

Weir, northeast bank

Weir looking east

Weir looking north

Weir looking south

Weir and upstream waterbody facing northeast

Upstream channel

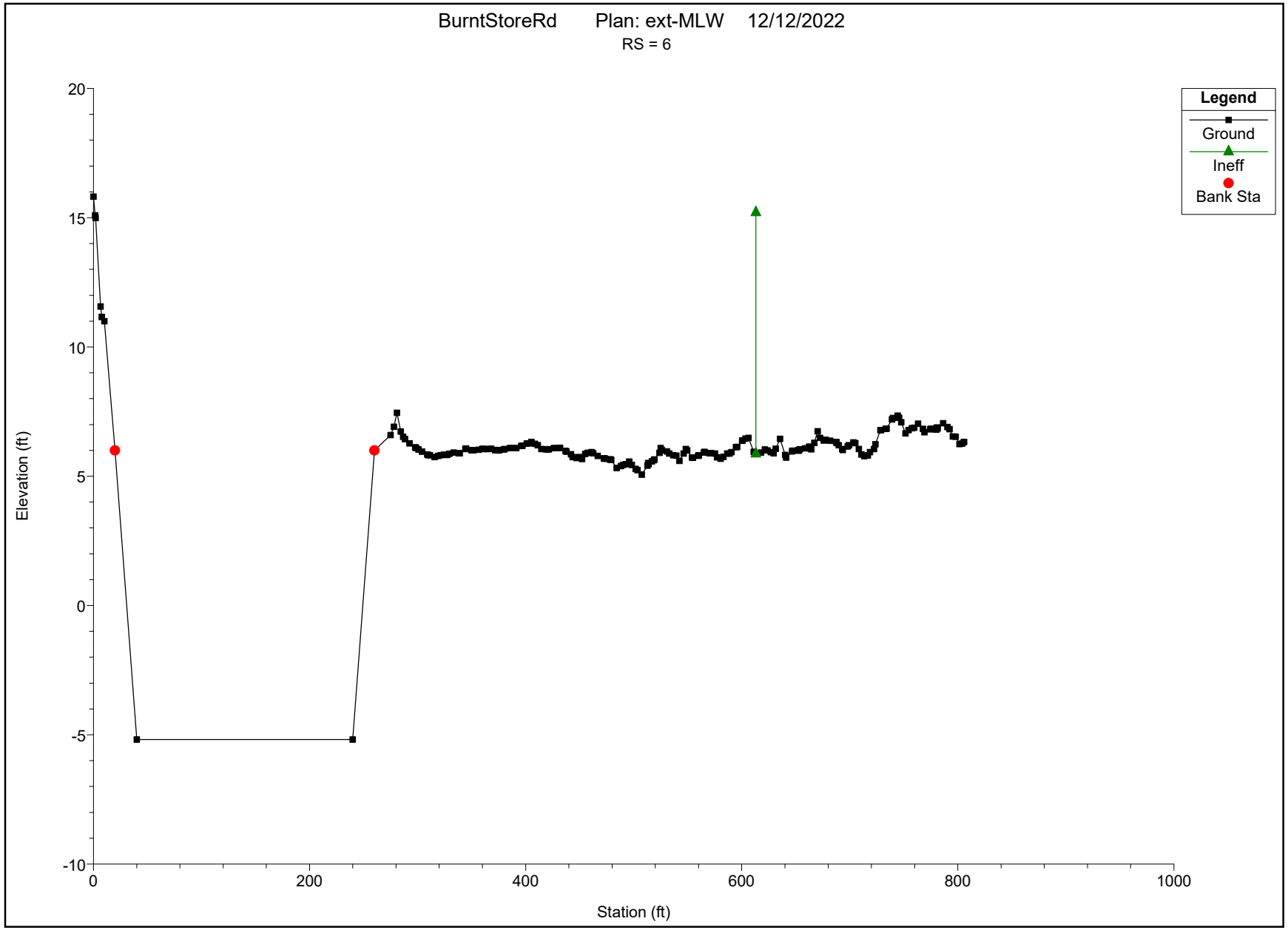
Northeast Upland

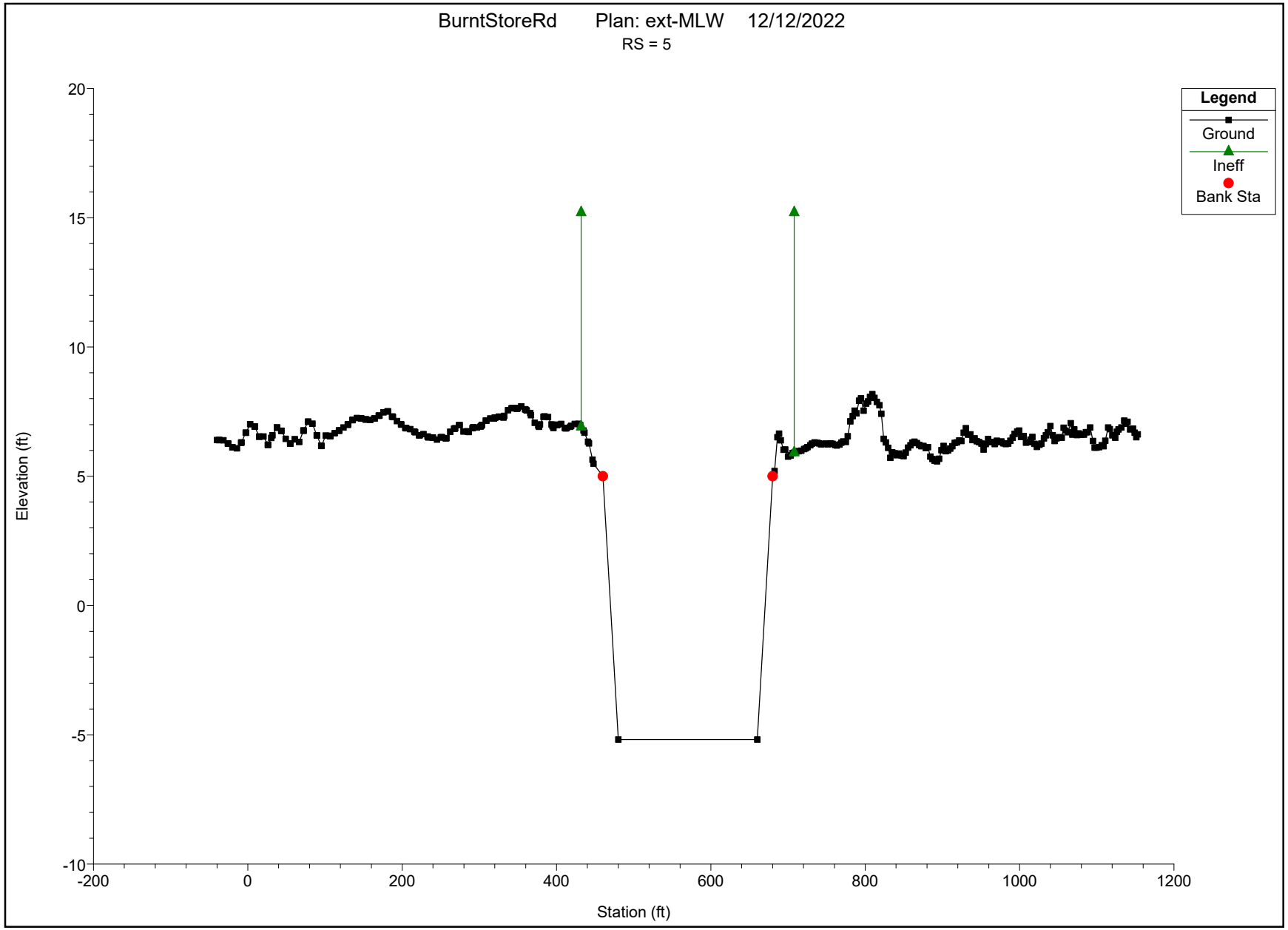
Southeast bank

Area between two bridges facing north

Appendix B – HEC-RAS Cross-Sections

Existing Condition

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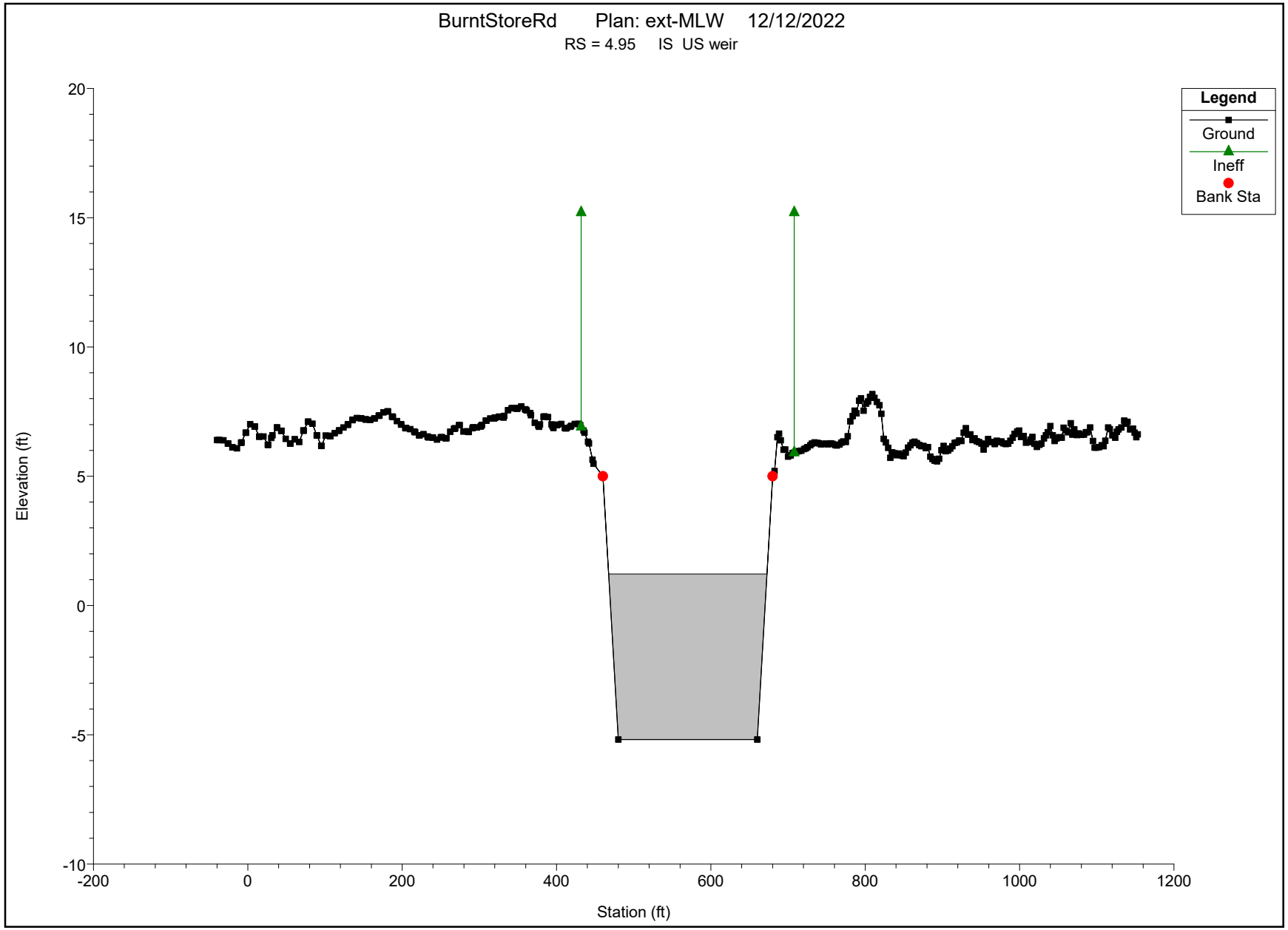
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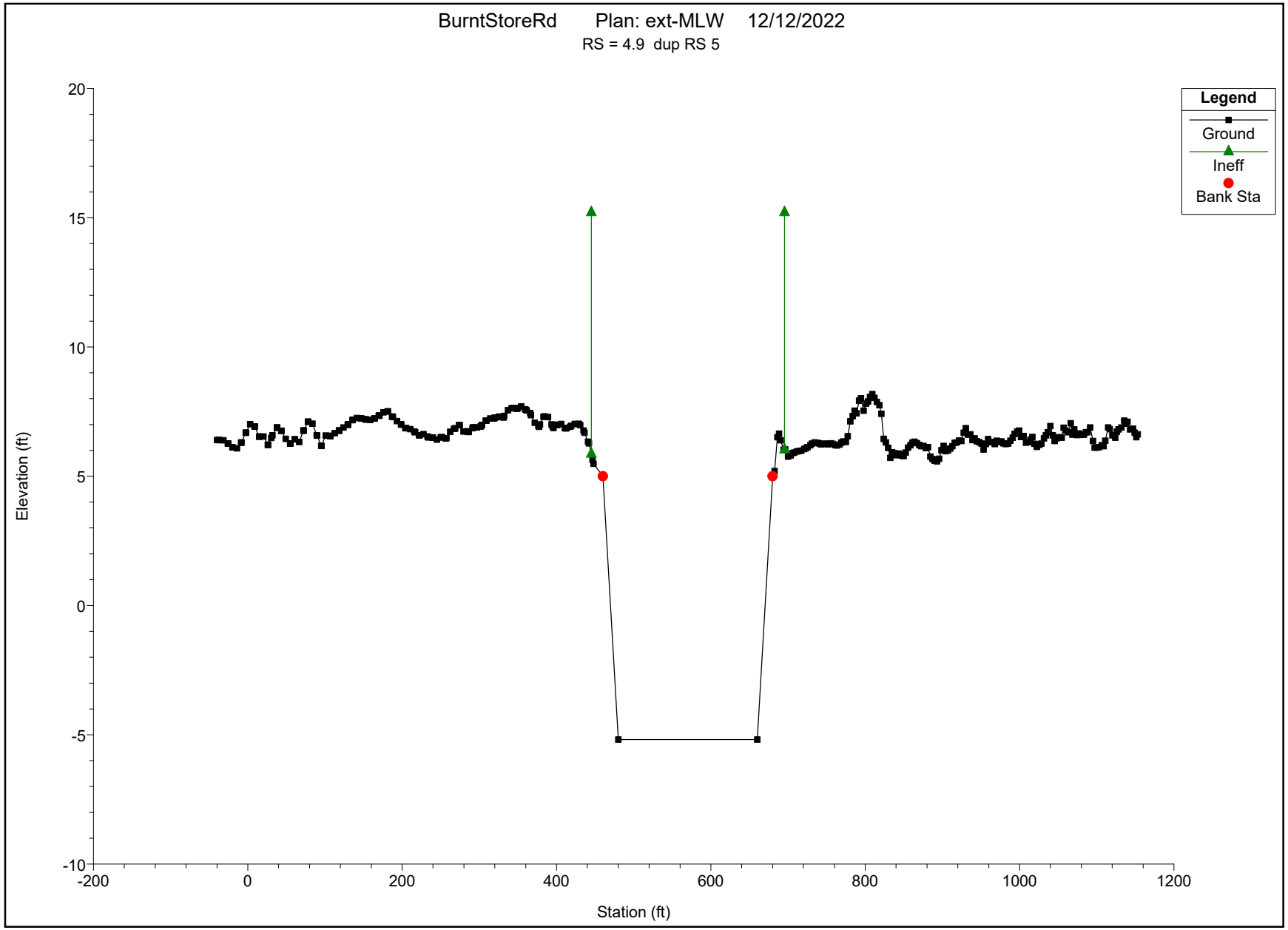
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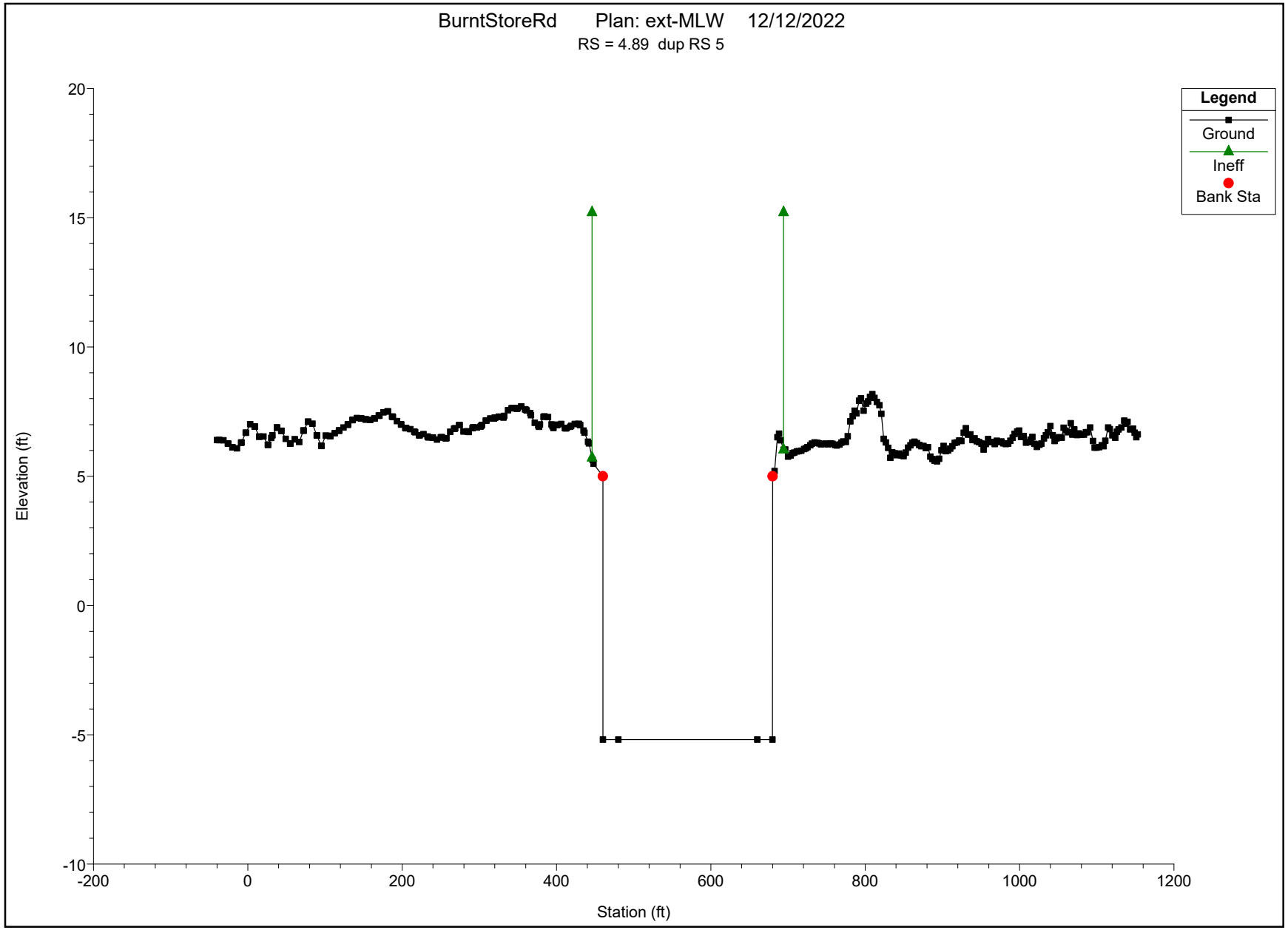
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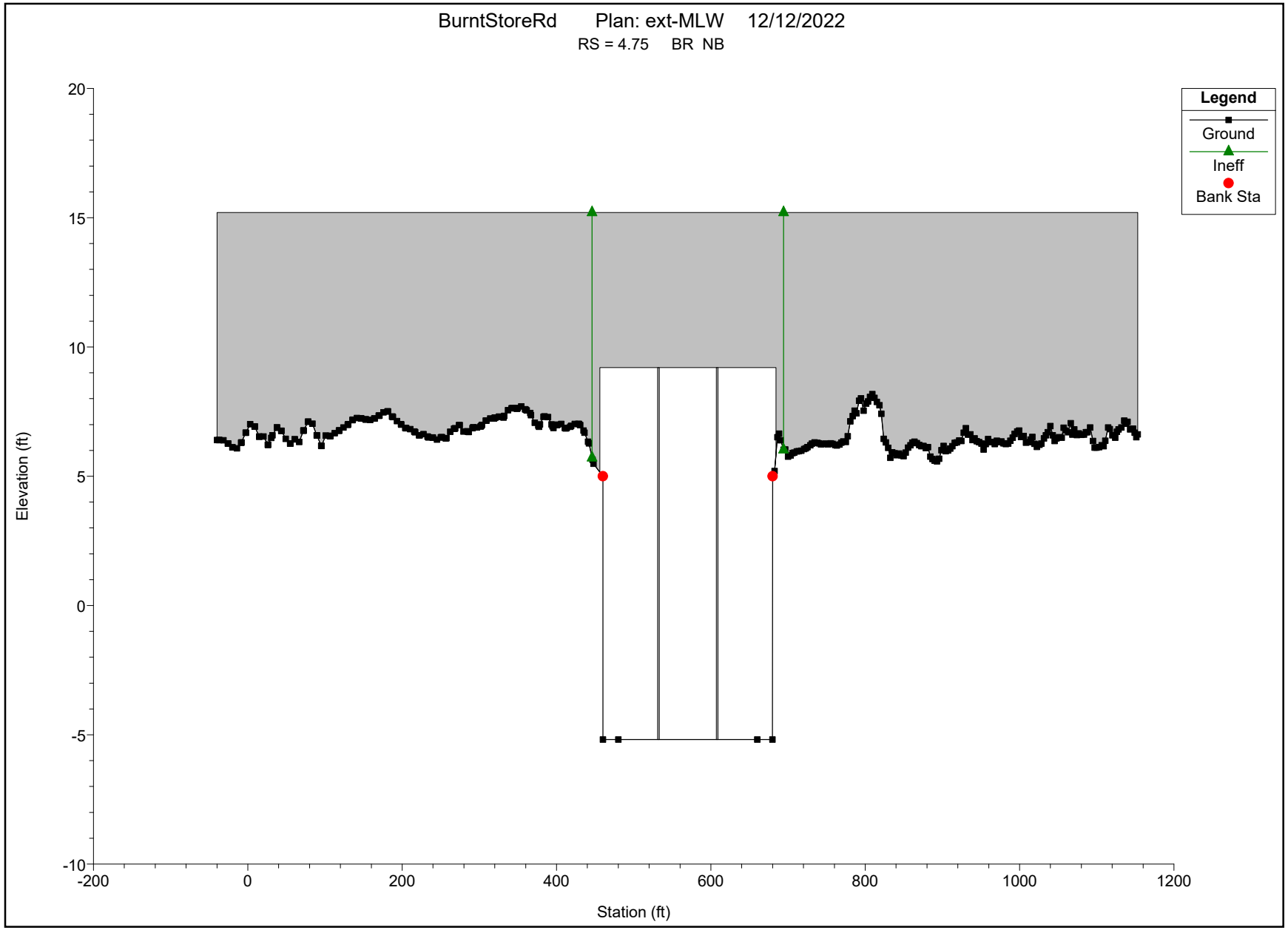
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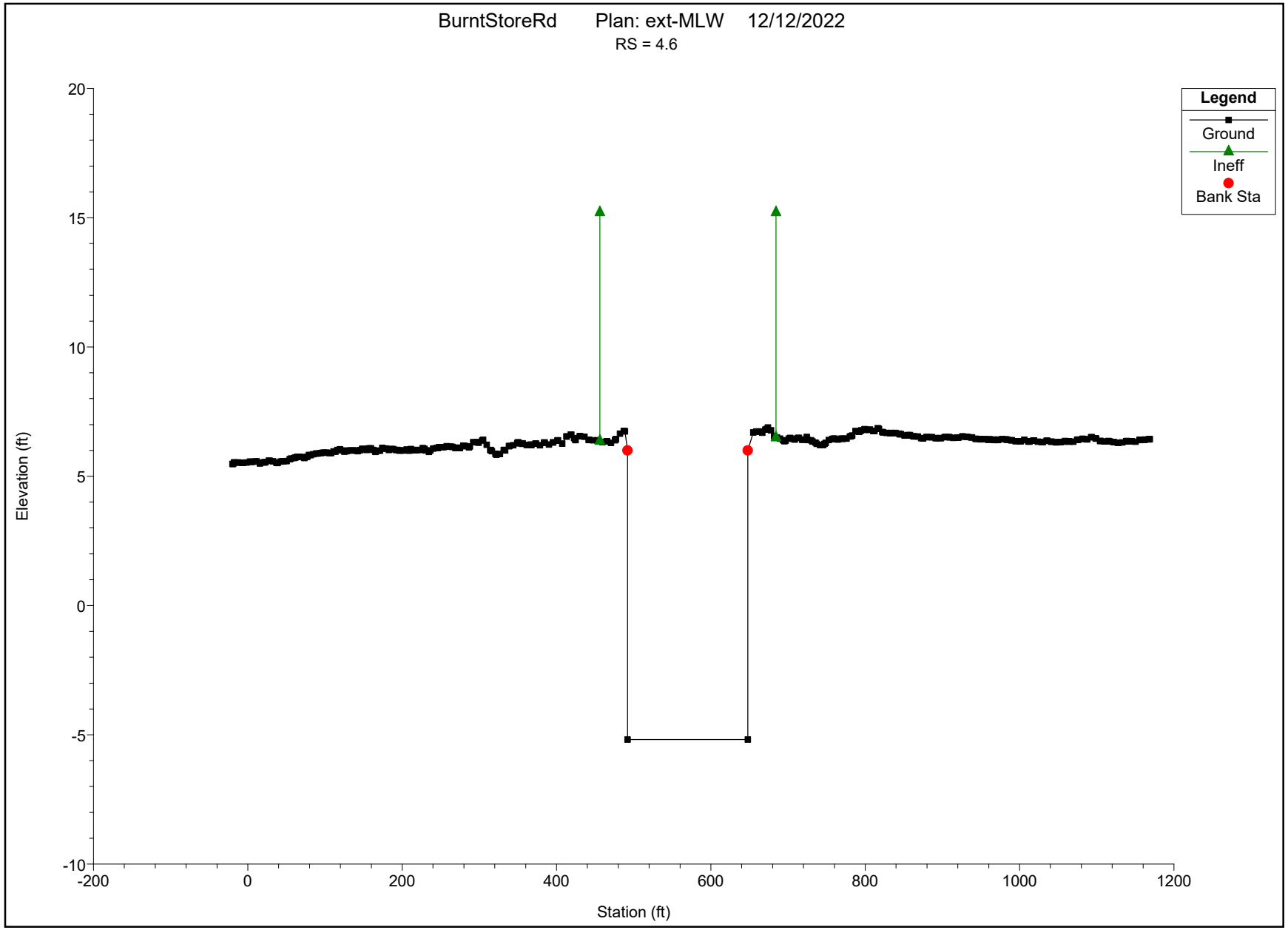
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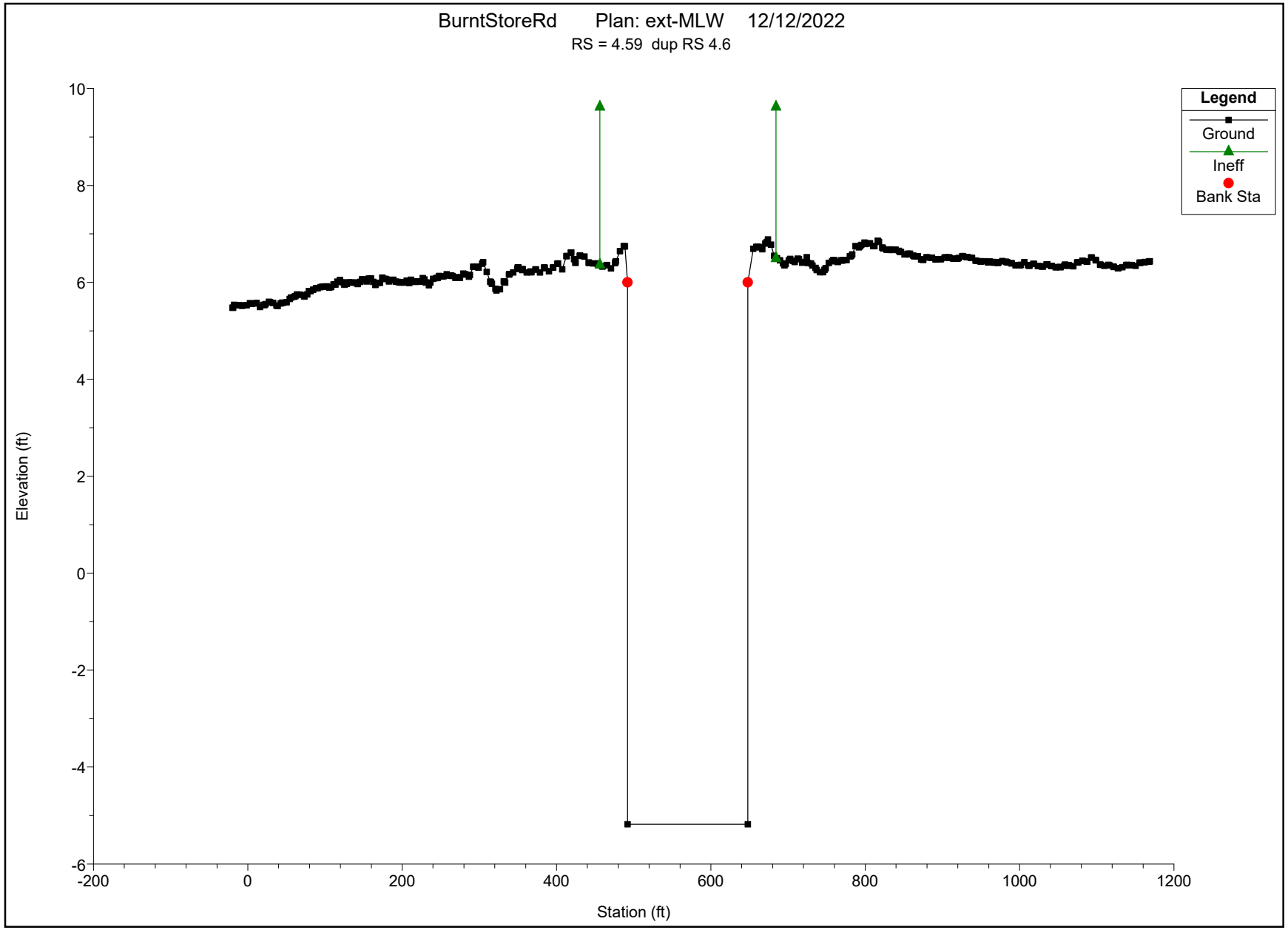
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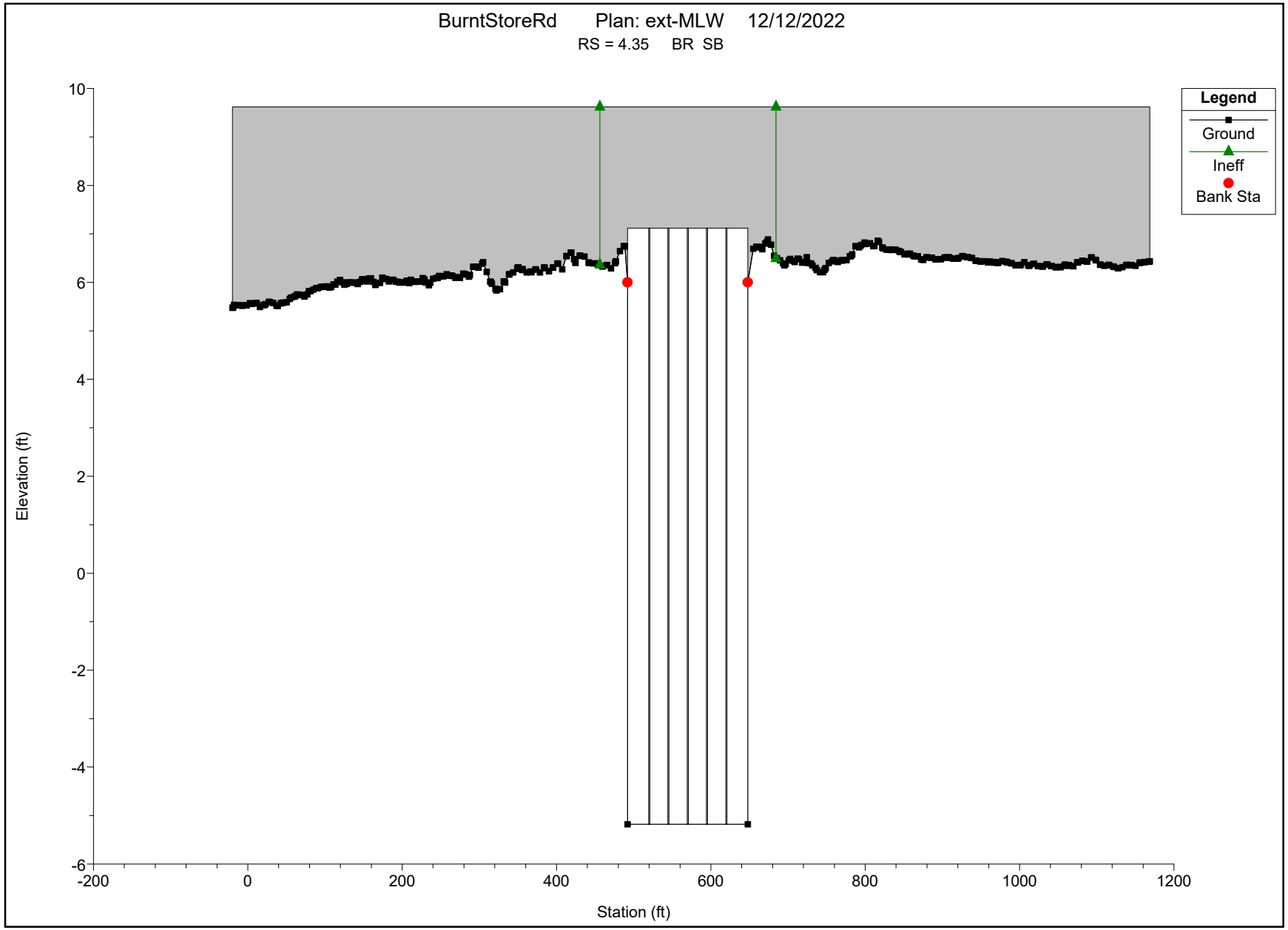
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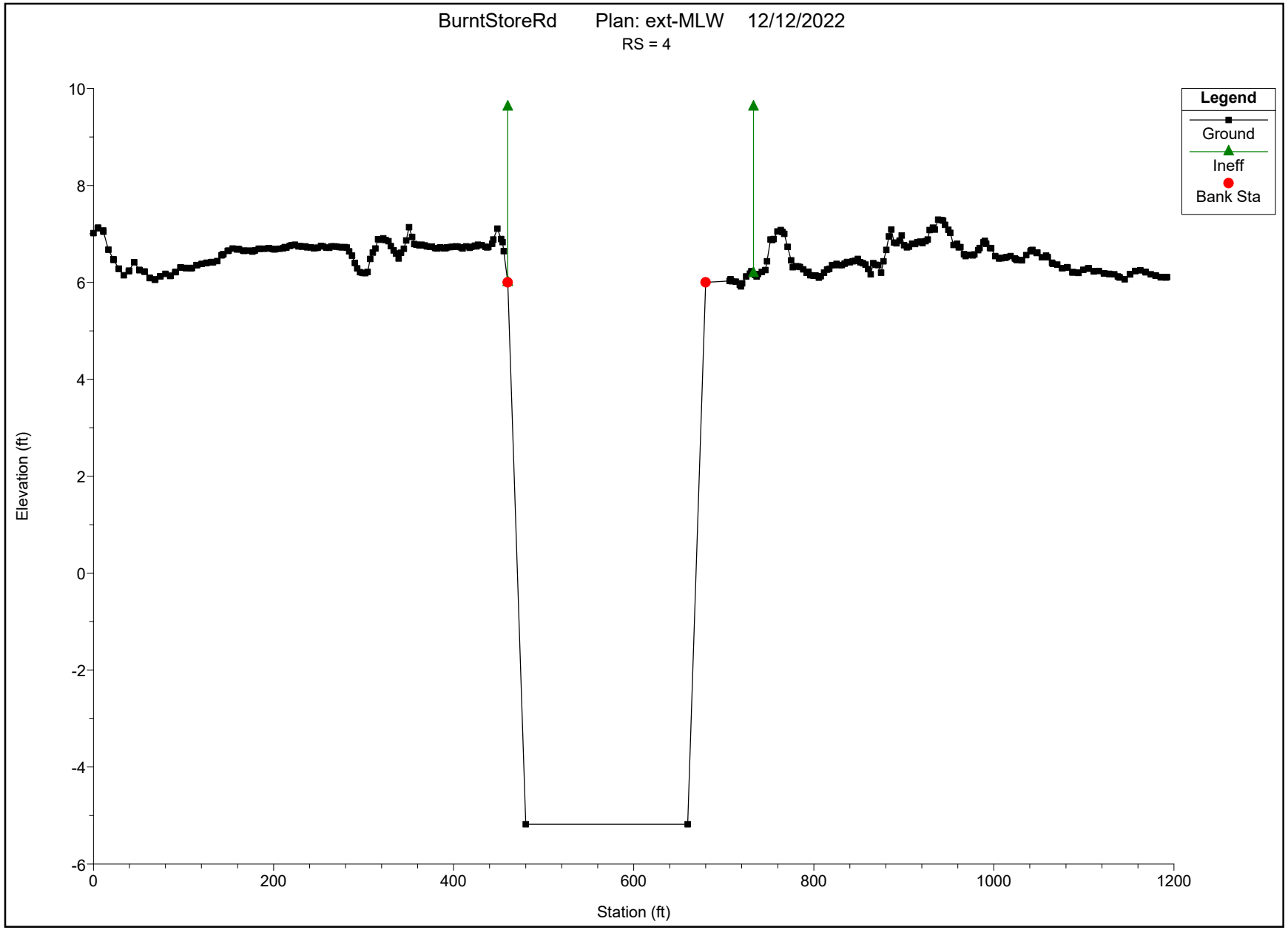
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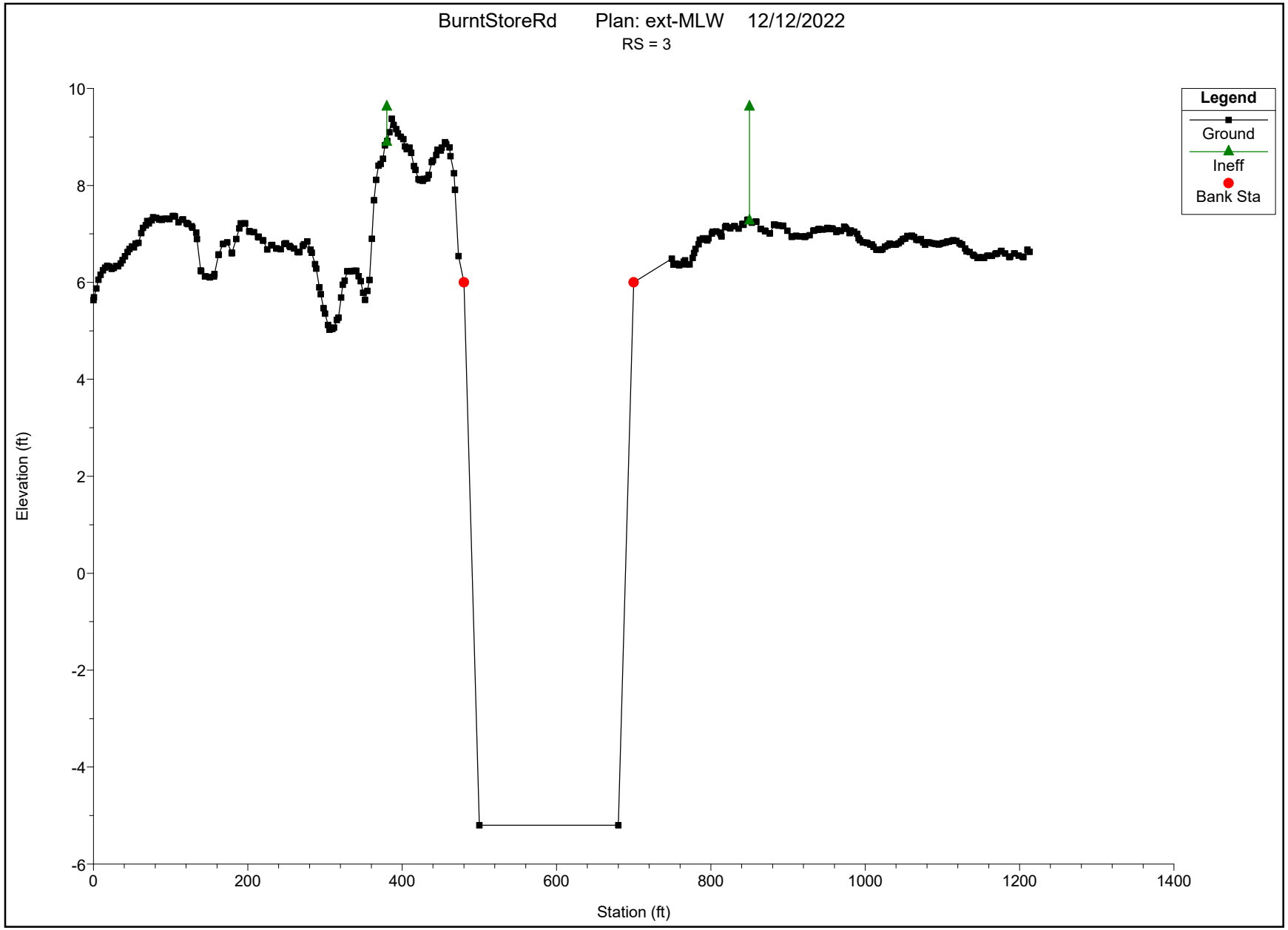
BurntStoreRd Plan: ext-MLW 12/12/2022
RS = 3
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
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6
4
2
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-2
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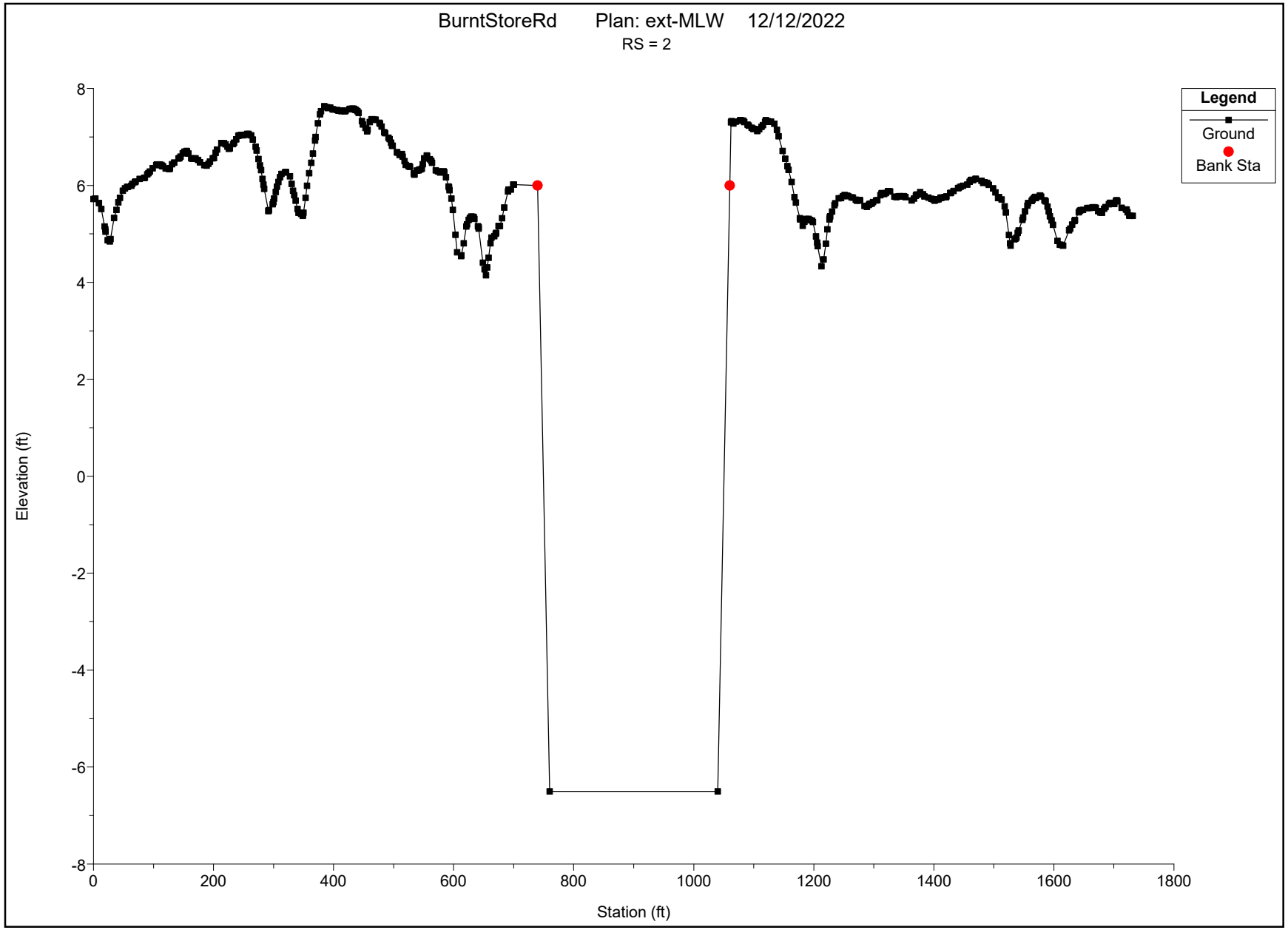
BurntStoreRd Plan: ext-MLW 12/12/2022
RS = 2
Legend
Ground
Bank Sta
Elevation (ft)
Station (ft)
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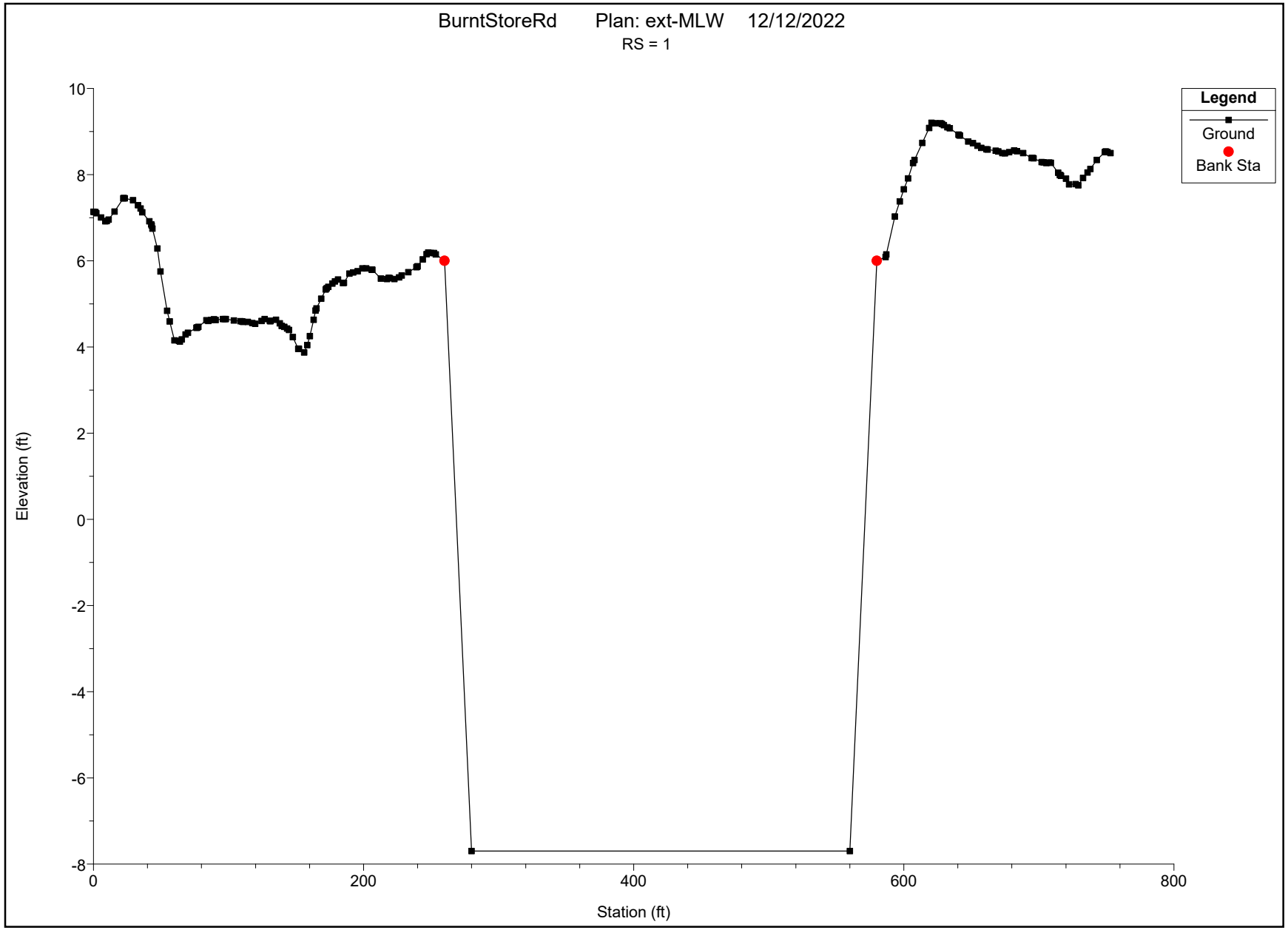
BurntStoreRd Plan: ext-MLW 12/12/2022
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Legend
Ground
Bank Sta
Elevation (ft)
Station (ft)
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600
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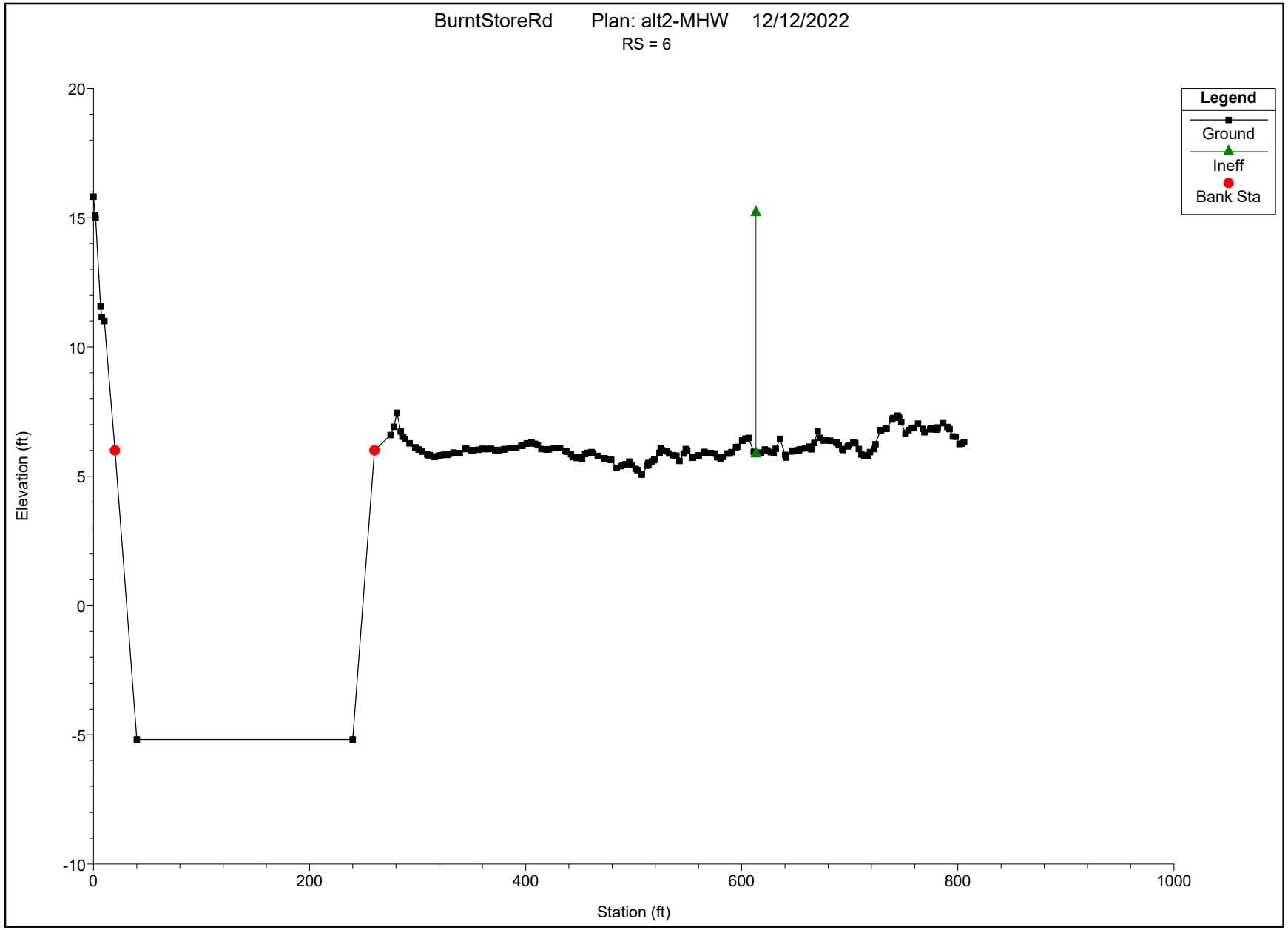
Option 1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Ground
Ineff
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Station (ft)
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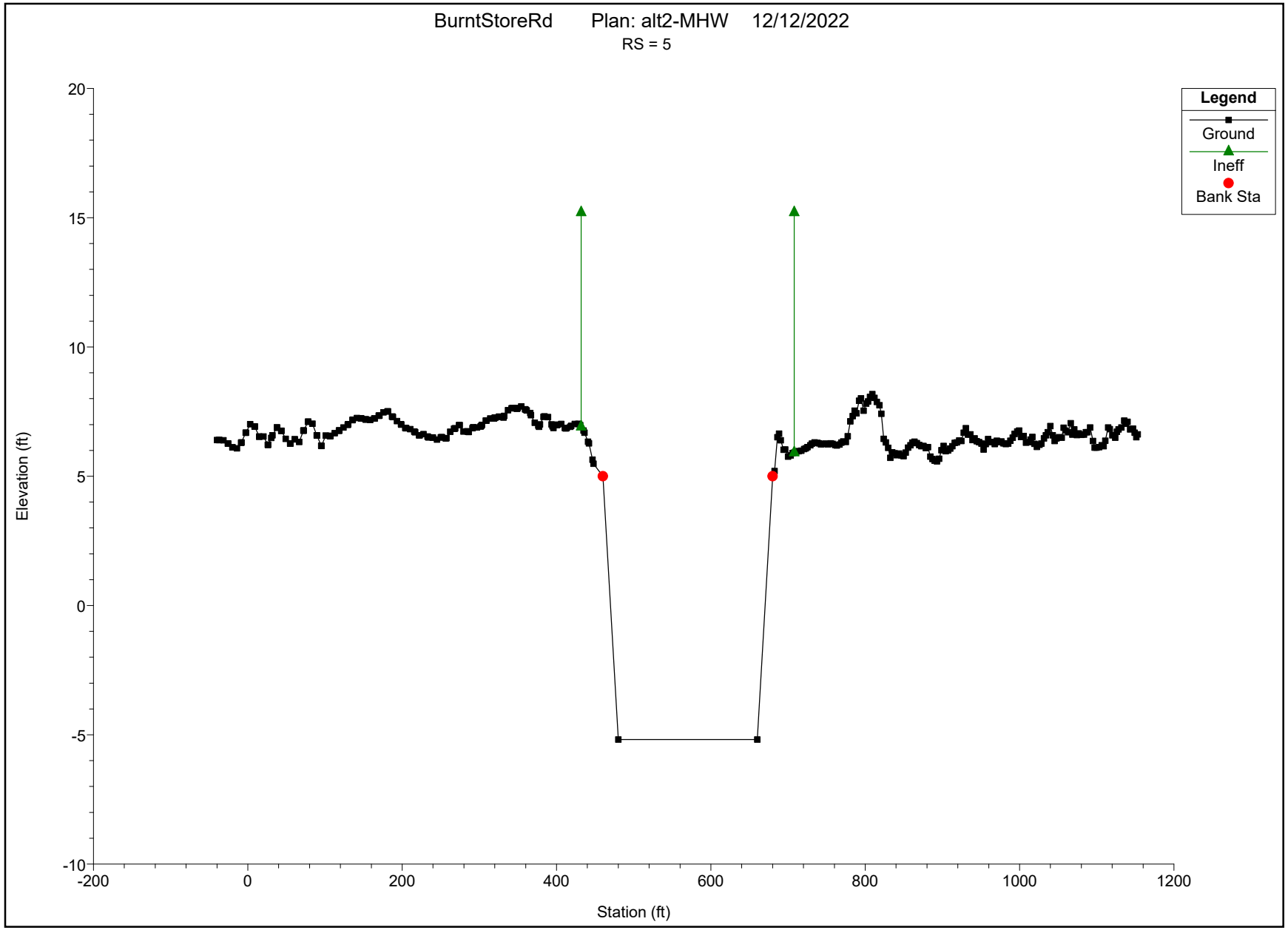
BurntStoreRd Plan: alt2-MHW 12/12/2022
RS = 5
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Ground
Ineff
Bank Sta
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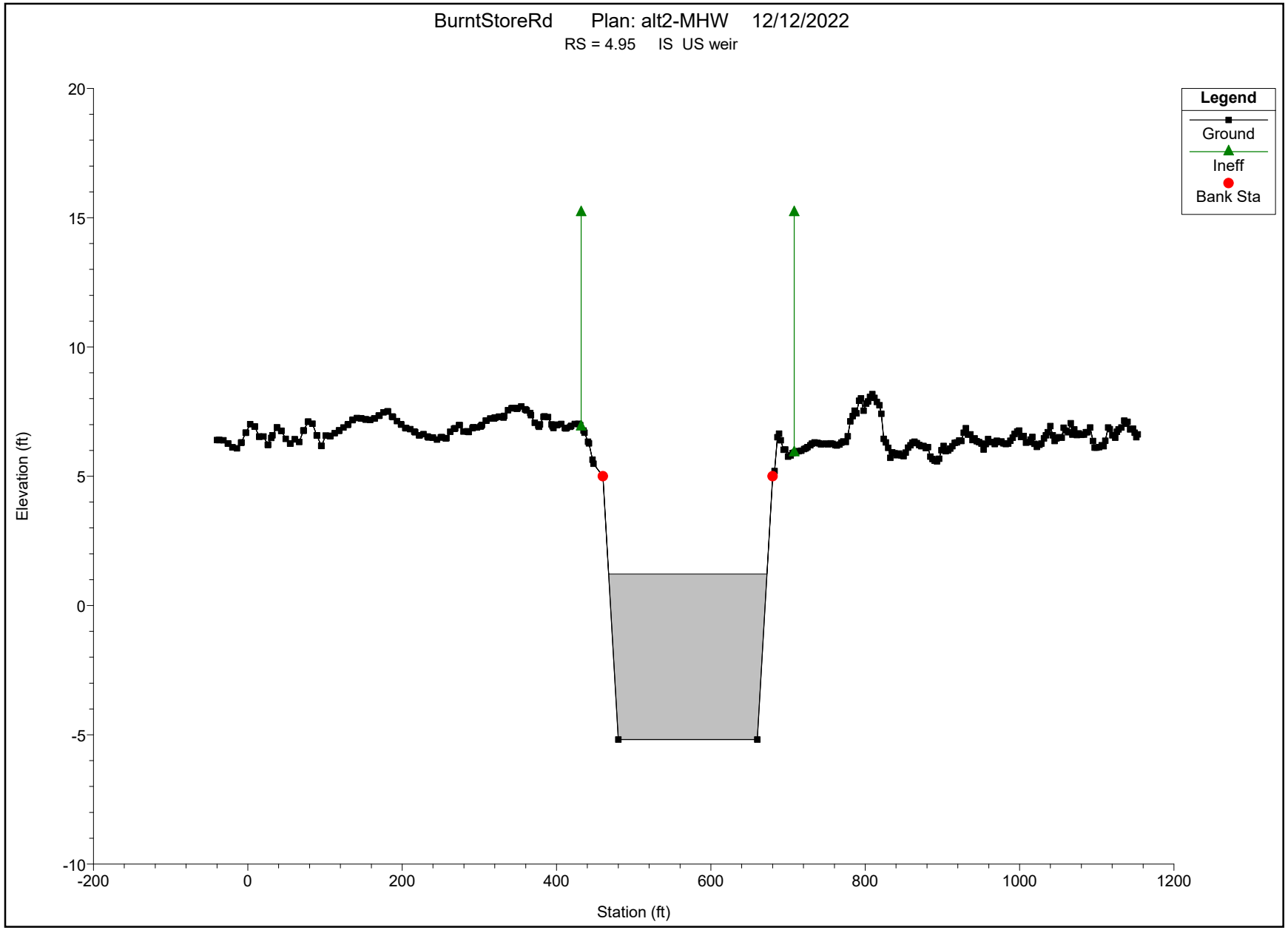
BurntStoreRd Plan: alt2-MHW 12/12/2022
RS = 4.95 IS US weir
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
20
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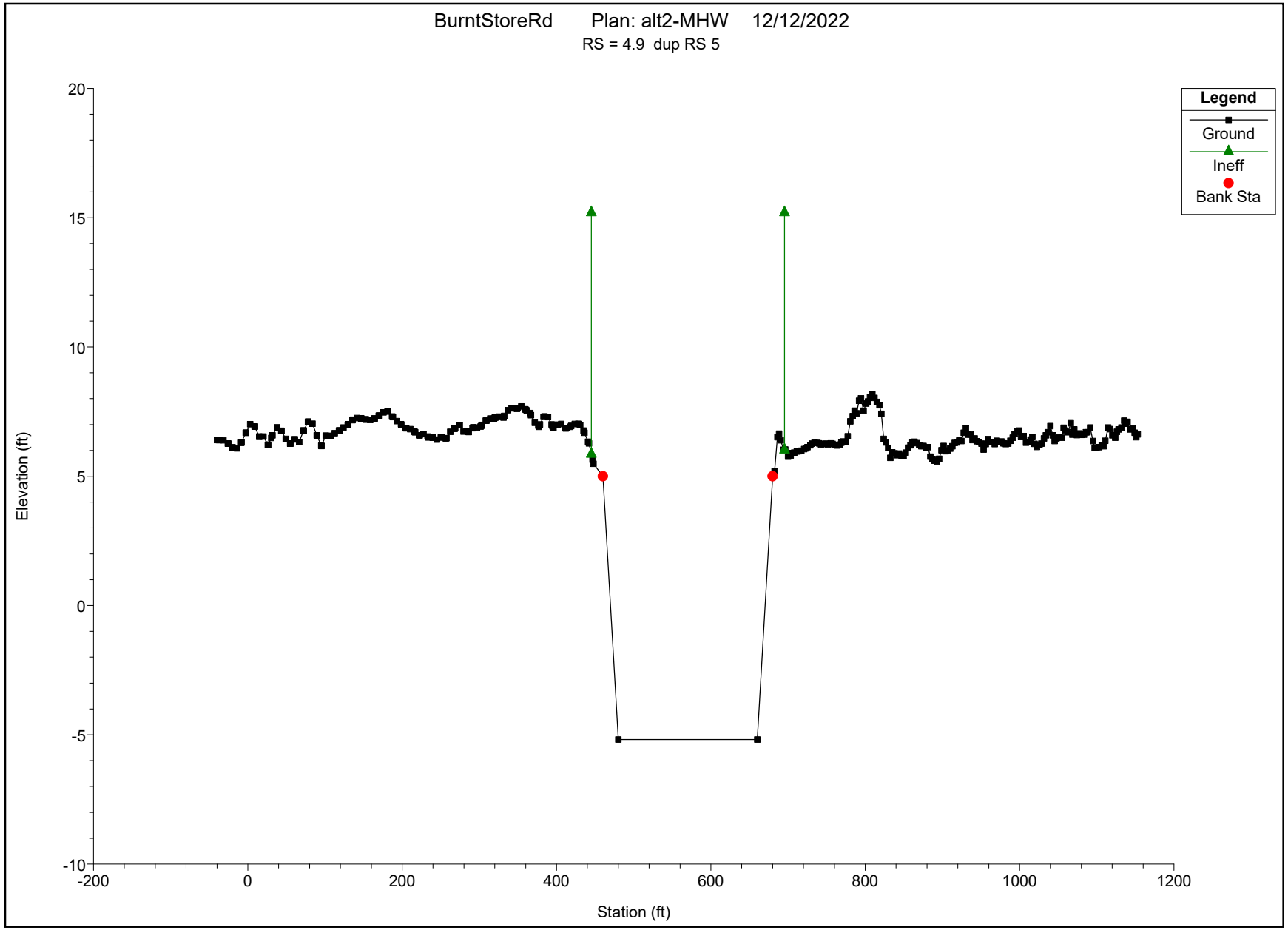
BurntStoreRd Plan: alt2-MHW 12/12/2022
RS = 4.9 dup RS 5
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
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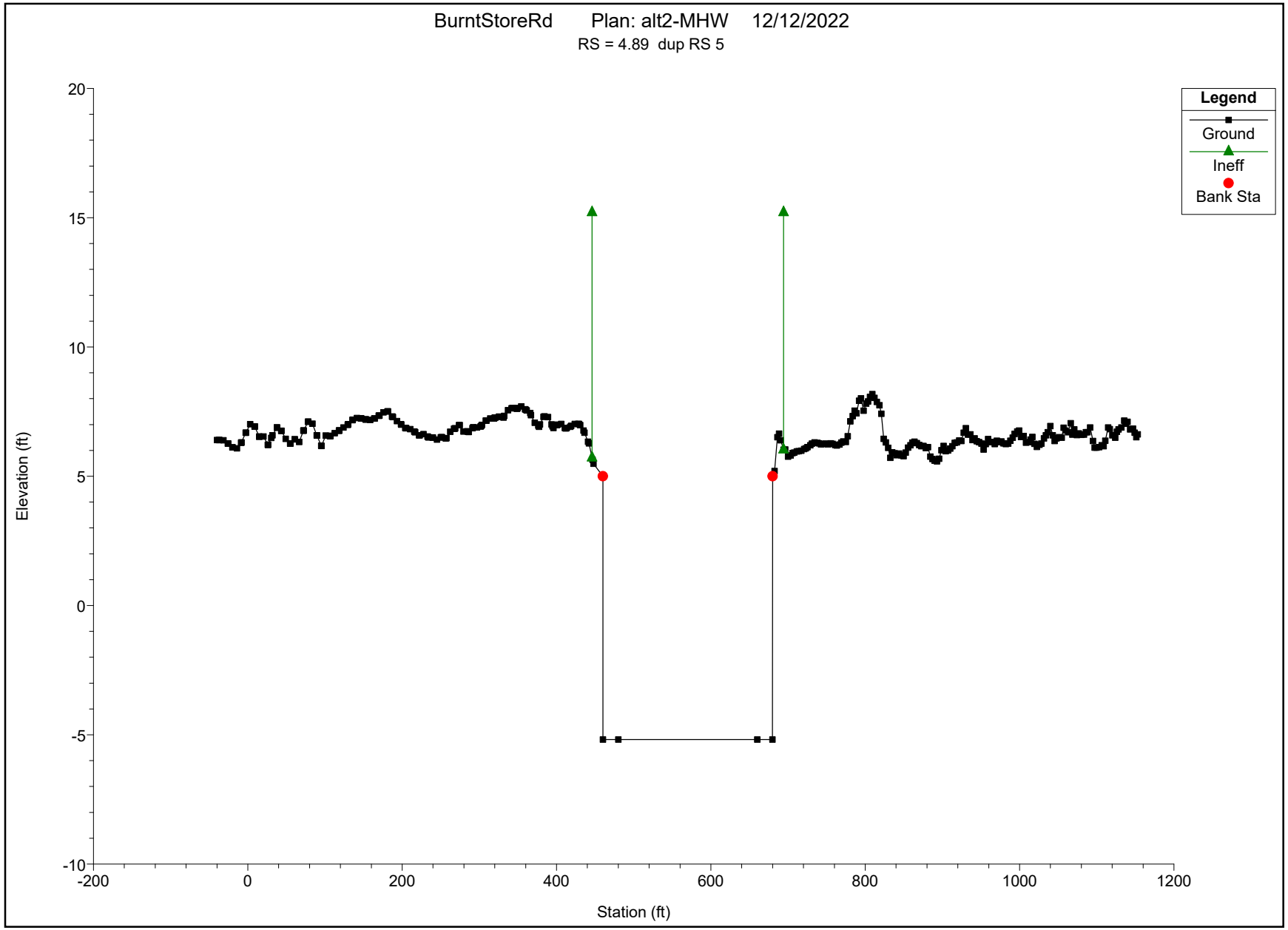
BurntStoreRd Plan: alt2-MHW 12/12/2022
RS = 4.89 dup RS 5
Legend
Ground
Ineff
Bank Sta
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Station (ft)
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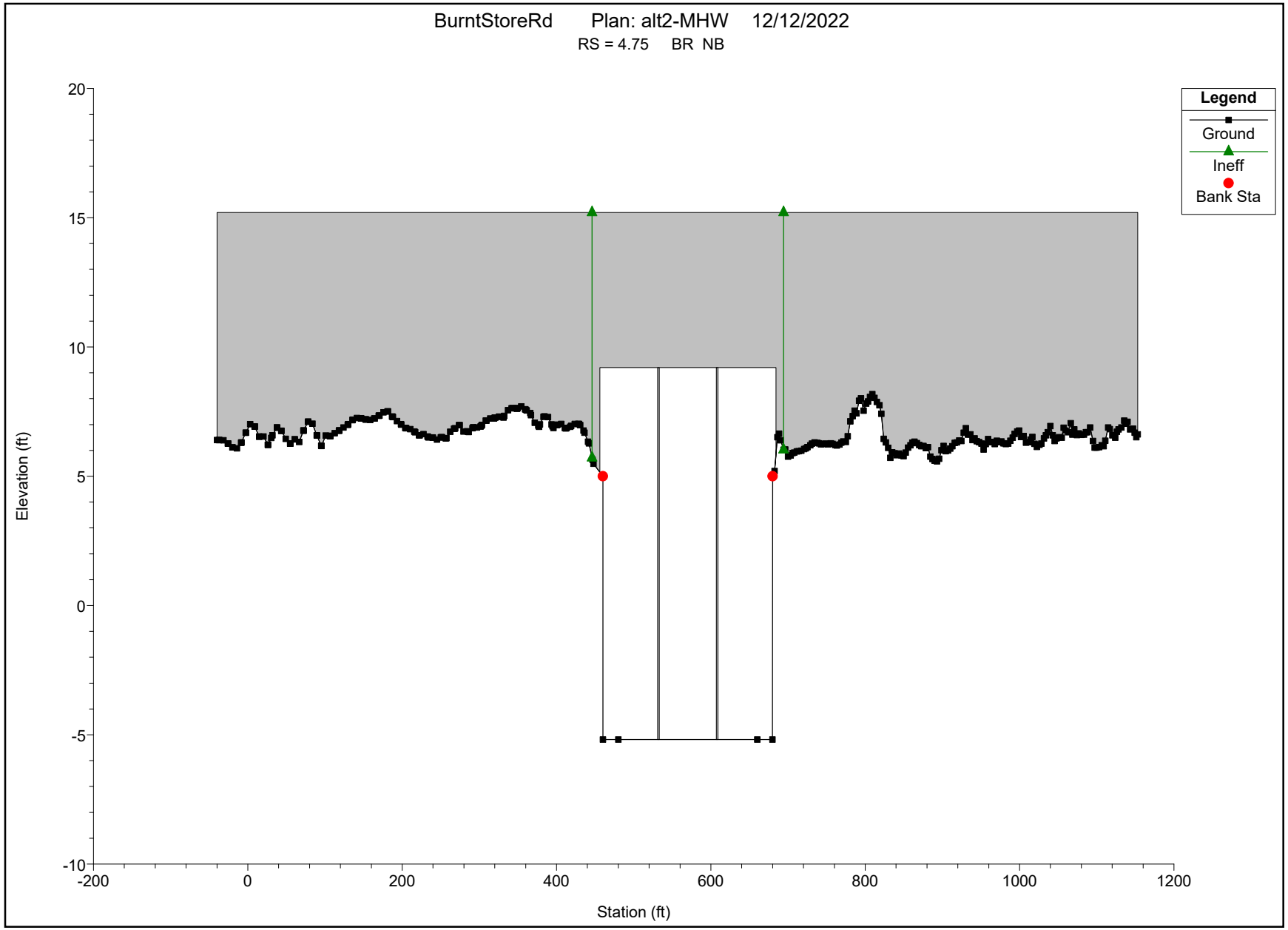
BurntStoreRd Plan: alt2-MHW 12/12/2022
RS = 4.75 BR NB
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
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15
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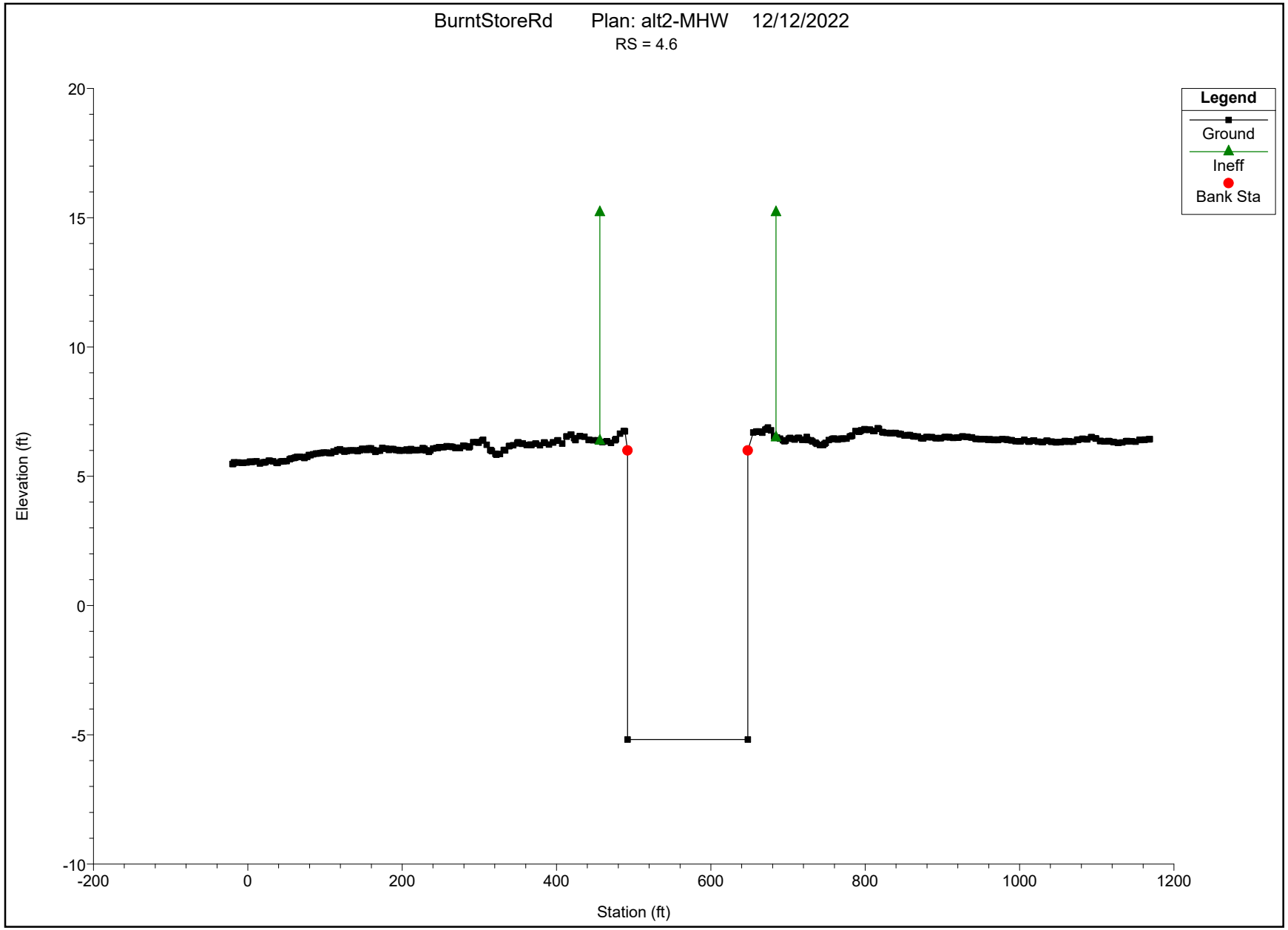
BurntStoreRd Plan: alt2-MHW 12/12/2022
RS = 4.6
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
20
15
10
5
0
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-200
0
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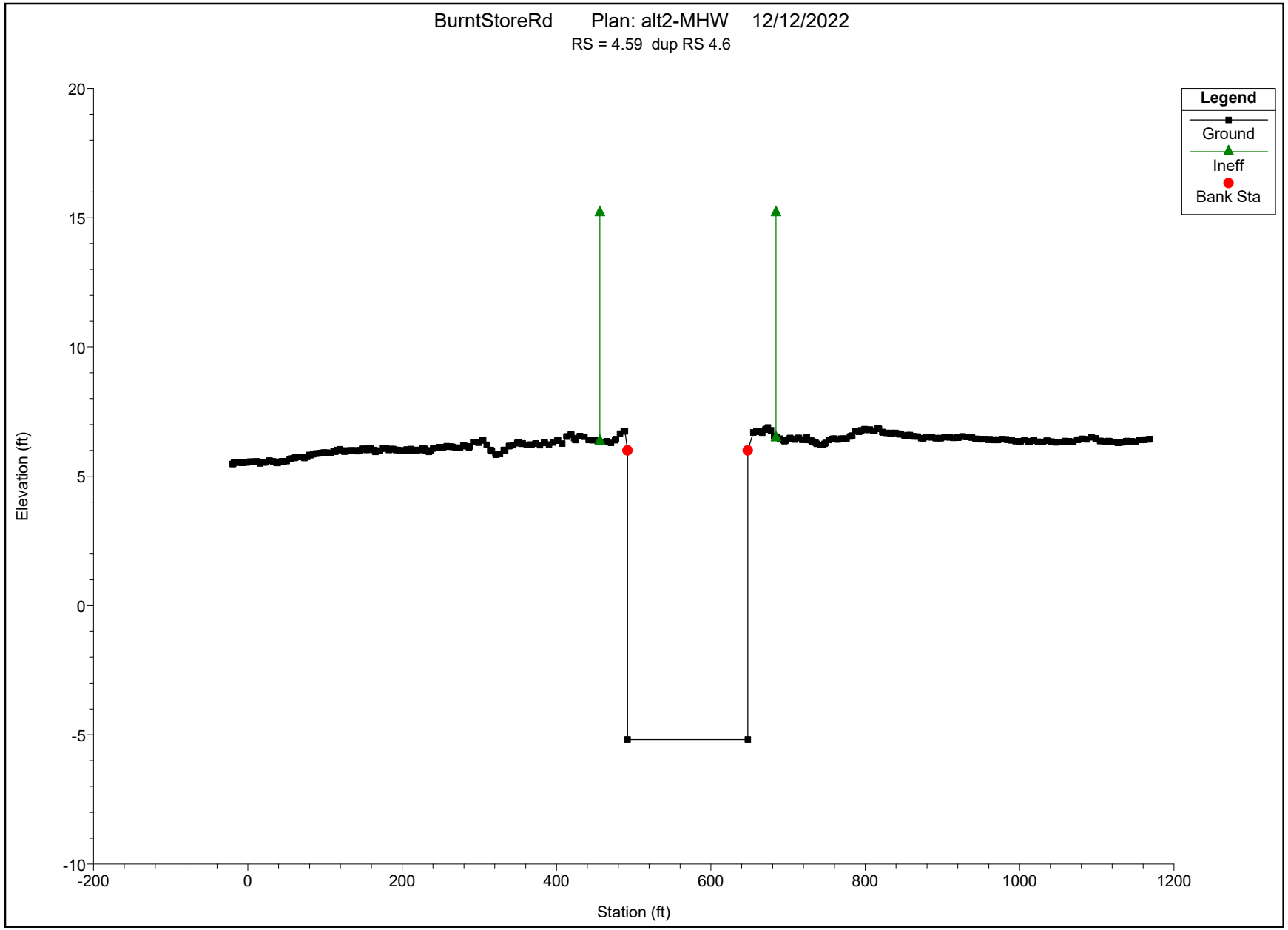
400
600
800
1000
1200


BurntStoreRd Plan: alt2-MHW 12/12/2022
RS = 4.59 dup RS 4.6
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
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-200
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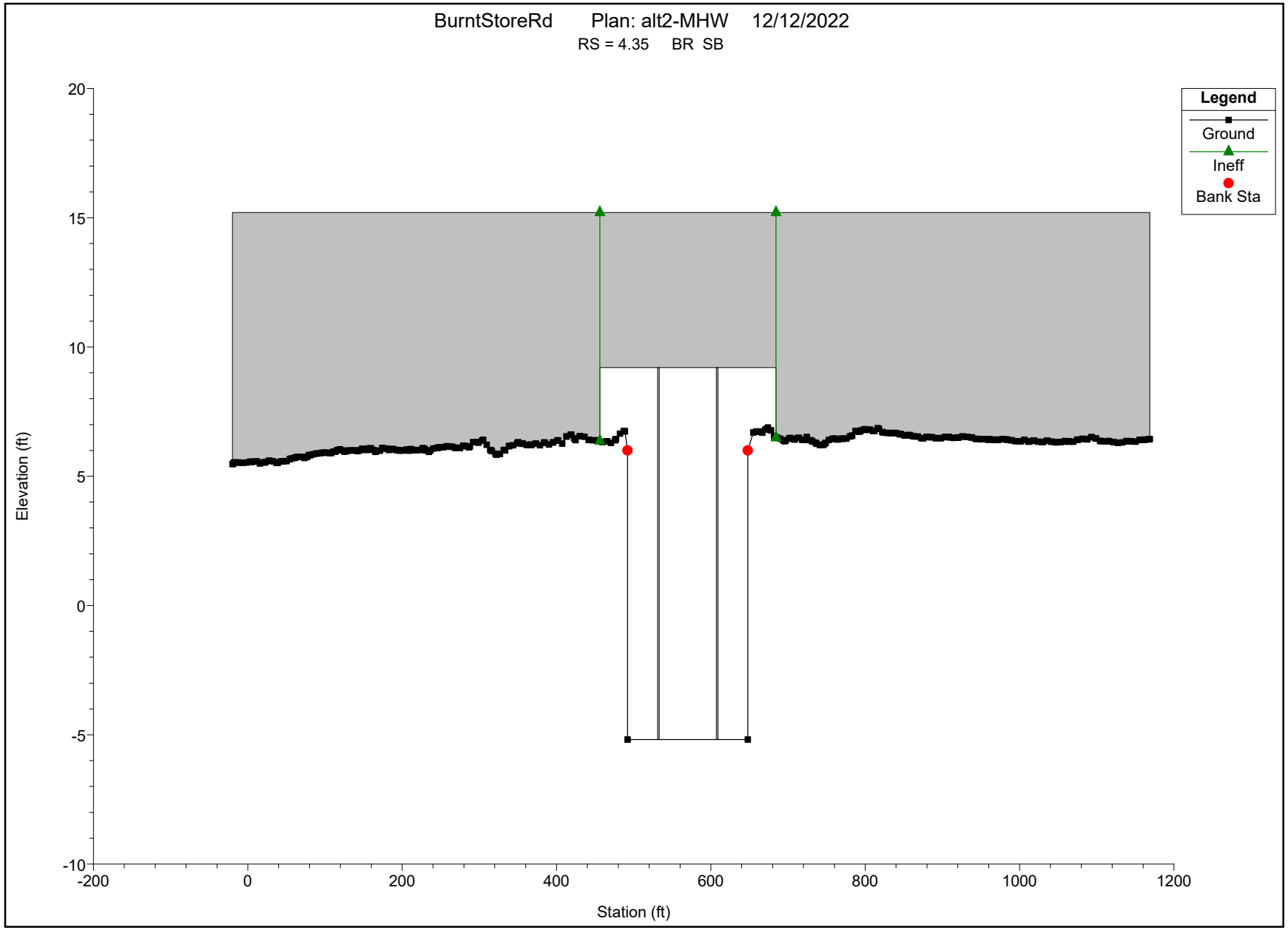
600
800
1000
1200


BurntStoreRd Plan: alt2-MHW 12/12/2022
RS = 4.35 BR SB
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
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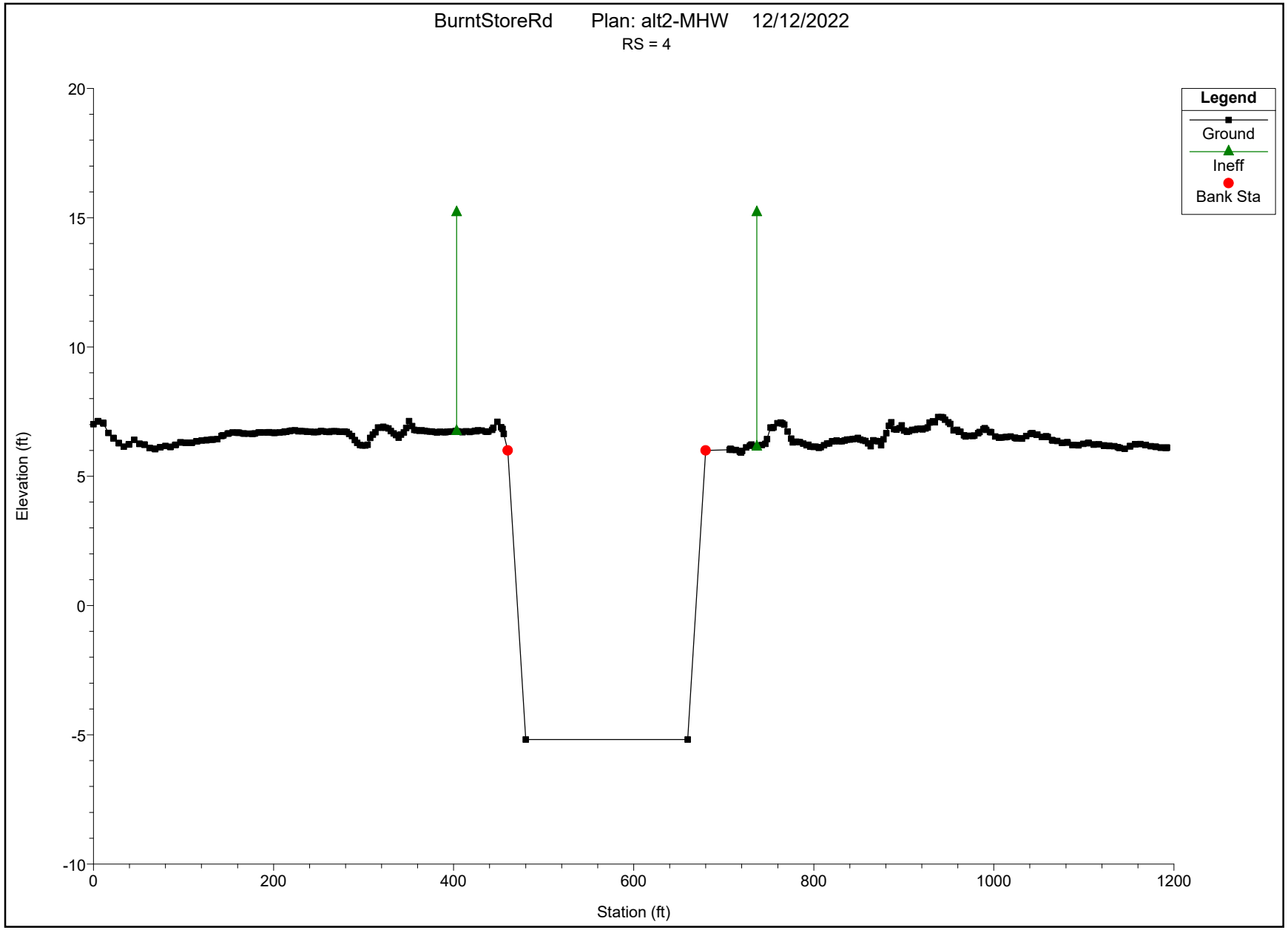
BurntStoreRd Plan: alt2-MHW 12/12/2022
RS = 4
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
20
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10
5
0
-5
-10
0
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1000
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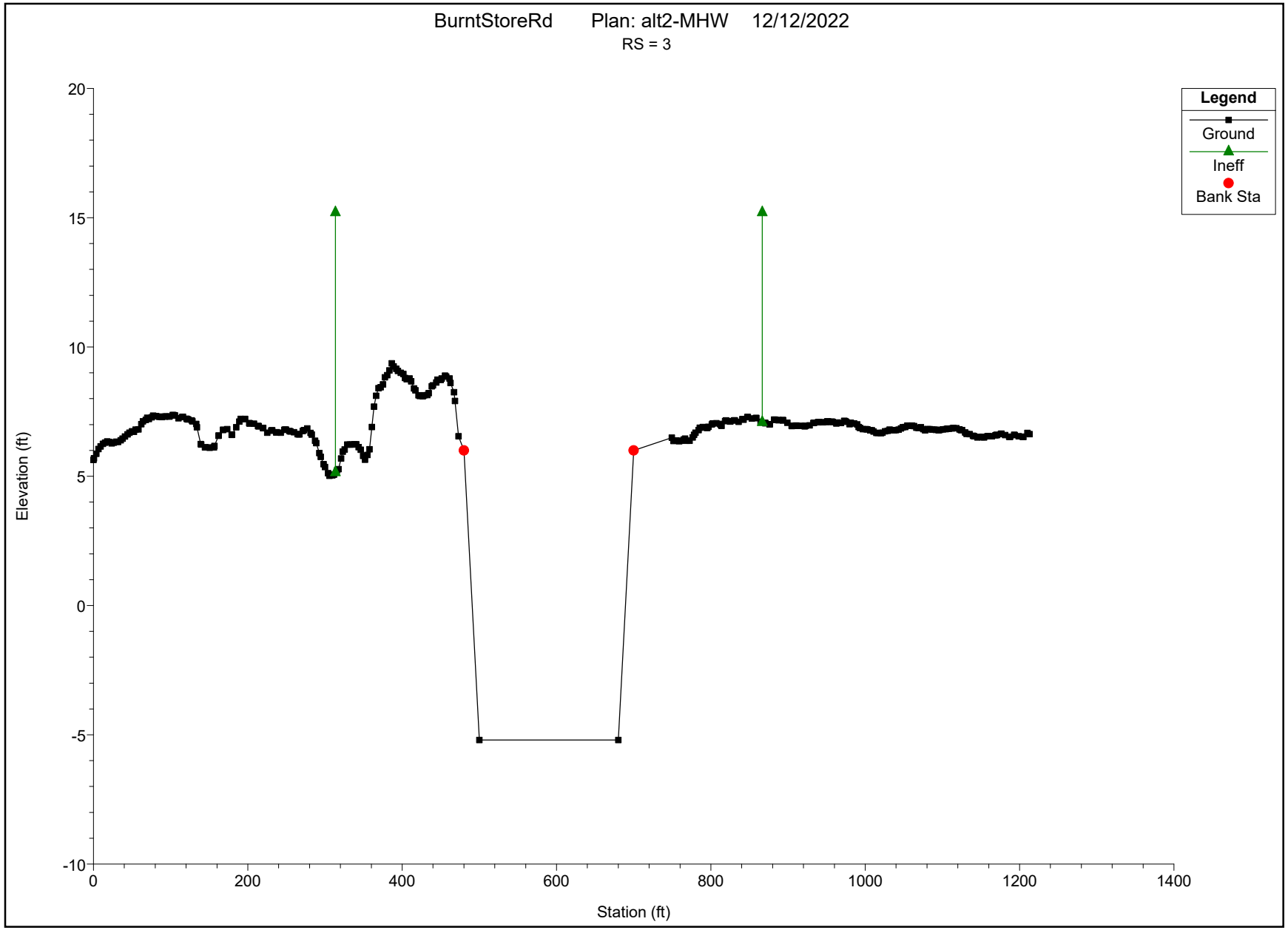
BurntStoreRd Plan: alt2-MHW 12/12/2022
RS = 3
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
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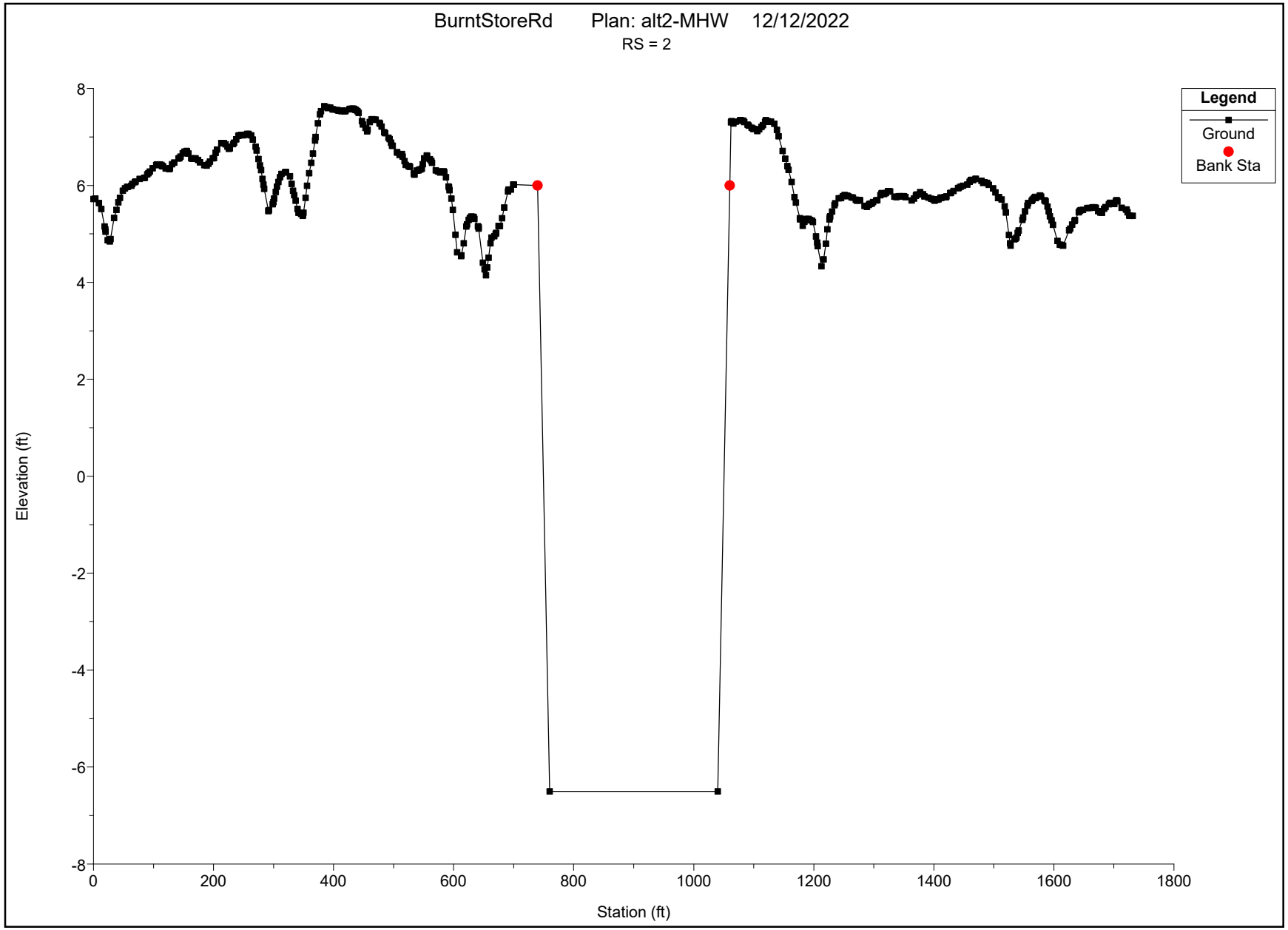
BurntStoreRd Plan: alt2-MHW 12/12/2022
RS = 2
Legend
Ground
Bank Sta
Elevation (ft)
Station (ft)
8
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-8
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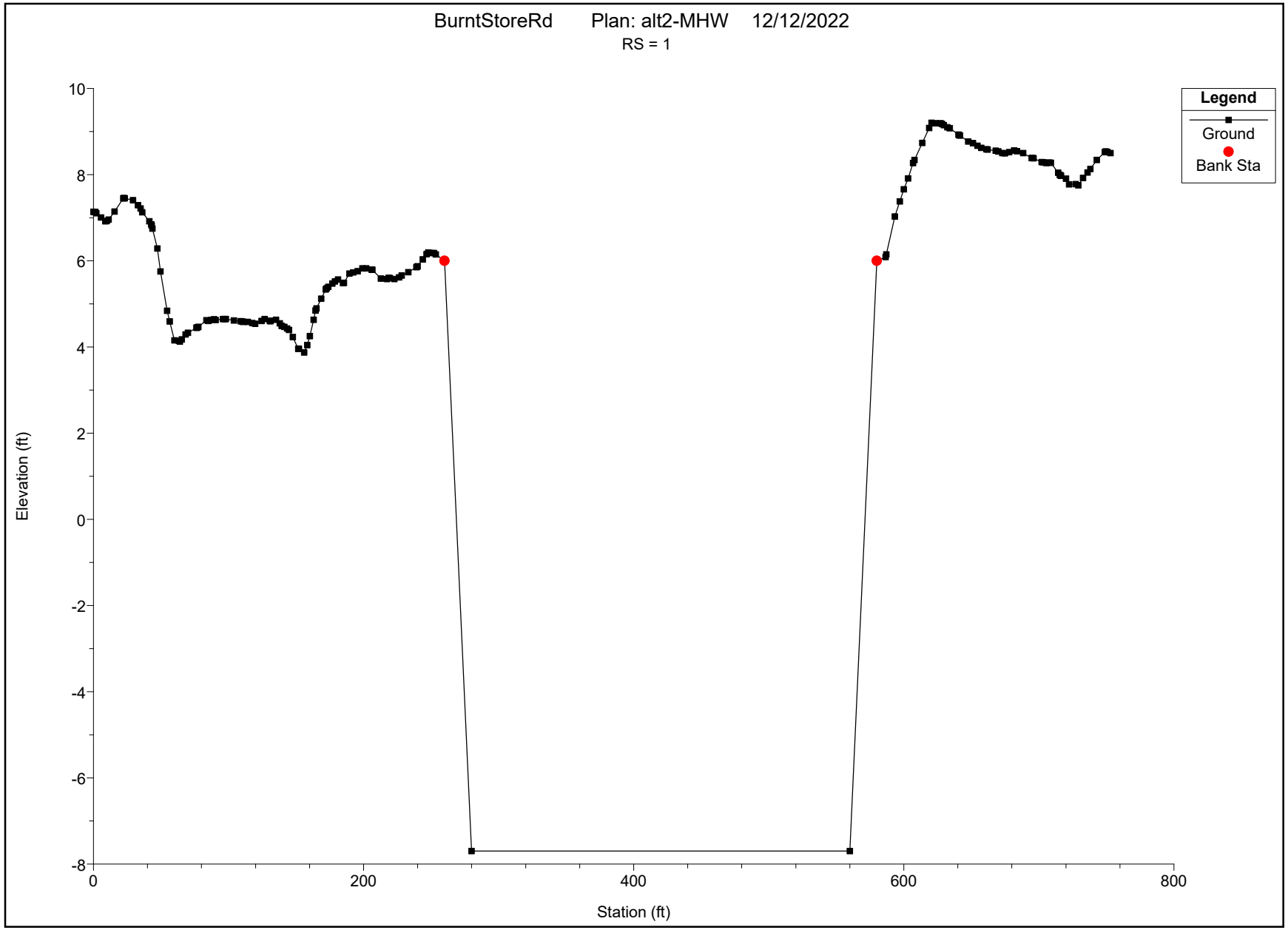
BurntStoreRd Plan: alt2-MHW 12/12/2022
RS = 1
Legend
Ground
Bank Sta
Elevation (ft)
Station (ft)
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4
2
0
-2
-4
-6
-8
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200
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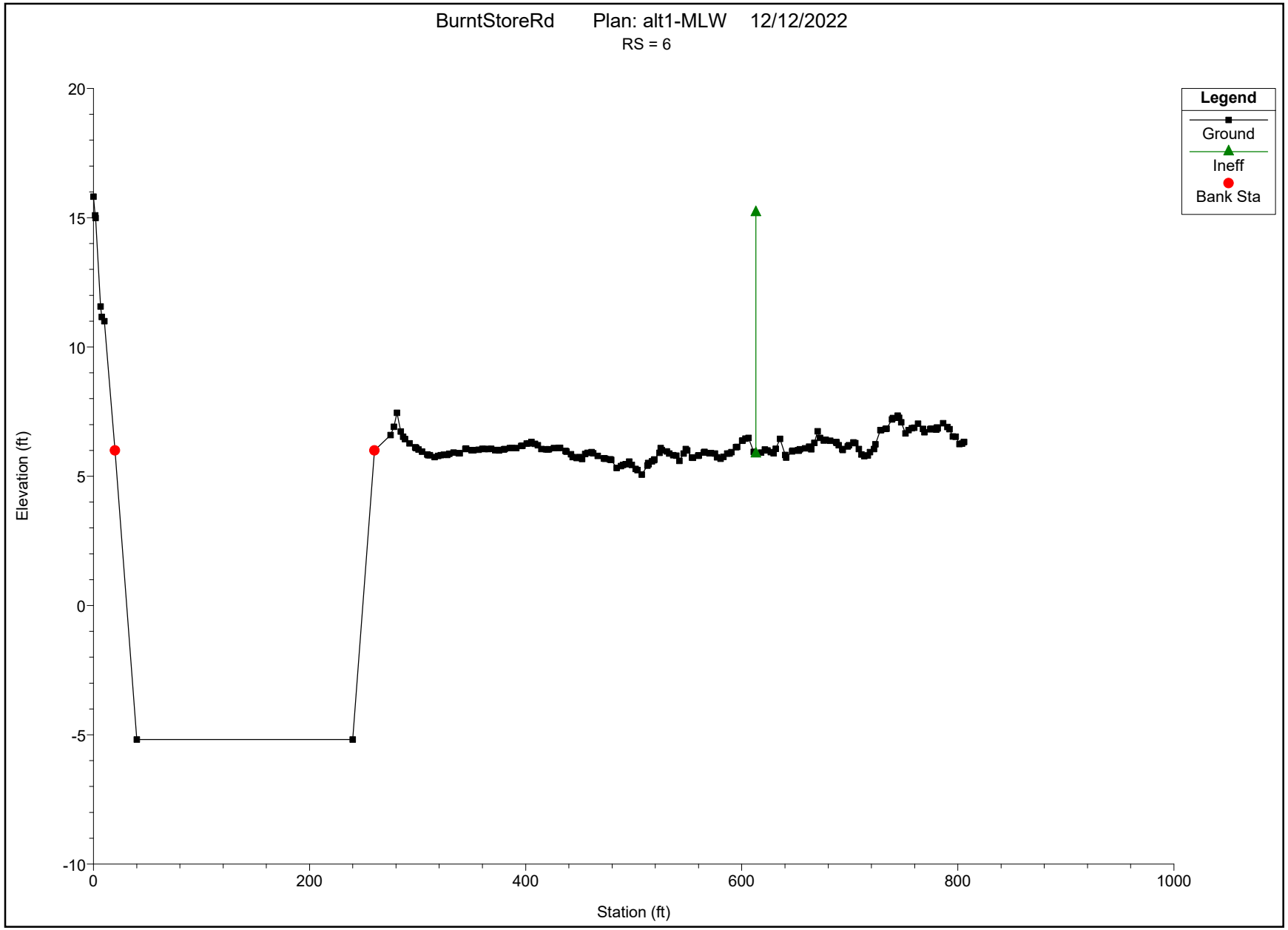
Option 2


BurntStoreRd Plan: alt1-MLW 12/12/2022
RS = 6
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
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-5
-10
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400
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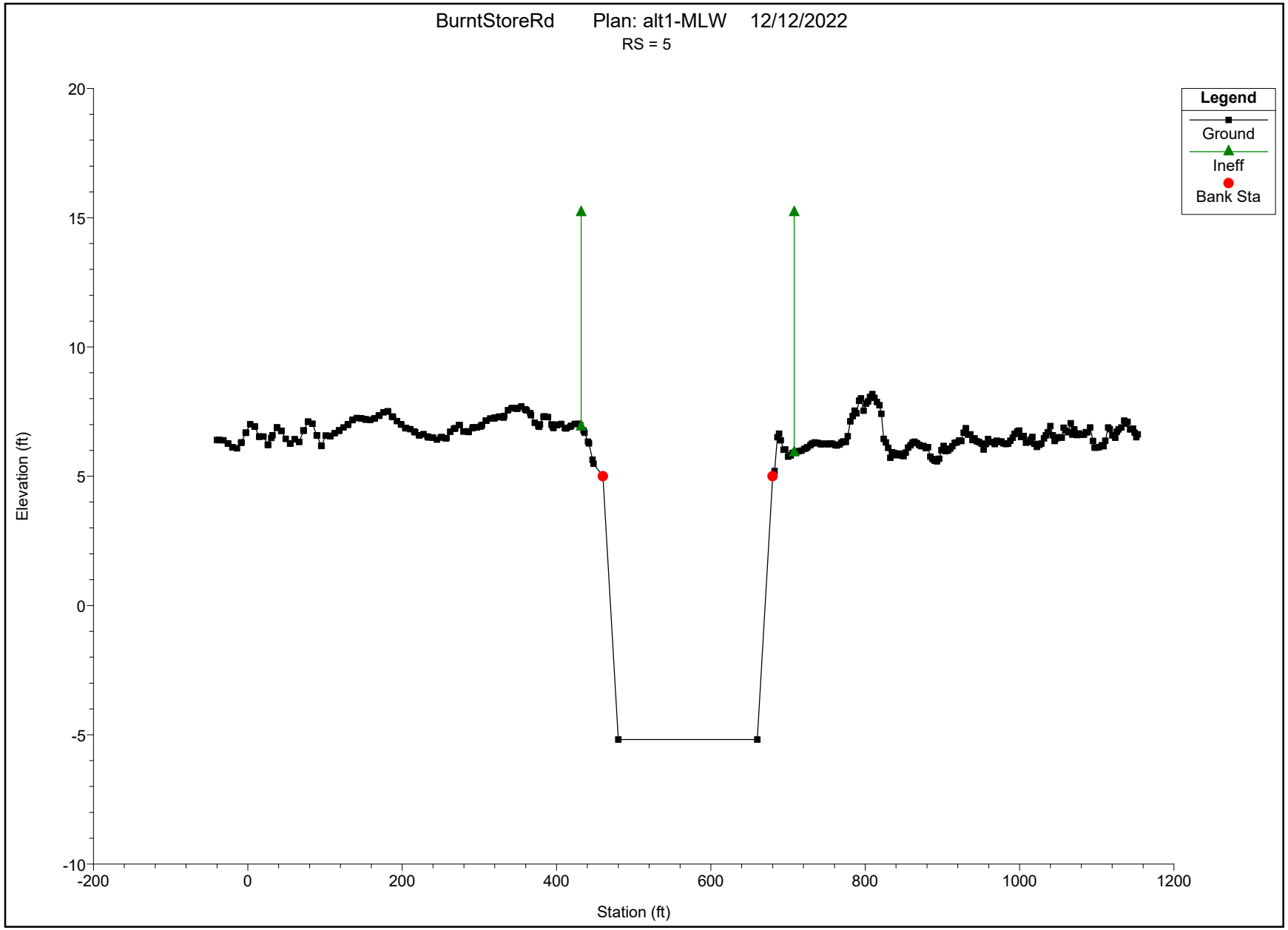
800
1000


BurntStoreRd Plan: alt1-MLW 12/12/2022
RS = 5
Legend
Ground
Ineff
Bank Sta
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Station (ft)
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0
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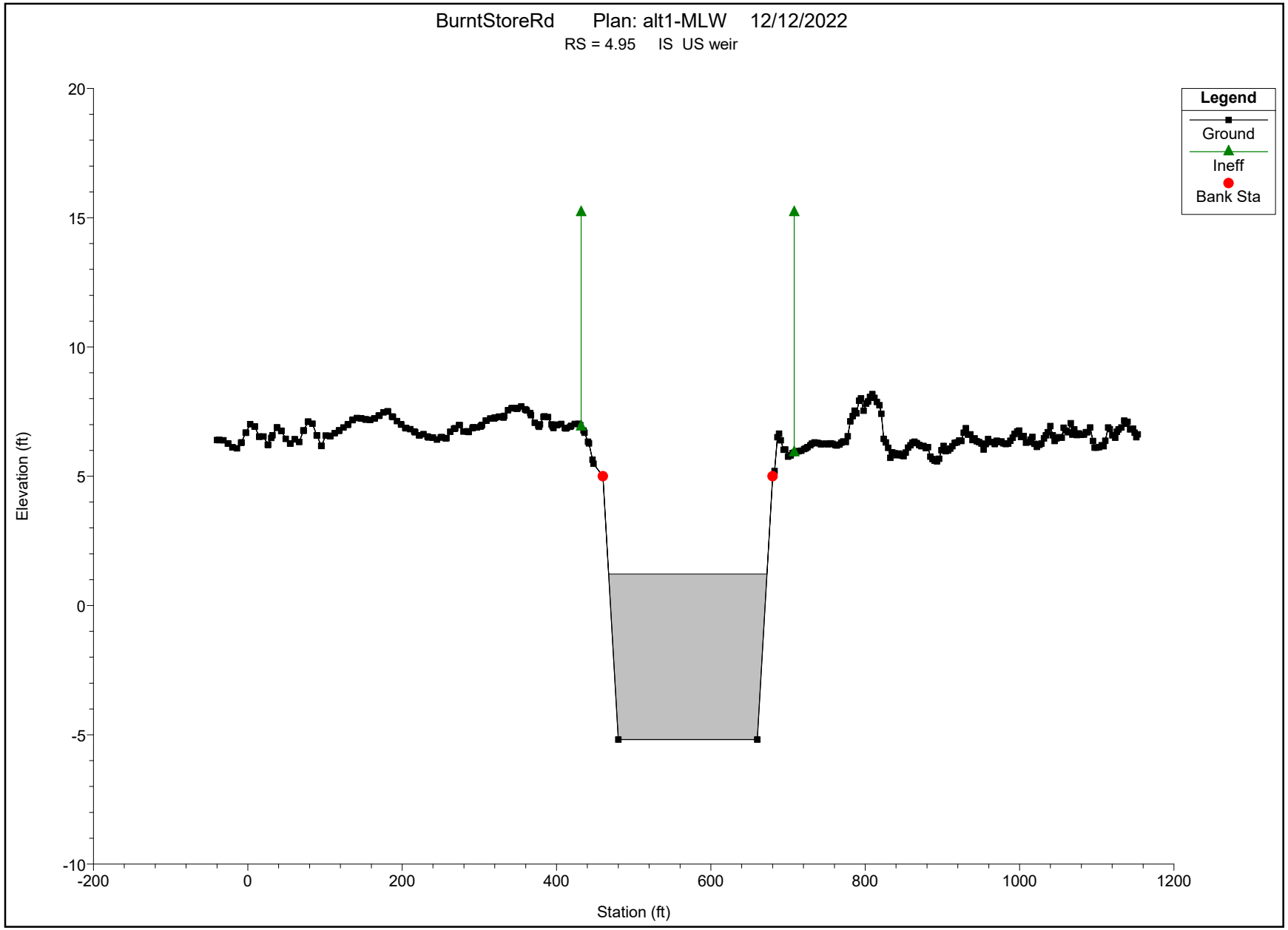
BurntStoreRd Plan: alt1-MLW 12/12/2022
RS = 4.95 IS US weir
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
20
15
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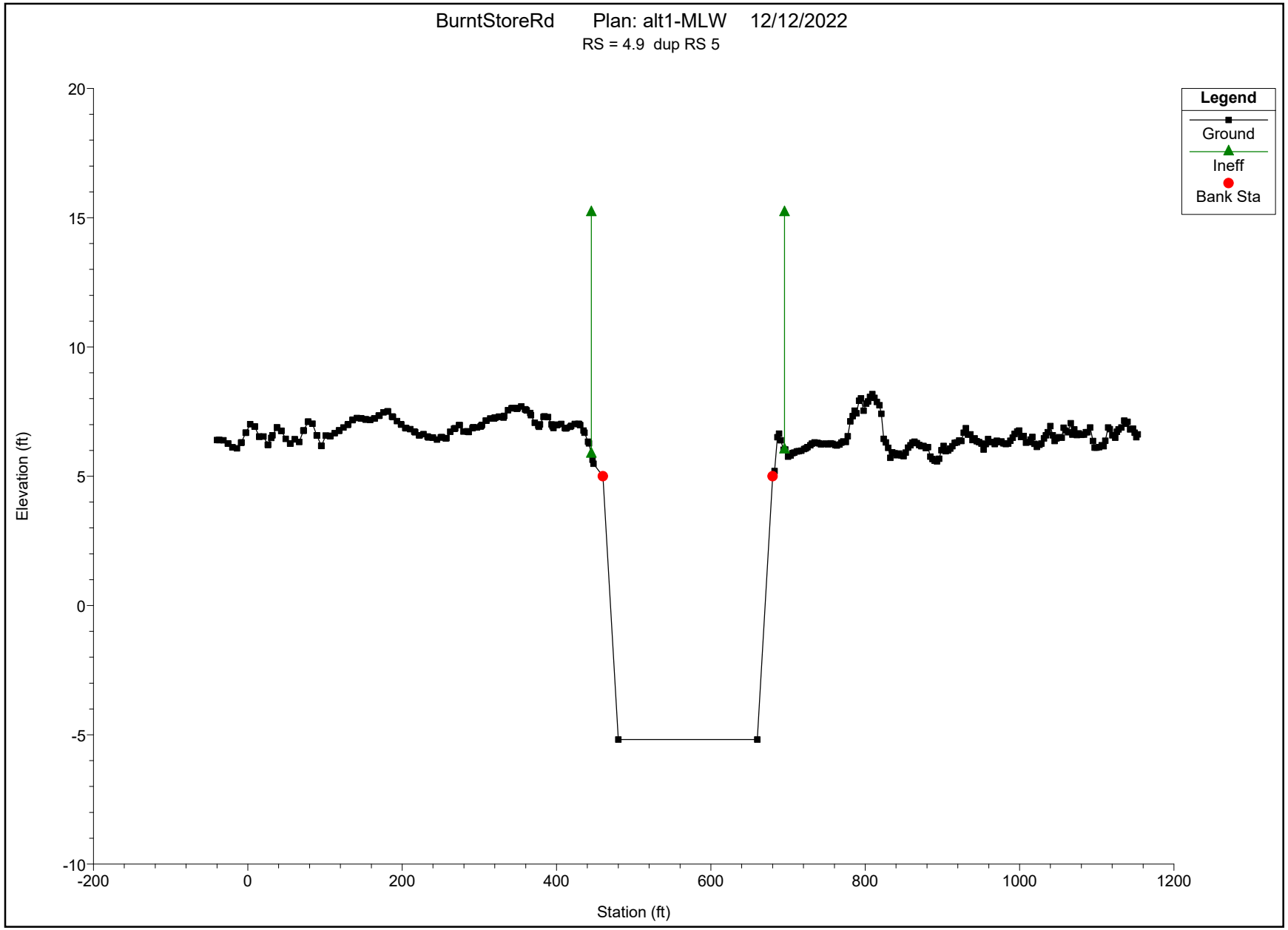
BurntStoreRd Plan: alt1-MLW 12/12/2022
RS = 4.9 dup RS 5
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
20
15
10
5
0
-5
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-200
0
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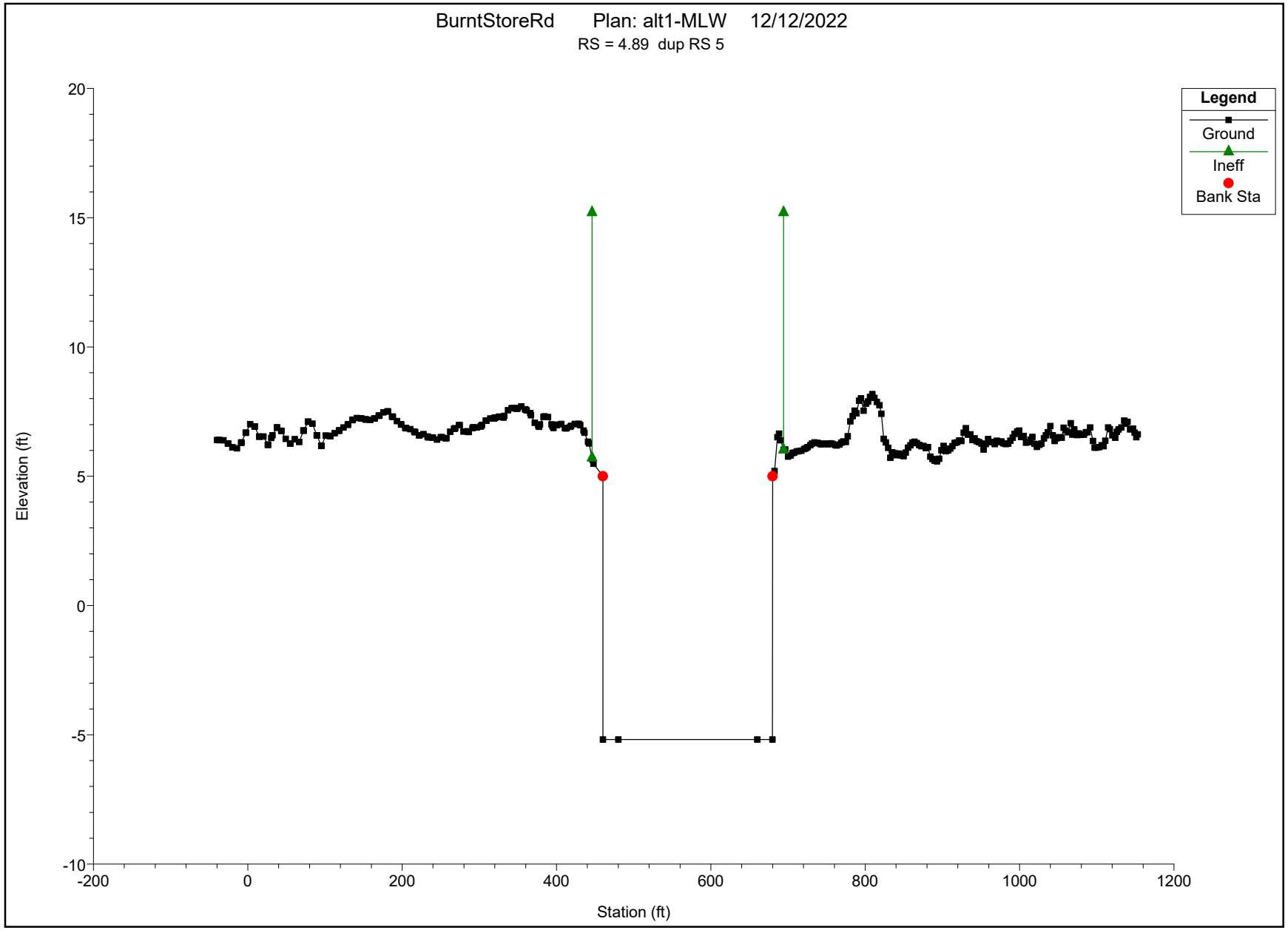
BurntStoreRd Plan: alt1-MLW 12/12/2022
RS = 4.89 dup RS 5
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
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15
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5
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1000
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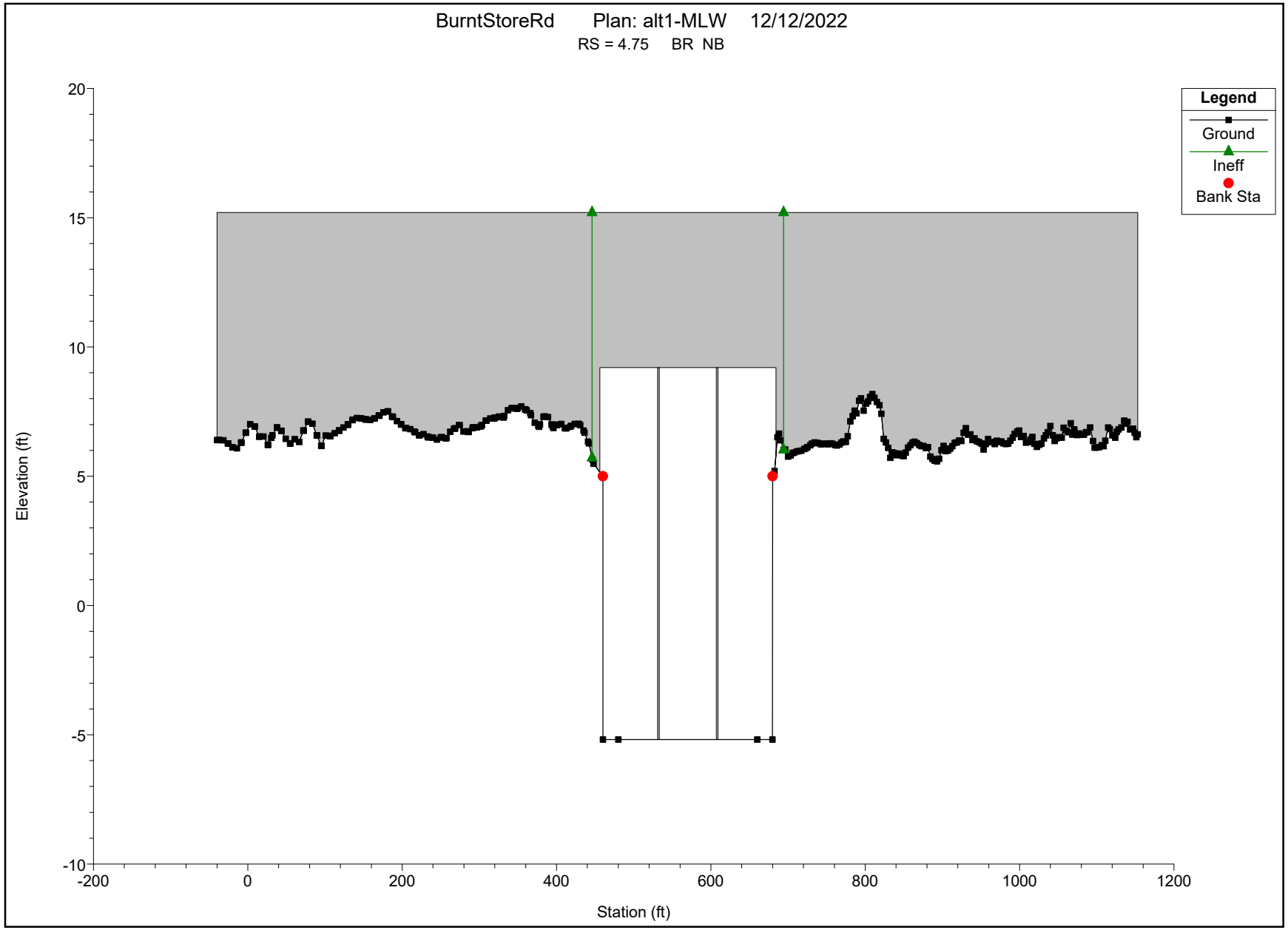
BurntStoreRd Plan: alt1-MLW 12/12/2022
RS = 4.75 BR NB
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
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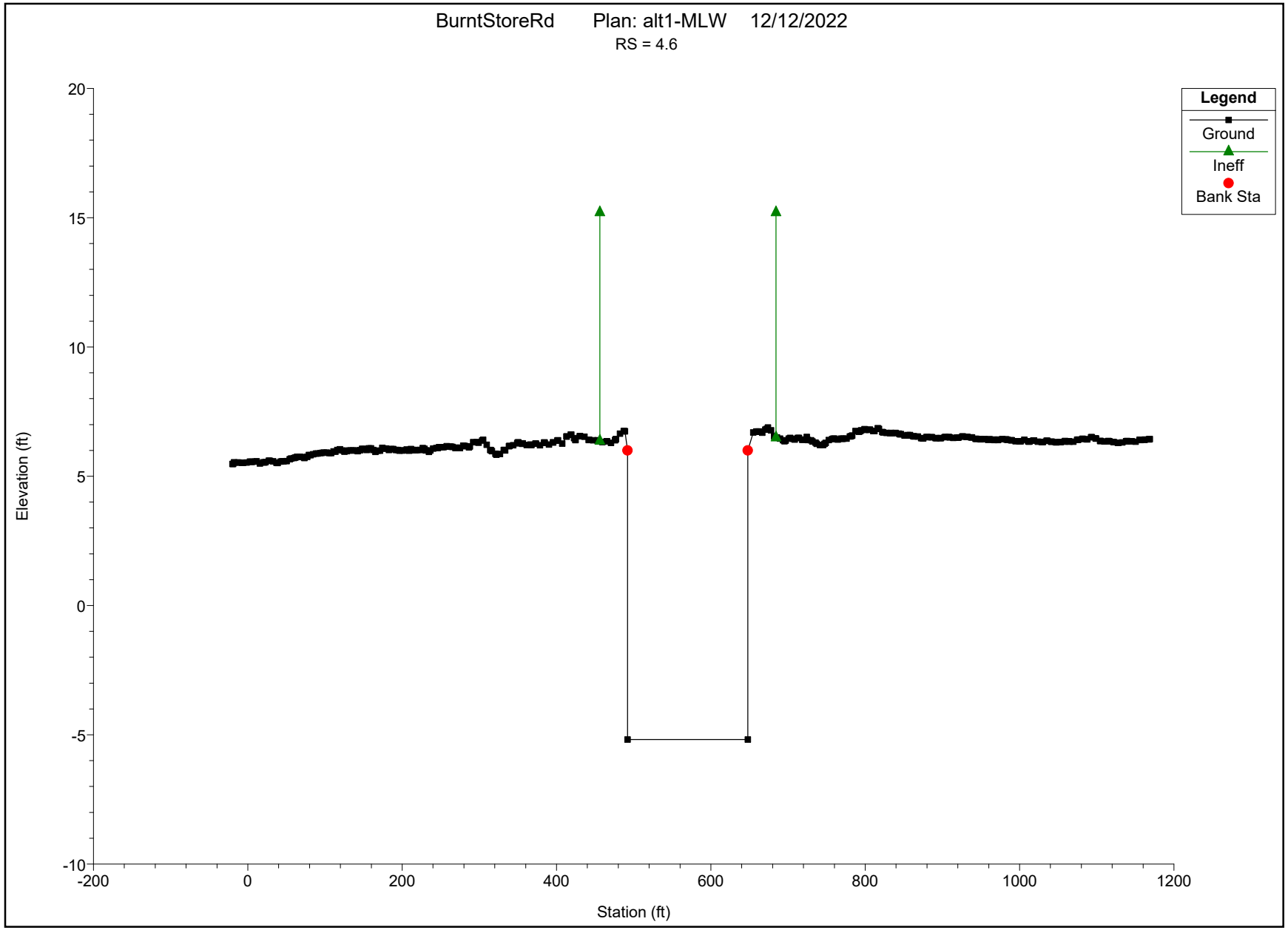
BurntStoreRd Plan: alt1-MLW 12/12/2022
RS = 4.6
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
20
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0
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-200
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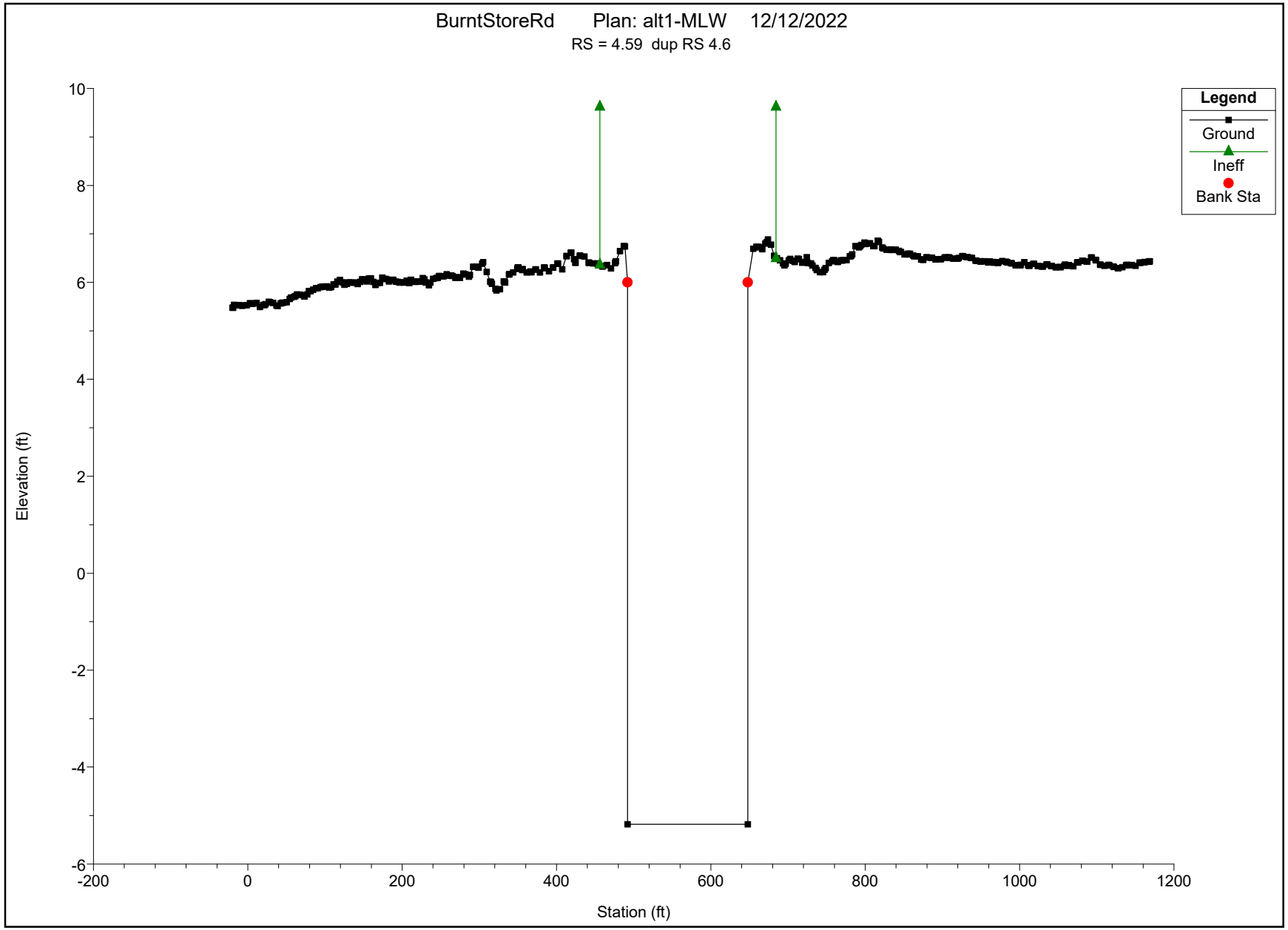
BurntStoreRd Plan: alt1-MLW 12/12/2022
RS = 4.59 dup RS 4.6
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
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6
4
2
0
-2
-4
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-200
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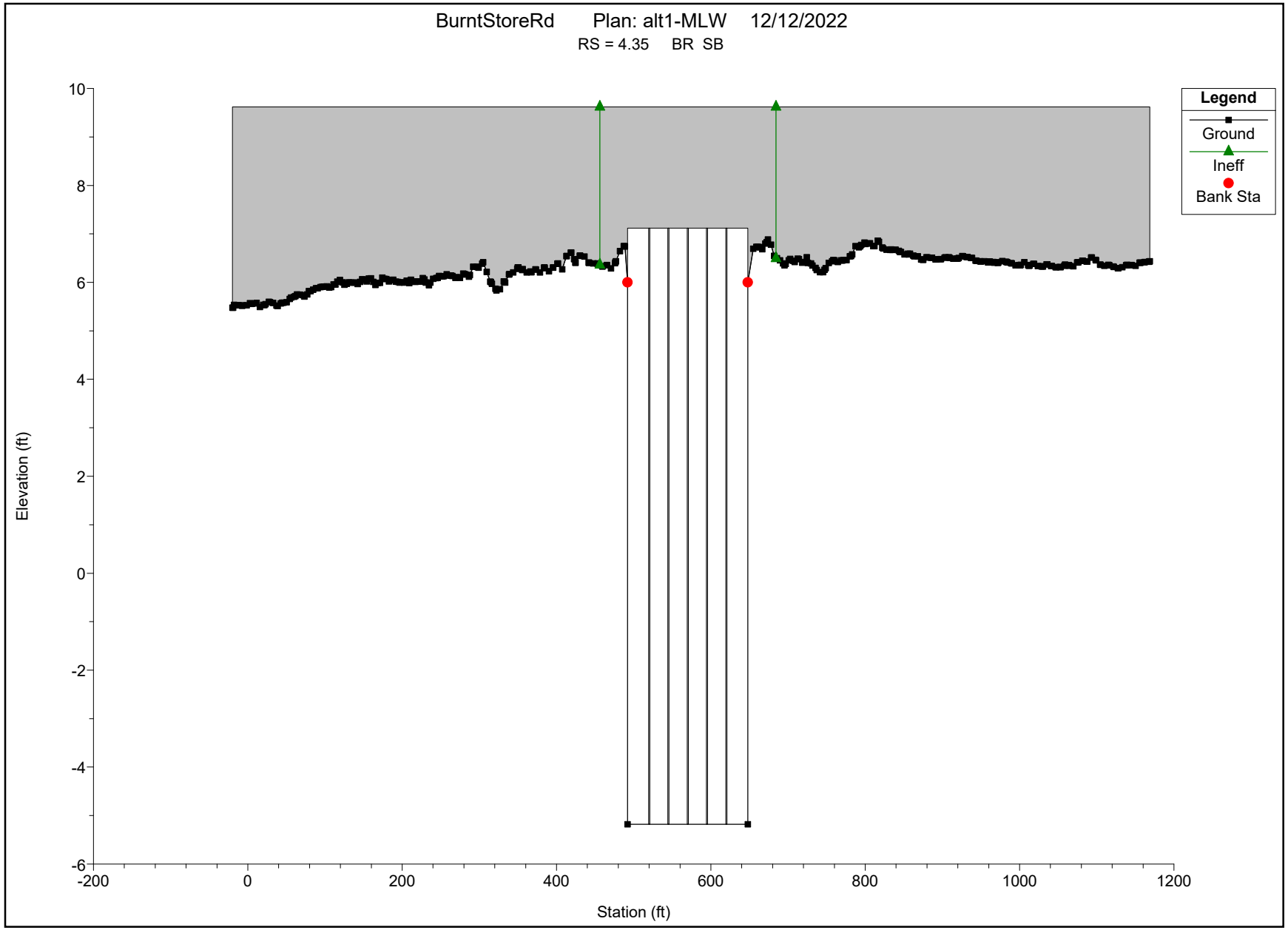
BurntStoreRd Plan: alt1-MLW 12/12/2022
RS = 4.35 BR SB
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
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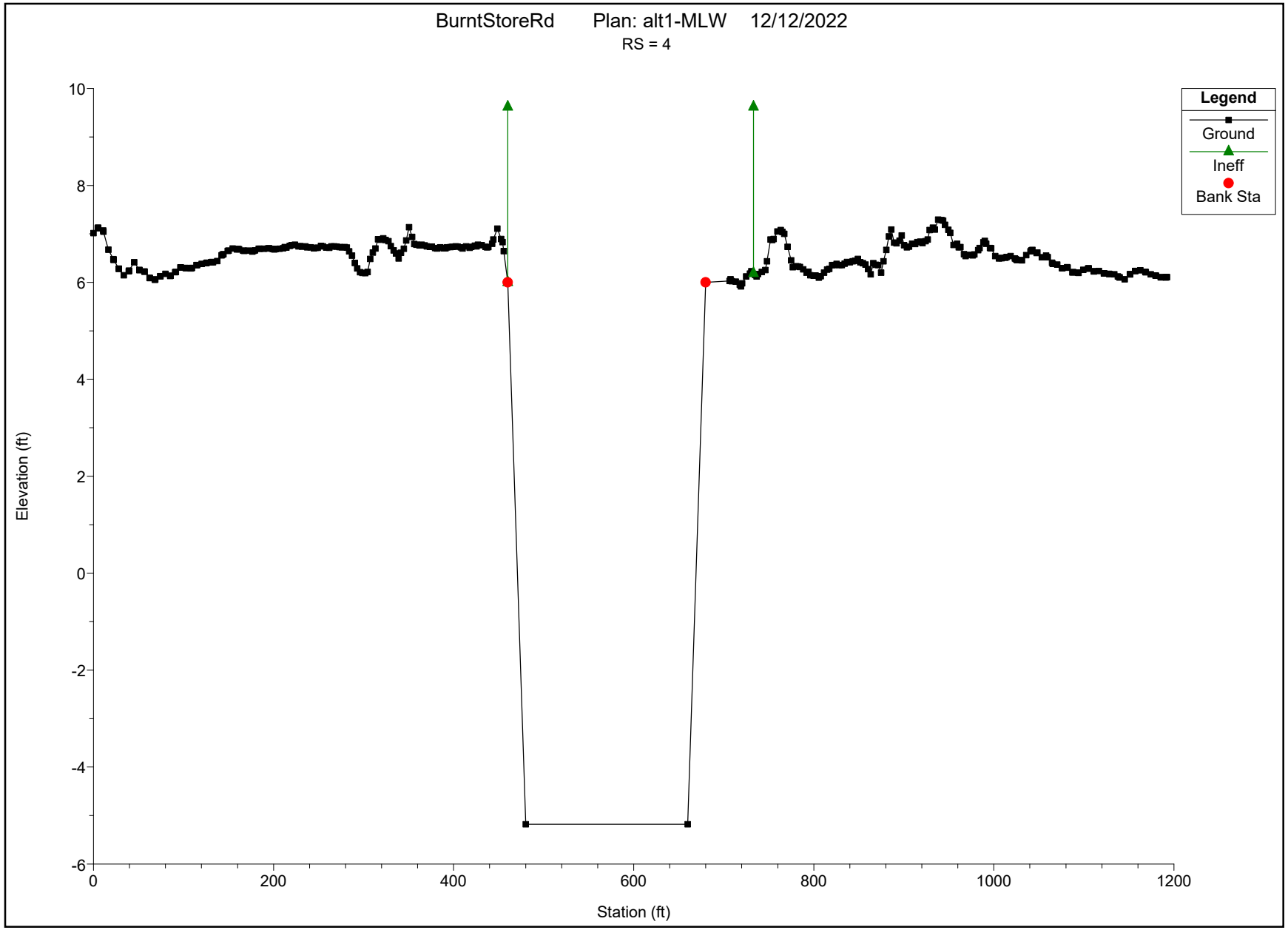
BurntStoreRd Plan: alt1-MLW 12/12/2022
RS = 4
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
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6
4
2
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-2
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-6
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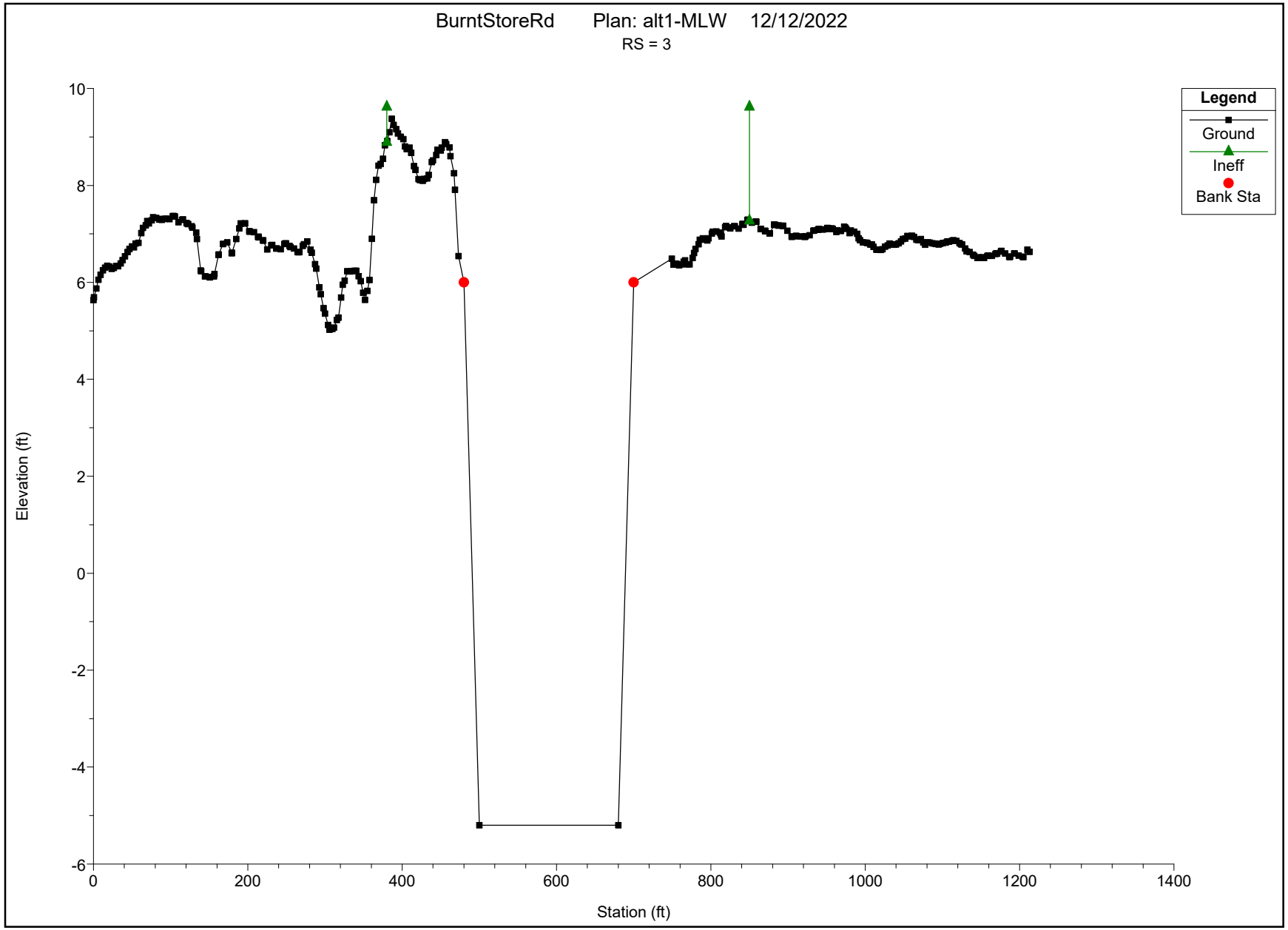
1200


BurntStoreRd Plan: alt1-MLW 12/12/2022
RS = 3
Legend
Ground
Ineff
Bank Sta
Elevation (ft)
Station (ft)
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4
2
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-2
-4
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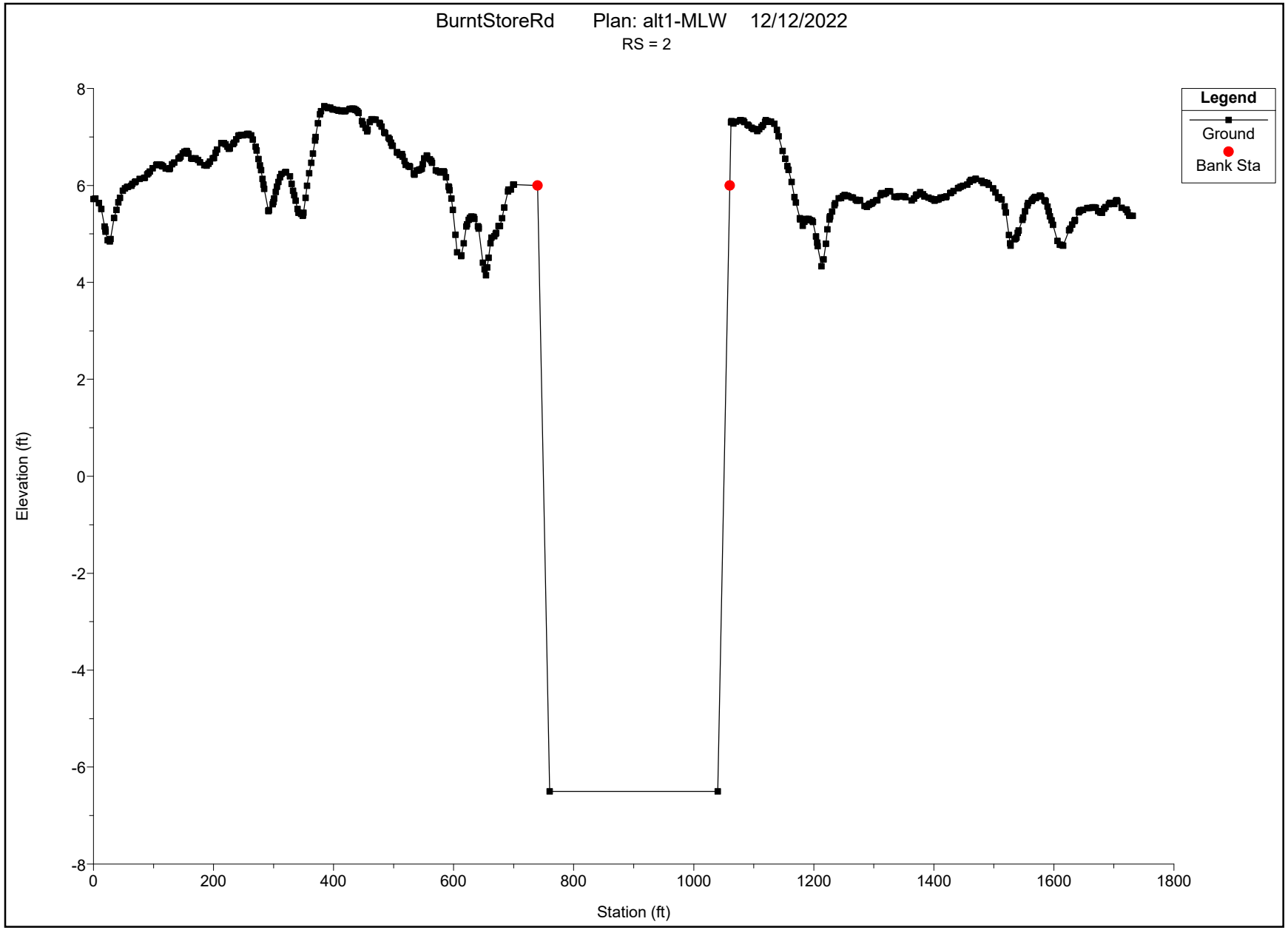
BurntStoreRd Plan: alt1-MLW 12/12/2022
RS = 2
Legend
Ground
Bank Sta
Elevation (ft)
Station (ft)
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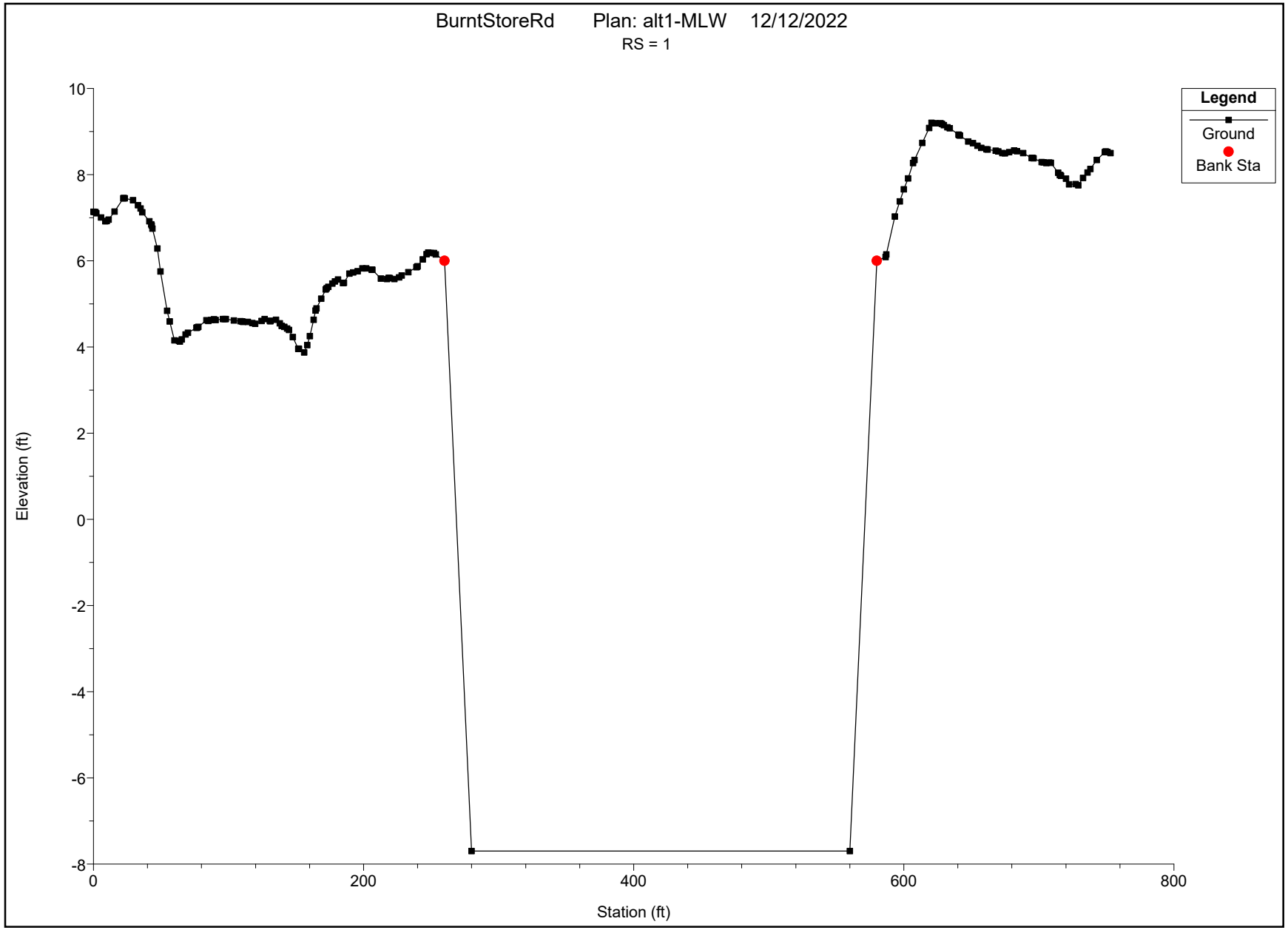
1800


BurntStoreRd Plan: alt1-MLW 12/12/2022
RS = 1
Legend
Ground
Bank Sta
Elevation (ft)
Station (ft)
10
8
6
4
2
0
-2
-4
-6
-8
0
200
400
600
800

Appendix C – Local Scour Calculations

.

FDOT Complex Pier Local Scour Calculator Version 5.0

Bridge Number:	120025	Route:	Burnt Store Rd
Pier Number:	2-6	Waterway:	Gator Slough
Return Period:	100-yr		
Calculated by:	MT	Date:	12/16/2022
Notes:			

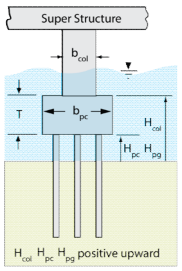
Input Data

Flow and Sediment Data

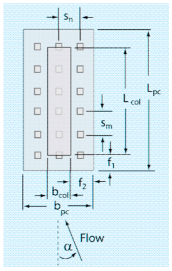
D50 (mm)	0.20
Angle of Attack, α (°)	5.00
y_0 (ft)	8.00
V (ft/s)	2.50

Column Data

b_{col} (ft)	No Column
l_{col} (ft)	
H_{col} (ft)	
Shape	



Front View



Top View

Pile Cap Data

b_{pc} (ft)	No Pile Cap
l_{pc} (ft)	
T (ft)	
H_{pc} (ft)	
Shape	

Pile Group Data

n	1
m	6
b (ft)	1.5
s_n (ft)	0.0
s_m (ft)	7.8
Shape	Rectangular

Output Data

Column Data

Kcols	No Column
Kcolp (ft)	
Kcolh	
fratio	
Kf	
Kcolloa	
D*col (ft)	

Pile Cap Data

Kpcs	No Pile Cap
Kpcp (ft)	
Kpch	
Kpcloa	
D*pc (ft)	

Pile Group Data

Kpgs	1.40
Kpgp (ft)	5.00
Kpgpe (ft)	2.34
Kpgh	1.00
D*pg (ft)	3.28

Effective Diameter of Complex Pier

D^*_{cs} = 3.3 ft

Local Scour at Complex Pier

y_{scs} = 4.5 ft

FDOT Complex Pier Local Scour Calculator Version 5.0

Bridge Number:	120025	Route:	Burnt Store Rd
Pier Number:	2-6	Waterway:	Gator Slough
Return Period:	500-yr		
Calculated by:	MT	Date:	12/16/2022
Notes:			

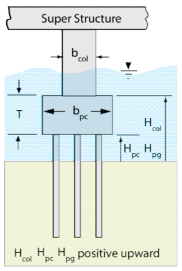
Input Data

Flow and Sediment Data

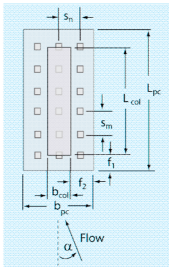
D50 (mm)	0.20
Angle of Attack, α (°)	5.00
y_0 (ft)	10.00
V (ft/s)	3.00

Column Data

b_{col} (ft)	No Column
l_{col} (ft)	
H_{col} (ft)	
Shape	



Front View



Top View

Pile Cap Data

b_{pc} (ft)	No Pile Cap
l_{pc} (ft)	
T (ft)	
H_{pc} (ft)	
Shape	

Pile Group Data

n	1
m	6
b (ft)	1.5
s_n (ft)	0.0
s_m (ft)	7.8
Shape	Rectangular

Output Data

Column Data

Kcols	No Column
Kcolp (ft)	
Kcolh	
fratio	
Kf	
Kcolloa	
D*col (ft)	

Pile Cap Data

Kpcs	No Pile Cap
Kpcp (ft)	
Kpch	
Kpcloa	
D*pc (ft)	

Pile Group Data

Kpgs	1.40
Kpgp (ft)	5.00
Kpgpe (ft)	2.34
Kpgh	1.00
D*pg (ft)	3.28

Effective Diameter of Complex Pier

D^*_{cs} = 3.3 ft

Local Scour at Complex Pier

y_{scs} = 4.8 ft

FDOT Complex Pier Local Scour Calculator Version 5.0 Option 1

Bridge Number:	10025	Route:	Burnt Store Rd
Pier Number:	2-3	Waterway:	Gator Slough
Return Period:	100-yr		
Calculated by:	MT	Date:	12/16/2022
Notes:			

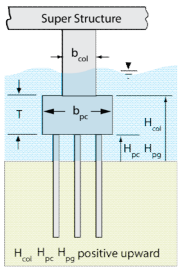
Input Data

Flow and Sediment Data

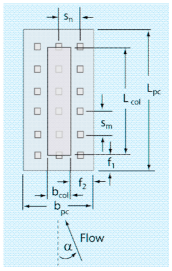
D50 (mm)	0.20
Angle of Attack, α (°)	5.00
y_0 (ft)	8.00
V (ft/s)	2.50

Column Data

b_{col} (ft)	No Column
l_{col} (ft)	
H_{col} (ft)	
Shape	



Front View



Top View

Pile Cap Data

b_{pc} (ft)	No Pile Cap
l_{pc} (ft)	
T (ft)	
H_{pc} (ft)	
Shape	

Pile Group Data

n	1
m	5
b (ft)	2.0
s_n (ft)	0.0
s_m (ft)	9.3
Shape	Rectangular

Output Data

Column Data

Kcols	No Column
Kcolp (ft)	
Kcolh	
fratio	
Kf	
Kcolloa	
D*col (ft)	

Pile Cap Data

Kpcs	No Pile Cap
Kpcp (ft)	
Kpch	
Kpcloa	
D*pc (ft)	

Pile Group Data

Kpgs	1.40
Kpgp (ft)	5.39
Kpgpe (ft)	2.93
Kpgh	1.00
D*pg (ft)	4.10

Effective Diameter of Complex Pier

D^*_{cs} = 4.1 ft

Local Scour at Complex Pier

y_{scs} = 5.3 ft

FDOT Complex Pier Local Scour Calculator Version 5.0

Option 1

Bridge Number:	10025	Route:	Burnt Store Rd
Pier Number:	2-3	Waterway:	Gator Slough
Return Period:	500-yr		
Calculated by:	MT	Date:	12/16/2022
Notes:			

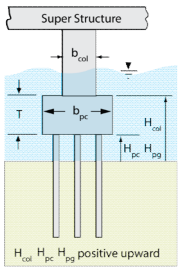
Input Data

Flow and Sediment Data

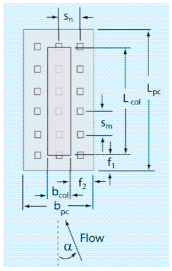
D50 (mm)	0.20
Angle of Attack, α (°)	5.00
y_0 (ft)	10.00
V (ft/s)	3.00

Column Data

b_{col} (ft)	No Column
l_{col} (ft)	
H_{col} (ft)	
Shape	



Front View



Top View

Pile Cap Data

b_{pc} (ft)	No Pile Cap
l_{pc} (ft)	
T (ft)	
H_{pc} (ft)	
Shape	

Pile Group Data

n	1
m	5
b (ft)	2.0
s_n (ft)	0.0
s_m (ft)	9.3
Shape	Rectangular

Output Data

Column Data

Kcols	No Column
Kcolp (ft)	
Kcolh	
fratio	
Kf	
Kcolloa	
D*col (ft)	

Pile Cap Data

Kpcs	No Pile Cap
Kpcp (ft)	
Kpch	
Kpcloa	
D*pc (ft)	

Pile Group Data

Kpgs	1.40
Kpgp (ft)	5.39
Kpgpe (ft)	2.93
Kpgh	1.00
D*pg (ft)	4.10

Effective Diameter of Complex Pier

D^*_{cs} = 4.1 ft

Local Scour at Complex Pier

y_{scs} = 5.6 ft

Appendix D – HEC-RAS Output

* The detailed HEC-RAS output reports for the steady-state runs are shown. The output tables of the unsteady-state runs are shown due to the length of the full output reports.

Existing: MHW+SLR

HEC-RAS HEC-RAS 6.3.1 September 2022
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

```
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: BurntStoreRd
Project File : BurntStoreRd.prj
Run Date and Time: 2/27/2023 2:14:01 PM

Project in English units

PLAN DATA

Plan Title: ext-MHW
Plan File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.p02

Geometry Title: ext
Geometry File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.g01

Flow Title : MHW-SLR
Flow File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.f02

Plan Summary Information:
Number of: Cross Sections = 10 Multiple Openings = 0
Culverts = 0 Inline Structures = 1
Bridges = 2 Lateral Structures = 0

Computational Information
Water surface calculation tolerance = 0.01
Critical depth calculation tolerance = 0.01
Maximum number of iterations = 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: Subcritical Flow

FLOW DATA

Flow Title: MHW-SLR
Flow File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.f02

Flow Data (cfs)

River	Reach	RS	2yr	10yr	50yr	100yr	500yr
GatorSlough	GatorSlough	6	523	1027	1469	1656	2137

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
GatorSlough	GatorSlough	2yr		Known WS = 1.14
GatorSlough	GatorSlough	10yr		Known WS = 1.14
GatorSlough	GatorSlough	50yr		Known WS = 1.14
GatorSlough	GatorSlough	100yr		Known WS = 1.14
GatorSlough	GatorSlough	500yr		Known WS = 1.14

GEOMETRY DATA

Geometry Title: ext
Geometry File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.g01

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 6

INPUT
Description:
Station Elevation Data num= 209
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
015.810931.51197215.095671.92719414.987436.63488811.569927.73904611.15956
10 11.0021 20 6 40 -5.18 240 -5.18 260 6
275.03386.596048278.10496.911404280.84567.456571 284.4386.734048286.6575 6.5253
288.35086.438589292.46936.274312297.86776.115646298.28126.105773298.5966 6.09227
300.94216.032612 304.093 5.95349308.84255.842399309.9049 5.819311.29755.814687
315.71685.739794319.08835.789398321.52865.818156324.21125.834075327.34055.825157
329.33415.874362333.15235.917914 338.1575.888027338.9642 5.88453 344.1596.053599
344.6946.071371344.76596.073395349.81576.008409350.57786.005298351.5771 6.01119
356.38966.023088360.05946.059943362.20156.055526365.18136.049381368.01336.058471
371.72726.010323373.82526.015296 375.4255.996241 379.6376.037355380.5469 6.05109
385.4489 6.08776387.30086.088549391.26076.094091395.91426.172667397.07266.182955
401.03716.267283402.88446.274123405.30096.325582408.68626.254711411.27416.201979
414.4986.053845418.72396.043635420.30996.038623421.51996.044792426.12186.094304
430.51766.101513431.93366.098101436.88875.982147437.74555.952732442.01165.853244
443.55735.746291447.1345 5.70066449.3692 5.74631452.25745.669144 455.1815.859259
457.38035.908049460.99295.938123462.50325.892483466.80475.785176472.44295.688177
472.61665.684698472.74895.682794473.73445.681715 477.864 5.64786478.41835.653611
479.14615.628216484.23025.317559488.10895.392888490.04215.438355492.57595.466997
495.85395.566537498.35485.440666501.66575.283715503.4777 5.24147507.47765.068574
512.72055.411178513.28945.513938513.72355.462605516.9512 5.5736518.84645.625485
519.10135.654751523.96945.908846524.91316.093889526.15036.010974 530.7255.962567
532.8651 5.87769536.53695.811903539.33385.797331542.3386 5.59487546.28325.880001
548.1505 6.05307 549.5755.993674553.9623 5.71997554.69795.715087559.7742 5.79931
559.82095.800912 560.168 5.80842564.9438 5.91833 565.5865.946776570.06675.885418
571.39795.894733575.18965.880164577.20975.730837580.31255.681929583.02165.751864
586.57255.878968588.83345.875722590.55835.930823594.64536.129188595.68136.138294
600.45726.376047600.80366.383942603.38486.457893606.25896.480248611.04115.945451
612.07075.888593613.4203 5.85749617.88265.916133 621.2876.031165623.69455.995027
626.85015.936799629.50635.889764631.53286.066576635.31826.450052640.27985.822372
641.135.726723646.60175.965977646.94195.985181652.02456.009749652.75375.991779
653.70966.046184658.56566.082474662.27036.140758664.37746.047635667.1393 6.29102
670.18936.738739672.51266.479763 675.9916.378997677.63016.409996681.80296.370804
687.27236.323199687.61476.319861 687.8766.290436689.81856.195624692.99896.054155
693.42666.014174698.12186.156136699.23856.202541703.24486.309748705.05036.285812
708.36766.052905710.86215.843195713.49055.776447 716.6745.804971718.61355.935477
722.48586.050159723.73646.232004728.29776.781312728.8593 6.78227733.03536.834223
734.10966.845201739.09757.196379739.91137.252722744.21927.342844745.72317.263627
747.69467.089917 751.5356.659433754.4094 6.78285757.34696.858228759.58796.877946
763.15887.036226767.83926.835387768.97066.703438774.55416.824662774.78246.822989
774.95676.827647776.25216.837759780.0796 6.80856780.59436.882199781.26896.851957
786.40617.051636790.32546.907259 792.2186.825349795.44836.539918798.02986.531018
801.41366.242802803.84176.264877805.6913 6.32447805.73866.327927

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 20 .03 260 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
20 260 325 325 325 .1 .3
Ineffective Flow num= 1
Sta L Sta R Elev Permanent
613805.7386 15.2 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 5

INPUT
Description:
Station Elevation Data num= 341
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085

158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 480 -5.18 660 -5.18
680 5 682.655.201958 686.27 6.51197 688.416.646765 690.576.395789
694.176.028631 696.356.031603 699.935.760584 703.495.806512 705.695.901203
707.915.912693 711.455.961146 713.695.971509 717.215.990309 720.726.055212
722.976.082868 725.256.130817 728.736.195405 731.026.266038 734.496.309402
737.94 6.29144 740.246.274554 742.576.240178 7466.245327 748.356.266367
751.766.240268 755.16 6.27674 757.526.253942 760.96.210955 763.286.191328
766.646.223729 769.046.303157 771.476.343992 774.8 6.32344 777.256.549578
780.567.120556 783.867.323772 786.327.537362 788.87.439013 792.087.919167
794.588.010237 797.84 7.53986 801.087.808455 803.597.897904 806.138.063661
809.358.175103 811.918.027006 815.117.873364 818.37.742838 820.877.416549
824.046.450529 826.636.309551 829.786.100852 832.395.714542 835.035.925725
838.155.892141 840.85.814042 843.915.882748 847.015.810428 849.675.774001
852.365.911799 855.436.110879 858.496.202652 861.196.296753 863.926.336125
866.956.283342 869.976.206295 872.76.162942 875.47 6.1759 878.466.089849
881.446.124307 884.225.761577 887.18 5.66601 889.985.603367 892.85.576531
895.74 5.67678 898.676.003618 901.516.169354 904.415.969446 907.275.999123
910.146.074927 913.036.166425 915.926.294439 918.796.310585 921.76.385173
924.556.361009 927.486.686382 930.316.855771 933.256.611907 936.066.621873
939.036.396754 941.826.462412 944.596.358266 947.586.322489 950.586.259845
953.346.032999 956.076.246696 959.16.442094 961.816.328462 964.856.318246
967.92 6.24518 970.616.370282 973.296.316515 976.38 6.34482 979.036.274142
982.146.248429 985.266.268067 987.9 6.36914 991.046.492695 993.666.640201
996.816.727577 999.41 6.76576 1001.996.520175 1005.176.559641 1008.366.302435
1010.936.318871 1014.146.419885 1016.696.516535 1019.216.257981 1022.456.131716
1025.76.219831 1028.216.266894 1031.486.463554 1033.97 6.58636 1036.446.704932
1039.736.938327 1043.046.583048 1045.496.363355 1047.926.464112 1051.256.509693
1054.596.492799 1057.016.879647 1059.46.764329 1062.776.699128 1066.15 7.05378
1068.526.615536 1070.886.816121 1074.286.596465 1076.626.654968 1080.046.600485
1083.486.611983 1085.86.703542 1088.16.703364 1091.566.890389 1095.046.365082
1097.326.108542 1099.586.104549 1103.086.125782 1106.596.200291 1108.84 6.16669
1111.066.376547 1114.66.888419 1116.816.823857 1120.366.587055 1123.936.489574
1126.126.720788 1128.286.815931 1131.876.883187 1135.487.156588 1137.637.033715
1139.767.101669 1143.396.811024 1147.046.838494 1149.15 6.68716 1151.246.511702
1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 32 32 32 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 432 15.2 F
708 1153.11 15.2 F

INLINE STRUCTURE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.95

INPUT
Description: US weir
Distance from Upstream XS = 28
Deck/Roadway Width = 2
Weir Coefficient = 2.6
Weir Embankment Coordinates num = 2
Sta Elev Sta Elev
460 1.22 700 1.22

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Weir crest shape = Broad Crested

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4.9

INPUT
Description: dup RS 5
Station Elevation Data num= 341
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085
158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 480 -5.18 660 -5.18
680 5 682.655.201958 686.27 6.51197 688.416.646765 690.576.395789
694.176.028631 696.356.031603 699.935.760584 703.495.806512 705.695.901203
707.915.912693 711.455.961146 713.695.971509 717.215.990309 720.726.055212
722.976.082868 725.256.130817 728.736.195405 731.026.266038 734.496.309402
737.94 6.29144 740.246.274554 742.576.240178 7466.245327 748.356.266367
751.766.240268 755.16 6.27674 757.526.253942 760.96.210955 763.286.191328
766.646.223729 769.046.303157 771.476.343992 774.8 6.32344 777.256.549578
780.567.120556 783.867.323772 786.327.537362 788.87.439013 792.087.919167
794.588.010237 797.84 7.53986 801.087.808455 803.597.897904 806.138.063661
809.358.175103 811.918.027006 815.117.873364 818.37.742838 820.877.416549
824.046.450529 826.636.309551 829.786.100852 832.395.714542 835.035.925725
838.155.892141 840.85.814042 843.915.882748 847.015.810428 849.675.774001
852.365.911799 855.436.110879 858.496.202652 861.196.296753 863.926.336125
866.956.283342 869.976.206295 872.76.162942 875.47 6.1759 878.466.089849
881.446.124307 884.225.761577 887.18 5.66601 889.985.603367 892.85.576531
895.74 5.67678 898.676.003618 901.516.169354 904.415.969446 907.275.999123
910.146.074927 913.036.166425 915.926.294439 918.796.310585 921.76.385173
924.556.361009 927.486.686382 930.316.855771 933.256.611907 936.066.621873
939.036.396754 941.826.462412 944.596.358266 947.586.322489 950.586.259845
953.346.032999 956.076.246696 959.16.442094 961.816.328462 964.856.318246
967.92 6.24518 970.616.370282 973.296.316515 976.38 6.34482 979.036.274142
982.146.248429 985.266.268067 987.9 6.36914 991.046.492695 993.666.640201
996.816.727577 999.41 6.76576 1001.996.520175 1005.176.559641 1008.366.302435
1010.936.318871 1014.146.419885 1016.696.516535 1019.216.257981 1022.456.131716
1025.76.219831 1028.216.266894 1031.486.463554 1033.97 6.58636 1036.446.704932
1039.736.938327 1043.046.583048 1045.496.363355 1047.926.464112 1051.256.509693
1054.596.492799 1057.016.879647 1059.46.764329 1062.776.699128 1066.15 7.05378
1068.526.615536 1070.886.816121 1074.286.596465 1076.626.654968 1080.046.600485
1083.486.611983 1085.86.703542 1088.16.703364 1091.566.890389 1095.046.365082
1097.326.108542 1099.586.104549 1103.086.125782 1106.596.200291 1108.84 6.16669
1111.066.376547 1114.66.888419 1116.816.823857 1120.366.587055 1123.936.489574
1126.126.720788 1128.286.815931 1131.876.883187 1135.487.156588 1137.637.033715
1139.767.101669 1143.396.811024 1147.046.838494 1149.15 6.68716 1151.246.511702
1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 1 1 1 .3 .5
Ineffective Flow num= 2

```
  Sta L   Sta R    Elev  Permanent
    -40    445   15.2      F
 695.25 1153.11   15.2      F

CROSS SECTION


RIVER: GatorSlough
REACH: GatorSlough        RS: 4.89

INPUT
Description: dup RS 5
Station Elevation Data    num=     343
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
     -40 6.40475  -37.24   6.399  -37.026.398235  -31.486.389614   -25.96.267672
  -25.726.265655  -25.546.264254  -19.966.117541   -19.86.120116   -14.26.079359
   -8.57 6.29748   -8.446.299347   -8.316.305284   -2.686.683675   -2.576.686794
   3.087.012018    8.776.919583    8.846.921832    8.916.919635   14.596.536195
  14.646.532438   20.356.542585    26.16.220605   26.116.220217   26.126.220474
  30.366.487984   31.87 6.58304   37.61 6.88196   37.636.881915   37.656.881639
  43.396.760462   43.436.758618   49.156.448464   54.836.260639   54.916.260697
  54.996.259161   60.676.426044   60.776.428965   66.436.325921   72.05 6.76737
  72.196.768289   72.336.769689   77.947.109261    78.17.112264   83.77.031016
  89.27   6.583   89.466.575857   89.656.579198   95.226.181042   95.436.172585
 100.986.575974  106.496.550959  106.74 6.55113  106.996.567522   112.56.664949
 117.976.762691  118.266.780375  118.556.769499  124.02 6.88309  129.466.984616
 129.787.006915  130.117.015774  135.547.173774  135.897.185001   141.37.248809
 146.677.243085  147.057.232946  152.417.197012  152.817.196423  153.217.197085
 158.577.179951  163.897.234093  164.337.236252  169.647.340766  170.097.344185
 170.55 7.34699  175.857.469349  181.127.507696  181.617.506649  186.867.305055
 187.377.303405  187.897.290659  193.137.138133  198.347.011026  198.896.991798
 204.086.865872  204.656.859518  205.226.858679   210.46.825923  215.566.734319
 216.166.715126  216.776.707654  221.926.586567  222.556.581397  227.686.629734
 232.786.537021  233.446.524528  234.116.505478   239.26.504333  239.896.489673
 244.966.417924     2506.498955  250.726.512369  251.446.513701  256.486.468071
 257.226.472039  262.246.717733  267.236.837183     2686.837797  268.786.861415
 273.766.980472  274.566.975163  279.516.735236  284.446.738209  285.276.719759
 286.11 6.71338  291.036.861556  291.896.891734  296.796.889187  301.676.927267
 302.556.950416  303.446.990143  308.31 7.15539  309.227.148989  314.07 7.23408
 318.897.236662  319.837.272815  320.787.271133  325.597.308398  326.567.297071
 331.357.273354  332.347.332561  337.117.555247  341.857.625834  342.867.641699
 347.597.627559  348.62 7.61434  349.67 7.64108  354.387.701519  359.077.595617
 360.147.571332  361.22 7.55008   365.97.442764     3677.365368  371.667.071505
 376.296.962797  377.426.913003  378.567.006341  383.187.296581  384.34 7.31621
 388.94 7.29075  393.527.005053   394.7 6.92965   395.96.867858  400.466.976988
 401.686.998838  406.227.026398  410.736.872643  411.976.853057  413.226.870495
 417.736.918495     4196.953634  423.497.026543  427.957.020765  429.257.024062
 430.566.980596  435.016.766422  436.346.688295  440.776.334496  442.126.276613
 446.535.638418   447.95.484687     460      5   460.1   -5.18     480   -5.18
    660   -5.18   679.9   -5.18     680      5  682.655.201958  686.27 6.51197
 688.416.646765  690.576.395789  694.176.028631  696.356.031603  699.935.760584
 703.495.806512  705.695.901203  707.915.912693  711.455.961146  713.695.971509
 717.215.990309  720.726.055212  722.976.082868  725.256.130817  728.736.195405
 731.026.266038  734.496.309402  737.94 6.29144  740.246.274554  742.576.240178
   7466.245327  748.356.266367  751.766.240268  755.16 6.27674  757.526.253942
  760.96.210955  763.286.191328  766.646.223729  769.046.303157  771.476.343992
  774.8 6.32344  777.256.549578  780.567.120556  783.867.323772  786.327.537362
  788.87.439013  792.087.919167  794.588.010237  797.84 7.53986  801.087.808455
 803.597.897904  806.138.063661  809.358.175103  811.918.027006  815.117.873364
  818.37.742838  820.877.416549  824.046.450529  826.636.309551  829.786.100852
 832.395.714542  835.035.925725  838.155.892141   840.85.814042  843.915.882748
 847.015.810428  849.675.774001  852.365.911799  855.436.110879  858.496.202652
 861.196.296753  863.926.336125  866.956.283342  869.976.206295   872.76.162942
 875.47  6.1759  878.466.089849  881.446.124307  884.225.761577  887.18 5.66601
 889.985.603367   892.85.576531  895.74 5.67678  898.676.003618  901.516.169354
 904.415.969446  907.275.999123  910.146.074927  913.036.166425  915.926.294439
 918.796.310585   921.76.385173  924.556.361009  927.486.686382  930.316.855771
 933.256.611907  936.066.621873  939.036.396754  941.826.462412  944.596.358266
 947.586.322489  950.586.259845  953.346.032999  956.076.246696   959.16.442094
 961.816.328462  964.856.318246  967.92 6.24518  970.616.370282  973.296.316515
 976.38 6.34482  979.036.274142  982.146.248429  985.266.268067   987.9 6.36914
 991.046.492695  993.666.640201  996.816.727577  999.41 6.76576 1001.996.520175
1005.176.559641 1008.366.302435 1010.936.318871 1014.146.419885 1016.696.516535
1019.216.257981 1022.456.131716  1025.76.219831 1028.216.266894 1031.486.463554
1033.97 6.58636 1036.446.704932 1039.736.938327 1043.046.583048 1045.496.363355
1047.926.464112 1051.256.509693 1054.596.492799 1057.016.879647  1059.46.764329
1062.776.699128 1066.15 7.05378 1068.526.615536 1070.886.816121 1074.286.596465
1076.626.654968 1080.046.600485 1083.486.611983  1085.86.703542  1088.16.703364
1091.566.890389 1095.046.365082 1097.326.108542 1099.586.104549 1103.086.125782
1106.596.200291 1108.84 6.16669 1111.066.376547  1114.66.888419 1116.816.823857
1120.366.587055 1123.936.489574 1126.126.720788 1128.286.815931 1131.876.883187
1135.487.156588 1137.637.033715 1139.767.101669 1143.396.811024 1147.046.838494
1149.15 6.68716 1151.246.511702 1153.116.624816

Manning's n Values        num=      3
    Sta   n Val     Sta   n Val     Sta   n Val
    -40     .2     460    .03     680     .2
```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 94 94 94 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 446 15.2 F
694.25 1153.11 15.2 F

BRIDGE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.75

INPUT
Description: NB
Distance from Upstream XS = 10
Deck/Roadway Width = 62.5
Weir Coefficient = 2.6
Upstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-41 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1154 15.2

Upstream Bridge Cross Section Data
Station Elevation Data num= 343
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085
158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 460.1 -5.18 480 -5.18
660 -5.18 679.9 -5.18 680 5 682.655.201958 686.27 6.51197
688.416.646765 690.576.395789 694.176.028631 696.356.031603 699.935.760584
703.495.806512 705.695.901203 707.915.912693 711.455.961146 713.695.971509
717.215.990309 720.726.055212 722.976.082868 725.256.130817 728.736.195405
731.026.266038 734.496.309402 737.94 6.29144 740.246.274554 742.576.240178
7466.245327 748.356.266367 751.766.240268 755.16 6.27674 757.526.253942
760.96.210955 763.286.191328 766.646.223729 769.046.303157 771.476.343992
774.8 6.32344 777.256.549578 780.567.120556 783.867.323772 786.327.537362
788.87.439013 792.087.919167 794.588.010237 797.84 7.53986 801.087.808455
803.597.897904 806.138.063661 809.358.175103 811.918.027006 815.117.873364
818.37.742838 820.877.416549 824.046.450529 826.636.309551 829.786.100852
832.395.714542 835.035.925725 838.155.892141 840.85.814042 843.915.882748
847.015.810428 849.675.774001 852.365.911799 855.436.110879 858.496.202652
861.196.296753 863.926.336125 866.956.283342 869.976.206295 872.76.162942
875.47 6.1759 878.466.089849 881.446.124307 884.225.761577 887.18 5.66601
889.985.603367 892.85.576531 895.74 5.67678 898.676.003618 901.516.169354
904.415.969446 907.275.999123 910.146.074927 913.036.166425 915.926.294439
918.796.310585 921.76.385173 924.556.361009 927.486.686382 930.316.855771
933.256.611907 936.066.621873 939.036.396754 941.826.462412 944.596.358266
947.586.322489 950.586.259845 953.346.032999 956.076.246696 959.16.442094
961.816.328462 964.856.318246 967.92 6.24518 970.616.370282 973.296.316515
976.38 6.34482 979.036.274142 982.146.248429 985.266.268067 987.9 6.36914
991.046.492695 993.666.640201 996.816.727577 999.41 6.76576 1001.996.520175
1005.176.559641 1008.366.302435 1010.936.318871 1014.146.419885 1016.696.516535
1019.216.257981 1022.456.131716 1025.76.219831 1028.216.266894 1031.486.463554
1033.97 6.58636 1036.446.704932 1039.736.938327 1043.046.583048 1045.496.363355

1047.926.464112 1051.256.509693 1054.596.492799 1057.016.879647 1059.46.764329
1062.776.699128 1066.15 7.05378 1068.526.615536 1070.886.816121 1074.286.596465
1076.626.654968 1080.046.600485 1083.486.611983 1085.86.703542 1088.16.703364
1091.566.890389 1095.046.365082 1097.326.108542 1099.586.104549 1103.086.125782
1106.596.200291 1108.84 6.16669 1111.066.376547 1114.66.888419 1116.816.823857
1120.366.587055 1123.936.489574 1126.126.720788 1128.286.815931 1131.876.883187
1135.487.156588 1137.637.033715 1139.767.101669 1143.396.811024 1147.046.838494
1149.15 6.68716 1151.246.511702 1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Coeff Contr. Expan.
460 680 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 446 15.2 F
694.25 1153.11 15.2 F

Downstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-21 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1200 15.2

Downstream Bridge Cross Section Data
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749
79.04 5.82 81.15 5.819 84.8 5.85 88.36 5.88 90.55 5.88
94.06 5.9 96.31 5.909 98.6 5.914 102.07 5.915 105.46 5.893
107.83 5.902 111.16 5.957 113.59 5.955 116.07 6.015 119.35 6.047
122.55 6.001 125.11 5.951 128.25 5.972 130.87 5.999 133.54 5.995
136.63 5.995 139.65 5.995 142.39 5.967 145.35 6.01 148.15 6.064
151.01 6.052 153.91 6.021 156.75 6.078 159.66 6.084 162.64 6.012
165.42 5.945 168.14 5.985 171.18 5.992 174.29 6.096 176.94 6.073
179.54 6.067 182.7 6.019 185.93 6.051 188.46 6.052 191.76 6.015
194.22 6.012 196.64 5.993 199.98 5.999 202.34 5.994 205.74 6.035
209.22 5.986 211.5 6.054 213.74 6.021 217.26 6.011 219.43 6.018
223.01 6.016 226.68 6.087 228.77 6.061 230.82 5.997 234.53 5.941
236.52 5.997 240.29 6.074 244.15 6.09 246.06 6.094 247.92 6.13
251.82 6.123 253.62 6.125 257.58 6.167 261.62 6.141 263.34 6.143
265.02 6.134 269.1 6.094 270.72 6.109 274.86 6.092 279.08 6.181
280.62 6.17 282.12 6.162 286.38 6.116 287.82 6.152 292.13 6.32
296.54 6.32 297.89 6.313 299.21 6.301 303.65 6.384 304.91 6.413
309.41 6.214 314.01 6.016 315.17 6.003 316.3 5.973 320.93 5.867
322 5.835 326.69 5.859 331.48 6.021 332.45 6.017 333.4 5.997
338.21 6.159 339.1 6.17 343.97 6.204 348.94 6.277 349.73 6.307
350.5 6.307 355.48 6.252 356.19 6.272 361.24 6.207 366.4 6.226
367 6.211 367.59 6.211 372.76 6.268 373.29 6.262 378.52 6.203
383.87 6.304 384.28 6.308 384.69 6.295 390.04 6.229 395.51 6.305
395.8 6.309 401.34 6.384 401.56 6.387 401.79 6.389 407.32 6.268
412.98 6.54 413.08 6.541 418.81 6.612 418.85 6.614 418.88 6.613
422.55 6.478 424.57 6.404 424.6 6.404 430.27 6.549 430.36 6.55
430.44 6.549 436.12 6.532 441.67 6.403 441.88 6.407 442.09 6.406
447.64 6.389 453.07 6.385 453.4 6.389 453.73 6.385 459.16 6.331
459.55 6.328 464.92 6.356 465.38 6.356 470.68 6.287 475.87 6.396
476.44 6.422 477.02 6.437 482.2 6.644 487.26 6.749 487.95 6.743
488.66 6.741 492 6 492.1 -5.18 647.9 -5.18 648 6
654.97 6.693 658.94 6.731 660.73 6.732 662.55 6.727 663.1 6.721
666.49 6.682 670.45 6.8 672.25 6.83 674.05 6.883 678.01 6.775
681.99 6.549 683.76 6.491 685.53 6.5 689.52 6.452 693.54 6.392
695.28 6.352 697.02 6.38 701.04 6.456 702.76 6.485 706.8 6.443
708.51 6.421 712.56 6.488 714.26 6.48 718.32 6.406 720 6.419
724.08 6.519 725.75 6.402 729.84 6.393 731.49 6.347 735.6 6.297
737.24 6.256 741.36 6.212 745.51 6.211 747.12 6.257 748.73 6.295
752.87 6.399 757.05 6.434 758.63 6.46 760.21 6.454 764.39 6.422
768.59 6.455 770.15 6.451 771.7 6.459 775.91 6.458 780.14 6.538
781.67 6.544 783.2 6.575 787.43 6.747 791.69 6.725 793.19 6.744
794.69 6.774 798.95 6.819 800.43 6.792 804.71 6.799 806.18 6.804
810.47 6.747 811.92 6.746 816.22 6.859 817.66 6.836 821.98 6.716
823.41 6.698 827.74 6.674 832.1 6.669 833.5 6.68 834.9 6.669
839.26 6.672 843.65 6.648 845.02 6.625 846.39 6.627 850.78 6.574
855.2 6.59 856.54 6.575 857.88 6.592 862.3 6.551 863.63 6.537
868.06 6.537 872.52 6.472 873.82 6.47 875.12 6.466 879.58 6.517
880.86 6.513 885.33 6.51 886.6 6.507 891.09 6.473 892.35 6.474
896.85 6.478 898.09 6.477 902.61 6.508 903.84 6.52 908.37 6.516
909.58 6.502 914.13 6.486 918.71 6.49 919.89 6.491 921.08 6.501
925.65 6.542 926.82 6.538 931.41 6.521 932.57 6.523 937.17 6.501
938.31 6.501 942.93 6.451 944.06 6.443 948.68 6.434 949.79 6.432
954.44 6.436 959.12 6.412 960.2 6.426 961.29 6.428 965.96 6.42

967.03 6.405 971.72 6.4 972.78 6.415 977.48 6.441 982.21 6.426
983.24 6.419 984.27 6.41 989 6.394 990.02 6.389 994.76 6.351
999.53 6.355 1000.52 6.351 1001.51 6.359 1006.28 6.413 1011.08 6.356
1012.03 6.34 1012.99 6.347 1017.79 6.38 1018.73 6.38 1023.55 6.339
1028.4 6.325 1029.31 6.331 1030.23 6.329 1035.07 6.37 1035.97 6.37
1040.83 6.338 1041.72 6.336 1046.59 6.315 1047.46 6.313 1052.35 6.317
1053.21 6.315 1058.11 6.341 1058.96 6.367 1063.87 6.355 1064.7 6.34
1069.63 6.333 1074.59 6.41 1075.39 6.409 1076.19 6.417 1081.14 6.443
1081.93 6.444 1086.9 6.429 1087.68 6.432 1092.66 6.514 1093.42 6.515
1098.42 6.464 1099.17 6.456 1104.18 6.364 1104.91 6.362 1109.94 6.343
1115 6.361 1115.7 6.352 1116.4 6.352 1121.46 6.325 1122.15 6.319
1127.22 6.291 1127.9 6.292 1132.98 6.314 1138.1 6.354 1138.74 6.355
1139.39 6.362 1144.49 6.356 1145.12 6.355 1150.25 6.34 1155.41 6.406
1156.01 6.407 1156.61 6.403 1161.77 6.414 1162.36 6.418 1167.53 6.424
1168.11 6.431 1168.83 6.436

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-20 .2 492 .03 648 .2

Bank Sta: Left Right Coeff Contr. Expan.
492 648 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-20 456 15.2 F
684.25 1168.83 15.2 F

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 2

Pier Data
Pier Station Upstream= 532 Downstream= 532
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Pier Data
Pier Station Upstream= 608.1 Downstream= 608.1
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Highest Energy Answer

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4.6

INPUT
Description:
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749

```
 79.04   5.82  81.15  5.819   84.8   5.85  88.36   5.88  90.55   5.88
 94.06    5.9  96.31  5.909   98.6  5.914 102.07  5.915 105.46  5.893
107.83  5.902 111.16  5.957 113.59  5.955 116.07  6.015 119.35  6.047
122.55  6.001 125.11  5.951 128.25  5.972 130.87  5.999 133.54  5.995
136.63  5.995 139.65  5.995 142.39  5.967 145.35   6.01 148.15  6.064
151.01  6.052 153.91  6.021 156.75  6.078 159.66  6.084 162.64  6.012
165.42  5.945 168.14  5.985 171.18  5.992 174.29  6.096 176.94  6.073
179.54  6.067  182.7  6.019 185.93  6.051 188.46  6.052 191.76  6.015
194.22  6.012 196.64  5.993 199.98  5.999 202.34  5.994 205.74  6.035
209.22  5.986  211.5  6.054 213.74  6.021 217.26  6.011 219.43  6.018
223.01  6.016 226.68  6.087 228.77  6.061 230.82  5.997 234.53  5.941
236.52  5.997 240.29  6.074 244.15   6.09 246.06  6.094 247.92   6.13
251.82  6.123 253.62  6.125 257.58  6.167 261.62  6.141 263.34  6.143
265.02  6.134  269.1  6.094 270.72  6.109 274.86  6.092 279.08  6.181
280.62   6.17 282.12  6.162 286.38  6.116 287.82  6.152 292.13   6.32
296.54   6.32 297.89  6.313 299.21  6.301 303.65  6.384 304.91  6.413
309.41  6.214 314.01  6.016 315.17  6.003  316.3  5.973 320.93  5.867
   322  5.835 326.69  5.859 331.48  6.021 332.45  6.017  333.4  5.997
338.21  6.159  339.1   6.17 343.97  6.204 348.94  6.277 349.73  6.307
 350.5  6.307 355.48  6.252 356.19  6.272 361.24  6.207  366.4  6.226
   367  6.211 367.59  6.211 372.76  6.268 373.29  6.262 378.52  6.203
383.87  6.304 384.28  6.308 384.69  6.295 390.04  6.229 395.51  6.305
 395.8  6.309 401.34  6.384 401.56  6.387 401.79  6.389 407.32  6.268
412.98   6.54 413.08  6.541 418.81  6.612 418.85  6.614 418.88  6.613
422.55  6.478 424.57  6.404  424.6  6.404 430.27  6.549 430.36   6.55
430.44  6.549 436.12  6.532 441.67  6.403 441.88  6.407 442.09  6.406
447.64  6.389 453.07  6.385  453.4  6.389 453.73  6.385 459.16  6.331
459.55  6.328 464.92  6.356 465.38  6.356 470.68  6.287 475.87  6.396
476.44  6.422 477.02  6.437  482.2  6.644 487.26  6.749 487.95  6.743
488.66  6.741   492     6  492.1  -5.18  647.9  -5.18   648     6
654.97  6.693 658.94  6.731 660.73  6.732 662.55  6.727  663.1  6.721
666.49  6.682 670.45    6.8 672.25   6.83 674.05  6.883 678.01  6.775
681.99  6.549 683.76  6.491 685.53    6.5 689.52  6.452 693.54  6.392
695.28  6.352 697.02   6.38 701.04  6.456 702.76  6.485  706.8  6.443
708.51  6.421 712.56  6.488 714.26   6.48 718.32  6.406    720  6.419
724.08  6.519 725.75  6.402 729.84  6.393 731.49  6.347  735.6  6.297
737.24  6.256 741.36  6.212 745.51  6.211 747.12  6.257 748.73  6.295
752.87  6.399 757.05  6.434 758.63   6.46 760.21  6.454 764.39  6.422
768.59  6.455 770.15  6.451  771.7  6.459 775.91  6.458 780.14  6.538
781.67  6.544  783.2  6.575 787.43  6.747 791.69  6.725 793.19  6.744
794.69  6.774 798.95  6.819 800.43  6.792 804.71  6.799 806.18  6.804
810.47  6.747 811.92  6.746 816.22  6.859 817.66  6.836 821.98  6.716
823.41  6.698 827.74  6.674  832.1  6.669  833.5   6.68  834.9  6.669
839.26  6.672 843.65  6.648 845.02  6.625 846.39  6.627 850.78  6.574
 855.2   6.59 856.54  6.575 857.88  6.592  862.3  6.551 863.63  6.537
868.06  6.537 872.52  6.472 873.82   6.47 875.12  6.466 879.58  6.517
880.86  6.513 885.33   6.51  886.6  6.507 891.09  6.473 892.35  6.474
896.85  6.478 898.09  6.477 902.61  6.508 903.84   6.52 908.37  6.516
909.58  6.502 914.13  6.486 918.71   6.49 919.89  6.491 921.08  6.501
925.65  6.542 926.82  6.538 931.41  6.521 932.57  6.523 937.17  6.501
938.31  6.501 942.93  6.451 944.06  6.443 948.68  6.434 949.79  6.432
954.44  6.436 959.12  6.412  960.2  6.426 961.29  6.428 965.96   6.42
967.03  6.405 971.72    6.4 972.78  6.415 977.48  6.441 982.21  6.426
983.24  6.419 984.27   6.41    989  6.394 990.02  6.389 994.76  6.351
999.53  6.355 1000.52  6.351 1001.51  6.359 1006.28  6.413 1011.08  6.356
1012.03   6.34 1012.99  6.347 1017.79   6.38 1018.73   6.38 1023.55  6.339
 1028.4  6.325 1029.31  6.331 1030.23  6.329 1035.07   6.37 1035.97   6.37
1040.83  6.338 1041.72  6.336 1046.59  6.315 1047.46  6.313 1052.35  6.317
1053.21  6.315 1058.11  6.341 1058.96  6.367 1063.87  6.355  1064.7   6.34
1069.63  6.333 1074.59   6.41 1075.39  6.409 1076.19  6.417 1081.14  6.443
1081.93  6.444  1086.9  6.429 1087.68  6.432 1092.66  6.514 1093.42  6.515
1098.42  6.464 1099.17  6.456 1104.18  6.364 1104.91  6.362 1109.94  6.343
  1115  6.361  1115.7  6.352  1116.4  6.352 1121.46  6.325 1122.15  6.319
1127.22  6.291  1127.9  6.292 1132.98  6.314  1138.1  6.354 1138.74  6.355
1139.39  6.362 1144.49  6.356 1145.12  6.355 1150.25   6.34 1155.41  6.406
1156.01  6.407 1156.61  6.403 1161.77  6.414 1162.36  6.418 1167.53  6.424
1168.11  6.431 1168.83  6.436

Manning's n Values        num=      3
   Sta   n Val    Sta   n Val    Sta   n Val
   -20     .2    492    .03    648     .2

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
         492    648              1      1      1           .3      .5
Ineffective Flow     num=      2
  Sta L   Sta R    Elev  Permanent
   -20    456   15.2      F
 684.25 1168.83   15.2      F

CROSS SECTION


RIVER: GatorSlough
REACH: GatorSlough       RS: 4.59

INPUT
Description: dup RS 4.6
Station Elevation Data    num=    367
```

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-20	5.479	-18.88	5.477	-17.83	5.537	-13.12	5.531	-12	5.527
-7.36	5.518	-6.18	5.524	-1.6	5.527	2.89	5.568	4.16	5.556
5.46	5.558	9.92	5.567	11.29	5.575	15.68	5.494	19.98	5.537
21.44	5.533	22.93	5.551	27.19	5.601	28.74	5.591	32.95	5.577
37.07	5.52	38.71	5.512	42.77	5.565	44.47	5.581	46.21	5.578
50.23	5.588	54.17	5.657	55.99	5.686	59.87	5.704	61.75	5.719
63.68	5.751	67.51	5.747	71.27	5.738	73.28	5.708	76.97	5.749
79.04	5.82	81.15	5.819	84.8	5.85	88.36	5.88	90.55	5.88
94.06	5.9	96.31	5.909	98.6	5.914	102.07	5.915	105.46	5.893
107.83	5.902	111.16	5.957	113.59	5.955	116.07	6.015	119.35	6.047
122.55	6.001	125.11	5.951	128.25	5.972	130.87	5.999	133.54	5.995
136.63	5.995	139.65	5.995	142.39	5.967	145.35	6.01	148.15	6.064
151.01	6.052	153.91	6.021	156.75	6.078	159.66	6.084	162.64	6.012
165.42	5.945	168.14	5.985	171.18	5.992	174.29	6.096	176.94	6.073
179.54	6.067	182.7	6.019	185.93	6.051	188.46	6.052	191.76	6.015
194.22	6.012	196.64	5.993	199.98	5.999	202.34	5.994	205.74	6.035
209.22	5.986	211.5	6.054	213.74	6.021	217.26	6.011	219.43	6.018
223.01	6.016	226.68	6.087	228.77	6.061	230.82	5.997	234.53	5.941
236.52	5.997	240.29	6.074	244.15	6.09	246.06	6.094	247.92	6.13
251.82	6.123	253.62	6.125	257.58	6.167	261.62	6.141	263.34	6.143
265.02	6.134	269.1	6.094	270.72	6.109	274.86	6.092	279.08	6.181
280.62	6.17	282.12	6.162	286.38	6.116	287.82	6.152	292.13	6.32
296.54	6.32	297.89	6.313	299.21	6.301	303.65	6.384	304.91	6.413
309.41	6.214	314.01	6.016	315.17	6.003	316.3	5.973	320.93	5.867
322	5.835	326.69	5.859	331.48	6.021	332.45	6.017	333.4	5.997
338.21	6.159	339.1	6.17	343.97	6.204	348.94	6.277	349.73	6.307
350.5	6.307	355.48	6.252	356.19	6.272	361.24	6.207	366.4	6.226
367	6.211	367.59	6.211	372.76	6.268	373.29	6.262	378.52	6.203
383.87	6.304	384.28	6.308	384.69	6.295	390.04	6.229	395.51	6.305
395.8	6.309	401.34	6.384	401.56	6.387	401.79	6.389	407.32	6.268
412.98	6.54	413.08	6.541	418.81	6.612	418.85	6.614	418.88	6.613
422.55	6.478	424.57	6.404	424.6	6.404	430.27	6.549	430.36	6.55
430.44	6.549	436.12	6.532	441.67	6.403	441.88	6.407	442.09	6.406
447.64	6.389	453.07	6.385	453.4	6.389	453.73	6.385	459.16	6.331
459.55	6.328	464.92	6.356	465.38	6.356	470.68	6.287	475.87	6.396
476.44	6.422	477.02	6.437	482.2	6.644	487.26	6.749	487.95	6.743
488.66	6.741	492	6	492.1	-5.18	647.9	-5.18	648	6
654.97	6.693	658.94	6.731	660.73	6.732	662.55	6.727	663.1	6.721
666.49	6.682	670.45	6.8	672.25	6.83	674.05	6.883	678.01	6.775
681.99	6.549	683.76	6.491	685.53	6.5	689.52	6.452	693.54	6.392
695.28	6.352	697.02	6.38	701.04	6.456	702.76	6.485	706.8	6.443
708.51	6.421	712.56	6.488	714.26	6.48	718.32	6.406	720	6.419
724.08	6.519	725.75	6.402	729.84	6.393	731.49	6.347	735.6	6.297
737.24	6.256	741.36	6.212	745.51	6.211	747.12	6.257	748.73	6.295
752.87	6.399	757.05	6.434	758.63	6.46	760.21	6.454	764.39	6.422
768.59	6.455	770.15	6.451	771.7	6.459	775.91	6.458	780.14	6.538
781.67	6.544	783.2	6.575	787.43	6.747	791.69	6.725	793.19	6.744
794.69	6.774	798.95	6.819	800.43	6.792	804.71	6.799	806.18	6.804
810.47	6.747	811.92	6.746	816.22	6.859	817.66	6.836	821.98	6.716
823.41	6.698	827.74	6.674	832.1	6.669	833.5	6.68	834.9	6.669
839.26	6.672	843.65	6.648	845.02	6.625	846.39	6.627	850.78	6.574
855.2	6.59	856.54	6.575	857.88	6.592	862.3	6.551	863.63	6.537
868.06	6.537	872.52	6.472	873.82	6.47	875.12	6.466	879.58	6.517
880.86	6.513	885.33	6.51	886.6	6.507	891.09	6.473	892.35	6.474
896.85	6.478	898.09	6.477	902.61	6.508	903.84	6.52	908.37	6.516
909.58	6.502	914.13	6.486	918.71	6.49	919.89	6.491	921.08	6.501
925.65	6.542	926.82	6.538	931.41	6.521	932.57	6.523	937.17	6.501
938.31	6.501	942.93	6.451	944.06	6.443	948.68	6.434	949.79	6.432
954.44	6.436	959.12	6.412	960.2	6.426	961.29	6.428	965.96	6.42
967.03	6.405	971.72	6.4	972.78	6.415	977.48	6.441	982.21	6.426
983.24	6.419	984.27	6.41	989	6.394	990.02	6.389	994.76	6.351
999.53	6.355	1000.52	6.351	1001.51	6.359	1006.28	6.413	1011.08	6.356
1012.03	6.34	1012.99	6.347	1017.79	6.38	1018.73	6.38	1023.55	6.339
1028.4	6.325	1029.31	6.331	1030.23	6.329	1035.07	6.37	1035.97	6.37
1040.83	6.338	1041.72	6.336	1046.59	6.315	1047.46	6.313	1052.35	6.317
1053.21	6.315	1058.11	6.341	1058.96	6.367	1063.87	6.355	1064.7	6.34
1069.63	6.333	1074.59	6.41	1075.39	6.409	1076.19	6.417	1081.14	6.443
1081.93	6.444	1086.9	6.429	1087.68	6.432	1092.66	6.514	1093.42	6.515
1098.42	6.464	1099.17	6.456	1104.18	6.364	1104.91	6.362	1109.94	6.343
1115	6.361	1115.7	6.352	1116.4	6.352	1121.46	6.325	1122.15	6.319
1127.22	6.291	1127.9	6.292	1132.98	6.314	1138.1	6.354	1138.74	6.355
1139.39	6.362	1144.49	6.356	1145.12	6.355	1150.25	6.34	1155.41	6.406
1156.01	6.407	1156.61	6.403	1161.77	6.414	1162.36	6.418	1167.53	6.424
1168.11	6.431	1168.83	6.436						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-20	.2	492	.03	648	.2

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
492	648	124	124	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-20	456	9.62	F
684.25	1168.83	9.62	F

BRIDGE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.35

INPUT
Description: SB
Distance from Upstream XS = 20
Deck/Roadway Width = 40
Weir Coefficient = 2.6
Upstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-20 9.62 491.9 9.62 492 9.62 7.12
648 9.62 7.12 648.1 9.62 1200 9.62

Upstream Bridge Cross Section Data
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749
79.04 5.82 81.15 5.819 84.8 5.85 88.36 5.88 90.55 5.88
94.06 5.9 96.31 5.909 98.6 5.914 102.07 5.915 105.46 5.893
107.83 5.902 111.16 5.957 113.59 5.955 116.07 6.015 119.35 6.047
122.55 6.001 125.11 5.951 128.25 5.972 130.87 5.999 133.54 5.995
136.63 5.995 139.65 5.995 142.39 5.967 145.35 6.01 148.15 6.064
151.01 6.052 153.91 6.021 156.75 6.078 159.66 6.084 162.64 6.012
165.42 5.945 168.14 5.985 171.18 5.992 174.29 6.096 176.94 6.073
179.54 6.067 182.7 6.019 185.93 6.051 188.46 6.052 191.76 6.015
194.22 6.012 196.64 5.993 199.98 5.999 202.34 5.994 205.74 6.035
209.22 5.986 211.5 6.054 213.74 6.021 217.26 6.011 219.43 6.018
223.01 6.016 226.68 6.087 228.77 6.061 230.82 5.997 234.53 5.941
236.52 5.997 240.29 6.074 244.15 6.09 246.06 6.094 247.92 6.13
251.82 6.123 253.62 6.125 257.58 6.167 261.62 6.141 263.34 6.143
265.02 6.134 269.1 6.094 270.72 6.109 274.86 6.092 279.08 6.181
280.62 6.17 282.12 6.162 286.38 6.116 287.82 6.152 292.13 6.32
296.54 6.32 297.89 6.313 299.21 6.301 303.65 6.384 304.91 6.413
309.41 6.214 314.01 6.016 315.17 6.003 316.3 5.973 320.93 5.867
322 5.835 326.69 5.859 331.48 6.021 332.45 6.017 333.4 5.997
338.21 6.159 339.1 6.17 343.97 6.204 348.94 6.277 349.73 6.307
350.5 6.307 355.48 6.252 356.19 6.272 361.24 6.207 366.4 6.226
367 6.211 367.59 6.211 372.76 6.268 373.29 6.262 378.52 6.203
383.87 6.304 384.28 6.308 384.69 6.295 390.04 6.229 395.51 6.305
395.8 6.309 401.34 6.384 401.56 6.387 401.79 6.389 407.32 6.268
412.98 6.54 413.08 6.541 418.81 6.612 418.85 6.614 418.88 6.613
422.55 6.478 424.57 6.404 424.6 6.404 430.27 6.549 430.36 6.55
430.44 6.549 436.12 6.532 441.67 6.403 441.88 6.407 442.09 6.406
447.64 6.389 453.07 6.385 453.4 6.389 453.73 6.385 459.16 6.331
459.55 6.328 464.92 6.356 465.38 6.356 470.68 6.287 475.87 6.396
476.44 6.422 477.02 6.437 482.2 6.644 487.26 6.749 487.95 6.743
488.66 6.741 492 6 492.1 -5.18 647.9 -5.18 648 6
654.97 6.693 658.94 6.731 660.73 6.732 662.55 6.727 663.1 6.721
666.49 6.682 670.45 6.8 672.25 6.83 674.05 6.883 678.01 6.775
681.99 6.549 683.76 6.491 685.53 6.5 689.52 6.452 693.54 6.392
695.28 6.352 697.02 6.38 701.04 6.456 702.76 6.485 706.8 6.443
708.51 6.421 712.56 6.488 714.26 6.48 718.32 6.406 720 6.419
724.08 6.519 725.75 6.402 729.84 6.393 731.49 6.347 735.6 6.297
737.24 6.256 741.36 6.212 745.51 6.211 747.12 6.257 748.73 6.295
752.87 6.399 757.05 6.434 758.63 6.46 760.21 6.454 764.39 6.422
768.59 6.455 770.15 6.451 771.7 6.459 775.91 6.458 780.14 6.538
781.67 6.544 783.2 6.575 787.43 6.747 791.69 6.725 793.19 6.744
794.69 6.774 798.95 6.819 800.43 6.792 804.71 6.799 806.18 6.804
810.47 6.747 811.92 6.746 816.22 6.859 817.66 6.836 821.98 6.716
823.41 6.698 827.74 6.674 832.1 6.669 833.5 6.68 834.9 6.669
839.26 6.672 843.65 6.648 845.02 6.625 846.39 6.627 850.78 6.574
855.2 6.59 856.54 6.575 857.88 6.592 862.3 6.551 863.63 6.537
868.06 6.537 872.52 6.472 873.82 6.47 875.12 6.466 879.58 6.517
880.86 6.513 885.33 6.51 886.6 6.507 891.09 6.473 892.35 6.474
896.85 6.478 898.09 6.477 902.61 6.508 903.84 6.52 908.37 6.516
909.58 6.502 914.13 6.486 918.71 6.49 919.89 6.491 921.08 6.501
925.65 6.542 926.82 6.538 931.41 6.521 932.57 6.523 937.17 6.501
938.31 6.501 942.93 6.451 944.06 6.443 948.68 6.434 949.79 6.432
954.44 6.436 959.12 6.412 960.2 6.426 961.29 6.428 965.96 6.42
967.03 6.405 971.72 6.4 972.78 6.415 977.48 6.441 982.21 6.426
983.24 6.419 984.27 6.41 989 6.394 990.02 6.389 994.76 6.351
999.53 6.355 1000.52 6.351 1001.51 6.359 1006.28 6.413 1011.08 6.356
1012.03 6.34 1012.99 6.347 1017.79 6.38 1018.73 6.38 1023.55 6.339
1028.4 6.325 1029.31 6.331 1030.23 6.329 1035.07 6.37 1035.97 6.37
1040.83 6.338 1041.72 6.336 1046.59 6.315 1047.46 6.313 1052.35 6.317
1053.21 6.315 1058.11 6.341 1058.96 6.367 1063.87 6.355 1064.7 6.34
1069.63 6.333 1074.59 6.41 1075.39 6.409 1076.19 6.417 1081.14 6.443
1081.93 6.444 1086.9 6.429 1087.68 6.432 1092.66 6.514 1093.42 6.515
1098.42 6.464 1099.17 6.456 1104.18 6.364 1104.91 6.362 1109.94 6.343

1115 6.361 1115.7 6.352 1116.4 6.352 1121.46 6.325 1122.15 6.319
1127.22 6.291 1127.9 6.292 1132.98 6.314 1138.1 6.354 1138.74 6.355
1139.39 6.362 1144.49 6.356 1145.12 6.355 1150.25 6.34 1155.41 6.406
1156.01 6.407 1156.61 6.403 1161.77 6.414 1162.36 6.418 1167.53 6.424
1168.11 6.431 1168.83 6.436

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-20 .2 492 .03 648 .2

Bank Sta: Left Right Coeff Contr. Expan.
492 648 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-20 456 9.62 F
684.25 1168.83 9.62 F

Downstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-21 9.62 491.9 9.62 492 9.62 7.12
648 9.62 7.12 648.1 9.62 1200 9.62

Downstream Bridge Cross Section Data
Station Elevation Data num= 336
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.013536 4.627.117898 4.987.129236 5.337.123742 10.74 7.06831
11.037.045314 16.56.672902 22.086.480585 22.266.469163 22.446.466109
28.026.283257 28.146.279891 33.786.148354 39.16.231291 39.546.238067
39.556.238137 45.296.413932 50.936.253401 51.056.252393 56.636.224466
56.816.217647 62.33 6.09241 62.576.089359 68.036.057948 68.336.055989
68.646.057269 74.096.125669 74.466.128069 79.856.175917 85.136.131151
85.616.135355 90.836.211596 91.38 6.21467 96.536.307469 97.146.309958
102.236.296508 102.96.293833 107.936.290092 108.656.295126 109.386.297964
114.416.355277 115.26.358286 120.176.378702 125.036.395321 125.936.403618
130.736.415321 131.696.419686 132.676.417501 137.456.440517 142.136.554865
143.216.573679 144.316.583508 148.976.651402 150.136.655237 154.736.696432
159.236.680517 160.496.686668 161.786.686028 166.25 6.65306 167.66.647576
172.016.652355 176.326.635281 177.766.651303 179.236.658226 183.526.693185
185.056.691573 189.286.695109 193.426.697133 195.046.702182 199.126.687279
200.86.677622 202.516.687095 206.56 6.69487 210.526.705235 212.326.729802
214.166.720155 218.086.753465 219.986.766269 223.846.777088 227.636.743019
229.66.745677 231.62 6.73788 235.366.743994 237.446.725008 241.116.724918
244.726.702303 246.876.711846 249.086.713564 252.636.753021 254.9 6.74197
258.396.720082 261.826.711729 264.156.740036 267.526.739932 269.916.738597
273.226.725852 275.686.721985 278.926.727015 281.446.716796 2846.639936
287.26.554258 290.326.399265 292.966.288069 296.026.210798 298.72 6.19395
301.72 6.19185 304.486.216494 307.426.482284 310.236.614634 313.116.700326
315.996.890442 318.926.879824 321.756.909406 324.526.875915 327.516.847575
330.22 6.74907 333.276.659445 335.926.596866 339.036.495471 341.626.611098
344.796.695492 347.32 6.86416 350.557.137008 353.85 6.93895 356.31 6.7909
358.726.778072 362.076.761401 364.426.775408 367.836.761639 370.126.740871
373.586.731915 375.816.735065 379.346.710323 381.51 6.69813 385.16.723934
388.776.705092 390.866.704043 392.91 6.72117 396.62 6.72873 398.616.733131
402.386.744774 404.316.739341 408.146.720503 410.016.700255 413.96.741404
417.876.714475 419.666.730922 423.76.756803 425.426.744149 427.126.774343
431.186.769161 435.346.734297 436.946.725238 438.516.729741 442.696.796102
444.216.881773 448.457.110452 452.796.895158 454.216.828222 455.61 6.64249
460 6 480 -5.18 660 -5.18 680 6 706.39 6.02978
707.636.065577 708.896.024083 713.396.016923 717.795.948747 719.155.916333
720.535.982049 724.91 6.11976 729.196.178744 730.676.229609 734.96.151528
736.436.120185 7386.169028 742.196.213191 746.36.252873 747.956.433785
7526.885107 753.716.872463 755.466.892992 759.477.048115 763.47.080067
765.237.039326 767.17.000651 770.98 6.7321 774.79 6.45656 776.746.313753
780.496.332604 782.56.327547 784.56 6.31667 788.26 6.26781 791.896.201074
794.026.219452 796.26.147838 799.786.134684 802.026.142399 805.546.095258
807.846.126758 811.36.200877 814.696.261695 817.066.276814 820.396.356381
822.836.358634 825.316.382925 828.596.355306 831.136.355063 834.346.385139
836.946.422173 840.16.415528 843.196.436909 845.86 6.44415 848.896.483392
851.626.415771 854.41 6.39416 857.38 6.36807 860.236.275272 863.146.164995
866.056.393271 868.96.362206 871.696.354553 874.666.200531 877.396.432463
880.426.667475 883.51 6.94614 886.187.086906 889.336.821873 891.946.806644
895.166.860425 897.76.968534 900.196.767302 903.456.725206 905.886.737371
909.216.794893 912.616.792857 914.976.828354 918.436.838322 920.736.810176
924.256.849614 926.496.882003 928.687.078928 932.257.127086 934.387.091448
938.017.293641 941.727.285337 943.777.274018 945.797.189181 949.537.085202
951.497.023186 955.296.772801 959.186.796497 961.056.725225 962.886.726119
966.8 6.5834 968.58 6.54046 972.566.567066 976.636.556079 978.326.577935
982.466.662205 984.086.709423 988.286.825852 989.846.856197 991.386.798488
995.66.710093 997.086.701507 1001.366.540529 1005.746.491599 1007.126.503945
1008.48 6.49885 1012.896.509344 1014.186.521883 1018.656.540792 1023.216.491251
1024.416.477779 1025.586.461524 1030.16 6.46092 1031.276.454761 1035.926.561113
1040.666.638438 1041.686.657149 1042.686.669239 1047.446.603306 1048.386.614744
1053.26.518749 1058.126.550673 1058.966.522362 1059.786.520061 1064.726.405599
1065.486.381188 1070.486.365843 1075.596.291648 1076.246.294163 1081.416.314988
10826.301828 1087.236.205415 1087.76 6.21231 1088.286.211489 1093.526.199525
1093.986.197679 1099.276.258206 1104.686.283366 1105.036.290051 1105.376.286088
1110.79 6.23149 1111.076.226769 1116.556.235404 1122.156.186904 1122.316.183959

1122.476.186684 1128.076.174533 1128.176.171877 1133.836.164007 1137.86.121954
1139.596.103349 1139.616.103128 1145.356.065072 1150.976.167377 1151.116.166425
1151.256.167364 1156.876.233702 1157.076.234755 1162.626.249385 1168.076.212687
1168.38 6.21166 1168.716.211231 1174.156.163875 1179.476.140606 1179.916.138773
1185.176.109379 1185.676.103643 1190.876.102267 1191.436.101143 1191.996.106309
1192.176.108284

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 460 .03 680 .2

Bank Sta: Left Right Coeff Contr. Expan.
460 680 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 460 9.62 F
733 1192.17 9.62 F

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 5

Pier Data
Pier Station Upstream= 520 Downstream= 520
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 545 Downstream= 545
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 570 Downstream= 570
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 595 Downstream= 595
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 620 Downstream= 620
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Highest Energy Answer

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4

INPUT
Description:
Station Elevation Data num= 336
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.013536 4.627.117898 4.987.129236 5.337.123742 10.74 7.06831
11.037.045314 16.56.672902 22.086.480585 22.266.469163 22.446.466109
28.026.283257 28.146.279891 33.786.148354 39.16.231291 39.546.238067
39.556.238137 45.296.413932 50.936.253401 51.056.252393 56.636.224466
56.816.217647 62.33 6.09241 62.576.089359 68.036.057948 68.336.055989
68.646.057269 74.096.125669 74.466.128069 79.856.175917 85.136.131151
85.616.135355 90.836.211596 91.38 6.21467 96.536.307469 97.146.309958
102.236.296508 102.96.293833 107.936.290092 108.656.295126 109.386.297964
114.416.355277 115.26.358286 120.176.378702 125.036.395321 125.936.403618
130.736.415321 131.696.419686 132.676.417501 137.456.440517 142.136.554865
143.216.573679 144.316.583508 148.976.651402 150.136.655237 154.736.696432
159.236.680517 160.496.686668 161.786.686028 166.25 6.65306 167.66.647576
172.016.652355 176.326.635281 177.766.651303 179.236.658226 183.526.693185
185.056.691573 189.286.695109 193.426.697133 195.046.702182 199.126.687279
200.86.677622 202.516.687095 206.56 6.69487 210.526.705235 212.326.729802
214.166.720155 218.086.753465 219.986.766269 223.846.777088 227.636.743019
229.66.745677 231.62 6.73788 235.366.743994 237.446.725008 241.116.724918
244.726.702303 246.876.711846 249.086.713564 252.636.753021 254.9 6.74197
258.396.720082 261.826.711729 264.156.740036 267.526.739932 269.916.738597
273.226.725852 275.686.721985 278.926.727015 281.446.716796 2846.639936
287.26.554258 290.326.399265 292.966.288069 296.026.210798 298.72 6.19395
301.72 6.19185 304.486.216494 307.426.482284 310.236.614634 313.116.700326
315.996.890442 318.926.879824 321.756.909406 324.526.875915 327.516.847575
330.22 6.74907 333.276.659445 335.926.596866 339.036.495471 341.626.611098
344.796.695492 347.32 6.86416 350.557.137008 353.85 6.93895 356.31 6.7909
358.726.778072 362.076.761401 364.426.775408 367.836.761639 370.126.740871
373.586.731915 375.816.735065 379.346.710323 381.51 6.69813 385.16.723934
388.776.705092 390.866.704043 392.91 6.72117 396.62 6.72873 398.616.733131
402.386.744774 404.316.739341 408.146.720503 410.016.700255 413.96.741404
417.876.714475 419.666.730922 423.76.756803 425.426.744149 427.126.774343
431.186.769161 435.346.734297 436.946.725238 438.516.729741 442.696.796102
444.216.881773 448.457.110452 452.796.895158 454.216.828222 455.61 6.64249
460 6 480 -5.18 660 -5.18 680 6 706.39 6.02978
707.636.065577 708.896.024083 713.396.016923 717.795.948747 719.155.916333
720.535.982049 724.91 6.11976 729.196.178744 730.676.229609 734.96.151528
736.436.120185 7386.169028 742.196.213191 746.36.252873 747.956.433785
7526.885107 753.716.872463 755.466.892992 759.477.048115 763.47.080067
765.237.039326 767.17.000651 770.98 6.7321 774.79 6.45656 776.746.313753
780.496.332604 782.56.327547 784.56 6.31667 788.26 6.26781 791.896.201074
794.026.219452 796.26.147838 799.786.134684 802.026.142399 805.546.095258
807.846.126758 811.36.200877 814.696.261695 817.066.276814 820.396.356381
822.836.358634 825.316.382925 828.596.355306 831.136.355063 834.346.385139
836.946.422173 840.16.415528 843.196.436909 845.86 6.44415 848.896.483392
851.626.415771 854.41 6.39416 857.38 6.36807 860.236.275272 863.146.164995
866.056.393271 868.96.362206 871.696.354553 874.666.200531 877.396.432463
880.426.667475 883.51 6.94614 886.187.086906 889.336.821873 891.946.806644
895.166.860425 897.76.968534 900.196.767302 903.456.725206 905.886.737371
909.216.794893 912.616.792857 914.976.828354 918.436.838322 920.736.810176
924.256.849614 926.496.882003 928.687.078928 932.257.127086 934.387.091448
938.017.293641 941.727.285337 943.777.274018 945.797.189181 949.537.085202
951.497.023186 955.296.772801 959.186.796497 961.056.725225 962.886.726119
966.8 6.5834 968.58 6.54046 972.566.567066 976.636.556079 978.326.577935
982.466.662205 984.086.709423 988.286.825852 989.846.856197 991.386.798488
995.66.710093 997.086.701507 1001.366.540529 1005.746.491599 1007.126.503945
1008.48 6.49885 1012.896.509344 1014.186.521883 1018.656.540792 1023.216.491251
1024.416.477779 1025.586.461524 1030.16 6.46092 1031.276.454761 1035.926.561113
1040.666.638438 1041.686.657149 1042.686.669239 1047.446.603306 1048.386.614744
1053.26.518749 1058.126.550673 1058.966.522362 1059.786.520061 1064.726.405599
1065.486.381188 1070.486.365843 1075.596.291648 1076.246.294163 1081.416.314988
10826.301828 1087.236.205415 1087.76 6.21231 1088.286.211489 1093.526.199525
1093.986.197679 1099.276.258206 1104.686.283366 1105.036.290051 1105.376.286088
1110.79 6.23149 1111.076.226769 1116.556.235404 1122.156.186904 1122.316.183959
1122.476.186684 1128.076.174533 1128.176.171877 1133.836.164007 1137.86.121954
1139.596.103349 1139.616.103128 1145.356.065072 1150.976.167377 1151.116.166425
1151.256.167364 1156.876.233702 1157.076.234755 1162.626.249385 1168.076.212687
1168.38 6.21166 1168.716.211231 1174.156.163875 1179.476.140606 1179.916.138773
1185.176.109379 1185.676.103643 1190.876.102267 1191.436.101143 1191.996.106309
1192.176.108284

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 114 114 114 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent

0 460 9.62 F
733 1192.17 9.62 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 3

INPUT
Description:
Station Elevation Data num= 335
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
05.634134.60008245.6942093.6696945.8725616.3608736.0559969.336566 6.15758
12.121666.25118415.000636.30046717.882466.34340220.670316.32686523.64325 6.27618
26.337186.29805829.40404 6.339232.004066.33165535.164836.38829837.670936.457571
40.925626.53662344.290016.62476446.686416.68795450.147886.743779 52.44726.724338
54.667756.80128858.197996.81504261.853467.01708763.958787.12554467.711337.177508
69.719577.26428471.662337.21704475.480367.281189 77.32927.34113581.24116 7.32991
85.284977.29584487.001957.30658688.662957.28872392.762737.30974394.329827.315601
98.523537.306118102.85867.368556104.28437.365725105.66367.355804110.04517.239238
114.57437.286993115.80597.299978 120.4247.223483121.55677.210919122.65437.202195
127.31757.156901128.32127.129031133.07837.023808133.98816.894236138.83916.245327
139.6556.228245144.59996.121224145.32186.121514150.36066.109317150.98876.104417
156.12146.121435156.65566.169751161.88226.565981162.32246.576659 167.6436.791144
167.98936.790377173.40386.825194179.00086.604692179.1646 6.59849179.32316.608528
184.92546.892205188.88487.114388 190.6477.213563190.67627.214396196.31367.215431
196.4377.216999201.9803 7.05268202.19787.051146202.42257.044293207.95867.033328
213.31386.939056213.7193 6.94072214.13866.929412219.48016.870151219.99676.861282
225.2409 6.68082230.31396.768672231.0017 6.76614231.71286.772161236.76256.698555
237.57086.699401242.52336.685985 247.3146.792759248.28416.799658249.28516.805222
254.03496.752025255.13486.729418259.79576.699656264.30446.625474265.5565 6.61813
266.8509 6.62402271.31736.753371272.70896.787635 277.0786.846729281.30456.674993
282.83886.612917286.97126.376869288.59966.284712292.63795.895649294.36045.753406
298.30465.466722300.12125.353919303.97135.122859 305.8825.022691 309.6385.036376
311.64285.066675315.30475.223729317.4036 5.27189320.96545.685117323.15445.952621
325.4211 6.03595328.91526.230599 332.2956.226451 334.6766.229411337.96186.238059
340.43676.237585343.62856.128935346.19756.022894349.29525.785341351.95835.640795
354.96195.825533357.71916.047181360.62866.900263363.47997.694016366.2953 8.11466
369.24078.405549 371.9628.441422375.00158.550682377.62888.829827380.76238.913927
383.29119.095375386.51319.372685388.9523 9.24564392.27399.160564 394.6199.072814
398.03479.002273401.56568.952641403.79548.801012405.95258.752063409.55628.778395
411.61928.669924 415.3178.397182417.28598.321684421.07788.130779422.95268.107663
426.83868.094725428.6193 8.13578432.59948.141855 434.2868.215867438.36028.481643
439.95278.516696 444.121 8.62904445.61948.734197449.88188.722662451.28388.778104
455.63268.891652456.94318.852104461.39338.785339462.6097 8.60556467.15418.252288
468.27657.911385472.91496.543383 480 6 500 -5.2 680 -5.2
700 6749.39296.488153751.57896.364151755.15376.385935758.84916.352646
760.91456.371062764.70696.423309766.67536.455131768.57956.373201 772.4366.373319
776.42276.501466778.19686.604229779.91036.687259783.94766.785133785.57036.879885
789.70846.907575793.98616.880507795.46926.866059 796.9046.910859 801.237.005478
802.57097.042951806.99087.049484811.55987.026892812.75166.987225813.90466.946448
818.51247.137194819.57157.160261824.27327.132409825.23837.112283 830.0347.159531
830.90527.159342835.79477.109969840.8491 7.20282841.55557.205065842.23787.188137
847.30637.285461 847.8967.293694853.06717.231751858.41267.253088858.82797.249286
864.27047.097436864.58877.101814870.12837.062606870.34957.059001870.56357.055254
876.1103 7.01876.23037.010146881.87117.189202881.89727.190771883.47417.184991
887.56417.170329887.63197.170899 893.2317.167474893.39267.166747893.55987.163617
899.15347.066497904.56476.948121904.9142 6.93992910.23166.958222 910.6756.959044
911.1326 6.95154916.42586.948007921.55556.935678922.18666.940176922.83916.950261
927.94746.970798932.88927.063582933.70827.069709938.55617.086624 939.4697.096575
940.41277.101128945.22987.091477949.88987.099937950.99067.120971952.12847.119407
956.75137.115421957.98637.098494962.51217.041863963.84427.074677968.27297.059033
972.55747.146533974.03387.133176975.55727.101886979.78457.015061981.40767.071377
985.54537.044007989.54827.002939991.30616.906726993.12346.867206997.06696.826549
1000.8826.8190051002.828 6.812411006.5496.7791291008.5896.7799631010.6976.732145
1014.3496.6761261016.5556.674457 1020.116.6669121022.4136.6848081025.871 6.73766
1029.2166.7620761031.6326.8010161034.8836.7873991037.3926.7782181039.9826.782686
1043.1436.8038211046.2076.8471351048.9046.8919261051.8746.9056771054.6656.957508
1057.556.9489861060.426 6.961111063.208 6.941066.1866.8795511068.8756.868396
1071.9476.8957691075.123 6.824271077.7086.7753551080.9816.8247731083.4696.822412
1086.839 6.80634 1089.236.8031031091.542 6.79074 1094.996.7802131097.2096.795392
1100.751 6.8091104.4136.8205261106.5126.8432591108.5396.8419851112.2636.853469
1114.26.8705271118.0246.8549451121.9766.8086481123.7846.7862351125.5336.781861
1129.5456.696079 1131.26.6405741135.3066.627511 1139.556.5698031141.0676.548143
1145.4086.5012231146.8286.5190811151.2666.5094231152.5886.5185121153.8686.501984
1158.349 6.546111159.5356.549551 1164.116.5483011168.8396.5880571169.8716.599367
1170.8676.5898721175.621 6.6371176.5256.6503381181.3826.5934421186.4036.528528
1187.1436.5219891187.8596.5304571192.9046.5981171193.5266.5953371198.6656.549714
1203.9766.5283691204.4256.525875 1204.866.5240651210.186 6.674821212.9676.629958

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 480 .03 700 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
480 700 2992 2992 2992 .1 .3
Ineffective Flow num= 2

Sta L Sta R Elev Permanent
0 380 9.62 F
8501212.967 9.62 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 2

INPUT
Description:
Station Elevation Data num= 450
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
05.7169533.0405025.7272848.9270045.63529113.00954 5.5133518.665555.150424
19.52365.092546 20.1535.04306723.644384.86976327.296464.846236 28.40414.896162
34.439935.32750438.142655.49674141.583395.64870344.24558 5.7458848.714455.888123
52.482655.93789755.857925.96691857.619755.97146263.001385.99197164.844976.031773
68.965746.06541870.144846.07903277.096866.13594784.431776.15210285.448846.159145
89.569626.22756291.575236.249389 93.6904 6.28662 98.71876.355708104.62256.417423
105.86226.431399110.1707 6.43035113.00566.423311114.28846.400194116.03416.394171
120.14916.349084125.77276.339423126.64296.341413127.28026.353551130.76316.438363
134.42366.469761141.56716.553411143.12546.566182145.24986.591323148.71056.661066
151.36696.698236154.98836.709363 155.8546.702422158.2369 6.65463162.99756.557197
164.72696.549158 167.856.556769170.14096.560685174.46556.523278177.28446.475737
184.4279 6.41677188.45396.408127191.57136.447582193.94266.490539198.71486.561311
200.81416.565407203.68116.669197205.84596.738008212.98936.871006213.41966.873711
217.28936.873028220.13286.846286223.14136.797777225.52666.753677227.27626.765063
232.87986.851731234.41976.879658237.88896.948404241.56327.023889242.61847.034341
246.1304 7.04172248.70667.032128252.35697.044088255.85017.059837258.49287.061393
262.61367.032873265.46576.946252 270.1376.798804 271.834 6.72077274.97596.544682
277.28056.412162279.09666.316373281.57266.132911283.21746.018126 284.4245.928951
291.31115.482089 291.555 5.47225292.22635.489761298.69855.613196299.69345.654872
301.04975.728145303.81415.866703305.84195.973752307.93496.070765310.78826.167706
312.98546.238068319.03356.265806320.12896.275651320.52686.273324327.27236.187408
330.2484 6.0341332.65245.890036334.41585.797626336.77325.687289 339.987 5.51269
341.55935.434537345.88725.411466348.70275.373351349.13555.390818349.72555.438254
353.25635.741339355.84625.992569359.46416.252863362.98976.468141 365.6166.657739
369.20266.925377370.12076.997655 373.8537.279725377.26427.466333378.94127.531781
384.40767.633415388.6797 7.61297390.33617.593648391.55117.603062394.45697.604018
398.41837.567829399.45517.564639 405.8387.554999408.15687.542733412.98157.530588
415.06087.547766417.8954 7.5306419.18157.530075420.12497.539076426.2623 7.571
427.63397.579004431.54397.583354434.41197.578191435.66467.562784437.3725 7.5567
439.78367.533267441.55547.496255447.09417.324724448.69887.257403453.08747.184457
455.82997.117865456.83277.149724 460.3757.304821462.97337.358055464.49587.366015
466.57127.355714468.61657.354174470.11687.355956476.30987.293091477.26037.273585
479.87667.214764484.40377.097619486.04837.079006491.5472 6.98515493.34126.952773
495.78696.883705497.46196.818856498.69066.817505505.52546.686562505.83416.678715
509.82436.629783512.97766.643913513.94516.645947 515.2646.593026518.06586.499019
520.121 6.42308525.0025 6.39305526.30746.397216527.26456.382154533.45076.244791
534.39566.222284534.74116.225821538.66256.305429 541.5396.310773542.7833 6.32458
544.47966.330231546.90236.342032548.6825 6.4376551.02016.560472555.13856.615958
555.8266.607821560.29826.541742562.96946.505861563.93986.467423570.11296.308481
573.67836.291546577.2563 6.265579.86326.274123583.41696.291735584.3998 6.26986
587.10546.168361591.54335.977541592.22555.957663593.15555.898741596.34635.728696
598.68685.496616 602.894 4.98284605.83024.621269612.63264.541596612.97374.558617
616.94614.807698621.06375.153357622.37115.195052625.18455.288533627.24825.328558
629.3053 5.3578632.10975.353431 633.4265.347189634.39175.310977640.6733 5.15894
641.53515.136118641.84825.106658648.6786 4.40435651.58684.266542654.02994.148011
655.8224.308957658.15074.506679661.32534.807045662.96554.922031667.51014.954346
670.10894.998877671.04695.021776674.62665.163263677.25245.160633680.78555.321792
684.39595.542088 690.5245.875691691.53945.916679695.22685.916941699.34416.019505
700.26266.018379 740 6 760 -6.5 1040 -6.5 1060 6
1061.9227.3010241062.9387.3273341066.0437.2786981070.2777.3153291077.2247.341982
1078.4057.3453551080.0157.3358881082.5267.3358211084.3687.3053791089.7547.251793
1091.5117.2332251096.3497.1882091098.6557.1686451099.4927.1645871105.7867.121743
1109.2147.1593481112.9297.2085441115.4787.2408651118.9537.3119111120.0737.346432
1123.1567.3249141127.2167.313392 1127.847.3095241128.6917.315401 1134.367.271316
1138.437.1439431141.503 7.013361148.1686.7124461152.5656.550675 1155.796.395863
1157.9076.3194421162.9346.0687941167.6455.7560151170.0775.6445381176.7715.325494
1177.3845.298591 1181.415.1674711184.3645.2483261187.1225.3080491191.4955.311121
1193.7665.2824891196.8615.2727511198.6385.2459871203.5314.9462911205.7824.820852
1206.6 4.747241212.9254.3310261216.3384.4724331220.0694.7985131222.6065.093126
1226.065.3011771226.7255.3452421227.2125.3631251230.3855.4603671234.3565.590668
1235.7985.6311371241.499 5.733121245.5375.7386521248.6435.7789461251.4495.801606
1255.275 5.787931257.1925.778521 1262.935.7552771265.0145.7491691270.061 5.70536
1272.0465.6828441274.7535.6915561276.1675.7013361277.2045.6876151284.4915.577036
1288.5295.5577811291.4915.594691 1292.655.618702 1294.235.6207671296.771 5.62774
1298.6355.6563761303.9685.6882931305.7785.696522 1310.765.7979811312.9225.830954
1313.2545.8389531317.3755.8209231320.0655.8420991323.4455.8814821325.6155.874678
1327.2085.8762581334.3525.7656081337.9715.7583471341.4955.7752221342.9065.776441
1348.6265.7755111350.3265.7735771352.6445.7596911362.9135.689728 1366.815.728633
1370.0575.787065 1370.93 5.805841372.1215.814385 1377.25.861263 1381.865.816864
1384.3445.7710031391.1825.7471821395.6555.7242571398.6315.7147271401.3375.683331
1405.7745.7056661408.0175.7125591411.0755.7479311412.1385.7448371412.9185.749188
1417.9895.7597481420.0615.7587291420.8145.7713211427.2045.840155 1428.625.848466
1432.7365.8842131440.2915.9456721441.4795.9462891444.7715.9710411448.6225.993711
1455.7666.0147231459.7516.0733041461.5736.1096261462.9096.1132431465.6946.107527

1469.496.1365811470.053 6.136671479.228 6.094881482.1776.053236 1484.346.065204
1488.9676.0512961491.4836.0145321498.7055.9401761502.7815.858075 1506.95.738136
1508.4445.7574911512.9015.7071971518.1825.5690511520.0455.4423171525.1714.977206
1527.1884.8039621527.9214.7570291534.332 4.88691 1535.744.897698 1537.664.923121
1539.8615.0198461541.4755.0684641547.3985.2891111548.6195.336511 15525.463583
1555.7625.583578 1557.125.6380991562.9065.6822811564.5785.7114441566.8585.744007
1568.6995.7644331570.0495.7371511576.5975.7899951577.1925.7875241578.8325.769706
1584.3365.6889431585.1825.6895561586.3355.6707991589.3035.5616041591.4795.465133
1593.4225.3635171596.0745.278222 1598.615.1872781605.813 4.853131609.8994.775279
1612.8974.7727351615.5514.757854 1625.295.0735051627.1845.1095021630.5035.189753
1634.3285.2645881635.0285.2866281641.4715.4470281642.8665.4725681644.7675.489395
1648.6155.4926341655.7585.5342921659.2075.5346211664.2445.5505091667.5885.549706
1670.045 5.540761673.9655.4698721677.1765.4415171679.9385.4365191683.7045.520175
1686.0145.5551261691.4635.6103311693.4435.6389761698.607 5.625681700.5425.614193
1703.1815.6805021704.6635.695674 1705.755.672248 1712.925.5379561720.0375.504075
1721.1465.5012791722.6585.4479291725.2675.378125 1727.185.3742871731.2985.373521

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 740 .03 1060 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
740 1060 2485 2485 2485 .1 .3

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 1

INPUT
Description:
Station Elevation Data num= 166
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.139362.32024347.1399171.3857517.1293082.0531747.1050955.5647687.006631
8.849891 6.91609 9.742836.92267411.170846.95509615.634817.14119622.021447.448279
22.431527.45752823.119067.45179129.228247.40921432.872047.29375334.810637.213207
36.024957.12556141.311116.91823542.821676.84470843.168676.82031343.722646.747432
47.347696.28521449.618395.75497854.573244.842176 56.41514.59197859.884744.154867
63.211814.14333964.063764.12835465.423844.17830968.242774.28990170.008534.328534
76.274444.44257976.600814.44827976.805254.45258377.695214.46752283.601974.618624
84.958854.60362487.125034.62736789.137864.64219490.398684.62734695.861824.649078
97.183594.64630797.975634.647339103.9803 4.61532108.82624.600175110.02574.593111
110.7774.579875114.20474.583544117.57374.556514119.67684.541188124.37054.603098
126.737 4.65068130.50864.606395130.91354.599888131.16724.604856135.09254.629754
137.96394.547652139.27164.490444141.35924.465056143.45064.430177144.7606 4.39579
147.62964.233104151.5573 3.95681151.80863.963387152.20983.953728155.9876 3.87495
158.3544.043613160.1667 4.25548163.06044.634567164.34574.844993165.15084.897623
168.63925.119306171.93575.336616172.69645.360276 173.9115.394269176.87555.474509
178.73245.519883181.05455.568424184.76165.483582185.52915.491622189.41255.704286
192.3258 5.72928195.61225.760374199.1225 5.82594201.94965.826334205.9193 5.79649
206.12865.798643206.46285.788485 212.7165.587472217.31345.578351218.66565.606949
219.51275.600134222.8447 5.57725226.30945.618122 228.1645.658282233.10615.735694
239.01465.854323239.56045.863221239.90285.875692243.73666.031662246.69956.155753
247.91156.190144249.84636.182899252.08486.183189253.48456.150177 260 6
280 -7.7 560 -7.7 580 6586.4763 6.08955586.9778 6.14979
593.27317.028161597.02787.379149600.06987.658457603.0772 7.91203606.86658.269607
607.87848.342468613.66328.737169618.71029.083757620.45999.204063623.39359.193842
627.25679.193973 628.144 9.17494629.56089.147607632.32319.097367634.0533 9.07832
640.41148.930387640.8383 8.91778 641.5548.904679647.63498.768626 651.2628.729102
654.43178.669438657.3899 8.62072661.22848.589652662.11268.583015668.02518.554443
669.9278.539376672.96328.500792674.82188.496014 677.9388.522849681.61858.561017
683.81388.545994688.41538.499235694.66448.387005 695.2128.390443696.13018.377296
702.00878.288918703.35918.287889 705.5158.268189707.53818.278418708.80548.274513
714.29668.042742715.59037.989136715.88897.987435716.36567.973315720.06797.906287
722.387 7.77662727.2162 7.77945729.18387.753947 732.6057.924538735.98058.050848
738.06688.134135742.77728.341791748.89868.522486749.57398.538365750.70628.526504
752.94878.498083

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 260 .03 580 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
260 580 0 0 0 .1 .3

SUMMARY OF MANNING'S N VALUES

River:GatorSlough

Reach	River Sta.	n1	n2	n3
GatorSlough	6	.2	.03	.2
GatorSlough	5	.2	.03	.2
GatorSlough	4.95	Inl Struct		
GatorSlough	4.9	.2	.03	.2

GatorSlough	4.89	.2	.03	.2
GatorSlough	4.75	Bridge		
GatorSlough	4.6	.2	.03	.2
GatorSlough	4.59	.2	.03	.2
GatorSlough	4.35	Bridge		
GatorSlough	4	.2	.03	.2
GatorSlough	3	.1	.03	.1
GatorSlough	2	.1	.03	.1
GatorSlough	1	.1	.03	.1

SUMMARY OF REACH LENGTHS

River: GatorSlough

Reach	River Sta.	Left	Channel	Right
GatorSlough	6	325	325	325
GatorSlough	5	32	32	32
GatorSlough	4.95	Inl Struct		
GatorSlough	4.9	1	1	1
GatorSlough	4.89	94	94	94
GatorSlough	4.75	Bridge		
GatorSlough	4.6	1	1	1
GatorSlough	4.59	124	124	124
GatorSlough	4.35	Bridge		
GatorSlough	4	114	114	114
GatorSlough	3	2992	2992	2992
GatorSlough	2	2485	2485	2485
GatorSlough	1	0	0	0

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: GatorSlough

Reach	River Sta.	Contr.	Expan.
GatorSlough	6	.1	.3
GatorSlough	5	.3	.5
GatorSlough	4.95	Inl Struct	
GatorSlough	4.9	.3	.5
GatorSlough	4.89	.3	.5
GatorSlough	4.75	Bridge	
GatorSlough	4.6	.3	.5
GatorSlough	4.59	.3	.5
GatorSlough	4.35	Bridge	
GatorSlough	4	.3	.5
GatorSlough	3	.1	.3
GatorSlough	2	.1	.3
GatorSlough	1	.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/ft)	E.G. Elev (ft/s)	E.G. Slope (sq ft)	Vel Chnl (ft)	Flow Area	Top Width	Froude # Chl
GatorSlough	6	50yr	1469.00	-5.18	3.17	-4.00	3.18	0.000018	0.82	1794.54	229.87	0.05
GatorSlough	6	100yr	1656.00	-5.18	3.32	-3.90	3.33	0.000022	0.91	1829.10	230.41	0.06
GatorSlough	6	500yr	2137.00	-5.18	3.71	-3.66	3.73	0.000031	1.11	1918.50	231.79	0.07
GatorSlough	5	50yr	1469.00	-5.18	3.16	-3.91	3.17	0.000022	0.90	1637.93	212.77	0.06
GatorSlough	5	100yr	1656.00	-5.18	3.31	-3.81	3.32	0.000026	0.99	1669.55	213.35	0.06
GatorSlough	5	500yr	2137.00	-5.18	3.69	-3.55	3.71	0.000038	1.22	1751.35	214.86	0.08
GatorSlough	4.95	Inl Struct										
GatorSlough	4.9	50yr	1469.00	-5.18	1.26	-3.91	1.29	0.000053	1.18	1241.56	205.32	0.08
GatorSlough	4.9	100yr	1656.00	-5.18	1.30	-3.81	1.32	0.000066	1.33	1248.30	205.45	0.09
GatorSlough	4.9	500yr	2137.00	-5.18	1.40	-3.55	1.44	0.000104	1.68	1268.94	205.84	0.12
GatorSlough	4.89	50yr	1469.00	-5.18	1.27	-4.07	1.28	0.000039	1.04	1417.40	219.93	0.07
GatorSlough	4.89	100yr	1656.00	-5.18	1.30	-3.98	1.32	0.000049	1.16	1424.76	219.93	0.08
GatorSlough	4.89	500yr	2137.00	-5.18	1.40	-3.75	1.44	0.000078	1.48	1447.24	219.93	0.10
GatorSlough	4.75	Bridge										
GatorSlough	4.6	50yr	1469.00	-5.18	1.24	-3.78	1.27	0.000082	1.47	1000.11	155.91	0.10
GatorSlough	4.6	100yr	1656.00	-5.18	1.26	-3.66	1.30	0.000103	1.65	1004.11	155.92	0.11
GatorSlough	4.6	500yr	2137.00	-5.18	1.34	-3.38	1.41	0.000165	2.10	1016.35	155.92	0.15
GatorSlough	4.59	50yr	1469.00	-5.18	1.24	-3.78	1.27	0.000082	1.47	1000.10	155.91	0.10
GatorSlough	4.59	100yr	1656.00	-5.18	1.26	-3.66	1.30	0.000103	1.65	1004.09	155.92	0.11

GatorSlough	4.59	500yr	2137.00	-5.18	1.34	-3.38	1.41	0.000165	2.10	1016.33	155.92	0.15
GatorSlough	4.35		Bridge									
GatorSlough	4	50yr	1469.00	-5.18	1.23	-3.91	1.25	0.000054	1.20	1226.57	202.92	0.09
GatorSlough	4	100yr	1656.00	-5.18	1.25	-3.80	1.28	0.000068	1.34	1231.23	203.00	0.10
GatorSlough	4	500yr	2137.00	-5.18	1.32	-3.55	1.37	0.000109	1.72	1245.54	203.26	0.12
GatorSlough	3	50yr	1469.00	-5.20	1.22	-3.94	1.24	0.000054	1.20	1229.26	202.93	0.09
GatorSlough	3	100yr	1656.00	-5.20	1.24	-3.82	1.27	0.000068	1.34	1233.59	203.01	0.10
GatorSlough	3	500yr	2137.00	-5.20	1.31	-3.57	1.35	0.000109	1.71	1246.95	203.24	0.12
GatorSlough	2	50yr	1469.00	-6.50	1.16		1.17	0.000012	0.66	2239.59	304.52	0.04
GatorSlough	2	100yr	1656.00	-6.50	1.17		1.18	0.000016	0.74	2241.48	304.54	0.05
GatorSlough	2	500yr	2137.00	-6.50	1.19		1.20	0.000026	0.95	2247.35	304.60	0.06
GatorSlough	1	50yr	1469.00	-7.70	1.14	-6.75	1.15	0.000008	0.57	2589.28	305.81	0.03
GatorSlough	1	100yr	1656.00	-7.70	1.14	-6.68	1.15	0.000010	0.64	2589.28	305.81	0.04
GatorSlough	1	500yr	2137.00	-7.70	1.14	-6.49	1.15	0.000016	0.83	2589.28	305.81	0.05

HEC-RAS HEC-RAS 6.3.1 September 2022
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

```
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
```

Existing: MLW

PROJECT DATA
Project Title: BurntStoreRd
Project File : BurntStoreRd.prj
Run Date and Time: 12/12/2022 2:43:20 PM

Project in English units

PLAN DATA

Plan Title: ext-MLW
Plan File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.p01

Geometry Title: ext
Geometry File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.g01

Flow Title : MLW
Flow File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.f01

Plan Summary Information:
Number of: Cross Sections = 10 Multiple Openings = 0
Culverts = 0 Inline Structures = 1
Bridges = 2 Lateral Structures = 0

Computational Information
Water surface calculation tolerance = 0.01
Critical depth calculation tolerance = 0.01
Maximum number of iterations = 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: Subcritical Flow

FLOW DATA

Flow Title: MLW
Flow File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.f01

Flow Data (cfs)

River	Reach	RS	2yr	10yr	50yr	100yr	500yr
GatorSlough	GatorSlough	6	523	1027	1469	1656	2137

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
GatorSlough	GatorSlough	2yr		Known WS = -1.21
GatorSlough	GatorSlough	10yr		Known WS = -1.21
GatorSlough	GatorSlough	50yr		Known WS = -1.21
GatorSlough	GatorSlough	100yr		Known WS = -1.21
GatorSlough	GatorSlough	500yr		Known WS = -1.21

GEOMETRY DATA

Geometry Title: ext
Geometry File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.g01

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 6

INPUT
Description:
Station Elevation Data num= 209
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
015.810931.51197215.095671.92719414.987436.63488811.569927.73904611.15956
10 11.0021 20 6 40 -5.18 240 -5.18 260 6
275.03386.596048278.10496.911404280.84567.456571 284.4386.734048286.6575 6.5253
288.35086.438589292.46936.274312297.86776.115646298.28126.105773298.5966 6.09227
300.94216.032612 304.093 5.95349308.84255.842399309.9049 5.819311.29755.814687
315.71685.739794319.08835.789398321.52865.818156324.21125.834075327.34055.825157
329.33415.874362333.15235.917914 338.1575.888027338.9642 5.88453 344.1596.053599
344.6946.071371344.76596.073395349.81576.008409350.57786.005298351.5771 6.01119
356.38966.023088360.05946.059943362.20156.055526365.18136.049381368.01336.058471
371.72726.010323373.82526.015296 375.4255.996241 379.6376.037355380.5469 6.05109
385.4489 6.08776387.30086.088549391.26076.094091395.91426.172667397.07266.182955
401.03716.267283402.88446.274123405.30096.325582408.68626.254711411.27416.201979
414.4986.053845418.72396.043635420.30996.038623421.51996.044792426.12186.094304
430.51766.101513431.93366.098101436.88875.982147437.74555.952732442.01165.853244
443.55735.746291447.1345 5.70066449.3692 5.74631452.25745.669144 455.1815.859259
457.38035.908049460.99295.938123462.50325.892483466.80475.785176472.44295.688177
472.61665.684698472.74895.682794473.73445.681715 477.864 5.64786478.41835.653611
479.14615.628216484.23025.317559488.10895.392888490.04215.438355492.57595.466997
495.85395.566537498.35485.440666501.66575.283715503.4777 5.24147507.47765.068574
512.72055.411178513.28945.513938513.72355.462605516.9512 5.5736518.84645.625485
519.10135.654751523.96945.908846524.91316.093889526.15036.010974 530.7255.962567
532.8651 5.87769536.53695.811903539.33385.797331542.3386 5.59487546.28325.880001
548.1505 6.05307 549.5755.993674553.9623 5.71997554.69795.715087559.7742 5.79931
559.82095.800912 560.168 5.80842564.9438 5.91833 565.5865.946776570.06675.885418
571.39795.894733575.18965.880164577.20975.730837580.31255.681929583.02165.751864
586.57255.878968588.83345.875722590.55835.930823594.64536.129188595.68136.138294
600.45726.376047600.80366.383942603.38486.457893606.25896.480248611.04115.945451
612.07075.888593613.4203 5.85749617.88265.916133 621.2876.031165623.69455.995027
626.85015.936799629.50635.889764631.53286.066576635.31826.450052640.27985.822372
641.135.726723646.60175.965977646.94195.985181652.02456.009749652.75375.991779
653.70966.046184658.56566.082474662.27036.140758664.37746.047635667.1393 6.29102
670.18936.738739672.51266.479763 675.9916.378997677.63016.409996681.80296.370804
687.27236.323199687.61476.319861 687.8766.290436689.81856.195624692.99896.054155
693.42666.014174698.12186.156136699.23856.202541703.24486.309748705.05036.285812
708.36766.052905710.86215.843195713.49055.776447 716.6745.804971718.61355.935477
722.48586.050159723.73646.232004728.29776.781312728.8593 6.78227733.03536.834223
734.10966.845201739.09757.196379739.91137.252722744.21927.342844745.72317.263627
747.69467.089917 751.5356.659433754.4094 6.78285757.34696.858228759.58796.877946
763.15887.036226767.83926.835387768.97066.703438774.55416.824662774.78246.822989
774.95676.827647776.25216.837759780.0796 6.80856780.59436.882199781.26896.851957
786.40617.051636790.32546.907259 792.2186.825349795.44836.539918798.02986.531018
801.41366.242802803.84176.264877805.6913 6.32447805.73866.327927

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 20 .03 260 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
20 260 325 325 325 .1 .3
Ineffective Flow num= 1
Sta L Sta R Elev Permanent
613805.7386 15.2 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 5

INPUT
Description:
Station Elevation Data num= 341
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085

158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 480 -5.18 660 -5.18
680 5 682.655.201958 686.27 6.51197 688.416.646765 690.576.395789
694.176.028631 696.356.031603 699.935.760584 703.495.806512 705.695.901203
707.915.912693 711.455.961146 713.695.971509 717.215.990309 720.726.055212
722.976.082868 725.256.130817 728.736.195405 731.026.266038 734.496.309402
737.94 6.29144 740.246.274554 742.576.240178 7466.245327 748.356.266367
751.766.240268 755.16 6.27674 757.526.253942 760.96.210955 763.286.191328
766.646.223729 769.046.303157 771.476.343992 774.8 6.32344 777.256.549578
780.567.120556 783.867.323772 786.327.537362 788.87.439013 792.087.919167
794.588.010237 797.84 7.53986 801.087.808455 803.597.897904 806.138.063661
809.358.175103 811.918.027006 815.117.873364 818.37.742838 820.877.416549
824.046.450529 826.636.309551 829.786.100852 832.395.714542 835.035.925725
838.155.892141 840.85.814042 843.915.882748 847.015.810428 849.675.774001
852.365.911799 855.436.110879 858.496.202652 861.196.296753 863.926.336125
866.956.283342 869.976.206295 872.76.162942 875.47 6.1759 878.466.089849
881.446.124307 884.225.761577 887.18 5.66601 889.985.603367 892.85.576531
895.74 5.67678 898.676.003618 901.516.169354 904.415.969446 907.275.999123
910.146.074927 913.036.166425 915.926.294439 918.796.310585 921.76.385173
924.556.361009 927.486.686382 930.316.855771 933.256.611907 936.066.621873
939.036.396754 941.826.462412 944.596.358266 947.586.322489 950.586.259845
953.346.032999 956.076.246696 959.16.442094 961.816.328462 964.856.318246
967.92 6.24518 970.616.370282 973.296.316515 976.38 6.34482 979.036.274142
982.146.248429 985.266.268067 987.9 6.36914 991.046.492695 993.666.640201
996.816.727577 999.41 6.76576 1001.996.520175 1005.176.559641 1008.366.302435
1010.936.318871 1014.146.419885 1016.696.516535 1019.216.257981 1022.456.131716
1025.76.219831 1028.216.266894 1031.486.463554 1033.97 6.58636 1036.446.704932
1039.736.938327 1043.046.583048 1045.496.363355 1047.926.464112 1051.256.509693
1054.596.492799 1057.016.879647 1059.46.764329 1062.776.699128 1066.15 7.05378
1068.526.615536 1070.886.816121 1074.286.596465 1076.626.654968 1080.046.600485
1083.486.611983 1085.86.703542 1088.16.703364 1091.566.890389 1095.046.365082
1097.326.108542 1099.586.104549 1103.086.125782 1106.596.200291 1108.84 6.16669
1111.066.376547 1114.66.888419 1116.816.823857 1120.366.587055 1123.936.489574
1126.126.720788 1128.286.815931 1131.876.883187 1135.487.156588 1137.637.033715
1139.767.101669 1143.396.811024 1147.046.838494 1149.15 6.68716 1151.246.511702
1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 32 32 32 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 432 15.2 F
708 1153.11 15.2 F

INLINE STRUCTURE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.95

INPUT
Description: US weir
Distance from Upstream XS = 28
Deck/Roadway Width = 2
Weir Coefficient = 2.6
Weir Embankment Coordinates num = 2
Sta Elev Sta Elev
460 1.22 700 1.22

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Weir crest shape = Broad Crested

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4.9

INPUT
Description: dup RS 5
Station Elevation Data num= 341
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085
158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 480 -5.18 660 -5.18
680 5 682.655.201958 686.27 6.51197 688.416.646765 690.576.395789
694.176.028631 696.356.031603 699.935.760584 703.495.806512 705.695.901203
707.915.912693 711.455.961146 713.695.971509 717.215.990309 720.726.055212
722.976.082868 725.256.130817 728.736.195405 731.026.266038 734.496.309402
737.94 6.29144 740.246.274554 742.576.240178 7466.245327 748.356.266367
751.766.240268 755.16 6.27674 757.526.253942 760.96.210955 763.286.191328
766.646.223729 769.046.303157 771.476.343992 774.8 6.32344 777.256.549578
780.567.120556 783.867.323772 786.327.537362 788.87.439013 792.087.919167
794.588.010237 797.84 7.53986 801.087.808455 803.597.897904 806.138.063661
809.358.175103 811.918.027006 815.117.873364 818.37.742838 820.877.416549
824.046.450529 826.636.309551 829.786.100852 832.395.714542 835.035.925725
838.155.892141 840.85.814042 843.915.882748 847.015.810428 849.675.774001
852.365.911799 855.436.110879 858.496.202652 861.196.296753 863.926.336125
866.956.283342 869.976.206295 872.76.162942 875.47 6.1759 878.466.089849
881.446.124307 884.225.761577 887.18 5.66601 889.985.603367 892.85.576531
895.74 5.67678 898.676.003618 901.516.169354 904.415.969446 907.275.999123
910.146.074927 913.036.166425 915.926.294439 918.796.310585 921.76.385173
924.556.361009 927.486.686382 930.316.855771 933.256.611907 936.066.621873
939.036.396754 941.826.462412 944.596.358266 947.586.322489 950.586.259845
953.346.032999 956.076.246696 959.16.442094 961.816.328462 964.856.318246
967.92 6.24518 970.616.370282 973.296.316515 976.38 6.34482 979.036.274142
982.146.248429 985.266.268067 987.9 6.36914 991.046.492695 993.666.640201
996.816.727577 999.41 6.76576 1001.996.520175 1005.176.559641 1008.366.302435
1010.936.318871 1014.146.419885 1016.696.516535 1019.216.257981 1022.456.131716
1025.76.219831 1028.216.266894 1031.486.463554 1033.97 6.58636 1036.446.704932
1039.736.938327 1043.046.583048 1045.496.363355 1047.926.464112 1051.256.509693
1054.596.492799 1057.016.879647 1059.46.764329 1062.776.699128 1066.15 7.05378
1068.526.615536 1070.886.816121 1074.286.596465 1076.626.654968 1080.046.600485
1083.486.611983 1085.86.703542 1088.16.703364 1091.566.890389 1095.046.365082
1097.326.108542 1099.586.104549 1103.086.125782 1106.596.200291 1108.84 6.16669
1111.066.376547 1114.66.888419 1116.816.823857 1120.366.587055 1123.936.489574
1126.126.720788 1128.286.815931 1131.876.883187 1135.487.156588 1137.637.033715
1139.767.101669 1143.396.811024 1147.046.838494 1149.15 6.68716 1151.246.511702
1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 1 1 1 .3 .5
Ineffective Flow num= 2

```
  Sta L   Sta R    Elev  Permanent
    -40    445   15.2      F
 695.25 1153.11   15.2      F

CROSS SECTION


RIVER: GatorSlough
REACH: GatorSlough        RS: 4.89

INPUT
Description: dup RS 5
Station Elevation Data    num=     343
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
     -40 6.40475  -37.24   6.399  -37.026.398235  -31.486.389614   -25.96.267672
  -25.726.265655  -25.546.264254  -19.966.117541   -19.86.120116   -14.26.079359
   -8.57 6.29748   -8.446.299347   -8.316.305284   -2.686.683675   -2.576.686794
   3.087.012018    8.776.919583    8.846.921832    8.916.919635   14.596.536195
  14.646.532438   20.356.542585    26.16.220605   26.116.220217   26.126.220474
  30.366.487984   31.87 6.58304   37.61 6.88196   37.636.881915   37.656.881639
  43.396.760462   43.436.758618   49.156.448464   54.836.260639   54.916.260697
  54.996.259161   60.676.426044   60.776.428965   66.436.325921   72.05 6.76737
  72.196.768289   72.336.769689   77.947.109261    78.17.112264   83.77.031016
  89.27   6.583   89.466.575857   89.656.579198   95.226.181042   95.436.172585
 100.986.575974  106.496.550959  106.74 6.55113  106.996.567522   112.56.664949
 117.976.762691  118.266.780375  118.556.769499  124.02 6.88309  129.466.984616
 129.787.006915  130.117.015774  135.547.173774  135.897.185001   141.37.248809
 146.677.243085  147.057.232946  152.417.197012  152.817.196423  153.217.197085
 158.577.179951  163.897.234093  164.337.236252  169.647.340766  170.097.344185
 170.55 7.34699  175.857.469349  181.127.507696  181.617.506649  186.867.305055
 187.377.303405  187.897.290659  193.137.138133  198.347.011026  198.896.991798
 204.086.865872  204.656.859518  205.226.858679   210.46.825923  215.566.734319
 216.166.715126  216.776.707654  221.926.586567  222.556.581397  227.686.629734
 232.786.537021  233.446.524528  234.116.505478   239.26.504333  239.896.489673
 244.966.417924     2506.498955  250.726.512369  251.446.513701  256.486.468071
 257.226.472039  262.246.717733  267.236.837183     2686.837797  268.786.861415
 273.766.980472  274.566.975163  279.516.735236  284.446.738209  285.276.719759
 286.11 6.71338  291.036.861556  291.896.891734  296.796.889187  301.676.927267
 302.556.950416  303.446.990143  308.31 7.15539  309.227.148989  314.07 7.23408
 318.897.236662  319.837.272815  320.787.271133  325.597.308398  326.567.297071
 331.357.273354  332.347.332561  337.117.555247  341.857.625834  342.867.641699
 347.597.627559  348.62 7.61434  349.67 7.64108  354.387.701519  359.077.595617
 360.147.571332  361.22 7.55008   365.97.442764     3677.365368  371.667.071505
 376.296.962797  377.426.913003  378.567.006341  383.187.296581  384.34 7.31621
 388.94 7.29075  393.527.005053   394.7 6.92965   395.96.867858  400.466.976988
 401.686.998838  406.227.026398  410.736.872643  411.976.853057  413.226.870495
 417.736.918495     4196.953634  423.497.026543  427.957.020765  429.257.024062
 430.566.980596  435.016.766422  436.346.688295  440.776.334496  442.126.276613
 446.535.638418   447.95.484687     460      5   460.1   -5.18     480   -5.18
    660   -5.18   679.9   -5.18     680      5  682.655.201958  686.27 6.51197
 688.416.646765  690.576.395789  694.176.028631  696.356.031603  699.935.760584
 703.495.806512  705.695.901203  707.915.912693  711.455.961146  713.695.971509
 717.215.990309  720.726.055212  722.976.082868  725.256.130817  728.736.195405
 731.026.266038  734.496.309402  737.94 6.29144  740.246.274554  742.576.240178
   7466.245327  748.356.266367  751.766.240268  755.16 6.27674  757.526.253942
  760.96.210955  763.286.191328  766.646.223729  769.046.303157  771.476.343992
  774.8 6.32344  777.256.549578  780.567.120556  783.867.323772  786.327.537362
  788.87.439013  792.087.919167  794.588.010237  797.84 7.53986  801.087.808455
 803.597.897904  806.138.063661  809.358.175103  811.918.027006  815.117.873364
  818.37.742838  820.877.416549  824.046.450529  826.636.309551  829.786.100852
 832.395.714542  835.035.925725  838.155.892141   840.85.814042  843.915.882748
 847.015.810428  849.675.774001  852.365.911799  855.436.110879  858.496.202652
 861.196.296753  863.926.336125  866.956.283342  869.976.206295   872.76.162942
 875.47  6.1759  878.466.089849  881.446.124307  884.225.761577  887.18 5.66601
 889.985.603367   892.85.576531  895.74 5.67678  898.676.003618  901.516.169354
 904.415.969446  907.275.999123  910.146.074927  913.036.166425  915.926.294439
 918.796.310585   921.76.385173  924.556.361009  927.486.686382  930.316.855771
 933.256.611907  936.066.621873  939.036.396754  941.826.462412  944.596.358266
 947.586.322489  950.586.259845  953.346.032999  956.076.246696   959.16.442094
 961.816.328462  964.856.318246  967.92 6.24518  970.616.370282  973.296.316515
 976.38 6.34482  979.036.274142  982.146.248429  985.266.268067   987.9 6.36914
 991.046.492695  993.666.640201  996.816.727577  999.41 6.76576 1001.996.520175
1005.176.559641 1008.366.302435 1010.936.318871 1014.146.419885 1016.696.516535
1019.216.257981 1022.456.131716  1025.76.219831 1028.216.266894 1031.486.463554
1033.97 6.58636 1036.446.704932 1039.736.938327 1043.046.583048 1045.496.363355
1047.926.464112 1051.256.509693 1054.596.492799 1057.016.879647  1059.46.764329
1062.776.699128 1066.15 7.05378 1068.526.615536 1070.886.816121 1074.286.596465
1076.626.654968 1080.046.600485 1083.486.611983  1085.86.703542  1088.16.703364
1091.566.890389 1095.046.365082 1097.326.108542 1099.586.104549 1103.086.125782
1106.596.200291 1108.84 6.16669 1111.066.376547  1114.66.888419 1116.816.823857
1120.366.587055 1123.936.489574 1126.126.720788 1128.286.815931 1131.876.883187
1135.487.156588 1137.637.033715 1139.767.101669 1143.396.811024 1147.046.838494
1149.15 6.68716 1151.246.511702 1153.116.624816

Manning's n Values        num=      3
    Sta   n Val     Sta   n Val     Sta   n Val
    -40     .2     460    .03     680     .2
```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 94 94 94 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 446 15.2 F
694.25 1153.11 15.2 F

BRIDGE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.75

INPUT
Description: NB
Distance from Upstream XS = 10
Deck/Roadway Width = 62.5
Weir Coefficient = 2.6
Upstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-41 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1154 15.2

Upstream Bridge Cross Section Data
Station Elevation Data num= 343
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085
158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 460.1 -5.18 480 -5.18
660 -5.18 679.9 -5.18 680 5 682.655.201958 686.27 6.51197
688.416.646765 690.576.395789 694.176.028631 696.356.031603 699.935.760584
703.495.806512 705.695.901203 707.915.912693 711.455.961146 713.695.971509
717.215.990309 720.726.055212 722.976.082868 725.256.130817 728.736.195405
731.026.266038 734.496.309402 737.94 6.29144 740.246.274554 742.576.240178
7466.245327 748.356.266367 751.766.240268 755.16 6.27674 757.526.253942
760.96.210955 763.286.191328 766.646.223729 769.046.303157 771.476.343992
774.8 6.32344 777.256.549578 780.567.120556 783.867.323772 786.327.537362
788.87.439013 792.087.919167 794.588.010237 797.84 7.53986 801.087.808455
803.597.897904 806.138.063661 809.358.175103 811.918.027006 815.117.873364
818.37.742838 820.877.416549 824.046.450529 826.636.309551 829.786.100852
832.395.714542 835.035.925725 838.155.892141 840.85.814042 843.915.882748
847.015.810428 849.675.774001 852.365.911799 855.436.110879 858.496.202652
861.196.296753 863.926.336125 866.956.283342 869.976.206295 872.76.162942
875.47 6.1759 878.466.089849 881.446.124307 884.225.761577 887.18 5.66601
889.985.603367 892.85.576531 895.74 5.67678 898.676.003618 901.516.169354
904.415.969446 907.275.999123 910.146.074927 913.036.166425 915.926.294439
918.796.310585 921.76.385173 924.556.361009 927.486.686382 930.316.855771
933.256.611907 936.066.621873 939.036.396754 941.826.462412 944.596.358266
947.586.322489 950.586.259845 953.346.032999 956.076.246696 959.16.442094
961.816.328462 964.856.318246 967.92 6.24518 970.616.370282 973.296.316515
976.38 6.34482 979.036.274142 982.146.248429 985.266.268067 987.9 6.36914
991.046.492695 993.666.640201 996.816.727577 999.41 6.76576 1001.996.520175
1005.176.559641 1008.366.302435 1010.936.318871 1014.146.419885 1016.696.516535
1019.216.257981 1022.456.131716 1025.76.219831 1028.216.266894 1031.486.463554
1033.97 6.58636 1036.446.704932 1039.736.938327 1043.046.583048 1045.496.363355

1047.926.464112 1051.256.509693 1054.596.492799 1057.016.879647 1059.46.764329
1062.776.699128 1066.15 7.05378 1068.526.615536 1070.886.816121 1074.286.596465
1076.626.654968 1080.046.600485 1083.486.611983 1085.86.703542 1088.16.703364
1091.566.890389 1095.046.365082 1097.326.108542 1099.586.104549 1103.086.125782
1106.596.200291 1108.84 6.16669 1111.066.376547 1114.66.888419 1116.816.823857
1120.366.587055 1123.936.489574 1126.126.720788 1128.286.815931 1131.876.883187
1135.487.156588 1137.637.033715 1139.767.101669 1143.396.811024 1147.046.838494
1149.15 6.68716 1151.246.511702 1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Coeff Contr. Expan.
460 680 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 446 15.2 F
694.25 1153.11 15.2 F

Downstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-21 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1200 15.2

Downstream Bridge Cross Section Data
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749
79.04 5.82 81.15 5.819 84.8 5.85 88.36 5.88 90.55 5.88
94.06 5.9 96.31 5.909 98.6 5.914 102.07 5.915 105.46 5.893
107.83 5.902 111.16 5.957 113.59 5.955 116.07 6.015 119.35 6.047
122.55 6.001 125.11 5.951 128.25 5.972 130.87 5.999 133.54 5.995
136.63 5.995 139.65 5.995 142.39 5.967 145.35 6.01 148.15 6.064
151.01 6.052 153.91 6.021 156.75 6.078 159.66 6.084 162.64 6.012
165.42 5.945 168.14 5.985 171.18 5.992 174.29 6.096 176.94 6.073
179.54 6.067 182.7 6.019 185.93 6.051 188.46 6.052 191.76 6.015
194.22 6.012 196.64 5.993 199.98 5.999 202.34 5.994 205.74 6.035
209.22 5.986 211.5 6.054 213.74 6.021 217.26 6.011 219.43 6.018
223.01 6.016 226.68 6.087 228.77 6.061 230.82 5.997 234.53 5.941
236.52 5.997 240.29 6.074 244.15 6.09 246.06 6.094 247.92 6.13
251.82 6.123 253.62 6.125 257.58 6.167 261.62 6.141 263.34 6.143
265.02 6.134 269.1 6.094 270.72 6.109 274.86 6.092 279.08 6.181
280.62 6.17 282.12 6.162 286.38 6.116 287.82 6.152 292.13 6.32
296.54 6.32 297.89 6.313 299.21 6.301 303.65 6.384 304.91 6.413
309.41 6.214 314.01 6.016 315.17 6.003 316.3 5.973 320.93 5.867
322 5.835 326.69 5.859 331.48 6.021 332.45 6.017 333.4 5.997
338.21 6.159 339.1 6.17 343.97 6.204 348.94 6.277 349.73 6.307
350.5 6.307 355.48 6.252 356.19 6.272 361.24 6.207 366.4 6.226
367 6.211 367.59 6.211 372.76 6.268 373.29 6.262 378.52 6.203
383.87 6.304 384.28 6.308 384.69 6.295 390.04 6.229 395.51 6.305
395.8 6.309 401.34 6.384 401.56 6.387 401.79 6.389 407.32 6.268
412.98 6.54 413.08 6.541 418.81 6.612 418.85 6.614 418.88 6.613
422.55 6.478 424.57 6.404 424.6 6.404 430.27 6.549 430.36 6.55
430.44 6.549 436.12 6.532 441.67 6.403 441.88 6.407 442.09 6.406
447.64 6.389 453.07 6.385 453.4 6.389 453.73 6.385 459.16 6.331
459.55 6.328 464.92 6.356 465.38 6.356 470.68 6.287 475.87 6.396
476.44 6.422 477.02 6.437 482.2 6.644 487.26 6.749 487.95 6.743
488.66 6.741 492 6 492.1 -5.18 647.9 -5.18 648 6
654.97 6.693 658.94 6.731 660.73 6.732 662.55 6.727 663.1 6.721
666.49 6.682 670.45 6.8 672.25 6.83 674.05 6.883 678.01 6.775
681.99 6.549 683.76 6.491 685.53 6.5 689.52 6.452 693.54 6.392
695.28 6.352 697.02 6.38 701.04 6.456 702.76 6.485 706.8 6.443
708.51 6.421 712.56 6.488 714.26 6.48 718.32 6.406 720 6.419
724.08 6.519 725.75 6.402 729.84 6.393 731.49 6.347 735.6 6.297
737.24 6.256 741.36 6.212 745.51 6.211 747.12 6.257 748.73 6.295
752.87 6.399 757.05 6.434 758.63 6.46 760.21 6.454 764.39 6.422
768.59 6.455 770.15 6.451 771.7 6.459 775.91 6.458 780.14 6.538
781.67 6.544 783.2 6.575 787.43 6.747 791.69 6.725 793.19 6.744
794.69 6.774 798.95 6.819 800.43 6.792 804.71 6.799 806.18 6.804
810.47 6.747 811.92 6.746 816.22 6.859 817.66 6.836 821.98 6.716
823.41 6.698 827.74 6.674 832.1 6.669 833.5 6.68 834.9 6.669
839.26 6.672 843.65 6.648 845.02 6.625 846.39 6.627 850.78 6.574
855.2 6.59 856.54 6.575 857.88 6.592 862.3 6.551 863.63 6.537
868.06 6.537 872.52 6.472 873.82 6.47 875.12 6.466 879.58 6.517
880.86 6.513 885.33 6.51 886.6 6.507 891.09 6.473 892.35 6.474
896.85 6.478 898.09 6.477 902.61 6.508 903.84 6.52 908.37 6.516
909.58 6.502 914.13 6.486 918.71 6.49 919.89 6.491 921.08 6.501
925.65 6.542 926.82 6.538 931.41 6.521 932.57 6.523 937.17 6.501
938.31 6.501 942.93 6.451 944.06 6.443 948.68 6.434 949.79 6.432
954.44 6.436 959.12 6.412 960.2 6.426 961.29 6.428 965.96 6.42

967.03 6.405 971.72 6.4 972.78 6.415 977.48 6.441 982.21 6.426
983.24 6.419 984.27 6.41 989 6.394 990.02 6.389 994.76 6.351
999.53 6.355 1000.52 6.351 1001.51 6.359 1006.28 6.413 1011.08 6.356
1012.03 6.34 1012.99 6.347 1017.79 6.38 1018.73 6.38 1023.55 6.339
1028.4 6.325 1029.31 6.331 1030.23 6.329 1035.07 6.37 1035.97 6.37
1040.83 6.338 1041.72 6.336 1046.59 6.315 1047.46 6.313 1052.35 6.317
1053.21 6.315 1058.11 6.341 1058.96 6.367 1063.87 6.355 1064.7 6.34
1069.63 6.333 1074.59 6.41 1075.39 6.409 1076.19 6.417 1081.14 6.443
1081.93 6.444 1086.9 6.429 1087.68 6.432 1092.66 6.514 1093.42 6.515
1098.42 6.464 1099.17 6.456 1104.18 6.364 1104.91 6.362 1109.94 6.343
1115 6.361 1115.7 6.352 1116.4 6.352 1121.46 6.325 1122.15 6.319
1127.22 6.291 1127.9 6.292 1132.98 6.314 1138.1 6.354 1138.74 6.355
1139.39 6.362 1144.49 6.356 1145.12 6.355 1150.25 6.34 1155.41 6.406
1156.01 6.407 1156.61 6.403 1161.77 6.414 1162.36 6.418 1167.53 6.424
1168.11 6.431 1168.83 6.436

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-20 .2 492 .03 648 .2

Bank Sta: Left Right Coeff Contr. Expan.
492 648 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-20 456 15.2 F
684.25 1168.83 15.2 F

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 2

Pier Data
Pier Station Upstream= 532 Downstream= 532
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Pier Data
Pier Station Upstream= 608.1 Downstream= 608.1
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Highest Energy Answer

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4.6

INPUT
Description:
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749

```
 79.04   5.82  81.15  5.819   84.8   5.85  88.36   5.88  90.55   5.88
 94.06    5.9  96.31  5.909   98.6  5.914 102.07  5.915 105.46  5.893
107.83  5.902 111.16  5.957 113.59  5.955 116.07  6.015 119.35  6.047
122.55  6.001 125.11  5.951 128.25  5.972 130.87  5.999 133.54  5.995
136.63  5.995 139.65  5.995 142.39  5.967 145.35   6.01 148.15  6.064
151.01  6.052 153.91  6.021 156.75  6.078 159.66  6.084 162.64  6.012
165.42  5.945 168.14  5.985 171.18  5.992 174.29  6.096 176.94  6.073
179.54  6.067  182.7  6.019 185.93  6.051 188.46  6.052 191.76  6.015
194.22  6.012 196.64  5.993 199.98  5.999 202.34  5.994 205.74  6.035
209.22  5.986  211.5  6.054 213.74  6.021 217.26  6.011 219.43  6.018
223.01  6.016 226.68  6.087 228.77  6.061 230.82  5.997 234.53  5.941
236.52  5.997 240.29  6.074 244.15   6.09 246.06  6.094 247.92   6.13
251.82  6.123 253.62  6.125 257.58  6.167 261.62  6.141 263.34  6.143
265.02  6.134  269.1  6.094 270.72  6.109 274.86  6.092 279.08  6.181
280.62   6.17 282.12  6.162 286.38  6.116 287.82  6.152 292.13   6.32
296.54   6.32 297.89  6.313 299.21  6.301 303.65  6.384 304.91  6.413
309.41  6.214 314.01  6.016 315.17  6.003  316.3  5.973 320.93  5.867
   322  5.835 326.69  5.859 331.48  6.021 332.45  6.017  333.4  5.997
338.21  6.159  339.1   6.17 343.97  6.204 348.94  6.277 349.73  6.307
 350.5  6.307 355.48  6.252 356.19  6.272 361.24  6.207  366.4  6.226
   367  6.211 367.59  6.211 372.76  6.268 373.29  6.262 378.52  6.203
383.87  6.304 384.28  6.308 384.69  6.295 390.04  6.229 395.51  6.305
 395.8  6.309 401.34  6.384 401.56  6.387 401.79  6.389 407.32  6.268
412.98   6.54 413.08  6.541 418.81  6.612 418.85  6.614 418.88  6.613
422.55  6.478 424.57  6.404  424.6  6.404 430.27  6.549 430.36   6.55
430.44  6.549 436.12  6.532 441.67  6.403 441.88  6.407 442.09  6.406
447.64  6.389 453.07  6.385  453.4  6.389 453.73  6.385 459.16  6.331
459.55  6.328 464.92  6.356 465.38  6.356 470.68  6.287 475.87  6.396
476.44  6.422 477.02  6.437  482.2  6.644 487.26  6.749 487.95  6.743
488.66  6.741   492     6  492.1  -5.18  647.9  -5.18   648     6
654.97  6.693 658.94  6.731 660.73  6.732 662.55  6.727  663.1  6.721
666.49  6.682 670.45    6.8 672.25   6.83 674.05  6.883 678.01  6.775
681.99  6.549 683.76  6.491 685.53    6.5 689.52  6.452 693.54  6.392
695.28  6.352 697.02   6.38 701.04  6.456 702.76  6.485  706.8  6.443
708.51  6.421 712.56  6.488 714.26   6.48 718.32  6.406    720  6.419
724.08  6.519 725.75  6.402 729.84  6.393 731.49  6.347  735.6  6.297
737.24  6.256 741.36  6.212 745.51  6.211 747.12  6.257 748.73  6.295
752.87  6.399 757.05  6.434 758.63   6.46 760.21  6.454 764.39  6.422
768.59  6.455 770.15  6.451  771.7  6.459 775.91  6.458 780.14  6.538
781.67  6.544  783.2  6.575 787.43  6.747 791.69  6.725 793.19  6.744
794.69  6.774 798.95  6.819 800.43  6.792 804.71  6.799 806.18  6.804
810.47  6.747 811.92  6.746 816.22  6.859 817.66  6.836 821.98  6.716
823.41  6.698 827.74  6.674  832.1  6.669  833.5   6.68  834.9  6.669
839.26  6.672 843.65  6.648 845.02  6.625 846.39  6.627 850.78  6.574
 855.2   6.59 856.54  6.575 857.88  6.592  862.3  6.551 863.63  6.537
868.06  6.537 872.52  6.472 873.82   6.47 875.12  6.466 879.58  6.517
880.86  6.513 885.33   6.51  886.6  6.507 891.09  6.473 892.35  6.474
896.85  6.478 898.09  6.477 902.61  6.508 903.84   6.52 908.37  6.516
909.58  6.502 914.13  6.486 918.71   6.49 919.89  6.491 921.08  6.501
925.65  6.542 926.82  6.538 931.41  6.521 932.57  6.523 937.17  6.501
938.31  6.501 942.93  6.451 944.06  6.443 948.68  6.434 949.79  6.432
954.44  6.436 959.12  6.412  960.2  6.426 961.29  6.428 965.96   6.42
967.03  6.405 971.72    6.4 972.78  6.415 977.48  6.441 982.21  6.426
983.24  6.419 984.27   6.41    989  6.394 990.02  6.389 994.76  6.351
999.53  6.355 1000.52  6.351 1001.51  6.359 1006.28  6.413 1011.08  6.356
1012.03   6.34 1012.99  6.347 1017.79   6.38 1018.73   6.38 1023.55  6.339
 1028.4  6.325 1029.31  6.331 1030.23  6.329 1035.07   6.37 1035.97   6.37
1040.83  6.338 1041.72  6.336 1046.59  6.315 1047.46  6.313 1052.35  6.317
1053.21  6.315 1058.11  6.341 1058.96  6.367 1063.87  6.355  1064.7   6.34
1069.63  6.333 1074.59   6.41 1075.39  6.409 1076.19  6.417 1081.14  6.443
1081.93  6.444  1086.9  6.429 1087.68  6.432 1092.66  6.514 1093.42  6.515
1098.42  6.464 1099.17  6.456 1104.18  6.364 1104.91  6.362 1109.94  6.343
  1115  6.361  1115.7  6.352  1116.4  6.352 1121.46  6.325 1122.15  6.319
1127.22  6.291  1127.9  6.292 1132.98  6.314  1138.1  6.354 1138.74  6.355
1139.39  6.362 1144.49  6.356 1145.12  6.355 1150.25   6.34 1155.41  6.406
1156.01  6.407 1156.61  6.403 1161.77  6.414 1162.36  6.418 1167.53  6.424
1168.11  6.431 1168.83  6.436

Manning's n Values        num=      3
   Sta   n Val    Sta   n Val    Sta   n Val
   -20     .2    492    .03    648     .2

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
         492    648              1      1      1           .3      .5
Ineffective Flow     num=      2
  Sta L   Sta R    Elev  Permanent
   -20    456   15.2      F
 684.25 1168.83   15.2      F

CROSS SECTION


RIVER: GatorSlough
REACH: GatorSlough       RS: 4.59

INPUT
Description: dup RS 4.6
Station Elevation Data    num=    367
```

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-20	5.479	-18.88	5.477	-17.83	5.537	-13.12	5.531	-12	5.527
-7.36	5.518	-6.18	5.524	-1.6	5.527	2.89	5.568	4.16	5.556
5.46	5.558	9.92	5.567	11.29	5.575	15.68	5.494	19.98	5.537
21.44	5.533	22.93	5.551	27.19	5.601	28.74	5.591	32.95	5.577
37.07	5.52	38.71	5.512	42.77	5.565	44.47	5.581	46.21	5.578
50.23	5.588	54.17	5.657	55.99	5.686	59.87	5.704	61.75	5.719
63.68	5.751	67.51	5.747	71.27	5.738	73.28	5.708	76.97	5.749
79.04	5.82	81.15	5.819	84.8	5.85	88.36	5.88	90.55	5.88
94.06	5.9	96.31	5.909	98.6	5.914	102.07	5.915	105.46	5.893
107.83	5.902	111.16	5.957	113.59	5.955	116.07	6.015	119.35	6.047
122.55	6.001	125.11	5.951	128.25	5.972	130.87	5.999	133.54	5.995
136.63	5.995	139.65	5.995	142.39	5.967	145.35	6.01	148.15	6.064
151.01	6.052	153.91	6.021	156.75	6.078	159.66	6.084	162.64	6.012
165.42	5.945	168.14	5.985	171.18	5.992	174.29	6.096	176.94	6.073
179.54	6.067	182.7	6.019	185.93	6.051	188.46	6.052	191.76	6.015
194.22	6.012	196.64	5.993	199.98	5.999	202.34	5.994	205.74	6.035
209.22	5.986	211.5	6.054	213.74	6.021	217.26	6.011	219.43	6.018
223.01	6.016	226.68	6.087	228.77	6.061	230.82	5.997	234.53	5.941
236.52	5.997	240.29	6.074	244.15	6.09	246.06	6.094	247.92	6.13
251.82	6.123	253.62	6.125	257.58	6.167	261.62	6.141	263.34	6.143
265.02	6.134	269.1	6.094	270.72	6.109	274.86	6.092	279.08	6.181
280.62	6.17	282.12	6.162	286.38	6.116	287.82	6.152	292.13	6.32
296.54	6.32	297.89	6.313	299.21	6.301	303.65	6.384	304.91	6.413
309.41	6.214	314.01	6.016	315.17	6.003	316.3	5.973	320.93	5.867
322	5.835	326.69	5.859	331.48	6.021	332.45	6.017	333.4	5.997
338.21	6.159	339.1	6.17	343.97	6.204	348.94	6.277	349.73	6.307
350.5	6.307	355.48	6.252	356.19	6.272	361.24	6.207	366.4	6.226
367	6.211	367.59	6.211	372.76	6.268	373.29	6.262	378.52	6.203
383.87	6.304	384.28	6.308	384.69	6.295	390.04	6.229	395.51	6.305
395.8	6.309	401.34	6.384	401.56	6.387	401.79	6.389	407.32	6.268
412.98	6.54	413.08	6.541	418.81	6.612	418.85	6.614	418.88	6.613
422.55	6.478	424.57	6.404	424.6	6.404	430.27	6.549	430.36	6.55
430.44	6.549	436.12	6.532	441.67	6.403	441.88	6.407	442.09	6.406
447.64	6.389	453.07	6.385	453.4	6.389	453.73	6.385	459.16	6.331
459.55	6.328	464.92	6.356	465.38	6.356	470.68	6.287	475.87	6.396
476.44	6.422	477.02	6.437	482.2	6.644	487.26	6.749	487.95	6.743
488.66	6.741	492	6	492.1	-5.18	647.9	-5.18	648	6
654.97	6.693	658.94	6.731	660.73	6.732	662.55	6.727	663.1	6.721
666.49	6.682	670.45	6.8	672.25	6.83	674.05	6.883	678.01	6.775
681.99	6.549	683.76	6.491	685.53	6.5	689.52	6.452	693.54	6.392
695.28	6.352	697.02	6.38	701.04	6.456	702.76	6.485	706.8	6.443
708.51	6.421	712.56	6.488	714.26	6.48	718.32	6.406	720	6.419
724.08	6.519	725.75	6.402	729.84	6.393	731.49	6.347	735.6	6.297
737.24	6.256	741.36	6.212	745.51	6.211	747.12	6.257	748.73	6.295
752.87	6.399	757.05	6.434	758.63	6.46	760.21	6.454	764.39	6.422
768.59	6.455	770.15	6.451	771.7	6.459	775.91	6.458	780.14	6.538
781.67	6.544	783.2	6.575	787.43	6.747	791.69	6.725	793.19	6.744
794.69	6.774	798.95	6.819	800.43	6.792	804.71	6.799	806.18	6.804
810.47	6.747	811.92	6.746	816.22	6.859	817.66	6.836	821.98	6.716
823.41	6.698	827.74	6.674	832.1	6.669	833.5	6.68	834.9	6.669
839.26	6.672	843.65	6.648	845.02	6.625	846.39	6.627	850.78	6.574
855.2	6.59	856.54	6.575	857.88	6.592	862.3	6.551	863.63	6.537
868.06	6.537	872.52	6.472	873.82	6.47	875.12	6.466	879.58	6.517
880.86	6.513	885.33	6.51	886.6	6.507	891.09	6.473	892.35	6.474
896.85	6.478	898.09	6.477	902.61	6.508	903.84	6.52	908.37	6.516
909.58	6.502	914.13	6.486	918.71	6.49	919.89	6.491	921.08	6.501
925.65	6.542	926.82	6.538	931.41	6.521	932.57	6.523	937.17	6.501
938.31	6.501	942.93	6.451	944.06	6.443	948.68	6.434	949.79	6.432
954.44	6.436	959.12	6.412	960.2	6.426	961.29	6.428	965.96	6.42
967.03	6.405	971.72	6.4	972.78	6.415	977.48	6.441	982.21	6.426
983.24	6.419	984.27	6.41	989	6.394	990.02	6.389	994.76	6.351
999.53	6.355	1000.52	6.351	1001.51	6.359	1006.28	6.413	1011.08	6.356
1012.03	6.34	1012.99	6.347	1017.79	6.38	1018.73	6.38	1023.55	6.339
1028.4	6.325	1029.31	6.331	1030.23	6.329	1035.07	6.37	1035.97	6.37
1040.83	6.338	1041.72	6.336	1046.59	6.315	1047.46	6.313	1052.35	6.317
1053.21	6.315	1058.11	6.341	1058.96	6.367	1063.87	6.355	1064.7	6.34
1069.63	6.333	1074.59	6.41	1075.39	6.409	1076.19	6.417	1081.14	6.443
1081.93	6.444	1086.9	6.429	1087.68	6.432	1092.66	6.514	1093.42	6.515
1098.42	6.464	1099.17	6.456	1104.18	6.364	1104.91	6.362	1109.94	6.343
1115	6.361	1115.7	6.352	1116.4	6.352	1121.46	6.325	1122.15	6.319
1127.22	6.291	1127.9	6.292	1132.98	6.314	1138.1	6.354	1138.74	6.355
1139.39	6.362	1144.49	6.356	1145.12	6.355	1150.25	6.34	1155.41	6.406
1156.01	6.407	1156.61	6.403	1161.77	6.414	1162.36	6.418	1167.53	6.424
1168.11	6.431	1168.83	6.436						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-20	.2	492	.03	648	.2

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
492	648	124	124	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-20	456	9.62	F
684.25	1168.83	9.62	F

BRIDGE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.35

INPUT
Description: SB
Distance from Upstream XS = 20
Deck/Roadway Width = 40
Weir Coefficient = 2.6
Upstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-20 9.62 491.9 9.62 492 9.62 7.12
648 9.62 7.12 648.1 9.62 1200 9.62

Upstream Bridge Cross Section Data
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749
79.04 5.82 81.15 5.819 84.8 5.85 88.36 5.88 90.55 5.88
94.06 5.9 96.31 5.909 98.6 5.914 102.07 5.915 105.46 5.893
107.83 5.902 111.16 5.957 113.59 5.955 116.07 6.015 119.35 6.047
122.55 6.001 125.11 5.951 128.25 5.972 130.87 5.999 133.54 5.995
136.63 5.995 139.65 5.995 142.39 5.967 145.35 6.01 148.15 6.064
151.01 6.052 153.91 6.021 156.75 6.078 159.66 6.084 162.64 6.012
165.42 5.945 168.14 5.985 171.18 5.992 174.29 6.096 176.94 6.073
179.54 6.067 182.7 6.019 185.93 6.051 188.46 6.052 191.76 6.015
194.22 6.012 196.64 5.993 199.98 5.999 202.34 5.994 205.74 6.035
209.22 5.986 211.5 6.054 213.74 6.021 217.26 6.011 219.43 6.018
223.01 6.016 226.68 6.087 228.77 6.061 230.82 5.997 234.53 5.941
236.52 5.997 240.29 6.074 244.15 6.09 246.06 6.094 247.92 6.13
251.82 6.123 253.62 6.125 257.58 6.167 261.62 6.141 263.34 6.143
265.02 6.134 269.1 6.094 270.72 6.109 274.86 6.092 279.08 6.181
280.62 6.17 282.12 6.162 286.38 6.116 287.82 6.152 292.13 6.32
296.54 6.32 297.89 6.313 299.21 6.301 303.65 6.384 304.91 6.413
309.41 6.214 314.01 6.016 315.17 6.003 316.3 5.973 320.93 5.867
322 5.835 326.69 5.859 331.48 6.021 332.45 6.017 333.4 5.997
338.21 6.159 339.1 6.17 343.97 6.204 348.94 6.277 349.73 6.307
350.5 6.307 355.48 6.252 356.19 6.272 361.24 6.207 366.4 6.226
367 6.211 367.59 6.211 372.76 6.268 373.29 6.262 378.52 6.203
383.87 6.304 384.28 6.308 384.69 6.295 390.04 6.229 395.51 6.305
395.8 6.309 401.34 6.384 401.56 6.387 401.79 6.389 407.32 6.268
412.98 6.54 413.08 6.541 418.81 6.612 418.85 6.614 418.88 6.613
422.55 6.478 424.57 6.404 424.6 6.404 430.27 6.549 430.36 6.55
430.44 6.549 436.12 6.532 441.67 6.403 441.88 6.407 442.09 6.406
447.64 6.389 453.07 6.385 453.4 6.389 453.73 6.385 459.16 6.331
459.55 6.328 464.92 6.356 465.38 6.356 470.68 6.287 475.87 6.396
476.44 6.422 477.02 6.437 482.2 6.644 487.26 6.749 487.95 6.743
488.66 6.741 492 6 492.1 -5.18 647.9 -5.18 648 6
654.97 6.693 658.94 6.731 660.73 6.732 662.55 6.727 663.1 6.721
666.49 6.682 670.45 6.8 672.25 6.83 674.05 6.883 678.01 6.775
681.99 6.549 683.76 6.491 685.53 6.5 689.52 6.452 693.54 6.392
695.28 6.352 697.02 6.38 701.04 6.456 702.76 6.485 706.8 6.443
708.51 6.421 712.56 6.488 714.26 6.48 718.32 6.406 720 6.419
724.08 6.519 725.75 6.402 729.84 6.393 731.49 6.347 735.6 6.297
737.24 6.256 741.36 6.212 745.51 6.211 747.12 6.257 748.73 6.295
752.87 6.399 757.05 6.434 758.63 6.46 760.21 6.454 764.39 6.422
768.59 6.455 770.15 6.451 771.7 6.459 775.91 6.458 780.14 6.538
781.67 6.544 783.2 6.575 787.43 6.747 791.69 6.725 793.19 6.744
794.69 6.774 798.95 6.819 800.43 6.792 804.71 6.799 806.18 6.804
810.47 6.747 811.92 6.746 816.22 6.859 817.66 6.836 821.98 6.716
823.41 6.698 827.74 6.674 832.1 6.669 833.5 6.68 834.9 6.669
839.26 6.672 843.65 6.648 845.02 6.625 846.39 6.627 850.78 6.574
855.2 6.59 856.54 6.575 857.88 6.592 862.3 6.551 863.63 6.537
868.06 6.537 872.52 6.472 873.82 6.47 875.12 6.466 879.58 6.517
880.86 6.513 885.33 6.51 886.6 6.507 891.09 6.473 892.35 6.474
896.85 6.478 898.09 6.477 902.61 6.508 903.84 6.52 908.37 6.516
909.58 6.502 914.13 6.486 918.71 6.49 919.89 6.491 921.08 6.501
925.65 6.542 926.82 6.538 931.41 6.521 932.57 6.523 937.17 6.501
938.31 6.501 942.93 6.451 944.06 6.443 948.68 6.434 949.79 6.432
954.44 6.436 959.12 6.412 960.2 6.426 961.29 6.428 965.96 6.42
967.03 6.405 971.72 6.4 972.78 6.415 977.48 6.441 982.21 6.426
983.24 6.419 984.27 6.41 989 6.394 990.02 6.389 994.76 6.351
999.53 6.355 1000.52 6.351 1001.51 6.359 1006.28 6.413 1011.08 6.356
1012.03 6.34 1012.99 6.347 1017.79 6.38 1018.73 6.38 1023.55 6.339
1028.4 6.325 1029.31 6.331 1030.23 6.329 1035.07 6.37 1035.97 6.37
1040.83 6.338 1041.72 6.336 1046.59 6.315 1047.46 6.313 1052.35 6.317
1053.21 6.315 1058.11 6.341 1058.96 6.367 1063.87 6.355 1064.7 6.34
1069.63 6.333 1074.59 6.41 1075.39 6.409 1076.19 6.417 1081.14 6.443
1081.93 6.444 1086.9 6.429 1087.68 6.432 1092.66 6.514 1093.42 6.515
1098.42 6.464 1099.17 6.456 1104.18 6.364 1104.91 6.362 1109.94 6.343

1115 6.361 1115.7 6.352 1116.4 6.352 1121.46 6.325 1122.15 6.319
1127.22 6.291 1127.9 6.292 1132.98 6.314 1138.1 6.354 1138.74 6.355
1139.39 6.362 1144.49 6.356 1145.12 6.355 1150.25 6.34 1155.41 6.406
1156.01 6.407 1156.61 6.403 1161.77 6.414 1162.36 6.418 1167.53 6.424
1168.11 6.431 1168.83 6.436

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-20 .2 492 .03 648 .2

Bank Sta: Left Right Coeff Contr. Expan.
492 648 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-20 456 9.62 F
684.25 1168.83 9.62 F

Downstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-21 9.62 491.9 9.62 492 9.62 7.12
648 9.62 7.12 648.1 9.62 1200 9.62

Downstream Bridge Cross Section Data
Station Elevation Data num= 336
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.013536 4.627.117898 4.987.129236 5.337.123742 10.74 7.06831
11.037.045314 16.56.672902 22.086.480585 22.266.469163 22.446.466109
28.026.283257 28.146.279891 33.786.148354 39.16.231291 39.546.238067
39.556.238137 45.296.413932 50.936.253401 51.056.252393 56.636.224466
56.816.217647 62.33 6.09241 62.576.089359 68.036.057948 68.336.055989
68.646.057269 74.096.125669 74.466.128069 79.856.175917 85.136.131151
85.616.135355 90.836.211596 91.38 6.21467 96.536.307469 97.146.309958
102.236.296508 102.96.293833 107.936.290092 108.656.295126 109.386.297964
114.416.355277 115.26.358286 120.176.378702 125.036.395321 125.936.403618
130.736.415321 131.696.419686 132.676.417501 137.456.440517 142.136.554865
143.216.573679 144.316.583508 148.976.651402 150.136.655237 154.736.696432
159.236.680517 160.496.686668 161.786.686028 166.25 6.65306 167.66.647576
172.016.652355 176.326.635281 177.766.651303 179.236.658226 183.526.693185
185.056.691573 189.286.695109 193.426.697133 195.046.702182 199.126.687279
200.86.677622 202.516.687095 206.56 6.69487 210.526.705235 212.326.729802
214.166.720155 218.086.753465 219.986.766269 223.846.777088 227.636.743019
229.66.745677 231.62 6.73788 235.366.743994 237.446.725008 241.116.724918
244.726.702303 246.876.711846 249.086.713564 252.636.753021 254.9 6.74197
258.396.720082 261.826.711729 264.156.740036 267.526.739932 269.916.738597
273.226.725852 275.686.721985 278.926.727015 281.446.716796 2846.639936
287.26.554258 290.326.399265 292.966.288069 296.026.210798 298.72 6.19395
301.72 6.19185 304.486.216494 307.426.482284 310.236.614634 313.116.700326
315.996.890442 318.926.879824 321.756.909406 324.526.875915 327.516.847575
330.22 6.74907 333.276.659445 335.926.596866 339.036.495471 341.626.611098
344.796.695492 347.32 6.86416 350.557.137008 353.85 6.93895 356.31 6.7909
358.726.778072 362.076.761401 364.426.775408 367.836.761639 370.126.740871
373.586.731915 375.816.735065 379.346.710323 381.51 6.69813 385.16.723934
388.776.705092 390.866.704043 392.91 6.72117 396.62 6.72873 398.616.733131
402.386.744774 404.316.739341 408.146.720503 410.016.700255 413.96.741404
417.876.714475 419.666.730922 423.76.756803 425.426.744149 427.126.774343
431.186.769161 435.346.734297 436.946.725238 438.516.729741 442.696.796102
444.216.881773 448.457.110452 452.796.895158 454.216.828222 455.61 6.64249
460 6 480 -5.18 660 -5.18 680 6 706.39 6.02978
707.636.065577 708.896.024083 713.396.016923 717.795.948747 719.155.916333
720.535.982049 724.91 6.11976 729.196.178744 730.676.229609 734.96.151528
736.436.120185 7386.169028 742.196.213191 746.36.252873 747.956.433785
7526.885107 753.716.872463 755.466.892992 759.477.048115 763.47.080067
765.237.039326 767.17.000651 770.98 6.7321 774.79 6.45656 776.746.313753
780.496.332604 782.56.327547 784.56 6.31667 788.26 6.26781 791.896.201074
794.026.219452 796.26.147838 799.786.134684 802.026.142399 805.546.095258
807.846.126758 811.36.200877 814.696.261695 817.066.276814 820.396.356381
822.836.358634 825.316.382925 828.596.355306 831.136.355063 834.346.385139
836.946.422173 840.16.415528 843.196.436909 845.86 6.44415 848.896.483392
851.626.415771 854.41 6.39416 857.38 6.36807 860.236.275272 863.146.164995
866.056.393271 868.96.362206 871.696.354553 874.666.200531 877.396.432463
880.426.667475 883.51 6.94614 886.187.086906 889.336.821873 891.946.806644
895.166.860425 897.76.968534 900.196.767302 903.456.725206 905.886.737371
909.216.794893 912.616.792857 914.976.828354 918.436.838322 920.736.810176
924.256.849614 926.496.882003 928.687.078928 932.257.127086 934.387.091448
938.017.293641 941.727.285337 943.777.274018 945.797.189181 949.537.085202
951.497.023186 955.296.772801 959.186.796497 961.056.725225 962.886.726119
966.8 6.5834 968.58 6.54046 972.566.567066 976.636.556079 978.326.577935
982.466.662205 984.086.709423 988.286.825852 989.846.856197 991.386.798488
995.66.710093 997.086.701507 1001.366.540529 1005.746.491599 1007.126.503945
1008.48 6.49885 1012.896.509344 1014.186.521883 1018.656.540792 1023.216.491251
1024.416.477779 1025.586.461524 1030.16 6.46092 1031.276.454761 1035.926.561113
1040.666.638438 1041.686.657149 1042.686.669239 1047.446.603306 1048.386.614744
1053.26.518749 1058.126.550673 1058.966.522362 1059.786.520061 1064.726.405599
1065.486.381188 1070.486.365843 1075.596.291648 1076.246.294163 1081.416.314988
10826.301828 1087.236.205415 1087.76 6.21231 1088.286.211489 1093.526.199525
1093.986.197679 1099.276.258206 1104.686.283366 1105.036.290051 1105.376.286088
1110.79 6.23149 1111.076.226769 1116.556.235404 1122.156.186904 1122.316.183959

1122.476.186684 1128.076.174533 1128.176.171877 1133.836.164007 1137.86.121954
1139.596.103349 1139.616.103128 1145.356.065072 1150.976.167377 1151.116.166425
1151.256.167364 1156.876.233702 1157.076.234755 1162.626.249385 1168.076.212687
1168.38 6.21166 1168.716.211231 1174.156.163875 1179.476.140606 1179.916.138773
1185.176.109379 1185.676.103643 1190.876.102267 1191.436.101143 1191.996.106309
1192.176.108284

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 460 .03 680 .2

Bank Sta: Left Right Coeff Contr. Expan.
460 680 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 460 9.62 F
733 1192.17 9.62 F

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 5

Pier Data
Pier Station Upstream= 520 Downstream= 520
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 545 Downstream= 545
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 570 Downstream= 570
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 595 Downstream= 595
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 620 Downstream= 620
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Highest Energy Answer

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4

INPUT
Description:
Station Elevation Data num= 336
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.013536 4.627.117898 4.987.129236 5.337.123742 10.74 7.06831
11.037.045314 16.56.672902 22.086.480585 22.266.469163 22.446.466109
28.026.283257 28.146.279891 33.786.148354 39.16.231291 39.546.238067
39.556.238137 45.296.413932 50.936.253401 51.056.252393 56.636.224466
56.816.217647 62.33 6.09241 62.576.089359 68.036.057948 68.336.055989
68.646.057269 74.096.125669 74.466.128069 79.856.175917 85.136.131151
85.616.135355 90.836.211596 91.38 6.21467 96.536.307469 97.146.309958
102.236.296508 102.96.293833 107.936.290092 108.656.295126 109.386.297964
114.416.355277 115.26.358286 120.176.378702 125.036.395321 125.936.403618
130.736.415321 131.696.419686 132.676.417501 137.456.440517 142.136.554865
143.216.573679 144.316.583508 148.976.651402 150.136.655237 154.736.696432
159.236.680517 160.496.686668 161.786.686028 166.25 6.65306 167.66.647576
172.016.652355 176.326.635281 177.766.651303 179.236.658226 183.526.693185
185.056.691573 189.286.695109 193.426.697133 195.046.702182 199.126.687279
200.86.677622 202.516.687095 206.56 6.69487 210.526.705235 212.326.729802
214.166.720155 218.086.753465 219.986.766269 223.846.777088 227.636.743019
229.66.745677 231.62 6.73788 235.366.743994 237.446.725008 241.116.724918
244.726.702303 246.876.711846 249.086.713564 252.636.753021 254.9 6.74197
258.396.720082 261.826.711729 264.156.740036 267.526.739932 269.916.738597
273.226.725852 275.686.721985 278.926.727015 281.446.716796 2846.639936
287.26.554258 290.326.399265 292.966.288069 296.026.210798 298.72 6.19395
301.72 6.19185 304.486.216494 307.426.482284 310.236.614634 313.116.700326
315.996.890442 318.926.879824 321.756.909406 324.526.875915 327.516.847575
330.22 6.74907 333.276.659445 335.926.596866 339.036.495471 341.626.611098
344.796.695492 347.32 6.86416 350.557.137008 353.85 6.93895 356.31 6.7909
358.726.778072 362.076.761401 364.426.775408 367.836.761639 370.126.740871
373.586.731915 375.816.735065 379.346.710323 381.51 6.69813 385.16.723934
388.776.705092 390.866.704043 392.91 6.72117 396.62 6.72873 398.616.733131
402.386.744774 404.316.739341 408.146.720503 410.016.700255 413.96.741404
417.876.714475 419.666.730922 423.76.756803 425.426.744149 427.126.774343
431.186.769161 435.346.734297 436.946.725238 438.516.729741 442.696.796102
444.216.881773 448.457.110452 452.796.895158 454.216.828222 455.61 6.64249
460 6 480 -5.18 660 -5.18 680 6 706.39 6.02978
707.636.065577 708.896.024083 713.396.016923 717.795.948747 719.155.916333
720.535.982049 724.91 6.11976 729.196.178744 730.676.229609 734.96.151528
736.436.120185 7386.169028 742.196.213191 746.36.252873 747.956.433785
7526.885107 753.716.872463 755.466.892992 759.477.048115 763.47.080067
765.237.039326 767.17.000651 770.98 6.7321 774.79 6.45656 776.746.313753
780.496.332604 782.56.327547 784.56 6.31667 788.26 6.26781 791.896.201074
794.026.219452 796.26.147838 799.786.134684 802.026.142399 805.546.095258
807.846.126758 811.36.200877 814.696.261695 817.066.276814 820.396.356381
822.836.358634 825.316.382925 828.596.355306 831.136.355063 834.346.385139
836.946.422173 840.16.415528 843.196.436909 845.86 6.44415 848.896.483392
851.626.415771 854.41 6.39416 857.38 6.36807 860.236.275272 863.146.164995
866.056.393271 868.96.362206 871.696.354553 874.666.200531 877.396.432463
880.426.667475 883.51 6.94614 886.187.086906 889.336.821873 891.946.806644
895.166.860425 897.76.968534 900.196.767302 903.456.725206 905.886.737371
909.216.794893 912.616.792857 914.976.828354 918.436.838322 920.736.810176
924.256.849614 926.496.882003 928.687.078928 932.257.127086 934.387.091448
938.017.293641 941.727.285337 943.777.274018 945.797.189181 949.537.085202
951.497.023186 955.296.772801 959.186.796497 961.056.725225 962.886.726119
966.8 6.5834 968.58 6.54046 972.566.567066 976.636.556079 978.326.577935
982.466.662205 984.086.709423 988.286.825852 989.846.856197 991.386.798488
995.66.710093 997.086.701507 1001.366.540529 1005.746.491599 1007.126.503945
1008.48 6.49885 1012.896.509344 1014.186.521883 1018.656.540792 1023.216.491251
1024.416.477779 1025.586.461524 1030.16 6.46092 1031.276.454761 1035.926.561113
1040.666.638438 1041.686.657149 1042.686.669239 1047.446.603306 1048.386.614744
1053.26.518749 1058.126.550673 1058.966.522362 1059.786.520061 1064.726.405599
1065.486.381188 1070.486.365843 1075.596.291648 1076.246.294163 1081.416.314988
10826.301828 1087.236.205415 1087.76 6.21231 1088.286.211489 1093.526.199525
1093.986.197679 1099.276.258206 1104.686.283366 1105.036.290051 1105.376.286088
1110.79 6.23149 1111.076.226769 1116.556.235404 1122.156.186904 1122.316.183959
1122.476.186684 1128.076.174533 1128.176.171877 1133.836.164007 1137.86.121954
1139.596.103349 1139.616.103128 1145.356.065072 1150.976.167377 1151.116.166425
1151.256.167364 1156.876.233702 1157.076.234755 1162.626.249385 1168.076.212687
1168.38 6.21166 1168.716.211231 1174.156.163875 1179.476.140606 1179.916.138773
1185.176.109379 1185.676.103643 1190.876.102267 1191.436.101143 1191.996.106309
1192.176.108284

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 114 114 114 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent

0 460 9.62 F
733 1192.17 9.62 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 3

INPUT
Description:
Station Elevation Data num= 335
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
05.634134.60008245.6942093.6696945.8725616.3608736.0559969.336566 6.15758
12.121666.25118415.000636.30046717.882466.34340220.670316.32686523.64325 6.27618
26.337186.29805829.40404 6.339232.004066.33165535.164836.38829837.670936.457571
40.925626.53662344.290016.62476446.686416.68795450.147886.743779 52.44726.724338
54.667756.80128858.197996.81504261.853467.01708763.958787.12554467.711337.177508
69.719577.26428471.662337.21704475.480367.281189 77.32927.34113581.24116 7.32991
85.284977.29584487.001957.30658688.662957.28872392.762737.30974394.329827.315601
98.523537.306118102.85867.368556104.28437.365725105.66367.355804110.04517.239238
114.57437.286993115.80597.299978 120.4247.223483121.55677.210919122.65437.202195
127.31757.156901128.32127.129031133.07837.023808133.98816.894236138.83916.245327
139.6556.228245144.59996.121224145.32186.121514150.36066.109317150.98876.104417
156.12146.121435156.65566.169751161.88226.565981162.32246.576659 167.6436.791144
167.98936.790377173.40386.825194179.00086.604692179.1646 6.59849179.32316.608528
184.92546.892205188.88487.114388 190.6477.213563190.67627.214396196.31367.215431
196.4377.216999201.9803 7.05268202.19787.051146202.42257.044293207.95867.033328
213.31386.939056213.7193 6.94072214.13866.929412219.48016.870151219.99676.861282
225.2409 6.68082230.31396.768672231.0017 6.76614231.71286.772161236.76256.698555
237.57086.699401242.52336.685985 247.3146.792759248.28416.799658249.28516.805222
254.03496.752025255.13486.729418259.79576.699656264.30446.625474265.5565 6.61813
266.8509 6.62402271.31736.753371272.70896.787635 277.0786.846729281.30456.674993
282.83886.612917286.97126.376869288.59966.284712292.63795.895649294.36045.753406
298.30465.466722300.12125.353919303.97135.122859 305.8825.022691 309.6385.036376
311.64285.066675315.30475.223729317.4036 5.27189320.96545.685117323.15445.952621
325.4211 6.03595328.91526.230599 332.2956.226451 334.6766.229411337.96186.238059
340.43676.237585343.62856.128935346.19756.022894349.29525.785341351.95835.640795
354.96195.825533357.71916.047181360.62866.900263363.47997.694016366.2953 8.11466
369.24078.405549 371.9628.441422375.00158.550682377.62888.829827380.76238.913927
383.29119.095375386.51319.372685388.9523 9.24564392.27399.160564 394.6199.072814
398.03479.002273401.56568.952641403.79548.801012405.95258.752063409.55628.778395
411.61928.669924 415.3178.397182417.28598.321684421.07788.130779422.95268.107663
426.83868.094725428.6193 8.13578432.59948.141855 434.2868.215867438.36028.481643
439.95278.516696 444.121 8.62904445.61948.734197449.88188.722662451.28388.778104
455.63268.891652456.94318.852104461.39338.785339462.6097 8.60556467.15418.252288
468.27657.911385472.91496.543383 480 6 500 -5.2 680 -5.2
700 6749.39296.488153751.57896.364151755.15376.385935758.84916.352646
760.91456.371062764.70696.423309766.67536.455131768.57956.373201 772.4366.373319
776.42276.501466778.19686.604229779.91036.687259783.94766.785133785.57036.879885
789.70846.907575793.98616.880507795.46926.866059 796.9046.910859 801.237.005478
802.57097.042951806.99087.049484811.55987.026892812.75166.987225813.90466.946448
818.51247.137194819.57157.160261824.27327.132409825.23837.112283 830.0347.159531
830.90527.159342835.79477.109969840.8491 7.20282841.55557.205065842.23787.188137
847.30637.285461 847.8967.293694853.06717.231751858.41267.253088858.82797.249286
864.27047.097436864.58877.101814870.12837.062606870.34957.059001870.56357.055254
876.1103 7.01876.23037.010146881.87117.189202881.89727.190771883.47417.184991
887.56417.170329887.63197.170899 893.2317.167474893.39267.166747893.55987.163617
899.15347.066497904.56476.948121904.9142 6.93992910.23166.958222 910.6756.959044
911.1326 6.95154916.42586.948007921.55556.935678922.18666.940176922.83916.950261
927.94746.970798932.88927.063582933.70827.069709938.55617.086624 939.4697.096575
940.41277.101128945.22987.091477949.88987.099937950.99067.120971952.12847.119407
956.75137.115421957.98637.098494962.51217.041863963.84427.074677968.27297.059033
972.55747.146533974.03387.133176975.55727.101886979.78457.015061981.40767.071377
985.54537.044007989.54827.002939991.30616.906726993.12346.867206997.06696.826549
1000.8826.8190051002.828 6.812411006.5496.7791291008.5896.7799631010.6976.732145
1014.3496.6761261016.5556.674457 1020.116.6669121022.4136.6848081025.871 6.73766
1029.2166.7620761031.6326.8010161034.8836.7873991037.3926.7782181039.9826.782686
1043.1436.8038211046.2076.8471351048.9046.8919261051.8746.9056771054.6656.957508
1057.556.9489861060.426 6.961111063.208 6.941066.1866.8795511068.8756.868396
1071.9476.8957691075.123 6.824271077.7086.7753551080.9816.8247731083.4696.822412
1086.839 6.80634 1089.236.8031031091.542 6.79074 1094.996.7802131097.2096.795392
1100.751 6.8091104.4136.8205261106.5126.8432591108.5396.8419851112.2636.853469
1114.26.8705271118.0246.8549451121.9766.8086481123.7846.7862351125.5336.781861
1129.5456.696079 1131.26.6405741135.3066.627511 1139.556.5698031141.0676.548143
1145.4086.5012231146.8286.5190811151.2666.5094231152.5886.5185121153.8686.501984
1158.349 6.546111159.5356.549551 1164.116.5483011168.8396.5880571169.8716.599367
1170.8676.5898721175.621 6.6371176.5256.6503381181.3826.5934421186.4036.528528
1187.1436.5219891187.8596.5304571192.9046.5981171193.5266.5953371198.6656.549714
1203.9766.5283691204.4256.525875 1204.866.5240651210.186 6.674821212.9676.629958

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 480 .03 700 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
480 700 2992 2992 2992 .1 .3
Ineffective Flow num= 2

Sta L Sta R Elev Permanent
0 380 9.62 F
8501212.967 9.62 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 2

INPUT
Description:
Station Elevation Data num= 450
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
05.7169533.0405025.7272848.9270045.63529113.00954 5.5133518.665555.150424
19.52365.092546 20.1535.04306723.644384.86976327.296464.846236 28.40414.896162
34.439935.32750438.142655.49674141.583395.64870344.24558 5.7458848.714455.888123
52.482655.93789755.857925.96691857.619755.97146263.001385.99197164.844976.031773
68.965746.06541870.144846.07903277.096866.13594784.431776.15210285.448846.159145
89.569626.22756291.575236.249389 93.6904 6.28662 98.71876.355708104.62256.417423
105.86226.431399110.1707 6.43035113.00566.423311114.28846.400194116.03416.394171
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Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 740 .03 1060 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
740 1060 2485 2485 2485 .1 .3

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 1

INPUT
Description:
Station Elevation Data num= 166
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
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752.94878.498083

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 260 .03 580 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
260 580 0 0 0 .1 .3

SUMMARY OF MANNING'S N VALUES

River:GatorSlough

Reach	River Sta.	n1	n2	n3
GatorSlough	6	.2	.03	.2
GatorSlough	5	.2	.03	.2
GatorSlough	4.95	Inl Struct		
GatorSlough	4.9	.2	.03	.2

GatorSlough	4.89	.2	.03	.2
GatorSlough	4.75	Bridge		
GatorSlough	4.6	.2	.03	.2
GatorSlough	4.59	.2	.03	.2
GatorSlough	4.35	Bridge		
GatorSlough	4	.2	.03	.2
GatorSlough	3	.1	.03	.1
GatorSlough	2	.1	.03	.1
GatorSlough	1	.1	.03	.1

SUMMARY OF REACH LENGTHS

River: GatorSlough

Reach	River Sta.	Left	Channel	Right
GatorSlough	6	325	325	325
GatorSlough	5	32	32	32
GatorSlough	4.95	Inl Struct		
GatorSlough	4.9	1	1	1
GatorSlough	4.89	94	94	94
GatorSlough	4.75	Bridge		
GatorSlough	4.6	1	1	1
GatorSlough	4.59	124	124	124
GatorSlough	4.35	Bridge		
GatorSlough	4	114	114	114
GatorSlough	3	2992	2992	2992
GatorSlough	2	2485	2485	2485
GatorSlough	1	0	0	0

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: GatorSlough

Reach	River Sta.	Contr.	Expan.
GatorSlough	6	.1	.3
GatorSlough	5	.3	.5
GatorSlough	4.95	Inl Struct	
GatorSlough	4.9	.3	.5
GatorSlough	4.89	.3	.5
GatorSlough	4.75	Bridge	
GatorSlough	4.6	.3	.5
GatorSlough	4.59	.3	.5
GatorSlough	4.35	Bridge	
GatorSlough	4	.3	.5
GatorSlough	3	.1	.3
GatorSlough	2	.1	.3
GatorSlough	1	.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/ft)	E.G. Elev (ft/s)	E.G. Slope (sq ft)	Vel Chnl (ft)	Flow Area	Top Width	Froude # Chl
GatorSlough	6	50yr	1469.00	-5.18	3.16	-4.00	3.17	0.000018	0.82	1793.05	229.85	0.05
GatorSlough	6	100yr	1656.00	-5.18	3.32	-3.90	3.33	0.000022	0.91	1828.85	230.41	0.06
GatorSlough	6	500yr	2137.00	-5.18	3.71	-3.66	3.73	0.000031	1.11	1918.50	231.79	0.07
GatorSlough	5	50yr	1469.00	-5.18	3.15	-3.91	3.17	0.000022	0.90	1636.55	212.75	0.06
GatorSlough	5	100yr	1656.00	-5.18	3.31	-3.81	3.32	0.000026	0.99	1669.32	213.35	0.06
GatorSlough	5	500yr	2137.00	-5.18	3.69	-3.55	3.71	0.000038	1.22	1751.35	214.86	0.08
GatorSlough	4.95	Inl Struct										
GatorSlough	4.9	50yr	1469.00	-5.18	-0.79	-3.91	-0.75	0.000193	1.78	827.12	197.23	0.15
GatorSlough	4.9	100yr	1656.00	-5.18	-0.70	-3.81	-0.64	0.000227	1.96	846.56	197.62	0.17
GatorSlough	4.9	500yr	2137.00	-5.18	-0.42	-3.55	-0.33	0.000309	2.37	901.95	198.72	0.20
GatorSlough	4.89	50yr	1469.00	-5.18	-0.79	-4.07	-0.75	0.000138	1.52	965.44	219.89	0.13
GatorSlough	4.89	100yr	1656.00	-5.18	-0.69	-3.98	-0.65	0.000163	1.68	987.38	219.89	0.14
GatorSlough	4.89	500yr	2137.00	-5.18	-0.41	-3.75	-0.34	0.000222	2.04	1049.61	219.89	0.16
GatorSlough	4.75	Bridge										
GatorSlough	4.6	50yr	1469.00	-5.18	-0.86	-3.78	-0.79	0.000297	2.18	672.61	155.88	0.19
GatorSlough	4.6	100yr	1656.00	-5.18	-0.78	-3.66	-0.69	0.000355	2.42	685.60	155.88	0.20
GatorSlough	4.6	500yr	2137.00	-5.18	-0.54	-3.38	-0.41	0.000497	2.96	722.84	155.88	0.24
GatorSlough	4.59	50yr	1469.00	-5.18	-0.86	-3.78	-0.79	0.000297	2.18	672.56	155.88	0.19
GatorSlough	4.59	100yr	1656.00	-5.18	-0.78	-3.66	-0.69	0.000355	2.42	685.55	155.88	0.20

GatorSlough	4.59	500yr	2137.00	-5.18	-0.54	-3.38	-0.41	0.000497	2.96	722.76	155.88	0.24
GatorSlough	4.35		Bridge									
GatorSlough	4	50yr	1469.00	-5.18	-0.90	-3.91	-0.85	0.000211	1.83	802.20	195.30	0.16
GatorSlough	4	100yr	1656.00	-5.18	-0.83	-3.80	-0.77	0.000253	2.03	816.79	195.56	0.17
GatorSlough	4	500yr	2137.00	-5.18	-0.61	-3.55	-0.52	0.000358	2.49	859.21	196.34	0.21
GatorSlough	3	50yr	1469.00	-5.20	-0.93	-3.94	-0.88	0.000212	1.83	801.33	195.25	0.16
GatorSlough	3	100yr	1656.00	-5.20	-0.86	-3.82	-0.80	0.000255	2.03	814.96	195.50	0.18
GatorSlough	3	500yr	2137.00	-5.20	-0.66	-3.57	-0.56	0.000364	2.50	854.80	196.23	0.21
GatorSlough	2	50yr	1469.00	-6.50	-1.14		-1.13	0.000041	0.95	1546.68	297.15	0.07
GatorSlough	2	100yr	1656.00	-6.50	-1.12		-1.10	0.000052	1.07	1552.18	297.21	0.08
GatorSlough	2	500yr	2137.00	-6.50	-1.06		-1.04	0.000083	1.36	1569.09	297.39	0.10
GatorSlough	1	50yr	1469.00	-7.70	-1.21	-6.75	-1.20	0.000022	0.78	1878.69	298.95	0.05
GatorSlough	1	100yr	1656.00	-7.70	-1.21	-6.68	-1.20	0.000028	0.88	1878.69	298.95	0.06
GatorSlough	1	500yr	2137.00	-7.70	-1.21	-6.49	-1.19	0.000046	1.14	1878.69	298.95	0.08

HEC-RAS HEC-RAS 6.3.1 September 2022
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

Option 1: MHW+SLR

```
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: BurntStoreRd
Project File : BurntStoreRd.prj
Run Date and Time: 2/27/2023 2:14:48 PM

Project in English units

PLAN DATA

Plan Title: alt2-MHW
Plan File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.p18

Geometry Title: alt2
Geometry File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.g03

Flow Title : MHW-SLR
Flow File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.f02

Plan Summary Information:
Number of: Cross Sections = 10 Multiple Openings = 0
Culverts = 0 Inline Structures = 1
Bridges = 2 Lateral Structures = 0

Computational Information
Water surface calculation tolerance = 0.01
Critical depth calculation tolerance = 0.01
Maximum number of iterations = 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: Subcritical Flow

FLOW DATA

Flow Title: MHW-SLR
Flow File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.f02

Flow Data (cfs)

River	Reach	RS	2yr	10yr	50yr	100yr	500yr
GatorSlough	GatorSlough	6	523	1027	1469	1656	2137

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
GatorSlough	GatorSlough	2yr		Known WS = 1.14
GatorSlough	GatorSlough	10yr		Known WS = 1.14
GatorSlough	GatorSlough	50yr		Known WS = 1.14
GatorSlough	GatorSlough	100yr		Known WS = 1.14
GatorSlough	GatorSlough	500yr		Known WS = 1.14

GEOMETRY DATA

Geometry Title: alt2
Geometry File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.g03

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 6

INPUT
Description:
Station Elevation Data num= 209
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
015.810931.51197215.095671.92719414.987436.63488811.569927.73904611.15956
10 11.0021 20 6 40 -5.18 240 -5.18 260 6
275.03386.596048278.10496.911404280.84567.456571 284.4386.734048286.6575 6.5253
288.35086.438589292.46936.274312297.86776.115646298.28126.105773298.5966 6.09227
300.94216.032612 304.093 5.95349308.84255.842399309.9049 5.819311.29755.814687
315.71685.739794319.08835.789398321.52865.818156324.21125.834075327.34055.825157
329.33415.874362333.15235.917914 338.1575.888027338.9642 5.88453 344.1596.053599
344.6946.071371344.76596.073395349.81576.008409350.57786.005298351.5771 6.01119
356.38966.023088360.05946.059943362.20156.055526365.18136.049381368.01336.058471
371.72726.010323373.82526.015296 375.4255.996241 379.6376.037355380.5469 6.05109
385.4489 6.08776387.30086.088549391.26076.094091395.91426.172667397.07266.182955
401.03716.267283402.88446.274123405.30096.325582408.68626.254711411.27416.201979
414.4986.053845418.72396.043635420.30996.038623421.51996.044792426.12186.094304
430.51766.101513431.93366.098101436.88875.982147437.74555.952732442.01165.853244
443.55735.746291447.1345 5.70066449.3692 5.74631452.25745.669144 455.1815.859259
457.38035.908049460.99295.938123462.50325.892483466.80475.785176472.44295.688177
472.61665.684698472.74895.682794473.73445.681715 477.864 5.64786478.41835.653611
479.14615.628216484.23025.317559488.10895.392888490.04215.438355492.57595.466997
495.85395.566537498.35485.440666501.66575.283715503.4777 5.24147507.47765.068574
512.72055.411178513.28945.513938513.72355.462605516.9512 5.5736518.84645.625485
519.10135.654751523.96945.908846524.91316.093889526.15036.010974 530.7255.962567
532.8651 5.87769536.53695.811903539.33385.797331542.3386 5.59487546.28325.880001
548.1505 6.05307 549.5755.993674553.9623 5.71997554.69795.715087559.7742 5.79931
559.82095.800912 560.168 5.80842564.9438 5.91833 565.5865.946776570.06675.885418
571.39795.894733575.18965.880164577.20975.730837580.31255.681929583.02165.751864
586.57255.878968588.83345.875722590.55835.930823594.64536.129188595.68136.138294
600.45726.376047600.80366.383942603.38486.457893606.25896.480248611.04115.945451
612.07075.888593613.4203 5.85749617.88265.916133 621.2876.031165623.69455.995027
626.85015.936799629.50635.889764631.53286.066576635.31826.450052640.27985.822372
641.135.726723646.60175.965977646.94195.985181652.02456.009749652.75375.991779
653.70966.046184658.56566.082474662.27036.140758664.37746.047635667.1393 6.29102
670.18936.738739672.51266.479763 675.9916.378997677.63016.409996681.80296.370804
687.27236.323199687.61476.319861 687.8766.290436689.81856.195624692.99896.054155
693.42666.014174698.12186.156136699.23856.202541703.24486.309748705.05036.285812
708.36766.052905710.86215.843195713.49055.776447 716.6745.804971718.61355.935477
722.48586.050159723.73646.232004728.29776.781312728.8593 6.78227733.03536.834223
734.10966.845201739.09757.196379739.91137.252722744.21927.342844745.72317.263627
747.69467.089917 751.5356.659433754.4094 6.78285757.34696.858228759.58796.877946
763.15887.036226767.83926.835387768.97066.703438774.55416.824662774.78246.822989
774.95676.827647776.25216.837759780.0796 6.80856780.59436.882199781.26896.851957
786.40617.051636790.32546.907259 792.2186.825349795.44836.539918798.02986.531018
801.41366.242802803.84176.264877805.6913 6.32447805.73866.327927

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 20 .03 260 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
20 260 325 325 325 .1 .3
Ineffective Flow num= 1
Sta L Sta R Elev Permanent
613805.7386 15.2 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 5

INPUT
Description:
Station Elevation Data num= 341
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085

158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 480 -5.18 660 -5.18
680 5 682.655.201958 686.27 6.51197 688.416.646765 690.576.395789
694.176.028631 696.356.031603 699.935.760584 703.495.806512 705.695.901203
707.915.912693 711.455.961146 713.695.971509 717.215.990309 720.726.055212
722.976.082868 725.256.130817 728.736.195405 731.026.266038 734.496.309402
737.94 6.29144 740.246.274554 742.576.240178 7466.245327 748.356.266367
751.766.240268 755.16 6.27674 757.526.253942 760.96.210955 763.286.191328
766.646.223729 769.046.303157 771.476.343992 774.8 6.32344 777.256.549578
780.567.120556 783.867.323772 786.327.537362 788.87.439013 792.087.919167
794.588.010237 797.84 7.53986 801.087.808455 803.597.897904 806.138.063661
809.358.175103 811.918.027006 815.117.873364 818.37.742838 820.877.416549
824.046.450529 826.636.309551 829.786.100852 832.395.714542 835.035.925725
838.155.892141 840.85.814042 843.915.882748 847.015.810428 849.675.774001
852.365.911799 855.436.110879 858.496.202652 861.196.296753 863.926.336125
866.956.283342 869.976.206295 872.76.162942 875.47 6.1759 878.466.089849
881.446.124307 884.225.761577 887.18 5.66601 889.985.603367 892.85.576531
895.74 5.67678 898.676.003618 901.516.169354 904.415.969446 907.275.999123
910.146.074927 913.036.166425 915.926.294439 918.796.310585 921.76.385173
924.556.361009 927.486.686382 930.316.855771 933.256.611907 936.066.621873
939.036.396754 941.826.462412 944.596.358266 947.586.322489 950.586.259845
953.346.032999 956.076.246696 959.16.442094 961.816.328462 964.856.318246
967.92 6.24518 970.616.370282 973.296.316515 976.38 6.34482 979.036.274142
982.146.248429 985.266.268067 987.9 6.36914 991.046.492695 993.666.640201
996.816.727577 999.41 6.76576 1001.996.520175 1005.176.559641 1008.366.302435
1010.936.318871 1014.146.419885 1016.696.516535 1019.216.257981 1022.456.131716
1025.76.219831 1028.216.266894 1031.486.463554 1033.97 6.58636 1036.446.704932
1039.736.938327 1043.046.583048 1045.496.363355 1047.926.464112 1051.256.509693
1054.596.492799 1057.016.879647 1059.46.764329 1062.776.699128 1066.15 7.05378
1068.526.615536 1070.886.816121 1074.286.596465 1076.626.654968 1080.046.600485
1083.486.611983 1085.86.703542 1088.16.703364 1091.566.890389 1095.046.365082
1097.326.108542 1099.586.104549 1103.086.125782 1106.596.200291 1108.84 6.16669
1111.066.376547 1114.66.888419 1116.816.823857 1120.366.587055 1123.936.489574
1126.126.720788 1128.286.815931 1131.876.883187 1135.487.156588 1137.637.033715
1139.767.101669 1143.396.811024 1147.046.838494 1149.15 6.68716 1151.246.511702
1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 32 32 32 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 432 15.2 F
708 1153.11 15.2 F

INLINE STRUCTURE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.95

INPUT
Description: US weir
Distance from Upstream XS = 28
Deck/Roadway Width = 2
Weir Coefficient = 2.6
Weir Embankment Coordinates num = 2
Sta Elev Sta Elev
460 1.22 700 1.22

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Weir crest shape = Broad Crested

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4.9

INPUT
Description: dup RS 5
Station Elevation Data num= 341
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085
158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 480 -5.18 660 -5.18
680 5 682.655.201958 686.27 6.51197 688.416.646765 690.576.395789
694.176.028631 696.356.031603 699.935.760584 703.495.806512 705.695.901203
707.915.912693 711.455.961146 713.695.971509 717.215.990309 720.726.055212
722.976.082868 725.256.130817 728.736.195405 731.026.266038 734.496.309402
737.94 6.29144 740.246.274554 742.576.240178 7466.245327 748.356.266367
751.766.240268 755.16 6.27674 757.526.253942 760.96.210955 763.286.191328
766.646.223729 769.046.303157 771.476.343992 774.8 6.32344 777.256.549578
780.567.120556 783.867.323772 786.327.537362 788.87.439013 792.087.919167
794.588.010237 797.84 7.53986 801.087.808455 803.597.897904 806.138.063661
809.358.175103 811.918.027006 815.117.873364 818.37.742838 820.877.416549
824.046.450529 826.636.309551 829.786.100852 832.395.714542 835.035.925725
838.155.892141 840.85.814042 843.915.882748 847.015.810428 849.675.774001
852.365.911799 855.436.110879 858.496.202652 861.196.296753 863.926.336125
866.956.283342 869.976.206295 872.76.162942 875.47 6.1759 878.466.089849
881.446.124307 884.225.761577 887.18 5.66601 889.985.603367 892.85.576531
895.74 5.67678 898.676.003618 901.516.169354 904.415.969446 907.275.999123
910.146.074927 913.036.166425 915.926.294439 918.796.310585 921.76.385173
924.556.361009 927.486.686382 930.316.855771 933.256.611907 936.066.621873
939.036.396754 941.826.462412 944.596.358266 947.586.322489 950.586.259845
953.346.032999 956.076.246696 959.16.442094 961.816.328462 964.856.318246
967.92 6.24518 970.616.370282 973.296.316515 976.38 6.34482 979.036.274142
982.146.248429 985.266.268067 987.9 6.36914 991.046.492695 993.666.640201
996.816.727577 999.41 6.76576 1001.996.520175 1005.176.559641 1008.366.302435
1010.936.318871 1014.146.419885 1016.696.516535 1019.216.257981 1022.456.131716
1025.76.219831 1028.216.266894 1031.486.463554 1033.97 6.58636 1036.446.704932
1039.736.938327 1043.046.583048 1045.496.363355 1047.926.464112 1051.256.509693
1054.596.492799 1057.016.879647 1059.46.764329 1062.776.699128 1066.15 7.05378
1068.526.615536 1070.886.816121 1074.286.596465 1076.626.654968 1080.046.600485
1083.486.611983 1085.86.703542 1088.16.703364 1091.566.890389 1095.046.365082
1097.326.108542 1099.586.104549 1103.086.125782 1106.596.200291 1108.84 6.16669
1111.066.376547 1114.66.888419 1116.816.823857 1120.366.587055 1123.936.489574
1126.126.720788 1128.286.815931 1131.876.883187 1135.487.156588 1137.637.033715
1139.767.101669 1143.396.811024 1147.046.838494 1149.15 6.68716 1151.246.511702
1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 1 1 1 .3 .5
Ineffective Flow num= 2

```
  Sta L   Sta R    Elev  Permanent
    -40    445   15.2      F
 695.25 1153.11   15.2      F

CROSS SECTION


RIVER: GatorSlough
REACH: GatorSlough        RS: 4.89

INPUT
Description: dup RS 5
Station Elevation Data    num=     343
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
     -40 6.40475  -37.24   6.399  -37.026.398235  -31.486.389614   -25.96.267672
  -25.726.265655  -25.546.264254  -19.966.117541   -19.86.120116   -14.26.079359
   -8.57 6.29748   -8.446.299347   -8.316.305284   -2.686.683675   -2.576.686794
   3.087.012018    8.776.919583    8.846.921832    8.916.919635   14.596.536195
  14.646.532438   20.356.542585    26.16.220605   26.116.220217   26.126.220474
  30.366.487984   31.87 6.58304   37.61 6.88196   37.636.881915   37.656.881639
  43.396.760462   43.436.758618   49.156.448464   54.836.260639   54.916.260697
  54.996.259161   60.676.426044   60.776.428965   66.436.325921   72.05 6.76737
  72.196.768289   72.336.769689   77.947.109261    78.17.112264   83.77.031016
  89.27   6.583   89.466.575857   89.656.579198   95.226.181042   95.436.172585
 100.986.575974  106.496.550959  106.74 6.55113  106.996.567522   112.56.664949
 117.976.762691  118.266.780375  118.556.769499  124.02 6.88309  129.466.984616
 129.787.006915  130.117.015774  135.547.173774  135.897.185001   141.37.248809
 146.677.243085  147.057.232946  152.417.197012  152.817.196423  153.217.197085
 158.577.179951  163.897.234093  164.337.236252  169.647.340766  170.097.344185
 170.55 7.34699  175.857.469349  181.127.507696  181.617.506649  186.867.305055
 187.377.303405  187.897.290659  193.137.138133  198.347.011026  198.896.991798
 204.086.865872  204.656.859518  205.226.858679   210.46.825923  215.566.734319
 216.166.715126  216.776.707654  221.926.586567  222.556.581397  227.686.629734
 232.786.537021  233.446.524528  234.116.505478   239.26.504333  239.896.489673
 244.966.417924     2506.498955  250.726.512369  251.446.513701  256.486.468071
 257.226.472039  262.246.717733  267.236.837183     2686.837797  268.786.861415
 273.766.980472  274.566.975163  279.516.735236  284.446.738209  285.276.719759
 286.11 6.71338  291.036.861556  291.896.891734  296.796.889187  301.676.927267
 302.556.950416  303.446.990143  308.31 7.15539  309.227.148989  314.07 7.23408
 318.897.236662  319.837.272815  320.787.271133  325.597.308398  326.567.297071
 331.357.273354  332.347.332561  337.117.555247  341.857.625834  342.867.641699
 347.597.627559  348.62 7.61434  349.67 7.64108  354.387.701519  359.077.595617
 360.147.571332  361.22 7.55008   365.97.442764     3677.365368  371.667.071505
 376.296.962797  377.426.913003  378.567.006341  383.187.296581  384.34 7.31621
 388.94 7.29075  393.527.005053   394.7 6.92965   395.96.867858  400.466.976988
 401.686.998838  406.227.026398  410.736.872643  411.976.853057  413.226.870495
 417.736.918495     4196.953634  423.497.026543  427.957.020765  429.257.024062
 430.566.980596  435.016.766422  436.346.688295  440.776.334496  442.126.276613
 446.535.638418   447.95.484687     460      5   460.1   -5.18     480   -5.18
    660   -5.18   679.9   -5.18     680      5  682.655.201958  686.27 6.51197
 688.416.646765  690.576.395789  694.176.028631  696.356.031603  699.935.760584
 703.495.806512  705.695.901203  707.915.912693  711.455.961146  713.695.971509
 717.215.990309  720.726.055212  722.976.082868  725.256.130817  728.736.195405
 731.026.266038  734.496.309402  737.94 6.29144  740.246.274554  742.576.240178
   7466.245327  748.356.266367  751.766.240268  755.16 6.27674  757.526.253942
  760.96.210955  763.286.191328  766.646.223729  769.046.303157  771.476.343992
  774.8 6.32344  777.256.549578  780.567.120556  783.867.323772  786.327.537362
  788.87.439013  792.087.919167  794.588.010237  797.84 7.53986  801.087.808455
 803.597.897904  806.138.063661  809.358.175103  811.918.027006  815.117.873364
  818.37.742838  820.877.416549  824.046.450529  826.636.309551  829.786.100852
 832.395.714542  835.035.925725  838.155.892141   840.85.814042  843.915.882748
 847.015.810428  849.675.774001  852.365.911799  855.436.110879  858.496.202652
 861.196.296753  863.926.336125  866.956.283342  869.976.206295   872.76.162942
 875.47  6.1759  878.466.089849  881.446.124307  884.225.761577  887.18 5.66601
 889.985.603367   892.85.576531  895.74 5.67678  898.676.003618  901.516.169354
 904.415.969446  907.275.999123  910.146.074927  913.036.166425  915.926.294439
 918.796.310585   921.76.385173  924.556.361009  927.486.686382  930.316.855771
 933.256.611907  936.066.621873  939.036.396754  941.826.462412  944.596.358266
 947.586.322489  950.586.259845  953.346.032999  956.076.246696   959.16.442094
 961.816.328462  964.856.318246  967.92 6.24518  970.616.370282  973.296.316515
 976.38 6.34482  979.036.274142  982.146.248429  985.266.268067   987.9 6.36914
 991.046.492695  993.666.640201  996.816.727577  999.41 6.76576 1001.996.520175
1005.176.559641 1008.366.302435 1010.936.318871 1014.146.419885 1016.696.516535
1019.216.257981 1022.456.131716  1025.76.219831 1028.216.266894 1031.486.463554
1033.97 6.58636 1036.446.704932 1039.736.938327 1043.046.583048 1045.496.363355
1047.926.464112 1051.256.509693 1054.596.492799 1057.016.879647  1059.46.764329
1062.776.699128 1066.15 7.05378 1068.526.615536 1070.886.816121 1074.286.596465
1076.626.654968 1080.046.600485 1083.486.611983  1085.86.703542  1088.16.703364
1091.566.890389 1095.046.365082 1097.326.108542 1099.586.104549 1103.086.125782
1106.596.200291 1108.84 6.16669 1111.066.376547  1114.66.888419 1116.816.823857
1120.366.587055 1123.936.489574 1126.126.720788 1128.286.815931 1131.876.883187
1135.487.156588 1137.637.033715 1139.767.101669 1143.396.811024 1147.046.838494
1149.15 6.68716 1151.246.511702 1153.116.624816

Manning's n Values        num=      3
    Sta   n Val     Sta   n Val     Sta   n Val
    -40     .2     460    .03     680     .2
```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 94 94 94 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 446 15.2 F
694.25 1153.11 15.2 F

BRIDGE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.75

INPUT
Description: NB
Distance from Upstream XS = 10
Deck/Roadway Width = 62.5
Weir Coefficient = 2.6
Upstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-41 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1154 15.2

Upstream Bridge Cross Section Data
Station Elevation Data num= 343
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085
158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 460.1 -5.18 480 -5.18
660 -5.18 679.9 -5.18 680 5 682.655.201958 686.27 6.51197
688.416.646765 690.576.395789 694.176.028631 696.356.031603 699.935.760584
703.495.806512 705.695.901203 707.915.912693 711.455.961146 713.695.971509
717.215.990309 720.726.055212 722.976.082868 725.256.130817 728.736.195405
731.026.266038 734.496.309402 737.94 6.29144 740.246.274554 742.576.240178
7466.245327 748.356.266367 751.766.240268 755.16 6.27674 757.526.253942
760.96.210955 763.286.191328 766.646.223729 769.046.303157 771.476.343992
774.8 6.32344 777.256.549578 780.567.120556 783.867.323772 786.327.537362
788.87.439013 792.087.919167 794.588.010237 797.84 7.53986 801.087.808455
803.597.897904 806.138.063661 809.358.175103 811.918.027006 815.117.873364
818.37.742838 820.877.416549 824.046.450529 826.636.309551 829.786.100852
832.395.714542 835.035.925725 838.155.892141 840.85.814042 843.915.882748
847.015.810428 849.675.774001 852.365.911799 855.436.110879 858.496.202652
861.196.296753 863.926.336125 866.956.283342 869.976.206295 872.76.162942
875.47 6.1759 878.466.089849 881.446.124307 884.225.761577 887.18 5.66601
889.985.603367 892.85.576531 895.74 5.67678 898.676.003618 901.516.169354
904.415.969446 907.275.999123 910.146.074927 913.036.166425 915.926.294439
918.796.310585 921.76.385173 924.556.361009 927.486.686382 930.316.855771
933.256.611907 936.066.621873 939.036.396754 941.826.462412 944.596.358266
947.586.322489 950.586.259845 953.346.032999 956.076.246696 959.16.442094
961.816.328462 964.856.318246 967.92 6.24518 970.616.370282 973.296.316515
976.38 6.34482 979.036.274142 982.146.248429 985.266.268067 987.9 6.36914
991.046.492695 993.666.640201 996.816.727577 999.41 6.76576 1001.996.520175
1005.176.559641 1008.366.302435 1010.936.318871 1014.146.419885 1016.696.516535
1019.216.257981 1022.456.131716 1025.76.219831 1028.216.266894 1031.486.463554
1033.97 6.58636 1036.446.704932 1039.736.938327 1043.046.583048 1045.496.363355

1047.926.464112 1051.256.509693 1054.596.492799 1057.016.879647 1059.46.764329
1062.776.699128 1066.15 7.05378 1068.526.615536 1070.886.816121 1074.286.596465
1076.626.654968 1080.046.600485 1083.486.611983 1085.86.703542 1088.16.703364
1091.566.890389 1095.046.365082 1097.326.108542 1099.586.104549 1103.086.125782
1106.596.200291 1108.84 6.16669 1111.066.376547 1114.66.888419 1116.816.823857
1120.366.587055 1123.936.489574 1126.126.720788 1128.286.815931 1131.876.883187
1135.487.156588 1137.637.033715 1139.767.101669 1143.396.811024 1147.046.838494
1149.15 6.68716 1151.246.511702 1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Coeff Contr. Expan.
460 680 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 446 15.2 F
694.25 1153.11 15.2 F

Downstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-21 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1200 15.2

Downstream Bridge Cross Section Data
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749
79.04 5.82 81.15 5.819 84.8 5.85 88.36 5.88 90.55 5.88
94.06 5.9 96.31 5.909 98.6 5.914 102.07 5.915 105.46 5.893
107.83 5.902 111.16 5.957 113.59 5.955 116.07 6.015 119.35 6.047
122.55 6.001 125.11 5.951 128.25 5.972 130.87 5.999 133.54 5.995
136.63 5.995 139.65 5.995 142.39 5.967 145.35 6.01 148.15 6.064
151.01 6.052 153.91 6.021 156.75 6.078 159.66 6.084 162.64 6.012
165.42 5.945 168.14 5.985 171.18 5.992 174.29 6.096 176.94 6.073
179.54 6.067 182.7 6.019 185.93 6.051 188.46 6.052 191.76 6.015
194.22 6.012 196.64 5.993 199.98 5.999 202.34 5.994 205.74 6.035
209.22 5.986 211.5 6.054 213.74 6.021 217.26 6.011 219.43 6.018
223.01 6.016 226.68 6.087 228.77 6.061 230.82 5.997 234.53 5.941
236.52 5.997 240.29 6.074 244.15 6.09 246.06 6.094 247.92 6.13
251.82 6.123 253.62 6.125 257.58 6.167 261.62 6.141 263.34 6.143
265.02 6.134 269.1 6.094 270.72 6.109 274.86 6.092 279.08 6.181
280.62 6.17 282.12 6.162 286.38 6.116 287.82 6.152 292.13 6.32
296.54 6.32 297.89 6.313 299.21 6.301 303.65 6.384 304.91 6.413
309.41 6.214 314.01 6.016 315.17 6.003 316.3 5.973 320.93 5.867
322 5.835 326.69 5.859 331.48 6.021 332.45 6.017 333.4 5.997
338.21 6.159 339.1 6.17 343.97 6.204 348.94 6.277 349.73 6.307
350.5 6.307 355.48 6.252 356.19 6.272 361.24 6.207 366.4 6.226
367 6.211 367.59 6.211 372.76 6.268 373.29 6.262 378.52 6.203
383.87 6.304 384.28 6.308 384.69 6.295 390.04 6.229 395.51 6.305
395.8 6.309 401.34 6.384 401.56 6.387 401.79 6.389 407.32 6.268
412.98 6.54 413.08 6.541 418.81 6.612 418.85 6.614 418.88 6.613
422.55 6.478 424.57 6.404 424.6 6.404 430.27 6.549 430.36 6.55
430.44 6.549 436.12 6.532 441.67 6.403 441.88 6.407 442.09 6.406
447.64 6.389 453.07 6.385 453.4 6.389 453.73 6.385 459.16 6.331
459.55 6.328 464.92 6.356 465.38 6.356 470.68 6.287 475.87 6.396
476.44 6.422 477.02 6.437 482.2 6.644 487.26 6.749 487.95 6.743
488.66 6.741 492 6 492.1 -5.18 647.9 -5.18 648 6
654.97 6.693 658.94 6.731 660.73 6.732 662.55 6.727 663.1 6.721
666.49 6.682 670.45 6.8 672.25 6.83 674.05 6.883 678.01 6.775
681.99 6.549 683.76 6.491 685.53 6.5 689.52 6.452 693.54 6.392
695.28 6.352 697.02 6.38 701.04 6.456 702.76 6.485 706.8 6.443
708.51 6.421 712.56 6.488 714.26 6.48 718.32 6.406 720 6.419
724.08 6.519 725.75 6.402 729.84 6.393 731.49 6.347 735.6 6.297
737.24 6.256 741.36 6.212 745.51 6.211 747.12 6.257 748.73 6.295
752.87 6.399 757.05 6.434 758.63 6.46 760.21 6.454 764.39 6.422
768.59 6.455 770.15 6.451 771.7 6.459 775.91 6.458 780.14 6.538
781.67 6.544 783.2 6.575 787.43 6.747 791.69 6.725 793.19 6.744
794.69 6.774 798.95 6.819 800.43 6.792 804.71 6.799 806.18 6.804
810.47 6.747 811.92 6.746 816.22 6.859 817.66 6.836 821.98 6.716
823.41 6.698 827.74 6.674 832.1 6.669 833.5 6.68 834.9 6.669
839.26 6.672 843.65 6.648 845.02 6.625 846.39 6.627 850.78 6.574
855.2 6.59 856.54 6.575 857.88 6.592 862.3 6.551 863.63 6.537
868.06 6.537 872.52 6.472 873.82 6.47 875.12 6.466 879.58 6.517
880.86 6.513 885.33 6.51 886.6 6.507 891.09 6.473 892.35 6.474
896.85 6.478 898.09 6.477 902.61 6.508 903.84 6.52 908.37 6.516
909.58 6.502 914.13 6.486 918.71 6.49 919.89 6.491 921.08 6.501
925.65 6.542 926.82 6.538 931.41 6.521 932.57 6.523 937.17 6.501
938.31 6.501 942.93 6.451 944.06 6.443 948.68 6.434 949.79 6.432
954.44 6.436 959.12 6.412 960.2 6.426 961.29 6.428 965.96 6.42

967.03 6.405 971.72 6.4 972.78 6.415 977.48 6.441 982.21 6.426
983.24 6.419 984.27 6.41 989 6.394 990.02 6.389 994.76 6.351
999.53 6.355 1000.52 6.351 1001.51 6.359 1006.28 6.413 1011.08 6.356
1012.03 6.34 1012.99 6.347 1017.79 6.38 1018.73 6.38 1023.55 6.339
1028.4 6.325 1029.31 6.331 1030.23 6.329 1035.07 6.37 1035.97 6.37
1040.83 6.338 1041.72 6.336 1046.59 6.315 1047.46 6.313 1052.35 6.317
1053.21 6.315 1058.11 6.341 1058.96 6.367 1063.87 6.355 1064.7 6.34
1069.63 6.333 1074.59 6.41 1075.39 6.409 1076.19 6.417 1081.14 6.443
1081.93 6.444 1086.9 6.429 1087.68 6.432 1092.66 6.514 1093.42 6.515
1098.42 6.464 1099.17 6.456 1104.18 6.364 1104.91 6.362 1109.94 6.343
1115 6.361 1115.7 6.352 1116.4 6.352 1121.46 6.325 1122.15 6.319
1127.22 6.291 1127.9 6.292 1132.98 6.314 1138.1 6.354 1138.74 6.355
1139.39 6.362 1144.49 6.356 1145.12 6.355 1150.25 6.34 1155.41 6.406
1156.01 6.407 1156.61 6.403 1161.77 6.414 1162.36 6.418 1167.53 6.424
1168.11 6.431 1168.83 6.436

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-20 .2 492 .03 648 .2

Bank Sta: Left Right Coeff Contr. Expan.
492 648 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-20 456 15.2 F
684.25 1168.83 15.2 F

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 2

Pier Data
Pier Station Upstream= 532 Downstream= 532
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Pier Data
Pier Station Upstream= 608.1 Downstream= 608.1
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Highest Energy Answer

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4.6

INPUT
Description:
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749

```
 79.04   5.82  81.15  5.819   84.8   5.85  88.36   5.88  90.55   5.88
 94.06    5.9  96.31  5.909   98.6  5.914 102.07  5.915 105.46  5.893
107.83  5.902 111.16  5.957 113.59  5.955 116.07  6.015 119.35  6.047
122.55  6.001 125.11  5.951 128.25  5.972 130.87  5.999 133.54  5.995
136.63  5.995 139.65  5.995 142.39  5.967 145.35   6.01 148.15  6.064
151.01  6.052 153.91  6.021 156.75  6.078 159.66  6.084 162.64  6.012
165.42  5.945 168.14  5.985 171.18  5.992 174.29  6.096 176.94  6.073
179.54  6.067  182.7  6.019 185.93  6.051 188.46  6.052 191.76  6.015
194.22  6.012 196.64  5.993 199.98  5.999 202.34  5.994 205.74  6.035
209.22  5.986  211.5  6.054 213.74  6.021 217.26  6.011 219.43  6.018
223.01  6.016 226.68  6.087 228.77  6.061 230.82  5.997 234.53  5.941
236.52  5.997 240.29  6.074 244.15   6.09 246.06  6.094 247.92   6.13
251.82  6.123 253.62  6.125 257.58  6.167 261.62  6.141 263.34  6.143
265.02  6.134  269.1  6.094 270.72  6.109 274.86  6.092 279.08  6.181
280.62   6.17 282.12  6.162 286.38  6.116 287.82  6.152 292.13   6.32
296.54   6.32 297.89  6.313 299.21  6.301 303.65  6.384 304.91  6.413
309.41  6.214 314.01  6.016 315.17  6.003  316.3  5.973 320.93  5.867
   322  5.835 326.69  5.859 331.48  6.021 332.45  6.017  333.4  5.997
338.21  6.159  339.1   6.17 343.97  6.204 348.94  6.277 349.73  6.307
 350.5  6.307 355.48  6.252 356.19  6.272 361.24  6.207  366.4  6.226
   367  6.211 367.59  6.211 372.76  6.268 373.29  6.262 378.52  6.203
383.87  6.304 384.28  6.308 384.69  6.295 390.04  6.229 395.51  6.305
 395.8  6.309 401.34  6.384 401.56  6.387 401.79  6.389 407.32  6.268
412.98   6.54 413.08  6.541 418.81  6.612 418.85  6.614 418.88  6.613
422.55  6.478 424.57  6.404  424.6  6.404 430.27  6.549 430.36   6.55
430.44  6.549 436.12  6.532 441.67  6.403 441.88  6.407 442.09  6.406
447.64  6.389 453.07  6.385  453.4  6.389 453.73  6.385 459.16  6.331
459.55  6.328 464.92  6.356 465.38  6.356 470.68  6.287 475.87  6.396
476.44  6.422 477.02  6.437  482.2  6.644 487.26  6.749 487.95  6.743
488.66  6.741   492     6  492.1  -5.18  647.9  -5.18   648     6
654.97  6.693 658.94  6.731 660.73  6.732 662.55  6.727  663.1  6.721
666.49  6.682 670.45    6.8 672.25   6.83 674.05  6.883 678.01  6.775
681.99  6.549 683.76  6.491 685.53    6.5 689.52  6.452 693.54  6.392
695.28  6.352 697.02   6.38 701.04  6.456 702.76  6.485  706.8  6.443
708.51  6.421 712.56  6.488 714.26   6.48 718.32  6.406    720  6.419
724.08  6.519 725.75  6.402 729.84  6.393 731.49  6.347  735.6  6.297
737.24  6.256 741.36  6.212 745.51  6.211 747.12  6.257 748.73  6.295
752.87  6.399 757.05  6.434 758.63   6.46 760.21  6.454 764.39  6.422
768.59  6.455 770.15  6.451  771.7  6.459 775.91  6.458 780.14  6.538
781.67  6.544  783.2  6.575 787.43  6.747 791.69  6.725 793.19  6.744
794.69  6.774 798.95  6.819 800.43  6.792 804.71  6.799 806.18  6.804
810.47  6.747 811.92  6.746 816.22  6.859 817.66  6.836 821.98  6.716
823.41  6.698 827.74  6.674  832.1  6.669  833.5   6.68  834.9  6.669
839.26  6.672 843.65  6.648 845.02  6.625 846.39  6.627 850.78  6.574
 855.2   6.59 856.54  6.575 857.88  6.592  862.3  6.551 863.63  6.537
868.06  6.537 872.52  6.472 873.82   6.47 875.12  6.466 879.58  6.517
880.86  6.513 885.33   6.51  886.6  6.507 891.09  6.473 892.35  6.474
896.85  6.478 898.09  6.477 902.61  6.508 903.84   6.52 908.37  6.516
909.58  6.502 914.13  6.486 918.71   6.49 919.89  6.491 921.08  6.501
925.65  6.542 926.82  6.538 931.41  6.521 932.57  6.523 937.17  6.501
938.31  6.501 942.93  6.451 944.06  6.443 948.68  6.434 949.79  6.432
954.44  6.436 959.12  6.412  960.2  6.426 961.29  6.428 965.96   6.42
967.03  6.405 971.72    6.4 972.78  6.415 977.48  6.441 982.21  6.426
983.24  6.419 984.27   6.41    989  6.394 990.02  6.389 994.76  6.351
999.53  6.355 1000.52  6.351 1001.51  6.359 1006.28  6.413 1011.08  6.356
1012.03   6.34 1012.99  6.347 1017.79   6.38 1018.73   6.38 1023.55  6.339
 1028.4  6.325 1029.31  6.331 1030.23  6.329 1035.07   6.37 1035.97   6.37
1040.83  6.338 1041.72  6.336 1046.59  6.315 1047.46  6.313 1052.35  6.317
1053.21  6.315 1058.11  6.341 1058.96  6.367 1063.87  6.355  1064.7   6.34
1069.63  6.333 1074.59   6.41 1075.39  6.409 1076.19  6.417 1081.14  6.443
1081.93  6.444  1086.9  6.429 1087.68  6.432 1092.66  6.514 1093.42  6.515
1098.42  6.464 1099.17  6.456 1104.18  6.364 1104.91  6.362 1109.94  6.343
  1115  6.361  1115.7  6.352  1116.4  6.352 1121.46  6.325 1122.15  6.319
1127.22  6.291  1127.9  6.292 1132.98  6.314  1138.1  6.354 1138.74  6.355
1139.39  6.362 1144.49  6.356 1145.12  6.355 1150.25   6.34 1155.41  6.406
1156.01  6.407 1156.61  6.403 1161.77  6.414 1162.36  6.418 1167.53  6.424
1168.11  6.431 1168.83  6.436

Manning's n Values        num=      3
   Sta   n Val    Sta   n Val    Sta   n Val
   -20     .2    492    .03    648     .2

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
         492    648              1      1      1           .3      .5
Ineffective Flow     num=      2
  Sta L   Sta R    Elev  Permanent
   -20    456   15.2      F
 684.25 1168.83   15.2      F

CROSS SECTION


RIVER: GatorSlough
REACH: GatorSlough       RS: 4.59

INPUT
Description: dup RS 4.6
Station Elevation Data    num=    367
```

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-20	5.479	-18.88	5.477	-17.83	5.537	-13.12	5.531	-12	5.527
-7.36	5.518	-6.18	5.524	-1.6	5.527	2.89	5.568	4.16	5.556
5.46	5.558	9.92	5.567	11.29	5.575	15.68	5.494	19.98	5.537
21.44	5.533	22.93	5.551	27.19	5.601	28.74	5.591	32.95	5.577
37.07	5.52	38.71	5.512	42.77	5.565	44.47	5.581	46.21	5.578
50.23	5.588	54.17	5.657	55.99	5.686	59.87	5.704	61.75	5.719
63.68	5.751	67.51	5.747	71.27	5.738	73.28	5.708	76.97	5.749
79.04	5.82	81.15	5.819	84.8	5.85	88.36	5.88	90.55	5.88
94.06	5.9	96.31	5.909	98.6	5.914	102.07	5.915	105.46	5.893
107.83	5.902	111.16	5.957	113.59	5.955	116.07	6.015	119.35	6.047
122.55	6.001	125.11	5.951	128.25	5.972	130.87	5.999	133.54	5.995
136.63	5.995	139.65	5.995	142.39	5.967	145.35	6.01	148.15	6.064
151.01	6.052	153.91	6.021	156.75	6.078	159.66	6.084	162.64	6.012
165.42	5.945	168.14	5.985	171.18	5.992	174.29	6.096	176.94	6.073
179.54	6.067	182.7	6.019	185.93	6.051	188.46	6.052	191.76	6.015
194.22	6.012	196.64	5.993	199.98	5.999	202.34	5.994	205.74	6.035
209.22	5.986	211.5	6.054	213.74	6.021	217.26	6.011	219.43	6.018
223.01	6.016	226.68	6.087	228.77	6.061	230.82	5.997	234.53	5.941
236.52	5.997	240.29	6.074	244.15	6.09	246.06	6.094	247.92	6.13
251.82	6.123	253.62	6.125	257.58	6.167	261.62	6.141	263.34	6.143
265.02	6.134	269.1	6.094	270.72	6.109	274.86	6.092	279.08	6.181
280.62	6.17	282.12	6.162	286.38	6.116	287.82	6.152	292.13	6.32
296.54	6.32	297.89	6.313	299.21	6.301	303.65	6.384	304.91	6.413
309.41	6.214	314.01	6.016	315.17	6.003	316.3	5.973	320.93	5.867
322	5.835	326.69	5.859	331.48	6.021	332.45	6.017	333.4	5.997
338.21	6.159	339.1	6.17	343.97	6.204	348.94	6.277	349.73	6.307
350.5	6.307	355.48	6.252	356.19	6.272	361.24	6.207	366.4	6.226
367	6.211	367.59	6.211	372.76	6.268	373.29	6.262	378.52	6.203
383.87	6.304	384.28	6.308	384.69	6.295	390.04	6.229	395.51	6.305
395.8	6.309	401.34	6.384	401.56	6.387	401.79	6.389	407.32	6.268
412.98	6.54	413.08	6.541	418.81	6.612	418.85	6.614	418.88	6.613
422.55	6.478	424.57	6.404	424.6	6.404	430.27	6.549	430.36	6.55
430.44	6.549	436.12	6.532	441.67	6.403	441.88	6.407	442.09	6.406
447.64	6.389	453.07	6.385	453.4	6.389	453.73	6.385	459.16	6.331
459.55	6.328	464.92	6.356	465.38	6.356	470.68	6.287	475.87	6.396
476.44	6.422	477.02	6.437	482.2	6.644	487.26	6.749	487.95	6.743
488.66	6.741	492	6	492.1	-5.18	647.9	-5.18	648	6
654.97	6.693	658.94	6.731	660.73	6.732	662.55	6.727	663.1	6.721
666.49	6.682	670.45	6.8	672.25	6.83	674.05	6.883	678.01	6.775
681.99	6.549	683.76	6.491	685.53	6.5	689.52	6.452	693.54	6.392
695.28	6.352	697.02	6.38	701.04	6.456	702.76	6.485	706.8	6.443
708.51	6.421	712.56	6.488	714.26	6.48	718.32	6.406	720	6.419
724.08	6.519	725.75	6.402	729.84	6.393	731.49	6.347	735.6	6.297
737.24	6.256	741.36	6.212	745.51	6.211	747.12	6.257	748.73	6.295
752.87	6.399	757.05	6.434	758.63	6.46	760.21	6.454	764.39	6.422
768.59	6.455	770.15	6.451	771.7	6.459	775.91	6.458	780.14	6.538
781.67	6.544	783.2	6.575	787.43	6.747	791.69	6.725	793.19	6.744
794.69	6.774	798.95	6.819	800.43	6.792	804.71	6.799	806.18	6.804
810.47	6.747	811.92	6.746	816.22	6.859	817.66	6.836	821.98	6.716
823.41	6.698	827.74	6.674	832.1	6.669	833.5	6.68	834.9	6.669
839.26	6.672	843.65	6.648	845.02	6.625	846.39	6.627	850.78	6.574
855.2	6.59	856.54	6.575	857.88	6.592	862.3	6.551	863.63	6.537
868.06	6.537	872.52	6.472	873.82	6.47	875.12	6.466	879.58	6.517
880.86	6.513	885.33	6.51	886.6	6.507	891.09	6.473	892.35	6.474
896.85	6.478	898.09	6.477	902.61	6.508	903.84	6.52	908.37	6.516
909.58	6.502	914.13	6.486	918.71	6.49	919.89	6.491	921.08	6.501
925.65	6.542	926.82	6.538	931.41	6.521	932.57	6.523	937.17	6.501
938.31	6.501	942.93	6.451	944.06	6.443	948.68	6.434	949.79	6.432
954.44	6.436	959.12	6.412	960.2	6.426	961.29	6.428	965.96	6.42
967.03	6.405	971.72	6.4	972.78	6.415	977.48	6.441	982.21	6.426
983.24	6.419	984.27	6.41	989	6.394	990.02	6.389	994.76	6.351
999.53	6.355	1000.52	6.351	1001.51	6.359	1006.28	6.413	1011.08	6.356
1012.03	6.34	1012.99	6.347	1017.79	6.38	1018.73	6.38	1023.55	6.339
1028.4	6.325	1029.31	6.331	1030.23	6.329	1035.07	6.37	1035.97	6.37
1040.83	6.338	1041.72	6.336	1046.59	6.315	1047.46	6.313	1052.35	6.317
1053.21	6.315	1058.11	6.341	1058.96	6.367	1063.87	6.355	1064.7	6.34
1069.63	6.333	1074.59	6.41	1075.39	6.409	1076.19	6.417	1081.14	6.443
1081.93	6.444	1086.9	6.429	1087.68	6.432	1092.66	6.514	1093.42	6.515
1098.42	6.464	1099.17	6.456	1104.18	6.364	1104.91	6.362	1109.94	6.343
1115	6.361	1115.7	6.352	1116.4	6.352	1121.46	6.325	1122.15	6.319
1127.22	6.291	1127.9	6.292	1132.98	6.314	1138.1	6.354	1138.74	6.355
1139.39	6.362	1144.49	6.356	1145.12	6.355	1150.25	6.34	1155.41	6.406
1156.01	6.407	1156.61	6.403	1161.77	6.414	1162.36	6.418	1167.53	6.424
1168.11	6.431	1168.83	6.436						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-20	.2	492	.03	648	.2

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
492	648	124	124	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-20	456	15.2	F
684.25	1168.83	15.2	F

BRIDGE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.35

INPUT
Description: SB
Distance from Upstream XS = 20
Deck/Roadway Width = 51.4
Weir Coefficient = 2.6
Upstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-41 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1200 15.2

Upstream Bridge Cross Section Data
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749
79.04 5.82 81.15 5.819 84.8 5.85 88.36 5.88 90.55 5.88
94.06 5.9 96.31 5.909 98.6 5.914 102.07 5.915 105.46 5.893
107.83 5.902 111.16 5.957 113.59 5.955 116.07 6.015 119.35 6.047
122.55 6.001 125.11 5.951 128.25 5.972 130.87 5.999 133.54 5.995
136.63 5.995 139.65 5.995 142.39 5.967 145.35 6.01 148.15 6.064
151.01 6.052 153.91 6.021 156.75 6.078 159.66 6.084 162.64 6.012
165.42 5.945 168.14 5.985 171.18 5.992 174.29 6.096 176.94 6.073
179.54 6.067 182.7 6.019 185.93 6.051 188.46 6.052 191.76 6.015
194.22 6.012 196.64 5.993 199.98 5.999 202.34 5.994 205.74 6.035
209.22 5.986 211.5 6.054 213.74 6.021 217.26 6.011 219.43 6.018
223.01 6.016 226.68 6.087 228.77 6.061 230.82 5.997 234.53 5.941
236.52 5.997 240.29 6.074 244.15 6.09 246.06 6.094 247.92 6.13
251.82 6.123 253.62 6.125 257.58 6.167 261.62 6.141 263.34 6.143
265.02 6.134 269.1 6.094 270.72 6.109 274.86 6.092 279.08 6.181
280.62 6.17 282.12 6.162 286.38 6.116 287.82 6.152 292.13 6.32
296.54 6.32 297.89 6.313 299.21 6.301 303.65 6.384 304.91 6.413
309.41 6.214 314.01 6.016 315.17 6.003 316.3 5.973 320.93 5.867
322 5.835 326.69 5.859 331.48 6.021 332.45 6.017 333.4 5.997
338.21 6.159 339.1 6.17 343.97 6.204 348.94 6.277 349.73 6.307
350.5 6.307 355.48 6.252 356.19 6.272 361.24 6.207 366.4 6.226
367 6.211 367.59 6.211 372.76 6.268 373.29 6.262 378.52 6.203
383.87 6.304 384.28 6.308 384.69 6.295 390.04 6.229 395.51 6.305
395.8 6.309 401.34 6.384 401.56 6.387 401.79 6.389 407.32 6.268
412.98 6.54 413.08 6.541 418.81 6.612 418.85 6.614 418.88 6.613
422.55 6.478 424.57 6.404 424.6 6.404 430.27 6.549 430.36 6.55
430.44 6.549 436.12 6.532 441.67 6.403 441.88 6.407 442.09 6.406
447.64 6.389 453.07 6.385 453.4 6.389 453.73 6.385 459.16 6.331
459.55 6.328 464.92 6.356 465.38 6.356 470.68 6.287 475.87 6.396
476.44 6.422 477.02 6.437 482.2 6.644 487.26 6.749 487.95 6.743
488.66 6.741 492 6 492.1 -5.18 647.9 -5.18 648 6
654.97 6.693 658.94 6.731 660.73 6.732 662.55 6.727 663.1 6.721
666.49 6.682 670.45 6.8 672.25 6.83 674.05 6.883 678.01 6.775
681.99 6.549 683.76 6.491 685.53 6.5 689.52 6.452 693.54 6.392
695.28 6.352 697.02 6.38 701.04 6.456 702.76 6.485 706.8 6.443
708.51 6.421 712.56 6.488 714.26 6.48 718.32 6.406 720 6.419
724.08 6.519 725.75 6.402 729.84 6.393 731.49 6.347 735.6 6.297
737.24 6.256 741.36 6.212 745.51 6.211 747.12 6.257 748.73 6.295
752.87 6.399 757.05 6.434 758.63 6.46 760.21 6.454 764.39 6.422
768.59 6.455 770.15 6.451 771.7 6.459 775.91 6.458 780.14 6.538
781.67 6.544 783.2 6.575 787.43 6.747 791.69 6.725 793.19 6.744
794.69 6.774 798.95 6.819 800.43 6.792 804.71 6.799 806.18 6.804
810.47 6.747 811.92 6.746 816.22 6.859 817.66 6.836 821.98 6.716
823.41 6.698 827.74 6.674 832.1 6.669 833.5 6.68 834.9 6.669
839.26 6.672 843.65 6.648 845.02 6.625 846.39 6.627 850.78 6.574
855.2 6.59 856.54 6.575 857.88 6.592 862.3 6.551 863.63 6.537
868.06 6.537 872.52 6.472 873.82 6.47 875.12 6.466 879.58 6.517
880.86 6.513 885.33 6.51 886.6 6.507 891.09 6.473 892.35 6.474
896.85 6.478 898.09 6.477 902.61 6.508 903.84 6.52 908.37 6.516
909.58 6.502 914.13 6.486 918.71 6.49 919.89 6.491 921.08 6.501
925.65 6.542 926.82 6.538 931.41 6.521 932.57 6.523 937.17 6.501
938.31 6.501 942.93 6.451 944.06 6.443 948.68 6.434 949.79 6.432
954.44 6.436 959.12 6.412 960.2 6.426 961.29 6.428 965.96 6.42
967.03 6.405 971.72 6.4 972.78 6.415 977.48 6.441 982.21 6.426
983.24 6.419 984.27 6.41 989 6.394 990.02 6.389 994.76 6.351
999.53 6.355 1000.52 6.351 1001.51 6.359 1006.28 6.413 1011.08 6.356
1012.03 6.34 1012.99 6.347 1017.79 6.38 1018.73 6.38 1023.55 6.339
1028.4 6.325 1029.31 6.331 1030.23 6.329 1035.07 6.37 1035.97 6.37
1040.83 6.338 1041.72 6.336 1046.59 6.315 1047.46 6.313 1052.35 6.317
1053.21 6.315 1058.11 6.341 1058.96 6.367 1063.87 6.355 1064.7 6.34
1069.63 6.333 1074.59 6.41 1075.39 6.409 1076.19 6.417 1081.14 6.443
1081.93 6.444 1086.9 6.429 1087.68 6.432 1092.66 6.514 1093.42 6.515
1098.42 6.464 1099.17 6.456 1104.18 6.364 1104.91 6.362 1109.94 6.343

1115 6.361 1115.7 6.352 1116.4 6.352 1121.46 6.325 1122.15 6.319
1127.22 6.291 1127.9 6.292 1132.98 6.314 1138.1 6.354 1138.74 6.355
1139.39 6.362 1144.49 6.356 1145.12 6.355 1150.25 6.34 1155.41 6.406
1156.01 6.407 1156.61 6.403 1161.77 6.414 1162.36 6.418 1167.53 6.424
1168.11 6.431 1168.83 6.436

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-20 .2 492 .03 648 .2

Bank Sta: Left Right Coeff Contr. Expan.
492 648 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-20 456 15.2 F
684.25 1168.83 15.2 F

Downstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-21 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1200 15.2

Downstream Bridge Cross Section Data
Station Elevation Data num= 336
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.013536 4.627.117898 4.987.129236 5.337.123742 10.74 7.06831
11.037.045314 16.56.672902 22.086.480585 22.266.469163 22.446.466109
28.026.283257 28.146.279891 33.786.148354 39.16.231291 39.546.238067
39.556.238137 45.296.413932 50.936.253401 51.056.252393 56.636.224466
56.816.217647 62.33 6.09241 62.576.089359 68.036.057948 68.336.055989
68.646.057269 74.096.125669 74.466.128069 79.856.175917 85.136.131151
85.616.135355 90.836.211596 91.38 6.21467 96.536.307469 97.146.309958
102.236.296508 102.96.293833 107.936.290092 108.656.295126 109.386.297964
114.416.355277 115.26.358286 120.176.378702 125.036.395321 125.936.403618
130.736.415321 131.696.419686 132.676.417501 137.456.440517 142.136.554865
143.216.573679 144.316.583508 148.976.651402 150.136.655237 154.736.696432
159.236.680517 160.496.686668 161.786.686028 166.25 6.65306 167.66.647576
172.016.652355 176.326.635281 177.766.651303 179.236.658226 183.526.693185
185.056.691573 189.286.695109 193.426.697133 195.046.702182 199.126.687279
200.86.677622 202.516.687095 206.56 6.69487 210.526.705235 212.326.729802
214.166.720155 218.086.753465 219.986.766269 223.846.777088 227.636.743019
229.66.745677 231.62 6.73788 235.366.743994 237.446.725008 241.116.724918
244.726.702303 246.876.711846 249.086.713564 252.636.753021 254.9 6.74197
258.396.720082 261.826.711729 264.156.740036 267.526.739932 269.916.738597
273.226.725852 275.686.721985 278.926.727015 281.446.716796 2846.639936
287.26.554258 290.326.399265 292.966.288069 296.026.210798 298.72 6.19395
301.72 6.19185 304.486.216494 307.426.482284 310.236.614634 313.116.700326
315.996.890442 318.926.879824 321.756.909406 324.526.875915 327.516.847575
330.22 6.74907 333.276.659445 335.926.596866 339.036.495471 341.626.611098
344.796.695492 347.32 6.86416 350.557.137008 353.85 6.93895 356.31 6.7909
358.726.778072 362.076.761401 364.426.775408 367.836.761639 370.126.740871
373.586.731915 375.816.735065 379.346.710323 381.51 6.69813 385.16.723934
388.776.705092 390.866.704043 392.91 6.72117 396.62 6.72873 398.616.733131
402.386.744774 404.316.739341 408.146.720503 410.016.700255 413.96.741404
417.876.714475 419.666.730922 423.76.756803 425.426.744149 427.126.774343
431.186.769161 435.346.734297 436.946.725238 438.516.729741 442.696.796102
444.216.881773 448.457.110452 452.796.895158 454.216.828222 455.61 6.64249
460 6 480 -5.18 660 -5.18 680 6 706.39 6.02978
707.636.065577 708.896.024083 713.396.016923 717.795.948747 719.155.916333
720.535.982049 724.91 6.11976 729.196.178744 730.676.229609 734.96.151528
736.436.120185 7386.169028 742.196.213191 746.36.252873 747.956.433785
7526.885107 753.716.872463 755.466.892992 759.477.048115 763.47.080067
765.237.039326 767.17.000651 770.98 6.7321 774.79 6.45656 776.746.313753
780.496.332604 782.56.327547 784.56 6.31667 788.26 6.26781 791.896.201074
794.026.219452 796.26.147838 799.786.134684 802.026.142399 805.546.095258
807.846.126758 811.36.200877 814.696.261695 817.066.276814 820.396.356381
822.836.358634 825.316.382925 828.596.355306 831.136.355063 834.346.385139
836.946.422173 840.16.415528 843.196.436909 845.86 6.44415 848.896.483392
851.626.415771 854.41 6.39416 857.38 6.36807 860.236.275272 863.146.164995
866.056.393271 868.96.362206 871.696.354553 874.666.200531 877.396.432463
880.426.667475 883.51 6.94614 886.187.086906 889.336.821873 891.946.806644
895.166.860425 897.76.968534 900.196.767302 903.456.725206 905.886.737371
909.216.794893 912.616.792857 914.976.828354 918.436.838322 920.736.810176
924.256.849614 926.496.882003 928.687.078928 932.257.127086 934.387.091448
938.017.293641 941.727.285337 943.777.274018 945.797.189181 949.537.085202
951.497.023186 955.296.772801 959.186.796497 961.056.725225 962.886.726119
966.8 6.5834 968.58 6.54046 972.566.567066 976.636.556079 978.326.577935
982.466.662205 984.086.709423 988.286.825852 989.846.856197 991.386.798488
995.66.710093 997.086.701507 1001.366.540529 1005.746.491599 1007.126.503945
1008.48 6.49885 1012.896.509344 1014.186.521883 1018.656.540792 1023.216.491251
1024.416.477779 1025.586.461524 1030.16 6.46092 1031.276.454761 1035.926.561113
1040.666.638438 1041.686.657149 1042.686.669239 1047.446.603306 1048.386.614744
1053.26.518749 1058.126.550673 1058.966.522362 1059.786.520061 1064.726.405599
1065.486.381188 1070.486.365843 1075.596.291648 1076.246.294163 1081.416.314988
10826.301828 1087.236.205415 1087.76 6.21231 1088.286.211489 1093.526.199525
1093.986.197679 1099.276.258206 1104.686.283366 1105.036.290051 1105.376.286088
1110.79 6.23149 1111.076.226769 1116.556.235404 1122.156.186904 1122.316.183959

1122.476.186684 1128.076.174533 1128.176.171877 1133.836.164007 1137.86.121954
1139.596.103349 1139.616.103128 1145.356.065072 1150.976.167377 1151.116.166425
1151.256.167364 1156.876.233702 1157.076.234755 1162.626.249385 1168.076.212687
1168.38 6.21166 1168.716.211231 1174.156.163875 1179.476.140606 1179.916.138773
1185.176.109379 1185.676.103643 1190.876.102267 1191.436.101143 1191.996.106309
1192.176.108284

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 460 .03 680 .2

Bank Sta: Left Right Coeff Contr. Expan.
460 680 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 403.4 15.2 F
736.85 1192.17 15.2 F

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 2

Pier Data
Pier Station Upstream= 532 Downstream= 532
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Pier Data
Pier Station Upstream= 608.1 Downstream= 608.1
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Highest Energy Answer

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4

INPUT
Description:
Station Elevation Data num= 336
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.013536 4.627.117898 4.987.129236 5.337.123742 10.74 7.06831
11.037.045314 16.56.672902 22.086.480585 22.266.469163 22.446.466109
28.026.283257 28.146.279891 33.786.148354 39.16.231291 39.546.238067
39.556.238137 45.296.413932 50.936.253401 51.056.252393 56.636.224466
56.816.217647 62.33 6.09241 62.576.089359 68.036.057948 68.336.055989
68.646.057269 74.096.125669 74.466.128069 79.856.175917 85.136.131151
85.616.135355 90.836.211596 91.38 6.21467 96.536.307469 97.146.309958
102.236.296508 102.96.293833 107.936.290092 108.656.295126 109.386.297964
114.416.355277 115.26.358286 120.176.378702 125.036.395321 125.936.403618
130.736.415321 131.696.419686 132.676.417501 137.456.440517 142.136.554865
143.216.573679 144.316.583508 148.976.651402 150.136.655237 154.736.696432
159.236.680517 160.496.686668 161.786.686028 166.25 6.65306 167.66.647576
172.016.652355 176.326.635281 177.766.651303 179.236.658226 183.526.693185
185.056.691573 189.286.695109 193.426.697133 195.046.702182 199.126.687279
200.86.677622 202.516.687095 206.56 6.69487 210.526.705235 212.326.729802
214.166.720155 218.086.753465 219.986.766269 223.846.777088 227.636.743019

229.66.745677 231.62 6.73788 235.366.743994 237.446.725008 241.116.724918
244.726.702303 246.876.711846 249.086.713564 252.636.753021 254.9 6.74197
258.396.720082 261.826.711729 264.156.740036 267.526.739932 269.916.738597
273.226.725852 275.686.721985 278.926.727015 281.446.716796 2846.639936
287.26.554258 290.326.399265 292.966.288069 296.026.210798 298.72 6.19395
301.72 6.19185 304.486.216494 307.426.482284 310.236.614634 313.116.700326
315.996.890442 318.926.879824 321.756.909406 324.526.875915 327.516.847575
330.22 6.74907 333.276.659445 335.926.596866 339.036.495471 341.626.611098
344.796.695492 347.32 6.86416 350.557.137008 353.85 6.93895 356.31 6.7909
358.726.778072 362.076.761401 364.426.775408 367.836.761639 370.126.740871
373.586.731915 375.816.735065 379.346.710323 381.51 6.69813 385.16.723934
388.776.705092 390.866.704043 392.91 6.72117 396.62 6.72873 398.616.733131
402.386.744774 404.316.739341 408.146.720503 410.016.700255 413.96.741404
417.876.714475 419.666.730922 423.76.756803 425.426.744149 427.126.774343
431.186.769161 435.346.734297 436.946.725238 438.516.729741 442.696.796102
444.216.881773 448.457.110452 452.796.895158 454.216.828222 455.61 6.64249
460 6 480 -5.18 660 -5.18 680 6 706.39 6.02978
707.636.065577 708.896.024083 713.396.016923 717.795.948747 719.155.916333
720.535.982049 724.91 6.11976 729.196.178744 730.676.229609 734.96.151528
736.436.120185 7386.169028 742.196.213191 746.36.252873 747.956.433785
7526.885107 753.716.872463 755.466.892992 759.477.048115 763.47.080067
765.237.039326 767.17.000651 770.98 6.7321 774.79 6.45656 776.746.313753
780.496.332604 782.56.327547 784.56 6.31667 788.26 6.26781 791.896.201074
794.026.219452 796.26.147838 799.786.134684 802.026.142399 805.546.095258
807.846.126758 811.36.200877 814.696.261695 817.066.276814 820.396.356381
822.836.358634 825.316.382925 828.596.355306 831.136.355063 834.346.385139
836.946.422173 840.16.415528 843.196.436909 845.86 6.44415 848.896.483392
851.626.415771 854.41 6.39416 857.38 6.36807 860.236.275272 863.146.164995
866.056.393271 868.96.362206 871.696.354553 874.666.200531 877.396.432463
880.426.667475 883.51 6.94614 886.187.086906 889.336.821873 891.946.806644
895.166.860425 897.76.968534 900.196.767302 903.456.725206 905.886.737371
909.216.794893 912.616.792857 914.976.828354 918.436.838322 920.736.810176
924.256.849614 926.496.882003 928.687.078928 932.257.127086 934.387.091448
938.017.293641 941.727.285337 943.777.274018 945.797.189181 949.537.085202
951.497.023186 955.296.772801 959.186.796497 961.056.725225 962.886.726119
966.8 6.5834 968.58 6.54046 972.566.567066 976.636.556079 978.326.577935
982.466.662205 984.086.709423 988.286.825852 989.846.856197 991.386.798488
995.66.710093 997.086.701507 1001.366.540529 1005.746.491599 1007.126.503945
1008.48 6.49885 1012.896.509344 1014.186.521883 1018.656.540792 1023.216.491251
1024.416.477779 1025.586.461524 1030.16 6.46092 1031.276.454761 1035.926.561113
1040.666.638438 1041.686.657149 1042.686.669239 1047.446.603306 1048.386.614744
1053.26.518749 1058.126.550673 1058.966.522362 1059.786.520061 1064.726.405599
1065.486.381188 1070.486.365843 1075.596.291648 1076.246.294163 1081.416.314988
10826.301828 1087.236.205415 1087.76 6.21231 1088.286.211489 1093.526.199525
1093.986.197679 1099.276.258206 1104.686.283366 1105.036.290051 1105.376.286088
1110.79 6.23149 1111.076.226769 1116.556.235404 1122.156.186904 1122.316.183959
1122.476.186684 1128.076.174533 1128.176.171877 1133.836.164007 1137.86.121954
1139.596.103349 1139.616.103128 1145.356.065072 1150.976.167377 1151.116.166425
1151.256.167364 1156.876.233702 1157.076.234755 1162.626.249385 1168.076.212687
1168.38 6.21166 1168.716.211231 1174.156.163875 1179.476.140606 1179.916.138773
1185.176.109379 1185.676.103643 1190.876.102267 1191.436.101143 1191.996.106309
1192.176.108284

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 114 114 114 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 403.4 15.2 F
736.85 1192.17 15.2 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 3

INPUT
Description:
Station Elevation Data num= 335
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
05.634134.60008245.6942093.6696945.8725616.3608736.0559969.336566 6.15758
12.121666.25118415.000636.30046717.882466.34340220.670316.32686523.64325 6.27618
26.337186.29805829.40404 6.339232.004066.33165535.164836.38829837.670936.457571
40.925626.53662344.290016.62476446.686416.68795450.147886.743779 52.44726.724338
54.667756.80128858.197996.81504261.853467.01708763.958787.12554467.711337.177508
69.719577.26428471.662337.21704475.480367.281189 77.32927.34113581.24116 7.32991
85.284977.29584487.001957.30658688.662957.28872392.762737.30974394.329827.315601
98.523537.306118102.85867.368556104.28437.365725105.66367.355804110.04517.239238
114.57437.286993115.80597.299978 120.4247.223483121.55677.210919122.65437.202195
127.31757.156901128.32127.129031133.07837.023808133.98816.894236138.83916.245327
139.6556.228245144.59996.121224145.32186.121514150.36066.109317150.98876.104417
156.12146.121435156.65566.169751161.88226.565981162.32246.576659 167.6436.791144
167.98936.790377173.40386.825194179.00086.604692179.1646 6.59849179.32316.608528
184.92546.892205188.88487.114388 190.6477.213563190.67627.214396196.31367.215431

196.4377.216999201.9803 7.05268202.19787.051146202.42257.044293207.95867.033328
213.31386.939056213.7193 6.94072214.13866.929412219.48016.870151219.99676.861282
225.2409 6.68082230.31396.768672231.0017 6.76614231.71286.772161236.76256.698555
237.57086.699401242.52336.685985 247.3146.792759248.28416.799658249.28516.805222
254.03496.752025255.13486.729418259.79576.699656264.30446.625474265.5565 6.61813
266.8509 6.62402271.31736.753371272.70896.787635 277.0786.846729281.30456.674993
282.83886.612917286.97126.376869288.59966.284712292.63795.895649294.36045.753406
298.30465.466722300.12125.353919303.97135.122859 305.8825.022691 309.6385.036376
311.64285.066675315.30475.223729317.4036 5.27189320.96545.685117323.15445.952621
325.4211 6.03595328.91526.230599 332.2956.226451 334.6766.229411337.96186.238059
340.43676.237585343.62856.128935346.19756.022894349.29525.785341351.95835.640795
354.96195.825533357.71916.047181360.62866.900263363.47997.694016366.2953 8.11466
369.24078.405549 371.9628.441422375.00158.550682377.62888.829827380.76238.913927
383.29119.095375386.51319.372685388.9523 9.24564392.27399.160564 394.6199.072814
398.03479.002273401.56568.952641403.79548.801012405.95258.752063409.55628.778395
411.61928.669924 415.3178.397182417.28598.321684421.07788.130779422.95268.107663
426.83868.094725428.6193 8.13578432.59948.141855 434.2868.215867438.36028.481643
439.95278.516696 444.121 8.62904445.61948.734197449.88188.722662451.28388.778104
455.63268.891652456.94318.852104461.39338.785339462.6097 8.60556467.15418.252288
468.27657.911385472.91496.543383 480 6 500 -5.2 680 -5.2
700 6749.39296.488153751.57896.364151755.15376.385935758.84916.352646
760.91456.371062764.70696.423309766.67536.455131768.57956.373201 772.4366.373319
776.42276.501466778.19686.604229779.91036.687259783.94766.785133785.57036.879885
789.70846.907575793.98616.880507795.46926.866059 796.9046.910859 801.237.005478
802.57097.042951806.99087.049484811.55987.026892812.75166.987225813.90466.946448
818.51247.137194819.57157.160261824.27327.132409825.23837.112283 830.0347.159531
830.90527.159342835.79477.109969840.8491 7.20282841.55557.205065842.23787.188137
847.30637.285461 847.8967.293694853.06717.231751858.41267.253088858.82797.249286
864.27047.097436864.58877.101814870.12837.062606870.34957.059001870.56357.055254
876.1103 7.01876.23037.010146881.87117.189202881.89727.190771883.47417.184991
887.56417.170329887.63197.170899 893.2317.167474893.39267.166747893.55987.163617
899.15347.066497904.56476.948121904.9142 6.93992910.23166.958222 910.6756.959044
911.1326 6.95154916.42586.948007921.55556.935678922.18666.940176922.83916.950261
927.94746.970798932.88927.063582933.70827.069709938.55617.086624 939.4697.096575
940.41277.101128945.22987.091477949.88987.099937950.99067.120971952.12847.119407
956.75137.115421957.98637.098494962.51217.041863963.84427.074677968.27297.059033
972.55747.146533974.03387.133176975.55727.101886979.78457.015061981.40767.071377
985.54537.044007989.54827.002939991.30616.906726993.12346.867206997.06696.826549
1000.8826.8190051002.828 6.812411006.5496.7791291008.5896.7799631010.6976.732145
1014.3496.6761261016.5556.674457 1020.116.6669121022.4136.6848081025.871 6.73766
1029.2166.7620761031.6326.8010161034.8836.7873991037.3926.7782181039.9826.782686
1043.1436.8038211046.2076.8471351048.9046.8919261051.8746.9056771054.6656.957508
1057.556.9489861060.426 6.961111063.208 6.941066.1866.8795511068.8756.868396
1071.9476.8957691075.123 6.824271077.7086.7753551080.9816.8247731083.4696.822412
1086.839 6.80634 1089.236.8031031091.542 6.79074 1094.996.7802131097.2096.795392
1100.751 6.8091104.4136.8205261106.5126.8432591108.5396.8419851112.2636.853469
1114.26.8705271118.0246.8549451121.9766.8086481123.7846.7862351125.5336.781861
1129.5456.696079 1131.26.6405741135.3066.627511 1139.556.5698031141.0676.548143
1145.4086.5012231146.8286.5190811151.2666.5094231152.5886.5185121153.8686.501984
1158.349 6.546111159.5356.549551 1164.116.5483011168.8396.5880571169.8716.599367
1170.8676.5898721175.621 6.6371176.5256.6503381181.3826.5934421186.4036.528528
1187.1436.5219891187.8596.5304571192.9046.5981171193.5266.5953371198.6656.549714
1203.9766.5283691204.4256.525875 1204.866.5240651210.186 6.674821212.9676.629958

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 480 .03 700 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
480 700 2992 2992 2992 .1 .3
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 313.4 15.2 F
866.61212.967 15.2 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 2

INPUT
Description:
Station Elevation Data num= 450
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
05.7169533.0405025.7272848.9270045.63529113.00954 5.5133518.665555.150424
19.52365.092546 20.1535.04306723.644384.86976327.296464.846236 28.40414.896162
34.439935.32750438.142655.49674141.583395.64870344.24558 5.7458848.714455.888123
52.482655.93789755.857925.96691857.619755.97146263.001385.99197164.844976.031773
68.965746.06541870.144846.07903277.096866.13594784.431776.15210285.448846.159145
89.569626.22756291.575236.249389 93.6904 6.28662 98.71876.355708104.62256.417423
105.86226.431399110.1707 6.43035113.00566.423311114.28846.400194116.03416.394171
120.14916.349084125.77276.339423126.64296.341413127.28026.353551130.76316.438363
134.42366.469761141.56716.553411143.12546.566182145.24986.591323148.71056.661066
151.36696.698236154.98836.709363 155.8546.702422158.2369 6.65463162.99756.557197
164.72696.549158 167.856.556769170.14096.560685174.46556.523278177.28446.475737
184.4279 6.41677188.45396.408127191.57136.447582193.94266.490539198.71486.561311
200.81416.565407203.68116.669197205.84596.738008212.98936.871006213.41966.873711

217.28936.873028220.13286.846286223.14136.797777225.52666.753677227.27626.765063
232.87986.851731234.41976.879658237.88896.948404241.56327.023889242.61847.034341
246.1304 7.04172248.70667.032128252.35697.044088255.85017.059837258.49287.061393
262.61367.032873265.46576.946252 270.1376.798804 271.834 6.72077274.97596.544682
277.28056.412162279.09666.316373281.57266.132911283.21746.018126 284.4245.928951
291.31115.482089 291.555 5.47225292.22635.489761298.69855.613196299.69345.654872
301.04975.728145303.81415.866703305.84195.973752307.93496.070765310.78826.167706
312.98546.238068319.03356.265806320.12896.275651320.52686.273324327.27236.187408
330.2484 6.0341332.65245.890036334.41585.797626336.77325.687289 339.987 5.51269
341.55935.434537345.88725.411466348.70275.373351349.13555.390818349.72555.438254
353.25635.741339355.84625.992569359.46416.252863362.98976.468141 365.6166.657739
369.20266.925377370.12076.997655 373.8537.279725377.26427.466333378.94127.531781
384.40767.633415388.6797 7.61297390.33617.593648391.55117.603062394.45697.604018
398.41837.567829399.45517.564639 405.8387.554999408.15687.542733412.98157.530588
415.06087.547766417.8954 7.5306419.18157.530075420.12497.539076426.2623 7.571
427.63397.579004431.54397.583354434.41197.578191435.66467.562784437.3725 7.5567
439.78367.533267441.55547.496255447.09417.324724448.69887.257403453.08747.184457
455.82997.117865456.83277.149724 460.3757.304821462.97337.358055464.49587.366015
466.57127.355714468.61657.354174470.11687.355956476.30987.293091477.26037.273585
479.87667.214764484.40377.097619486.04837.079006491.5472 6.98515493.34126.952773
495.78696.883705497.46196.818856498.69066.817505505.52546.686562505.83416.678715
509.82436.629783512.97766.643913513.94516.645947 515.2646.593026518.06586.499019
520.121 6.42308525.0025 6.39305526.30746.397216527.26456.382154533.45076.244791
534.39566.222284534.74116.225821538.66256.305429 541.5396.310773542.7833 6.32458
544.47966.330231546.90236.342032548.6825 6.4376551.02016.560472555.13856.615958
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573.67836.291546577.2563 6.265579.86326.274123583.41696.291735584.3998 6.26986
587.10546.168361591.54335.977541592.22555.957663593.15555.898741596.34635.728696
598.68685.496616 602.894 4.98284605.83024.621269612.63264.541596612.97374.558617
616.94614.807698621.06375.153357622.37115.195052625.18455.288533627.24825.328558
629.3053 5.3578632.10975.353431 633.4265.347189634.39175.310977640.6733 5.15894
641.53515.136118641.84825.106658648.6786 4.40435651.58684.266542654.02994.148011
655.8224.308957658.15074.506679661.32534.807045662.96554.922031667.51014.954346
670.10894.998877671.04695.021776674.62665.163263677.25245.160633680.78555.321792
684.39595.542088 690.5245.875691691.53945.916679695.22685.916941699.34416.019505
700.26266.018379 740 6 760 -6.5 1040 -6.5 1060 6
1061.9227.3010241062.9387.3273341066.0437.2786981070.2777.3153291077.2247.341982
1078.4057.3453551080.0157.3358881082.5267.3358211084.3687.3053791089.7547.251793
1091.5117.2332251096.3497.1882091098.6557.1686451099.4927.1645871105.7867.121743
1109.2147.1593481112.9297.2085441115.4787.2408651118.9537.3119111120.0737.346432
1123.1567.3249141127.2167.313392 1127.847.3095241128.6917.315401 1134.367.271316
1138.437.1439431141.503 7.013361148.1686.7124461152.5656.550675 1155.796.395863
1157.9076.3194421162.9346.0687941167.6455.7560151170.0775.6445381176.7715.325494
1177.3845.298591 1181.415.1674711184.3645.2483261187.1225.3080491191.4955.311121
1193.7665.2824891196.8615.2727511198.6385.2459871203.5314.9462911205.7824.820852
1206.6 4.747241212.9254.3310261216.3384.4724331220.0694.7985131222.6065.093126
1226.065.3011771226.7255.3452421227.2125.3631251230.3855.4603671234.3565.590668
1235.7985.6311371241.499 5.733121245.5375.7386521248.6435.7789461251.4495.801606
1255.275 5.787931257.1925.778521 1262.935.7552771265.0145.7491691270.061 5.70536
1272.0465.6828441274.7535.6915561276.1675.7013361277.2045.6876151284.4915.577036
1288.5295.5577811291.4915.594691 1292.655.618702 1294.235.6207671296.771 5.62774
1298.6355.6563761303.9685.6882931305.7785.696522 1310.765.7979811312.9225.830954
1313.2545.8389531317.3755.8209231320.0655.8420991323.4455.8814821325.6155.874678
1327.2085.8762581334.3525.7656081337.9715.7583471341.4955.7752221342.9065.776441
1348.6265.7755111350.3265.7735771352.6445.7596911362.9135.689728 1366.815.728633
1370.0575.787065 1370.93 5.805841372.1215.814385 1377.25.861263 1381.865.816864
1384.3445.7710031391.1825.7471821395.6555.7242571398.6315.7147271401.3375.683331
1405.7745.7056661408.0175.7125591411.0755.7479311412.1385.7448371412.9185.749188
1417.9895.7597481420.0615.7587291420.8145.7713211427.2045.840155 1428.625.848466
1432.7365.8842131440.2915.9456721441.4795.9462891444.7715.9710411448.6225.993711
1455.7666.0147231459.7516.0733041461.5736.1096261462.9096.1132431465.6946.107527
1469.496.1365811470.053 6.136671479.228 6.094881482.1776.053236 1484.346.065204
1488.9676.0512961491.4836.0145321498.7055.9401761502.7815.858075 1506.95.738136
1508.4445.7574911512.9015.7071971518.1825.5690511520.0455.4423171525.1714.977206
1527.1884.8039621527.9214.7570291534.332 4.88691 1535.744.897698 1537.664.923121
1539.8615.0198461541.4755.0684641547.3985.2891111548.6195.336511 15525.463583
1555.7625.583578 1557.125.6380991562.9065.6822811564.5785.7114441566.8585.744007
1568.6995.7644331570.0495.7371511576.5975.7899951577.1925.7875241578.8325.769706
1584.3365.6889431585.1825.6895561586.3355.6707991589.3035.5616041591.4795.465133
1593.4225.3635171596.0745.278222 1598.615.1872781605.813 4.853131609.8994.775279
1612.8974.7727351615.5514.757854 1625.295.0735051627.1845.1095021630.5035.189753
1634.3285.2645881635.0285.2866281641.4715.4470281642.8665.4725681644.7675.489395
1648.6155.4926341655.7585.5342921659.2075.5346211664.2445.5505091667.5885.549706
1670.045 5.540761673.9655.4698721677.1765.4415171679.9385.4365191683.7045.520175
1686.0145.5551261691.4635.6103311693.4435.6389761698.607 5.625681700.5425.614193
1703.1815.6805021704.6635.695674 1705.755.672248 1712.925.5379561720.0375.504075
1721.1465.5012791722.6585.4479291725.2675.378125 1727.185.3742871731.2985.373521

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 740 .03 1060 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
740 1060 2485 2485 2485 .1 .3

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 1

INPUT
Description:
Station Elevation Data num= 166
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.139362.32024347.1399171.3857517.1293082.0531747.1050955.5647687.006631
8.849891 6.91609 9.742836.92267411.170846.95509615.634817.14119622.021447.448279
22.431527.45752823.119067.45179129.228247.40921432.872047.29375334.810637.213207
36.024957.12556141.311116.91823542.821676.84470843.168676.82031343.722646.747432
47.347696.28521449.618395.75497854.573244.842176 56.41514.59197859.884744.154867
63.211814.14333964.063764.12835465.423844.17830968.242774.28990170.008534.328534
76.274444.44257976.600814.44827976.805254.45258377.695214.46752283.601974.618624
84.958854.60362487.125034.62736789.137864.64219490.398684.62734695.861824.649078
97.183594.64630797.975634.647339103.9803 4.61532108.82624.600175110.02574.593111
110.7774.579875114.20474.583544117.57374.556514119.67684.541188124.37054.603098
126.737 4.65068130.50864.606395130.91354.599888131.16724.604856135.09254.629754
137.96394.547652139.27164.490444141.35924.465056143.45064.430177144.7606 4.39579
147.62964.233104151.5573 3.95681151.80863.963387152.20983.953728155.9876 3.87495
158.3544.043613160.1667 4.25548163.06044.634567164.34574.844993165.15084.897623
168.63925.119306171.93575.336616172.69645.360276 173.9115.394269176.87555.474509
178.73245.519883181.05455.568424184.76165.483582185.52915.491622189.41255.704286
192.3258 5.72928195.61225.760374199.1225 5.82594201.94965.826334205.9193 5.79649
206.12865.798643206.46285.788485 212.7165.587472217.31345.578351218.66565.606949
219.51275.600134222.8447 5.57725226.30945.618122 228.1645.658282233.10615.735694
239.01465.854323239.56045.863221239.90285.875692243.73666.031662246.69956.155753
247.91156.190144249.84636.182899252.08486.183189253.48456.150177 260 6
280 -7.7 560 -7.7 580 6586.4763 6.08955586.9778 6.14979
593.27317.028161597.02787.379149600.06987.658457603.0772 7.91203606.86658.269607
607.87848.342468613.66328.737169618.71029.083757620.45999.204063623.39359.193842
627.25679.193973 628.144 9.17494629.56089.147607632.32319.097367634.0533 9.07832
640.41148.930387640.8383 8.91778 641.5548.904679647.63498.768626 651.2628.729102
654.43178.669438657.3899 8.62072661.22848.589652662.11268.583015668.02518.554443
669.9278.539376672.96328.500792674.82188.496014 677.9388.522849681.61858.561017
683.81388.545994688.41538.499235694.66448.387005 695.2128.390443696.13018.377296
702.00878.288918703.35918.287889 705.5158.268189707.53818.278418708.80548.274513
714.29668.042742715.59037.989136715.88897.987435716.36567.973315720.06797.906287
722.387 7.77662727.2162 7.77945729.18387.753947 732.6057.924538735.98058.050848
738.06688.134135742.77728.341791748.89868.522486749.57398.538365750.70628.526504
752.94878.498083

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 260 .03 580 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
260 580 0 0 0 .1 .3

SUMMARY OF MANNING'S N VALUES

River:GatorSlough

Reach	River Sta.	n1	n2	n3
GatorSlough	6	.2	.03	.2
GatorSlough	5	.2	.03	.2
GatorSlough	4.95	Inl Struct		
GatorSlough	4.9	.2	.03	.2
GatorSlough	4.89	.2	.03	.2
GatorSlough	4.75	Bridge		
GatorSlough	4.6	.2	.03	.2
GatorSlough	4.59	.2	.03	.2
GatorSlough	4.35	Bridge		
GatorSlough	4	.2	.03	.2
GatorSlough	3	.1	.03	.1
GatorSlough	2	.1	.03	.1
GatorSlough	1	.1	.03	.1

SUMMARY OF REACH LENGTHS

River: GatorSlough

Reach	River Sta.	Left	Channel	Right
GatorSlough	6	325	325	325
GatorSlough	5	32	32	32
GatorSlough	4.95	Inl Struct		
GatorSlough	4.9	1	1	1
GatorSlough	4.89	94	94	94
GatorSlough	4.75	Bridge		
GatorSlough	4.6	1	1	1
GatorSlough	4.59	124	124	124

GatorSlough	4.35	Bridge			
GatorSlough	4	114	114	114	
GatorSlough	3	2992	2992	2992	
GatorSlough	2	2485	2485	2485	
GatorSlough	1	0	0	0	

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: GatorSlough

Reach	River Sta.	Contr.	Expan.
GatorSlough	6	.1	.3
GatorSlough	5	.3	.5
GatorSlough	4.95	Inl Struct	
GatorSlough	4.9	.3	.5
GatorSlough	4.89	.3	.5
GatorSlough	4.75	Bridge	
GatorSlough	4.6	.3	.5
GatorSlough	4.59	.3	.5
GatorSlough	4.35	Bridge	
GatorSlough	4	.3	.5
GatorSlough	3	.1	.3
GatorSlough	2	.1	.3
GatorSlough	1	.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/ft)	E.G. Slope (ft/s)	Vel Chnl (sq ft)	Flow Area (ft)	Top Width	Froude # Chl
GatorSlough	6	50yr	1469.00	-5.18	3.16	-4.00	3.18	0.000018	0.82	1793.48	229.86	0.05
GatorSlough	6	100yr	1656.00	-5.18	3.32	-3.90	3.33	0.000022	0.91	1829.07	230.41	0.06
GatorSlough	6	500yr	2137.00	-5.18	3.71	-3.66	3.73	0.000031	1.11	1918.50	231.79	0.07
GatorSlough	5	50yr	1469.00	-5.18	3.16	-3.91	3.17	0.000022	0.90	1636.96	212.75	0.06
GatorSlough	5	100yr	1656.00	-5.18	3.31	-3.81	3.32	0.000026	0.99	1669.53	213.35	0.06
GatorSlough	5	500yr	2137.00	-5.18	3.69	-3.55	3.71	0.000038	1.22	1751.35	214.86	0.08
GatorSlough	4.95		Inl Struct									
GatorSlough	4.9	50yr	1469.00	-5.18	1.26	-3.91	1.28	0.000053	1.18	1240.49	205.30	0.08
GatorSlough	4.9	100yr	1656.00	-5.18	1.29	-3.81	1.32	0.000066	1.33	1246.95	205.42	0.10
GatorSlough	4.9	500yr	2137.00	-5.18	1.39	-3.55	1.43	0.000105	1.69	1266.75	205.80	0.12
GatorSlough	4.89	50yr	1469.00	-5.18	1.26	-4.07	1.28	0.000039	1.04	1416.26	219.93	0.07
GatorSlough	4.89	100yr	1656.00	-5.18	1.29	-3.98	1.31	0.000049	1.16	1423.32	219.93	0.08
GatorSlough	4.89	500yr	2137.00	-5.18	1.39	-3.75	1.43	0.000078	1.48	1444.91	219.93	0.10
GatorSlough	4.75		Bridge									
GatorSlough	4.6	50yr	1469.00	-5.18	1.23	-3.78	1.27	0.000082	1.47	999.29	155.91	0.10
GatorSlough	4.6	100yr	1656.00	-5.18	1.26	-3.66	1.30	0.000103	1.65	1003.07	155.92	0.11
GatorSlough	4.6	500yr	2137.00	-5.18	1.33	-3.38	1.40	0.000165	2.11	1014.66	155.92	0.15
GatorSlough	4.59	50yr	1469.00	-5.18	1.23	-3.78	1.27	0.000082	1.47	999.28	155.91	0.10
GatorSlough	4.59	100yr	1656.00	-5.18	1.26	-3.66	1.30	0.000103	1.65	1003.06	155.92	0.11
GatorSlough	4.59	500yr	2137.00	-5.18	1.33	-3.38	1.40	0.000165	2.11	1014.63	155.92	0.15
GatorSlough	4.35		Bridge									
GatorSlough	4	50yr	1469.00	-5.18	1.23	-3.91	1.25	0.000054	1.20	1226.57	202.92	0.09
GatorSlough	4	100yr	1656.00	-5.18	1.25	-3.81	1.28	0.000068	1.34	1231.23	203.00	0.10
GatorSlough	4	500yr	2137.00	-5.18	1.32	-3.55	1.37	0.000109	1.72	1245.54	203.26	0.12
GatorSlough	3	50yr	1469.00	-5.20	1.22	-3.93	1.24	0.000054	1.20	1229.26	202.93	0.09
GatorSlough	3	100yr	1656.00	-5.20	1.24	-3.83	1.27	0.000068	1.34	1233.59	203.01	0.10
GatorSlough	3	500yr	2137.00	-5.20	1.31	-3.57	1.35	0.000109	1.71	1246.95	203.24	0.12
GatorSlough	2	50yr	1469.00	-6.50	1.16		1.17	0.000012	0.66	2239.59	304.52	0.04
GatorSlough	2	100yr	1656.00	-6.50	1.17		1.18	0.000016	0.74	2241.48	304.54	0.05
GatorSlough	2	500yr	2137.00	-6.50	1.19		1.20	0.000026	0.95	2247.35	304.60	0.06
GatorSlough	1	50yr	1469.00	-7.70	1.14	-6.75	1.15	0.000008	0.57	2589.28	305.81	0.03
GatorSlough	1	100yr	1656.00	-7.70	1.14	-6.68	1.15	0.000010	0.64	2589.28	305.81	0.04
GatorSlough	1	500yr	2137.00	-7.70	1.14	-6.49	1.15	0.000016	0.83	2589.28	305.81	0.05

HEC-RAS HEC-RAS 6.3.1 September 2022
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

Option 1: MLW

```
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: BurntStoreRd
Project File : BurntStoreRd.prj
Run Date and Time: 12/12/2022 2:43:55 PM

Project in English units

PLAN DATA

Plan Title: alt2-MLW
Plan File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.p17

Geometry Title: alt2
Geometry File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.g03

Flow Title : MLW
Flow File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.f01

Plan Summary Information:
Number of: Cross Sections = 10 Multiple Openings = 0
Culverts = 0 Inline Structures = 1
Bridges = 2 Lateral Structures = 0

Computational Information
Water surface calculation tolerance = 0.01
Critical depth calculation tolerance = 0.01
Maximum number of iterations = 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: Subcritical Flow

FLOW DATA

Flow Title: MLW
Flow File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.f01

Flow Data (cfs)

River	Reach	RS	2yr	10yr	50yr	100yr	500yr
GatorSlough	GatorSlough	6	523	1027	1469	1656	2137

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
GatorSlough	GatorSlough	2yr		Known WS = -1.21
GatorSlough	GatorSlough	10yr		Known WS = -1.21
GatorSlough	GatorSlough	50yr		Known WS = -1.21
GatorSlough	GatorSlough	100yr		Known WS = -1.21
GatorSlough	GatorSlough	500yr		Known WS = -1.21

GEOMETRY DATA

Geometry Title: alt2
Geometry File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.g03

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 6

INPUT
Description:
Station Elevation Data num= 209
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
015.810931.51197215.095671.92719414.987436.63488811.569927.73904611.15956
10 11.0021 20 6 40 -5.18 240 -5.18 260 6
275.03386.596048278.10496.911404280.84567.456571 284.4386.734048286.6575 6.5253
288.35086.438589292.46936.274312297.86776.115646298.28126.105773298.5966 6.09227
300.94216.032612 304.093 5.95349308.84255.842399309.9049 5.819311.29755.814687
315.71685.739794319.08835.789398321.52865.818156324.21125.834075327.34055.825157
329.33415.874362333.15235.917914 338.1575.888027338.9642 5.88453 344.1596.053599
344.6946.071371344.76596.073395349.81576.008409350.57786.005298351.5771 6.01119
356.38966.023088360.05946.059943362.20156.055526365.18136.049381368.01336.058471
371.72726.010323373.82526.015296 375.4255.996241 379.6376.037355380.5469 6.05109
385.4489 6.08776387.30086.088549391.26076.094091395.91426.172667397.07266.182955
401.03716.267283402.88446.274123405.30096.325582408.68626.254711411.27416.201979
414.4986.053845418.72396.043635420.30996.038623421.51996.044792426.12186.094304
430.51766.101513431.93366.098101436.88875.982147437.74555.952732442.01165.853244
443.55735.746291447.1345 5.70066449.3692 5.74631452.25745.669144 455.1815.859259
457.38035.908049460.99295.938123462.50325.892483466.80475.785176472.44295.688177
472.61665.684698472.74895.682794473.73445.681715 477.864 5.64786478.41835.653611
479.14615.628216484.23025.317559488.10895.392888490.04215.438355492.57595.466997
495.85395.566537498.35485.440666501.66575.283715503.4777 5.24147507.47765.068574
512.72055.411178513.28945.513938513.72355.462605516.9512 5.5736518.84645.625485
519.10135.654751523.96945.908846524.91316.093889526.15036.010974 530.7255.962567
532.8651 5.87769536.53695.811903539.33385.797331542.3386 5.59487546.28325.880001
548.1505 6.05307 549.5755.993674553.9623 5.71997554.69795.715087559.7742 5.79931
559.82095.800912 560.168 5.80842564.9438 5.91833 565.5865.946776570.06675.885418
571.39795.894733575.18965.880164577.20975.730837580.31255.681929583.02165.751864
586.57255.878968588.83345.875722590.55835.930823594.64536.129188595.68136.138294
600.45726.376047600.80366.383942603.38486.457893606.25896.480248611.04115.945451
612.07075.888593613.4203 5.85749617.88265.916133 621.2876.031165623.69455.995027
626.85015.936799629.50635.889764631.53286.066576635.31826.450052640.27985.822372
641.135.726723646.60175.965977646.94195.985181652.02456.009749652.75375.991779
653.70966.046184658.56566.082474662.27036.140758664.37746.047635667.1393 6.29102
670.18936.738739672.51266.479763 675.9916.378997677.63016.409996681.80296.370804
687.27236.323199687.61476.319861 687.8766.290436689.81856.195624692.99896.054155
693.42666.014174698.12186.156136699.23856.202541703.24486.309748705.05036.285812
708.36766.052905710.86215.843195713.49055.776447 716.6745.804971718.61355.935477
722.48586.050159723.73646.232004728.29776.781312728.8593 6.78227733.03536.834223
734.10966.845201739.09757.196379739.91137.252722744.21927.342844745.72317.263627
747.69467.089917 751.5356.659433754.4094 6.78285757.34696.858228759.58796.877946
763.15887.036226767.83926.835387768.97066.703438774.55416.824662774.78246.822989
774.95676.827647776.25216.837759780.0796 6.80856780.59436.882199781.26896.851957
786.40617.051636790.32546.907259 792.2186.825349795.44836.539918798.02986.531018
801.41366.242802803.84176.264877805.6913 6.32447805.73866.327927

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 20 .03 260 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
20 260 325 325 325 .1 .3
Ineffective Flow num= 1
Sta L Sta R Elev Permanent
613805.7386 15.2 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 5

INPUT
Description:
Station Elevation Data num= 341
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085

158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 480 -5.18 660 -5.18
680 5 682.655.201958 686.27 6.51197 688.416.646765 690.576.395789
694.176.028631 696.356.031603 699.935.760584 703.495.806512 705.695.901203
707.915.912693 711.455.961146 713.695.971509 717.215.990309 720.726.055212
722.976.082868 725.256.130817 728.736.195405 731.026.266038 734.496.309402
737.94 6.29144 740.246.274554 742.576.240178 7466.245327 748.356.266367
751.766.240268 755.16 6.27674 757.526.253942 760.96.210955 763.286.191328
766.646.223729 769.046.303157 771.476.343992 774.8 6.32344 777.256.549578
780.567.120556 783.867.323772 786.327.537362 788.87.439013 792.087.919167
794.588.010237 797.84 7.53986 801.087.808455 803.597.897904 806.138.063661
809.358.175103 811.918.027006 815.117.873364 818.37.742838 820.877.416549
824.046.450529 826.636.309551 829.786.100852 832.395.714542 835.035.925725
838.155.892141 840.85.814042 843.915.882748 847.015.810428 849.675.774001
852.365.911799 855.436.110879 858.496.202652 861.196.296753 863.926.336125
866.956.283342 869.976.206295 872.76.162942 875.47 6.1759 878.466.089849
881.446.124307 884.225.761577 887.18 5.66601 889.985.603367 892.85.576531
895.74 5.67678 898.676.003618 901.516.169354 904.415.969446 907.275.999123
910.146.074927 913.036.166425 915.926.294439 918.796.310585 921.76.385173
924.556.361009 927.486.686382 930.316.855771 933.256.611907 936.066.621873
939.036.396754 941.826.462412 944.596.358266 947.586.322489 950.586.259845
953.346.032999 956.076.246696 959.16.442094 961.816.328462 964.856.318246
967.92 6.24518 970.616.370282 973.296.316515 976.38 6.34482 979.036.274142
982.146.248429 985.266.268067 987.9 6.36914 991.046.492695 993.666.640201
996.816.727577 999.41 6.76576 1001.996.520175 1005.176.559641 1008.366.302435
1010.936.318871 1014.146.419885 1016.696.516535 1019.216.257981 1022.456.131716
1025.76.219831 1028.216.266894 1031.486.463554 1033.97 6.58636 1036.446.704932
1039.736.938327 1043.046.583048 1045.496.363355 1047.926.464112 1051.256.509693
1054.596.492799 1057.016.879647 1059.46.764329 1062.776.699128 1066.15 7.05378
1068.526.615536 1070.886.816121 1074.286.596465 1076.626.654968 1080.046.600485
1083.486.611983 1085.86.703542 1088.16.703364 1091.566.890389 1095.046.365082
1097.326.108542 1099.586.104549 1103.086.125782 1106.596.200291 1108.84 6.16669
1111.066.376547 1114.66.888419 1116.816.823857 1120.366.587055 1123.936.489574
1126.126.720788 1128.286.815931 1131.876.883187 1135.487.156588 1137.637.033715
1139.767.101669 1143.396.811024 1147.046.838494 1149.15 6.68716 1151.246.511702
1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 32 32 32 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 432 15.2 F
708 1153.11 15.2 F

INLINE STRUCTURE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.95

INPUT
Description: US weir
Distance from Upstream XS = 28
Deck/Roadway Width = 2
Weir Coefficient = 2.6
Weir Embankment Coordinates num = 2
Sta Elev Sta Elev
460 1.22 700 1.22

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Weir crest shape = Broad Crested

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4.9

INPUT
Description: dup RS 5
Station Elevation Data num= 341
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085
158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 480 -5.18 660 -5.18
680 5 682.655.201958 686.27 6.51197 688.416.646765 690.576.395789
694.176.028631 696.356.031603 699.935.760584 703.495.806512 705.695.901203
707.915.912693 711.455.961146 713.695.971509 717.215.990309 720.726.055212
722.976.082868 725.256.130817 728.736.195405 731.026.266038 734.496.309402
737.94 6.29144 740.246.274554 742.576.240178 7466.245327 748.356.266367
751.766.240268 755.16 6.27674 757.526.253942 760.96.210955 763.286.191328
766.646.223729 769.046.303157 771.476.343992 774.8 6.32344 777.256.549578
780.567.120556 783.867.323772 786.327.537362 788.87.439013 792.087.919167
794.588.010237 797.84 7.53986 801.087.808455 803.597.897904 806.138.063661
809.358.175103 811.918.027006 815.117.873364 818.37.742838 820.877.416549
824.046.450529 826.636.309551 829.786.100852 832.395.714542 835.035.925725
838.155.892141 840.85.814042 843.915.882748 847.015.810428 849.675.774001
852.365.911799 855.436.110879 858.496.202652 861.196.296753 863.926.336125
866.956.283342 869.976.206295 872.76.162942 875.47 6.1759 878.466.089849
881.446.124307 884.225.761577 887.18 5.66601 889.985.603367 892.85.576531
895.74 5.67678 898.676.003618 901.516.169354 904.415.969446 907.275.999123
910.146.074927 913.036.166425 915.926.294439 918.796.310585 921.76.385173
924.556.361009 927.486.686382 930.316.855771 933.256.611907 936.066.621873
939.036.396754 941.826.462412 944.596.358266 947.586.322489 950.586.259845
953.346.032999 956.076.246696 959.16.442094 961.816.328462 964.856.318246
967.92 6.24518 970.616.370282 973.296.316515 976.38 6.34482 979.036.274142
982.146.248429 985.266.268067 987.9 6.36914 991.046.492695 993.666.640201
996.816.727577 999.41 6.76576 1001.996.520175 1005.176.559641 1008.366.302435
1010.936.318871 1014.146.419885 1016.696.516535 1019.216.257981 1022.456.131716
1025.76.219831 1028.216.266894 1031.486.463554 1033.97 6.58636 1036.446.704932
1039.736.938327 1043.046.583048 1045.496.363355 1047.926.464112 1051.256.509693
1054.596.492799 1057.016.879647 1059.46.764329 1062.776.699128 1066.15 7.05378
1068.526.615536 1070.886.816121 1074.286.596465 1076.626.654968 1080.046.600485
1083.486.611983 1085.86.703542 1088.16.703364 1091.566.890389 1095.046.365082
1097.326.108542 1099.586.104549 1103.086.125782 1106.596.200291 1108.84 6.16669
1111.066.376547 1114.66.888419 1116.816.823857 1120.366.587055 1123.936.489574
1126.126.720788 1128.286.815931 1131.876.883187 1135.487.156588 1137.637.033715
1139.767.101669 1143.396.811024 1147.046.838494 1149.15 6.68716 1151.246.511702
1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 1 1 1 .3 .5
Ineffective Flow num= 2

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  Sta L   Sta R    Elev  Permanent
    -40    445   15.2      F
 695.25 1153.11   15.2      F

CROSS SECTION


RIVER: GatorSlough
REACH: GatorSlough        RS: 4.89

INPUT
Description: dup RS 5
Station Elevation Data    num=     343
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
     -40 6.40475  -37.24   6.399  -37.026.398235  -31.486.389614   -25.96.267672
  -25.726.265655  -25.546.264254  -19.966.117541   -19.86.120116   -14.26.079359
   -8.57 6.29748   -8.446.299347   -8.316.305284   -2.686.683675   -2.576.686794
   3.087.012018    8.776.919583    8.846.921832    8.916.919635   14.596.536195
  14.646.532438   20.356.542585    26.16.220605   26.116.220217   26.126.220474
  30.366.487984   31.87 6.58304   37.61 6.88196   37.636.881915   37.656.881639
  43.396.760462   43.436.758618   49.156.448464   54.836.260639   54.916.260697
  54.996.259161   60.676.426044   60.776.428965   66.436.325921   72.05 6.76737
  72.196.768289   72.336.769689   77.947.109261    78.17.112264   83.77.031016
  89.27   6.583   89.466.575857   89.656.579198   95.226.181042   95.436.172585
 100.986.575974  106.496.550959  106.74 6.55113  106.996.567522   112.56.664949
 117.976.762691  118.266.780375  118.556.769499  124.02 6.88309  129.466.984616
 129.787.006915  130.117.015774  135.547.173774  135.897.185001   141.37.248809
 146.677.243085  147.057.232946  152.417.197012  152.817.196423  153.217.197085
 158.577.179951  163.897.234093  164.337.236252  169.647.340766  170.097.344185
 170.55 7.34699  175.857.469349  181.127.507696  181.617.506649  186.867.305055
 187.377.303405  187.897.290659  193.137.138133  198.347.011026  198.896.991798
 204.086.865872  204.656.859518  205.226.858679   210.46.825923  215.566.734319
 216.166.715126  216.776.707654  221.926.586567  222.556.581397  227.686.629734
 232.786.537021  233.446.524528  234.116.505478   239.26.504333  239.896.489673
 244.966.417924     2506.498955  250.726.512369  251.446.513701  256.486.468071
 257.226.472039  262.246.717733  267.236.837183     2686.837797  268.786.861415
 273.766.980472  274.566.975163  279.516.735236  284.446.738209  285.276.719759
 286.11 6.71338  291.036.861556  291.896.891734  296.796.889187  301.676.927267
 302.556.950416  303.446.990143  308.31 7.15539  309.227.148989  314.07 7.23408
 318.897.236662  319.837.272815  320.787.271133  325.597.308398  326.567.297071
 331.357.273354  332.347.332561  337.117.555247  341.857.625834  342.867.641699
 347.597.627559  348.62 7.61434  349.67 7.64108  354.387.701519  359.077.595617
 360.147.571332  361.22 7.55008   365.97.442764     3677.365368  371.667.071505
 376.296.962797  377.426.913003  378.567.006341  383.187.296581  384.34 7.31621
 388.94 7.29075  393.527.005053   394.7 6.92965   395.96.867858  400.466.976988
 401.686.998838  406.227.026398  410.736.872643  411.976.853057  413.226.870495
 417.736.918495     4196.953634  423.497.026543  427.957.020765  429.257.024062
 430.566.980596  435.016.766422  436.346.688295  440.776.334496  442.126.276613
 446.535.638418   447.95.484687     460      5   460.1   -5.18     480   -5.18
    660   -5.18   679.9   -5.18     680      5  682.655.201958  686.27 6.51197
 688.416.646765  690.576.395789  694.176.028631  696.356.031603  699.935.760584
 703.495.806512  705.695.901203  707.915.912693  711.455.961146  713.695.971509
 717.215.990309  720.726.055212  722.976.082868  725.256.130817  728.736.195405
 731.026.266038  734.496.309402  737.94 6.29144  740.246.274554  742.576.240178
   7466.245327  748.356.266367  751.766.240268  755.16 6.27674  757.526.253942
  760.96.210955  763.286.191328  766.646.223729  769.046.303157  771.476.343992
  774.8 6.32344  777.256.549578  780.567.120556  783.867.323772  786.327.537362
  788.87.439013  792.087.919167  794.588.010237  797.84 7.53986  801.087.808455
 803.597.897904  806.138.063661  809.358.175103  811.918.027006  815.117.873364
  818.37.742838  820.877.416549  824.046.450529  826.636.309551  829.786.100852
 832.395.714542  835.035.925725  838.155.892141   840.85.814042  843.915.882748
 847.015.810428  849.675.774001  852.365.911799  855.436.110879  858.496.202652
 861.196.296753  863.926.336125  866.956.283342  869.976.206295   872.76.162942
 875.47  6.1759  878.466.089849  881.446.124307  884.225.761577  887.18 5.66601
 889.985.603367   892.85.576531  895.74 5.67678  898.676.003618  901.516.169354
 904.415.969446  907.275.999123  910.146.074927  913.036.166425  915.926.294439
 918.796.310585   921.76.385173  924.556.361009  927.486.686382  930.316.855771
 933.256.611907  936.066.621873  939.036.396754  941.826.462412  944.596.358266
 947.586.322489  950.586.259845  953.346.032999  956.076.246696   959.16.442094
 961.816.328462  964.856.318246  967.92 6.24518  970.616.370282  973.296.316515
 976.38 6.34482  979.036.274142  982.146.248429  985.266.268067   987.9 6.36914
 991.046.492695  993.666.640201  996.816.727577  999.41 6.76576 1001.996.520175
1005.176.559641 1008.366.302435 1010.936.318871 1014.146.419885 1016.696.516535
1019.216.257981 1022.456.131716  1025.76.219831 1028.216.266894 1031.486.463554
1033.97 6.58636 1036.446.704932 1039.736.938327 1043.046.583048 1045.496.363355
1047.926.464112 1051.256.509693 1054.596.492799 1057.016.879647  1059.46.764329
1062.776.699128 1066.15 7.05378 1068.526.615536 1070.886.816121 1074.286.596465
1076.626.654968 1080.046.600485 1083.486.611983  1085.86.703542  1088.16.703364
1091.566.890389 1095.046.365082 1097.326.108542 1099.586.104549 1103.086.125782
1106.596.200291 1108.84 6.16669 1111.066.376547  1114.66.888419 1116.816.823857
1120.366.587055 1123.936.489574 1126.126.720788 1128.286.815931 1131.876.883187
1135.487.156588 1137.637.033715 1139.767.101669 1143.396.811024 1147.046.838494
1149.15 6.68716 1151.246.511702 1153.116.624816

Manning's n Values        num=      3
    Sta   n Val     Sta   n Val     Sta   n Val
    -40     .2     460    .03     680     .2
```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 94 94 94 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 446 15.2 F
694.25 1153.11 15.2 F

BRIDGE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.75

INPUT
Description: NB
Distance from Upstream XS = 10
Deck/Roadway Width = 62.5
Weir Coefficient = 2.6
Upstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-41 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1154 15.2

Upstream Bridge Cross Section Data
Station Elevation Data num= 343
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085
158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 460.1 -5.18 480 -5.18
660 -5.18 679.9 -5.18 680 5 682.655.201958 686.27 6.51197
688.416.646765 690.576.395789 694.176.028631 696.356.031603 699.935.760584
703.495.806512 705.695.901203 707.915.912693 711.455.961146 713.695.971509
717.215.990309 720.726.055212 722.976.082868 725.256.130817 728.736.195405
731.026.266038 734.496.309402 737.94 6.29144 740.246.274554 742.576.240178
7466.245327 748.356.266367 751.766.240268 755.16 6.27674 757.526.253942
760.96.210955 763.286.191328 766.646.223729 769.046.303157 771.476.343992
774.8 6.32344 777.256.549578 780.567.120556 783.867.323772 786.327.537362
788.87.439013 792.087.919167 794.588.010237 797.84 7.53986 801.087.808455
803.597.897904 806.138.063661 809.358.175103 811.918.027006 815.117.873364
818.37.742838 820.877.416549 824.046.450529 826.636.309551 829.786.100852
832.395.714542 835.035.925725 838.155.892141 840.85.814042 843.915.882748
847.015.810428 849.675.774001 852.365.911799 855.436.110879 858.496.202652
861.196.296753 863.926.336125 866.956.283342 869.976.206295 872.76.162942
875.47 6.1759 878.466.089849 881.446.124307 884.225.761577 887.18 5.66601
889.985.603367 892.85.576531 895.74 5.67678 898.676.003618 901.516.169354
904.415.969446 907.275.999123 910.146.074927 913.036.166425 915.926.294439
918.796.310585 921.76.385173 924.556.361009 927.486.686382 930.316.855771
933.256.611907 936.066.621873 939.036.396754 941.826.462412 944.596.358266
947.586.322489 950.586.259845 953.346.032999 956.076.246696 959.16.442094
961.816.328462 964.856.318246 967.92 6.24518 970.616.370282 973.296.316515
976.38 6.34482 979.036.274142 982.146.248429 985.266.268067 987.9 6.36914
991.046.492695 993.666.640201 996.816.727577 999.41 6.76576 1001.996.520175
1005.176.559641 1008.366.302435 1010.936.318871 1014.146.419885 1016.696.516535
1019.216.257981 1022.456.131716 1025.76.219831 1028.216.266894 1031.486.463554
1033.97 6.58636 1036.446.704932 1039.736.938327 1043.046.583048 1045.496.363355

1047.926.464112 1051.256.509693 1054.596.492799 1057.016.879647 1059.46.764329
1062.776.699128 1066.15 7.05378 1068.526.615536 1070.886.816121 1074.286.596465
1076.626.654968 1080.046.600485 1083.486.611983 1085.86.703542 1088.16.703364
1091.566.890389 1095.046.365082 1097.326.108542 1099.586.104549 1103.086.125782
1106.596.200291 1108.84 6.16669 1111.066.376547 1114.66.888419 1116.816.823857
1120.366.587055 1123.936.489574 1126.126.720788 1128.286.815931 1131.876.883187
1135.487.156588 1137.637.033715 1139.767.101669 1143.396.811024 1147.046.838494
1149.15 6.68716 1151.246.511702 1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Coeff Contr. Expan.
460 680 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 446 15.2 F
694.25 1153.11 15.2 F

Downstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-21 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1200 15.2

Downstream Bridge Cross Section Data
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749
79.04 5.82 81.15 5.819 84.8 5.85 88.36 5.88 90.55 5.88
94.06 5.9 96.31 5.909 98.6 5.914 102.07 5.915 105.46 5.893
107.83 5.902 111.16 5.957 113.59 5.955 116.07 6.015 119.35 6.047
122.55 6.001 125.11 5.951 128.25 5.972 130.87 5.999 133.54 5.995
136.63 5.995 139.65 5.995 142.39 5.967 145.35 6.01 148.15 6.064
151.01 6.052 153.91 6.021 156.75 6.078 159.66 6.084 162.64 6.012
165.42 5.945 168.14 5.985 171.18 5.992 174.29 6.096 176.94 6.073
179.54 6.067 182.7 6.019 185.93 6.051 188.46 6.052 191.76 6.015
194.22 6.012 196.64 5.993 199.98 5.999 202.34 5.994 205.74 6.035
209.22 5.986 211.5 6.054 213.74 6.021 217.26 6.011 219.43 6.018
223.01 6.016 226.68 6.087 228.77 6.061 230.82 5.997 234.53 5.941
236.52 5.997 240.29 6.074 244.15 6.09 246.06 6.094 247.92 6.13
251.82 6.123 253.62 6.125 257.58 6.167 261.62 6.141 263.34 6.143
265.02 6.134 269.1 6.094 270.72 6.109 274.86 6.092 279.08 6.181
280.62 6.17 282.12 6.162 286.38 6.116 287.82 6.152 292.13 6.32
296.54 6.32 297.89 6.313 299.21 6.301 303.65 6.384 304.91 6.413
309.41 6.214 314.01 6.016 315.17 6.003 316.3 5.973 320.93 5.867
322 5.835 326.69 5.859 331.48 6.021 332.45 6.017 333.4 5.997
338.21 6.159 339.1 6.17 343.97 6.204 348.94 6.277 349.73 6.307
350.5 6.307 355.48 6.252 356.19 6.272 361.24 6.207 366.4 6.226
367 6.211 367.59 6.211 372.76 6.268 373.29 6.262 378.52 6.203
383.87 6.304 384.28 6.308 384.69 6.295 390.04 6.229 395.51 6.305
395.8 6.309 401.34 6.384 401.56 6.387 401.79 6.389 407.32 6.268
412.98 6.54 413.08 6.541 418.81 6.612 418.85 6.614 418.88 6.613
422.55 6.478 424.57 6.404 424.6 6.404 430.27 6.549 430.36 6.55
430.44 6.549 436.12 6.532 441.67 6.403 441.88 6.407 442.09 6.406
447.64 6.389 453.07 6.385 453.4 6.389 453.73 6.385 459.16 6.331
459.55 6.328 464.92 6.356 465.38 6.356 470.68 6.287 475.87 6.396
476.44 6.422 477.02 6.437 482.2 6.644 487.26 6.749 487.95 6.743
488.66 6.741 492 6 492.1 -5.18 647.9 -5.18 648 6
654.97 6.693 658.94 6.731 660.73 6.732 662.55 6.727 663.1 6.721
666.49 6.682 670.45 6.8 672.25 6.83 674.05 6.883 678.01 6.775
681.99 6.549 683.76 6.491 685.53 6.5 689.52 6.452 693.54 6.392
695.28 6.352 697.02 6.38 701.04 6.456 702.76 6.485 706.8 6.443
708.51 6.421 712.56 6.488 714.26 6.48 718.32 6.406 720 6.419
724.08 6.519 725.75 6.402 729.84 6.393 731.49 6.347 735.6 6.297
737.24 6.256 741.36 6.212 745.51 6.211 747.12 6.257 748.73 6.295
752.87 6.399 757.05 6.434 758.63 6.46 760.21 6.454 764.39 6.422
768.59 6.455 770.15 6.451 771.7 6.459 775.91 6.458 780.14 6.538
781.67 6.544 783.2 6.575 787.43 6.747 791.69 6.725 793.19 6.744
794.69 6.774 798.95 6.819 800.43 6.792 804.71 6.799 806.18 6.804
810.47 6.747 811.92 6.746 816.22 6.859 817.66 6.836 821.98 6.716
823.41 6.698 827.74 6.674 832.1 6.669 833.5 6.68 834.9 6.669
839.26 6.672 843.65 6.648 845.02 6.625 846.39 6.627 850.78 6.574
855.2 6.59 856.54 6.575 857.88 6.592 862.3 6.551 863.63 6.537
868.06 6.537 872.52 6.472 873.82 6.47 875.12 6.466 879.58 6.517
880.86 6.513 885.33 6.51 886.6 6.507 891.09 6.473 892.35 6.474
896.85 6.478 898.09 6.477 902.61 6.508 903.84 6.52 908.37 6.516
909.58 6.502 914.13 6.486 918.71 6.49 919.89 6.491 921.08 6.501
925.65 6.542 926.82 6.538 931.41 6.521 932.57 6.523 937.17 6.501
938.31 6.501 942.93 6.451 944.06 6.443 948.68 6.434 949.79 6.432
954.44 6.436 959.12 6.412 960.2 6.426 961.29 6.428 965.96 6.42

967.03 6.405 971.72 6.4 972.78 6.415 977.48 6.441 982.21 6.426
983.24 6.419 984.27 6.41 989 6.394 990.02 6.389 994.76 6.351
999.53 6.355 1000.52 6.351 1001.51 6.359 1006.28 6.413 1011.08 6.356
1012.03 6.34 1012.99 6.347 1017.79 6.38 1018.73 6.38 1023.55 6.339
1028.4 6.325 1029.31 6.331 1030.23 6.329 1035.07 6.37 1035.97 6.37
1040.83 6.338 1041.72 6.336 1046.59 6.315 1047.46 6.313 1052.35 6.317
1053.21 6.315 1058.11 6.341 1058.96 6.367 1063.87 6.355 1064.7 6.34
1069.63 6.333 1074.59 6.41 1075.39 6.409 1076.19 6.417 1081.14 6.443
1081.93 6.444 1086.9 6.429 1087.68 6.432 1092.66 6.514 1093.42 6.515
1098.42 6.464 1099.17 6.456 1104.18 6.364 1104.91 6.362 1109.94 6.343
1115 6.361 1115.7 6.352 1116.4 6.352 1121.46 6.325 1122.15 6.319
1127.22 6.291 1127.9 6.292 1132.98 6.314 1138.1 6.354 1138.74 6.355
1139.39 6.362 1144.49 6.356 1145.12 6.355 1150.25 6.34 1155.41 6.406
1156.01 6.407 1156.61 6.403 1161.77 6.414 1162.36 6.418 1167.53 6.424
1168.11 6.431 1168.83 6.436

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-20 .2 492 .03 648 .2

Bank Sta: Left Right Coeff Contr. Expan.
492 648 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-20 456 15.2 F
684.25 1168.83 15.2 F

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 2

Pier Data
Pier Station Upstream= 532 Downstream= 532
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Pier Data
Pier Station Upstream= 608.1 Downstream= 608.1
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Highest Energy Answer

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4.6

INPUT
Description:
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749

```
 79.04   5.82  81.15  5.819   84.8   5.85  88.36   5.88  90.55   5.88
 94.06    5.9  96.31  5.909   98.6  5.914 102.07  5.915 105.46  5.893
107.83  5.902 111.16  5.957 113.59  5.955 116.07  6.015 119.35  6.047
122.55  6.001 125.11  5.951 128.25  5.972 130.87  5.999 133.54  5.995
136.63  5.995 139.65  5.995 142.39  5.967 145.35   6.01 148.15  6.064
151.01  6.052 153.91  6.021 156.75  6.078 159.66  6.084 162.64  6.012
165.42  5.945 168.14  5.985 171.18  5.992 174.29  6.096 176.94  6.073
179.54  6.067  182.7  6.019 185.93  6.051 188.46  6.052 191.76  6.015
194.22  6.012 196.64  5.993 199.98  5.999 202.34  5.994 205.74  6.035
209.22  5.986  211.5  6.054 213.74  6.021 217.26  6.011 219.43  6.018
223.01  6.016 226.68  6.087 228.77  6.061 230.82  5.997 234.53  5.941
236.52  5.997 240.29  6.074 244.15   6.09 246.06  6.094 247.92   6.13
251.82  6.123 253.62  6.125 257.58  6.167 261.62  6.141 263.34  6.143
265.02  6.134  269.1  6.094 270.72  6.109 274.86  6.092 279.08  6.181
280.62   6.17 282.12  6.162 286.38  6.116 287.82  6.152 292.13   6.32
296.54   6.32 297.89  6.313 299.21  6.301 303.65  6.384 304.91  6.413
309.41  6.214 314.01  6.016 315.17  6.003  316.3  5.973 320.93  5.867
   322  5.835 326.69  5.859 331.48  6.021 332.45  6.017  333.4  5.997
338.21  6.159  339.1   6.17 343.97  6.204 348.94  6.277 349.73  6.307
 350.5  6.307 355.48  6.252 356.19  6.272 361.24  6.207  366.4  6.226
   367  6.211 367.59  6.211 372.76  6.268 373.29  6.262 378.52  6.203
383.87  6.304 384.28  6.308 384.69  6.295 390.04  6.229 395.51  6.305
 395.8  6.309 401.34  6.384 401.56  6.387 401.79  6.389 407.32  6.268
412.98   6.54 413.08  6.541 418.81  6.612 418.85  6.614 418.88  6.613
422.55  6.478 424.57  6.404  424.6  6.404 430.27  6.549 430.36   6.55
430.44  6.549 436.12  6.532 441.67  6.403 441.88  6.407 442.09  6.406
447.64  6.389 453.07  6.385  453.4  6.389 453.73  6.385 459.16  6.331
459.55  6.328 464.92  6.356 465.38  6.356 470.68  6.287 475.87  6.396
476.44  6.422 477.02  6.437  482.2  6.644 487.26  6.749 487.95  6.743
488.66  6.741   492     6  492.1  -5.18  647.9  -5.18   648     6
654.97  6.693 658.94  6.731 660.73  6.732 662.55  6.727  663.1  6.721
666.49  6.682 670.45    6.8 672.25   6.83 674.05  6.883 678.01  6.775
681.99  6.549 683.76  6.491 685.53    6.5 689.52  6.452 693.54  6.392
695.28  6.352 697.02   6.38 701.04  6.456 702.76  6.485  706.8  6.443
708.51  6.421 712.56  6.488 714.26   6.48 718.32  6.406    720  6.419
724.08  6.519 725.75  6.402 729.84  6.393 731.49  6.347  735.6  6.297
737.24  6.256 741.36  6.212 745.51  6.211 747.12  6.257 748.73  6.295
752.87  6.399 757.05  6.434 758.63   6.46 760.21  6.454 764.39  6.422
768.59  6.455 770.15  6.451  771.7  6.459 775.91  6.458 780.14  6.538
781.67  6.544  783.2  6.575 787.43  6.747 791.69  6.725 793.19  6.744
794.69  6.774 798.95  6.819 800.43  6.792 804.71  6.799 806.18  6.804
810.47  6.747 811.92  6.746 816.22  6.859 817.66  6.836 821.98  6.716
823.41  6.698 827.74  6.674  832.1  6.669  833.5   6.68  834.9  6.669
839.26  6.672 843.65  6.648 845.02  6.625 846.39  6.627 850.78  6.574
 855.2   6.59 856.54  6.575 857.88  6.592  862.3  6.551 863.63  6.537
868.06  6.537 872.52  6.472 873.82   6.47 875.12  6.466 879.58  6.517
880.86  6.513 885.33   6.51  886.6  6.507 891.09  6.473 892.35  6.474
896.85  6.478 898.09  6.477 902.61  6.508 903.84   6.52 908.37  6.516
909.58  6.502 914.13  6.486 918.71   6.49 919.89  6.491 921.08  6.501
925.65  6.542 926.82  6.538 931.41  6.521 932.57  6.523 937.17  6.501
938.31  6.501 942.93  6.451 944.06  6.443 948.68  6.434 949.79  6.432
954.44  6.436 959.12  6.412  960.2  6.426 961.29  6.428 965.96   6.42
967.03  6.405 971.72    6.4 972.78  6.415 977.48  6.441 982.21  6.426
983.24  6.419 984.27   6.41    989  6.394 990.02  6.389 994.76  6.351
999.53  6.355 1000.52  6.351 1001.51  6.359 1006.28  6.413 1011.08  6.356
1012.03   6.34 1012.99  6.347 1017.79   6.38 1018.73   6.38 1023.55  6.339
 1028.4  6.325 1029.31  6.331 1030.23  6.329 1035.07   6.37 1035.97   6.37
1040.83  6.338 1041.72  6.336 1046.59  6.315 1047.46  6.313 1052.35  6.317
1053.21  6.315 1058.11  6.341 1058.96  6.367 1063.87  6.355  1064.7   6.34
1069.63  6.333 1074.59   6.41 1075.39  6.409 1076.19  6.417 1081.14  6.443
1081.93  6.444  1086.9  6.429 1087.68  6.432 1092.66  6.514 1093.42  6.515
1098.42  6.464 1099.17  6.456 1104.18  6.364 1104.91  6.362 1109.94  6.343
  1115  6.361  1115.7  6.352  1116.4  6.352 1121.46  6.325 1122.15  6.319
1127.22  6.291  1127.9  6.292 1132.98  6.314  1138.1  6.354 1138.74  6.355
1139.39  6.362 1144.49  6.356 1145.12  6.355 1150.25   6.34 1155.41  6.406
1156.01  6.407 1156.61  6.403 1161.77  6.414 1162.36  6.418 1167.53  6.424
1168.11  6.431 1168.83  6.436

Manning's n Values        num=      3
   Sta   n Val    Sta   n Val    Sta   n Val
   -20     .2    492    .03    648     .2

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
         492    648              1      1      1           .3      .5
Ineffective Flow     num=      2
  Sta L   Sta R    Elev  Permanent
   -20    456   15.2      F
 684.25 1168.83   15.2      F

CROSS SECTION


RIVER: GatorSlough
REACH: GatorSlough       RS: 4.59

INPUT
Description: dup RS 4.6
Station Elevation Data    num=    367
```

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-20	5.479	-18.88	5.477	-17.83	5.537	-13.12	5.531	-12	5.527
-7.36	5.518	-6.18	5.524	-1.6	5.527	2.89	5.568	4.16	5.556
5.46	5.558	9.92	5.567	11.29	5.575	15.68	5.494	19.98	5.537
21.44	5.533	22.93	5.551	27.19	5.601	28.74	5.591	32.95	5.577
37.07	5.52	38.71	5.512	42.77	5.565	44.47	5.581	46.21	5.578
50.23	5.588	54.17	5.657	55.99	5.686	59.87	5.704	61.75	5.719
63.68	5.751	67.51	5.747	71.27	5.738	73.28	5.708	76.97	5.749
79.04	5.82	81.15	5.819	84.8	5.85	88.36	5.88	90.55	5.88
94.06	5.9	96.31	5.909	98.6	5.914	102.07	5.915	105.46	5.893
107.83	5.902	111.16	5.957	113.59	5.955	116.07	6.015	119.35	6.047
122.55	6.001	125.11	5.951	128.25	5.972	130.87	5.999	133.54	5.995
136.63	5.995	139.65	5.995	142.39	5.967	145.35	6.01	148.15	6.064
151.01	6.052	153.91	6.021	156.75	6.078	159.66	6.084	162.64	6.012
165.42	5.945	168.14	5.985	171.18	5.992	174.29	6.096	176.94	6.073
179.54	6.067	182.7	6.019	185.93	6.051	188.46	6.052	191.76	6.015
194.22	6.012	196.64	5.993	199.98	5.999	202.34	5.994	205.74	6.035
209.22	5.986	211.5	6.054	213.74	6.021	217.26	6.011	219.43	6.018
223.01	6.016	226.68	6.087	228.77	6.061	230.82	5.997	234.53	5.941
236.52	5.997	240.29	6.074	244.15	6.09	246.06	6.094	247.92	6.13
251.82	6.123	253.62	6.125	257.58	6.167	261.62	6.141	263.34	6.143
265.02	6.134	269.1	6.094	270.72	6.109	274.86	6.092	279.08	6.181
280.62	6.17	282.12	6.162	286.38	6.116	287.82	6.152	292.13	6.32
296.54	6.32	297.89	6.313	299.21	6.301	303.65	6.384	304.91	6.413
309.41	6.214	314.01	6.016	315.17	6.003	316.3	5.973	320.93	5.867
322	5.835	326.69	5.859	331.48	6.021	332.45	6.017	333.4	5.997
338.21	6.159	339.1	6.17	343.97	6.204	348.94	6.277	349.73	6.307
350.5	6.307	355.48	6.252	356.19	6.272	361.24	6.207	366.4	6.226
367	6.211	367.59	6.211	372.76	6.268	373.29	6.262	378.52	6.203
383.87	6.304	384.28	6.308	384.69	6.295	390.04	6.229	395.51	6.305
395.8	6.309	401.34	6.384	401.56	6.387	401.79	6.389	407.32	6.268
412.98	6.54	413.08	6.541	418.81	6.612	418.85	6.614	418.88	6.613
422.55	6.478	424.57	6.404	424.6	6.404	430.27	6.549	430.36	6.55
430.44	6.549	436.12	6.532	441.67	6.403	441.88	6.407	442.09	6.406
447.64	6.389	453.07	6.385	453.4	6.389	453.73	6.385	459.16	6.331
459.55	6.328	464.92	6.356	465.38	6.356	470.68	6.287	475.87	6.396
476.44	6.422	477.02	6.437	482.2	6.644	487.26	6.749	487.95	6.743
488.66	6.741	492	6	492.1	-5.18	647.9	-5.18	648	6
654.97	6.693	658.94	6.731	660.73	6.732	662.55	6.727	663.1	6.721
666.49	6.682	670.45	6.8	672.25	6.83	674.05	6.883	678.01	6.775
681.99	6.549	683.76	6.491	685.53	6.5	689.52	6.452	693.54	6.392
695.28	6.352	697.02	6.38	701.04	6.456	702.76	6.485	706.8	6.443
708.51	6.421	712.56	6.488	714.26	6.48	718.32	6.406	720	6.419
724.08	6.519	725.75	6.402	729.84	6.393	731.49	6.347	735.6	6.297
737.24	6.256	741.36	6.212	745.51	6.211	747.12	6.257	748.73	6.295
752.87	6.399	757.05	6.434	758.63	6.46	760.21	6.454	764.39	6.422
768.59	6.455	770.15	6.451	771.7	6.459	775.91	6.458	780.14	6.538
781.67	6.544	783.2	6.575	787.43	6.747	791.69	6.725	793.19	6.744
794.69	6.774	798.95	6.819	800.43	6.792	804.71	6.799	806.18	6.804
810.47	6.747	811.92	6.746	816.22	6.859	817.66	6.836	821.98	6.716
823.41	6.698	827.74	6.674	832.1	6.669	833.5	6.68	834.9	6.669
839.26	6.672	843.65	6.648	845.02	6.625	846.39	6.627	850.78	6.574
855.2	6.59	856.54	6.575	857.88	6.592	862.3	6.551	863.63	6.537
868.06	6.537	872.52	6.472	873.82	6.47	875.12	6.466	879.58	6.517
880.86	6.513	885.33	6.51	886.6	6.507	891.09	6.473	892.35	6.474
896.85	6.478	898.09	6.477	902.61	6.508	903.84	6.52	908.37	6.516
909.58	6.502	914.13	6.486	918.71	6.49	919.89	6.491	921.08	6.501
925.65	6.542	926.82	6.538	931.41	6.521	932.57	6.523	937.17	6.501
938.31	6.501	942.93	6.451	944.06	6.443	948.68	6.434	949.79	6.432
954.44	6.436	959.12	6.412	960.2	6.426	961.29	6.428	965.96	6.42
967.03	6.405	971.72	6.4	972.78	6.415	977.48	6.441	982.21	6.426
983.24	6.419	984.27	6.41	989	6.394	990.02	6.389	994.76	6.351
999.53	6.355	1000.52	6.351	1001.51	6.359	1006.28	6.413	1011.08	6.356
1012.03	6.34	1012.99	6.347	1017.79	6.38	1018.73	6.38	1023.55	6.339
1028.4	6.325	1029.31	6.331	1030.23	6.329	1035.07	6.37	1035.97	6.37
1040.83	6.338	1041.72	6.336	1046.59	6.315	1047.46	6.313	1052.35	6.317
1053.21	6.315	1058.11	6.341	1058.96	6.367	1063.87	6.355	1064.7	6.34
1069.63	6.333	1074.59	6.41	1075.39	6.409	1076.19	6.417	1081.14	6.443
1081.93	6.444	1086.9	6.429	1087.68	6.432	1092.66	6.514	1093.42	6.515
1098.42	6.464	1099.17	6.456	1104.18	6.364	1104.91	6.362	1109.94	6.343
1115	6.361	1115.7	6.352	1116.4	6.352	1121.46	6.325	1122.15	6.319
1127.22	6.291	1127.9	6.292	1132.98	6.314	1138.1	6.354	1138.74	6.355
1139.39	6.362	1144.49	6.356	1145.12	6.355	1150.25	6.34	1155.41	6.406
1156.01	6.407	1156.61	6.403	1161.77	6.414	1162.36	6.418	1167.53	6.424
1168.11	6.431	1168.83	6.436						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-20	.2	492	.03	648	.2

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
492	648	124	124	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-20	456	15.2	F
684.25	1168.83	15.2	F

BRIDGE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.35

INPUT
Description: SB
Distance from Upstream XS = 20
Deck/Roadway Width = 51.4
Weir Coefficient = 2.6
Upstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-41 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1200 15.2

Upstream Bridge Cross Section Data
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749
79.04 5.82 81.15 5.819 84.8 5.85 88.36 5.88 90.55 5.88
94.06 5.9 96.31 5.909 98.6 5.914 102.07 5.915 105.46 5.893
107.83 5.902 111.16 5.957 113.59 5.955 116.07 6.015 119.35 6.047
122.55 6.001 125.11 5.951 128.25 5.972 130.87 5.999 133.54 5.995
136.63 5.995 139.65 5.995 142.39 5.967 145.35 6.01 148.15 6.064
151.01 6.052 153.91 6.021 156.75 6.078 159.66 6.084 162.64 6.012
165.42 5.945 168.14 5.985 171.18 5.992 174.29 6.096 176.94 6.073
179.54 6.067 182.7 6.019 185.93 6.051 188.46 6.052 191.76 6.015
194.22 6.012 196.64 5.993 199.98 5.999 202.34 5.994 205.74 6.035
209.22 5.986 211.5 6.054 213.74 6.021 217.26 6.011 219.43 6.018
223.01 6.016 226.68 6.087 228.77 6.061 230.82 5.997 234.53 5.941
236.52 5.997 240.29 6.074 244.15 6.09 246.06 6.094 247.92 6.13
251.82 6.123 253.62 6.125 257.58 6.167 261.62 6.141 263.34 6.143
265.02 6.134 269.1 6.094 270.72 6.109 274.86 6.092 279.08 6.181
280.62 6.17 282.12 6.162 286.38 6.116 287.82 6.152 292.13 6.32
296.54 6.32 297.89 6.313 299.21 6.301 303.65 6.384 304.91 6.413
309.41 6.214 314.01 6.016 315.17 6.003 316.3 5.973 320.93 5.867
322 5.835 326.69 5.859 331.48 6.021 332.45 6.017 333.4 5.997
338.21 6.159 339.1 6.17 343.97 6.204 348.94 6.277 349.73 6.307
350.5 6.307 355.48 6.252 356.19 6.272 361.24 6.207 366.4 6.226
367 6.211 367.59 6.211 372.76 6.268 373.29 6.262 378.52 6.203
383.87 6.304 384.28 6.308 384.69 6.295 390.04 6.229 395.51 6.305
395.8 6.309 401.34 6.384 401.56 6.387 401.79 6.389 407.32 6.268
412.98 6.54 413.08 6.541 418.81 6.612 418.85 6.614 418.88 6.613
422.55 6.478 424.57 6.404 424.6 6.404 430.27 6.549 430.36 6.55
430.44 6.549 436.12 6.532 441.67 6.403 441.88 6.407 442.09 6.406
447.64 6.389 453.07 6.385 453.4 6.389 453.73 6.385 459.16 6.331
459.55 6.328 464.92 6.356 465.38 6.356 470.68 6.287 475.87 6.396
476.44 6.422 477.02 6.437 482.2 6.644 487.26 6.749 487.95 6.743
488.66 6.741 492 6 492.1 -5.18 647.9 -5.18 648 6
654.97 6.693 658.94 6.731 660.73 6.732 662.55 6.727 663.1 6.721
666.49 6.682 670.45 6.8 672.25 6.83 674.05 6.883 678.01 6.775
681.99 6.549 683.76 6.491 685.53 6.5 689.52 6.452 693.54 6.392
695.28 6.352 697.02 6.38 701.04 6.456 702.76 6.485 706.8 6.443
708.51 6.421 712.56 6.488 714.26 6.48 718.32 6.406 720 6.419
724.08 6.519 725.75 6.402 729.84 6.393 731.49 6.347 735.6 6.297
737.24 6.256 741.36 6.212 745.51 6.211 747.12 6.257 748.73 6.295
752.87 6.399 757.05 6.434 758.63 6.46 760.21 6.454 764.39 6.422
768.59 6.455 770.15 6.451 771.7 6.459 775.91 6.458 780.14 6.538
781.67 6.544 783.2 6.575 787.43 6.747 791.69 6.725 793.19 6.744
794.69 6.774 798.95 6.819 800.43 6.792 804.71 6.799 806.18 6.804
810.47 6.747 811.92 6.746 816.22 6.859 817.66 6.836 821.98 6.716
823.41 6.698 827.74 6.674 832.1 6.669 833.5 6.68 834.9 6.669
839.26 6.672 843.65 6.648 845.02 6.625 846.39 6.627 850.78 6.574
855.2 6.59 856.54 6.575 857.88 6.592 862.3 6.551 863.63 6.537
868.06 6.537 872.52 6.472 873.82 6.47 875.12 6.466 879.58 6.517
880.86 6.513 885.33 6.51 886.6 6.507 891.09 6.473 892.35 6.474
896.85 6.478 898.09 6.477 902.61 6.508 903.84 6.52 908.37 6.516
909.58 6.502 914.13 6.486 918.71 6.49 919.89 6.491 921.08 6.501
925.65 6.542 926.82 6.538 931.41 6.521 932.57 6.523 937.17 6.501
938.31 6.501 942.93 6.451 944.06 6.443 948.68 6.434 949.79 6.432
954.44 6.436 959.12 6.412 960.2 6.426 961.29 6.428 965.96 6.42
967.03 6.405 971.72 6.4 972.78 6.415 977.48 6.441 982.21 6.426
983.24 6.419 984.27 6.41 989 6.394 990.02 6.389 994.76 6.351
999.53 6.355 1000.52 6.351 1001.51 6.359 1006.28 6.413 1011.08 6.356
1012.03 6.34 1012.99 6.347 1017.79 6.38 1018.73 6.38 1023.55 6.339
1028.4 6.325 1029.31 6.331 1030.23 6.329 1035.07 6.37 1035.97 6.37
1040.83 6.338 1041.72 6.336 1046.59 6.315 1047.46 6.313 1052.35 6.317
1053.21 6.315 1058.11 6.341 1058.96 6.367 1063.87 6.355 1064.7 6.34
1069.63 6.333 1074.59 6.41 1075.39 6.409 1076.19 6.417 1081.14 6.443
1081.93 6.444 1086.9 6.429 1087.68 6.432 1092.66 6.514 1093.42 6.515
1098.42 6.464 1099.17 6.456 1104.18 6.364 1104.91 6.362 1109.94 6.343

1115 6.361 1115.7 6.352 1116.4 6.352 1121.46 6.325 1122.15 6.319
1127.22 6.291 1127.9 6.292 1132.98 6.314 1138.1 6.354 1138.74 6.355
1139.39 6.362 1144.49 6.356 1145.12 6.355 1150.25 6.34 1155.41 6.406
1156.01 6.407 1156.61 6.403 1161.77 6.414 1162.36 6.418 1167.53 6.424
1168.11 6.431 1168.83 6.436

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-20 .2 492 .03 648 .2

Bank Sta: Left Right Coeff Contr. Expan.
492 648 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-20 456 15.2 F
684.25 1168.83 15.2 F

Downstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-21 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1200 15.2

Downstream Bridge Cross Section Data
Station Elevation Data num= 336
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.013536 4.627.117898 4.987.129236 5.337.123742 10.74 7.06831
11.037.045314 16.56.672902 22.086.480585 22.266.469163 22.446.466109
28.026.283257 28.146.279891 33.786.148354 39.16.231291 39.546.238067
39.556.238137 45.296.413932 50.936.253401 51.056.252393 56.636.224466
56.816.217647 62.33 6.09241 62.576.089359 68.036.057948 68.336.055989
68.646.057269 74.096.125669 74.466.128069 79.856.175917 85.136.131151
85.616.135355 90.836.211596 91.38 6.21467 96.536.307469 97.146.309958
102.236.296508 102.96.293833 107.936.290092 108.656.295126 109.386.297964
114.416.355277 115.26.358286 120.176.378702 125.036.395321 125.936.403618
130.736.415321 131.696.419686 132.676.417501 137.456.440517 142.136.554865
143.216.573679 144.316.583508 148.976.651402 150.136.655237 154.736.696432
159.236.680517 160.496.686668 161.786.686028 166.25 6.65306 167.66.647576
172.016.652355 176.326.635281 177.766.651303 179.236.658226 183.526.693185
185.056.691573 189.286.695109 193.426.697133 195.046.702182 199.126.687279
200.86.677622 202.516.687095 206.56 6.69487 210.526.705235 212.326.729802
214.166.720155 218.086.753465 219.986.766269 223.846.777088 227.636.743019
229.66.745677 231.62 6.73788 235.366.743994 237.446.725008 241.116.724918
244.726.702303 246.876.711846 249.086.713564 252.636.753021 254.9 6.74197
258.396.720082 261.826.711729 264.156.740036 267.526.739932 269.916.738597
273.226.725852 275.686.721985 278.926.727015 281.446.716796 2846.639936
287.26.554258 290.326.399265 292.966.288069 296.026.210798 298.72 6.19395
301.72 6.19185 304.486.216494 307.426.482284 310.236.614634 313.116.700326
315.996.890442 318.926.879824 321.756.909406 324.526.875915 327.516.847575
330.22 6.74907 333.276.659445 335.926.596866 339.036.495471 341.626.611098
344.796.695492 347.32 6.86416 350.557.137008 353.85 6.93895 356.31 6.7909
358.726.778072 362.076.761401 364.426.775408 367.836.761639 370.126.740871
373.586.731915 375.816.735065 379.346.710323 381.51 6.69813 385.16.723934
388.776.705092 390.866.704043 392.91 6.72117 396.62 6.72873 398.616.733131
402.386.744774 404.316.739341 408.146.720503 410.016.700255 413.96.741404
417.876.714475 419.666.730922 423.76.756803 425.426.744149 427.126.774343
431.186.769161 435.346.734297 436.946.725238 438.516.729741 442.696.796102
444.216.881773 448.457.110452 452.796.895158 454.216.828222 455.61 6.64249
460 6 480 -5.18 660 -5.18 680 6 706.39 6.02978
707.636.065577 708.896.024083 713.396.016923 717.795.948747 719.155.916333
720.535.982049 724.91 6.11976 729.196.178744 730.676.229609 734.96.151528
736.436.120185 7386.169028 742.196.213191 746.36.252873 747.956.433785
7526.885107 753.716.872463 755.466.892992 759.477.048115 763.47.080067
765.237.039326 767.17.000651 770.98 6.7321 774.79 6.45656 776.746.313753
780.496.332604 782.56.327547 784.56 6.31667 788.26 6.26781 791.896.201074
794.026.219452 796.26.147838 799.786.134684 802.026.142399 805.546.095258
807.846.126758 811.36.200877 814.696.261695 817.066.276814 820.396.356381
822.836.358634 825.316.382925 828.596.355306 831.136.355063 834.346.385139
836.946.422173 840.16.415528 843.196.436909 845.86 6.44415 848.896.483392
851.626.415771 854.41 6.39416 857.38 6.36807 860.236.275272 863.146.164995
866.056.393271 868.96.362206 871.696.354553 874.666.200531 877.396.432463
880.426.667475 883.51 6.94614 886.187.086906 889.336.821873 891.946.806644
895.166.860425 897.76.968534 900.196.767302 903.456.725206 905.886.737371
909.216.794893 912.616.792857 914.976.828354 918.436.838322 920.736.810176
924.256.849614 926.496.882003 928.687.078928 932.257.127086 934.387.091448
938.017.293641 941.727.285337 943.777.274018 945.797.189181 949.537.085202
951.497.023186 955.296.772801 959.186.796497 961.056.725225 962.886.726119
966.8 6.5834 968.58 6.54046 972.566.567066 976.636.556079 978.326.577935
982.466.662205 984.086.709423 988.286.825852 989.846.856197 991.386.798488
995.66.710093 997.086.701507 1001.366.540529 1005.746.491599 1007.126.503945
1008.48 6.49885 1012.896.509344 1014.186.521883 1018.656.540792 1023.216.491251
1024.416.477779 1025.586.461524 1030.16 6.46092 1031.276.454761 1035.926.561113
1040.666.638438 1041.686.657149 1042.686.669239 1047.446.603306 1048.386.614744
1053.26.518749 1058.126.550673 1058.966.522362 1059.786.520061 1064.726.405599
1065.486.381188 1070.486.365843 1075.596.291648 1076.246.294163 1081.416.314988
10826.301828 1087.236.205415 1087.76 6.21231 1088.286.211489 1093.526.199525
1093.986.197679 1099.276.258206 1104.686.283366 1105.036.290051 1105.376.286088
1110.79 6.23149 1111.076.226769 1116.556.235404 1122.156.186904 1122.316.183959

1122.476.186684 1128.076.174533 1128.176.171877 1133.836.164007 1137.86.121954
1139.596.103349 1139.616.103128 1145.356.065072 1150.976.167377 1151.116.166425
1151.256.167364 1156.876.233702 1157.076.234755 1162.626.249385 1168.076.212687
1168.38 6.21166 1168.716.211231 1174.156.163875 1179.476.140606 1179.916.138773
1185.176.109379 1185.676.103643 1190.876.102267 1191.436.101143 1191.996.106309
1192.176.108284

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 460 .03 680 .2

Bank Sta: Left Right Coeff Contr. Expan.
460 680 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 403.4 15.2 F
736.85 1192.17 15.2 F

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 2

Pier Data
Pier Station Upstream= 532 Downstream= 532
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Pier Data
Pier Station Upstream= 608.1 Downstream= 608.1
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Highest Energy Answer

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4

INPUT
Description:
Station Elevation Data num= 336
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.013536 4.627.117898 4.987.129236 5.337.123742 10.74 7.06831
11.037.045314 16.56.672902 22.086.480585 22.266.469163 22.446.466109
28.026.283257 28.146.279891 33.786.148354 39.16.231291 39.546.238067
39.556.238137 45.296.413932 50.936.253401 51.056.252393 56.636.224466
56.816.217647 62.33 6.09241 62.576.089359 68.036.057948 68.336.055989
68.646.057269 74.096.125669 74.466.128069 79.856.175917 85.136.131151
85.616.135355 90.836.211596 91.38 6.21467 96.536.307469 97.146.309958
102.236.296508 102.96.293833 107.936.290092 108.656.295126 109.386.297964
114.416.355277 115.26.358286 120.176.378702 125.036.395321 125.936.403618
130.736.415321 131.696.419686 132.676.417501 137.456.440517 142.136.554865
143.216.573679 144.316.583508 148.976.651402 150.136.655237 154.736.696432
159.236.680517 160.496.686668 161.786.686028 166.25 6.65306 167.66.647576
172.016.652355 176.326.635281 177.766.651303 179.236.658226 183.526.693185
185.056.691573 189.286.695109 193.426.697133 195.046.702182 199.126.687279
200.86.677622 202.516.687095 206.56 6.69487 210.526.705235 212.326.729802
214.166.720155 218.086.753465 219.986.766269 223.846.777088 227.636.743019

229.66.745677 231.62 6.73788 235.366.743994 237.446.725008 241.116.724918
244.726.702303 246.876.711846 249.086.713564 252.636.753021 254.9 6.74197
258.396.720082 261.826.711729 264.156.740036 267.526.739932 269.916.738597
273.226.725852 275.686.721985 278.926.727015 281.446.716796 2846.639936
287.26.554258 290.326.399265 292.966.288069 296.026.210798 298.72 6.19395
301.72 6.19185 304.486.216494 307.426.482284 310.236.614634 313.116.700326
315.996.890442 318.926.879824 321.756.909406 324.526.875915 327.516.847575
330.22 6.74907 333.276.659445 335.926.596866 339.036.495471 341.626.611098
344.796.695492 347.32 6.86416 350.557.137008 353.85 6.93895 356.31 6.7909
358.726.778072 362.076.761401 364.426.775408 367.836.761639 370.126.740871
373.586.731915 375.816.735065 379.346.710323 381.51 6.69813 385.16.723934
388.776.705092 390.866.704043 392.91 6.72117 396.62 6.72873 398.616.733131
402.386.744774 404.316.739341 408.146.720503 410.016.700255 413.96.741404
417.876.714475 419.666.730922 423.76.756803 425.426.744149 427.126.774343
431.186.769161 435.346.734297 436.946.725238 438.516.729741 442.696.796102
444.216.881773 448.457.110452 452.796.895158 454.216.828222 455.61 6.64249
460 6 480 -5.18 660 -5.18 680 6 706.39 6.02978
707.636.065577 708.896.024083 713.396.016923 717.795.948747 719.155.916333
720.535.982049 724.91 6.11976 729.196.178744 730.676.229609 734.96.151528
736.436.120185 7386.169028 742.196.213191 746.36.252873 747.956.433785
7526.885107 753.716.872463 755.466.892992 759.477.048115 763.47.080067
765.237.039326 767.17.000651 770.98 6.7321 774.79 6.45656 776.746.313753
780.496.332604 782.56.327547 784.56 6.31667 788.26 6.26781 791.896.201074
794.026.219452 796.26.147838 799.786.134684 802.026.142399 805.546.095258
807.846.126758 811.36.200877 814.696.261695 817.066.276814 820.396.356381
822.836.358634 825.316.382925 828.596.355306 831.136.355063 834.346.385139
836.946.422173 840.16.415528 843.196.436909 845.86 6.44415 848.896.483392
851.626.415771 854.41 6.39416 857.38 6.36807 860.236.275272 863.146.164995
866.056.393271 868.96.362206 871.696.354553 874.666.200531 877.396.432463
880.426.667475 883.51 6.94614 886.187.086906 889.336.821873 891.946.806644
895.166.860425 897.76.968534 900.196.767302 903.456.725206 905.886.737371
909.216.794893 912.616.792857 914.976.828354 918.436.838322 920.736.810176
924.256.849614 926.496.882003 928.687.078928 932.257.127086 934.387.091448
938.017.293641 941.727.285337 943.777.274018 945.797.189181 949.537.085202
951.497.023186 955.296.772801 959.186.796497 961.056.725225 962.886.726119
966.8 6.5834 968.58 6.54046 972.566.567066 976.636.556079 978.326.577935
982.466.662205 984.086.709423 988.286.825852 989.846.856197 991.386.798488
995.66.710093 997.086.701507 1001.366.540529 1005.746.491599 1007.126.503945
1008.48 6.49885 1012.896.509344 1014.186.521883 1018.656.540792 1023.216.491251
1024.416.477779 1025.586.461524 1030.16 6.46092 1031.276.454761 1035.926.561113
1040.666.638438 1041.686.657149 1042.686.669239 1047.446.603306 1048.386.614744
1053.26.518749 1058.126.550673 1058.966.522362 1059.786.520061 1064.726.405599
1065.486.381188 1070.486.365843 1075.596.291648 1076.246.294163 1081.416.314988
10826.301828 1087.236.205415 1087.76 6.21231 1088.286.211489 1093.526.199525
1093.986.197679 1099.276.258206 1104.686.283366 1105.036.290051 1105.376.286088
1110.79 6.23149 1111.076.226769 1116.556.235404 1122.156.186904 1122.316.183959
1122.476.186684 1128.076.174533 1128.176.171877 1133.836.164007 1137.86.121954
1139.596.103349 1139.616.103128 1145.356.065072 1150.976.167377 1151.116.166425
1151.256.167364 1156.876.233702 1157.076.234755 1162.626.249385 1168.076.212687
1168.38 6.21166 1168.716.211231 1174.156.163875 1179.476.140606 1179.916.138773
1185.176.109379 1185.676.103643 1190.876.102267 1191.436.101143 1191.996.106309
1192.176.108284

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 114 114 114 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 403.4 15.2 F
736.85 1192.17 15.2 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 3

INPUT
Description:
Station Elevation Data num= 335
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
05.634134.60008245.6942093.6696945.8725616.3608736.0559969.336566 6.15758
12.121666.25118415.000636.30046717.882466.34340220.670316.32686523.64325 6.27618
26.337186.29805829.40404 6.339232.004066.33165535.164836.38829837.670936.457571
40.925626.53662344.290016.62476446.686416.68795450.147886.743779 52.44726.724338
54.667756.80128858.197996.81504261.853467.01708763.958787.12554467.711337.177508
69.719577.26428471.662337.21704475.480367.281189 77.32927.34113581.24116 7.32991
85.284977.29584487.001957.30658688.662957.28872392.762737.30974394.329827.315601
98.523537.306118102.85867.368556104.28437.365725105.66367.355804110.04517.239238
114.57437.286993115.80597.299978 120.4247.223483121.55677.210919122.65437.202195
127.31757.156901128.32127.129031133.07837.023808133.98816.894236138.83916.245327
139.6556.228245144.59996.121224145.32186.121514150.36066.109317150.98876.104417
156.12146.121435156.65566.169751161.88226.565981162.32246.576659 167.6436.791144
167.98936.790377173.40386.825194179.00086.604692179.1646 6.59849179.32316.608528
184.92546.892205188.88487.114388 190.6477.213563190.67627.214396196.31367.215431

196.4377.216999201.9803 7.05268202.19787.051146202.42257.044293207.95867.033328
213.31386.939056213.7193 6.94072214.13866.929412219.48016.870151219.99676.861282
225.2409 6.68082230.31396.768672231.0017 6.76614231.71286.772161236.76256.698555
237.57086.699401242.52336.685985 247.3146.792759248.28416.799658249.28516.805222
254.03496.752025255.13486.729418259.79576.699656264.30446.625474265.5565 6.61813
266.8509 6.62402271.31736.753371272.70896.787635 277.0786.846729281.30456.674993
282.83886.612917286.97126.376869288.59966.284712292.63795.895649294.36045.753406
298.30465.466722300.12125.353919303.97135.122859 305.8825.022691 309.6385.036376
311.64285.066675315.30475.223729317.4036 5.27189320.96545.685117323.15445.952621
325.4211 6.03595328.91526.230599 332.2956.226451 334.6766.229411337.96186.238059
340.43676.237585343.62856.128935346.19756.022894349.29525.785341351.95835.640795
354.96195.825533357.71916.047181360.62866.900263363.47997.694016366.2953 8.11466
369.24078.405549 371.9628.441422375.00158.550682377.62888.829827380.76238.913927
383.29119.095375386.51319.372685388.9523 9.24564392.27399.160564 394.6199.072814
398.03479.002273401.56568.952641403.79548.801012405.95258.752063409.55628.778395
411.61928.669924 415.3178.397182417.28598.321684421.07788.130779422.95268.107663
426.83868.094725428.6193 8.13578432.59948.141855 434.2868.215867438.36028.481643
439.95278.516696 444.121 8.62904445.61948.734197449.88188.722662451.28388.778104
455.63268.891652456.94318.852104461.39338.785339462.6097 8.60556467.15418.252288
468.27657.911385472.91496.543383 480 6 500 -5.2 680 -5.2
700 6749.39296.488153751.57896.364151755.15376.385935758.84916.352646
760.91456.371062764.70696.423309766.67536.455131768.57956.373201 772.4366.373319
776.42276.501466778.19686.604229779.91036.687259783.94766.785133785.57036.879885
789.70846.907575793.98616.880507795.46926.866059 796.9046.910859 801.237.005478
802.57097.042951806.99087.049484811.55987.026892812.75166.987225813.90466.946448
818.51247.137194819.57157.160261824.27327.132409825.23837.112283 830.0347.159531
830.90527.159342835.79477.109969840.8491 7.20282841.55557.205065842.23787.188137
847.30637.285461 847.8967.293694853.06717.231751858.41267.253088858.82797.249286
864.27047.097436864.58877.101814870.12837.062606870.34957.059001870.56357.055254
876.1103 7.01876.23037.010146881.87117.189202881.89727.190771883.47417.184991
887.56417.170329887.63197.170899 893.2317.167474893.39267.166747893.55987.163617
899.15347.066497904.56476.948121904.9142 6.93992910.23166.958222 910.6756.959044
911.1326 6.95154916.42586.948007921.55556.935678922.18666.940176922.83916.950261
927.94746.970798932.88927.063582933.70827.069709938.55617.086624 939.4697.096575
940.41277.101128945.22987.091477949.88987.099937950.99067.120971952.12847.119407
956.75137.115421957.98637.098494962.51217.041863963.84427.074677968.27297.059033
972.55747.146533974.03387.133176975.55727.101886979.78457.015061981.40767.071377
985.54537.044007989.54827.002939991.30616.906726993.12346.867206997.06696.826549
1000.8826.8190051002.828 6.812411006.5496.7791291008.5896.7799631010.6976.732145
1014.3496.6761261016.5556.674457 1020.116.6669121022.4136.6848081025.871 6.73766
1029.2166.7620761031.6326.8010161034.8836.7873991037.3926.7782181039.9826.782686
1043.1436.8038211046.2076.8471351048.9046.8919261051.8746.9056771054.6656.957508
1057.556.9489861060.426 6.961111063.208 6.941066.1866.8795511068.8756.868396
1071.9476.8957691075.123 6.824271077.7086.7753551080.9816.8247731083.4696.822412
1086.839 6.80634 1089.236.8031031091.542 6.79074 1094.996.7802131097.2096.795392
1100.751 6.8091104.4136.8205261106.5126.8432591108.5396.8419851112.2636.853469
1114.26.8705271118.0246.8549451121.9766.8086481123.7846.7862351125.5336.781861
1129.5456.696079 1131.26.6405741135.3066.627511 1139.556.5698031141.0676.548143
1145.4086.5012231146.8286.5190811151.2666.5094231152.5886.5185121153.8686.501984
1158.349 6.546111159.5356.549551 1164.116.5483011168.8396.5880571169.8716.599367
1170.8676.5898721175.621 6.6371176.5256.6503381181.3826.5934421186.4036.528528
1187.1436.5219891187.8596.5304571192.9046.5981171193.5266.5953371198.6656.549714
1203.9766.5283691204.4256.525875 1204.866.5240651210.186 6.674821212.9676.629958

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 480 .03 700 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
480 700 2992 2992 2992 .1 .3
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 313.4 15.2 F
866.61212.967 15.2 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 2

INPUT
Description:
Station Elevation Data num= 450
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
05.7169533.0405025.7272848.9270045.63529113.00954 5.5133518.665555.150424
19.52365.092546 20.1535.04306723.644384.86976327.296464.846236 28.40414.896162
34.439935.32750438.142655.49674141.583395.64870344.24558 5.7458848.714455.888123
52.482655.93789755.857925.96691857.619755.97146263.001385.99197164.844976.031773
68.965746.06541870.144846.07903277.096866.13594784.431776.15210285.448846.159145
89.569626.22756291.575236.249389 93.6904 6.28662 98.71876.355708104.62256.417423
105.86226.431399110.1707 6.43035113.00566.423311114.28846.400194116.03416.394171
120.14916.349084125.77276.339423126.64296.341413127.28026.353551130.76316.438363
134.42366.469761141.56716.553411143.12546.566182145.24986.591323148.71056.661066
151.36696.698236154.98836.709363 155.8546.702422158.2369 6.65463162.99756.557197
164.72696.549158 167.856.556769170.14096.560685174.46556.523278177.28446.475737
184.4279 6.41677188.45396.408127191.57136.447582193.94266.490539198.71486.561311
200.81416.565407203.68116.669197205.84596.738008212.98936.871006213.41966.873711

217.28936.873028220.13286.846286223.14136.797777225.52666.753677227.27626.765063
232.87986.851731234.41976.879658237.88896.948404241.56327.023889242.61847.034341
246.1304 7.04172248.70667.032128252.35697.044088255.85017.059837258.49287.061393
262.61367.032873265.46576.946252 270.1376.798804 271.834 6.72077274.97596.544682
277.28056.412162279.09666.316373281.57266.132911283.21746.018126 284.4245.928951
291.31115.482089 291.555 5.47225292.22635.489761298.69855.613196299.69345.654872
301.04975.728145303.81415.866703305.84195.973752307.93496.070765310.78826.167706
312.98546.238068319.03356.265806320.12896.275651320.52686.273324327.27236.187408
330.2484 6.0341332.65245.890036334.41585.797626336.77325.687289 339.987 5.51269
341.55935.434537345.88725.411466348.70275.373351349.13555.390818349.72555.438254
353.25635.741339355.84625.992569359.46416.252863362.98976.468141 365.6166.657739
369.20266.925377370.12076.997655 373.8537.279725377.26427.466333378.94127.531781
384.40767.633415388.6797 7.61297390.33617.593648391.55117.603062394.45697.604018
398.41837.567829399.45517.564639 405.8387.554999408.15687.542733412.98157.530588
415.06087.547766417.8954 7.5306419.18157.530075420.12497.539076426.2623 7.571
427.63397.579004431.54397.583354434.41197.578191435.66467.562784437.3725 7.5567
439.78367.533267441.55547.496255447.09417.324724448.69887.257403453.08747.184457
455.82997.117865456.83277.149724 460.3757.304821462.97337.358055464.49587.366015
466.57127.355714468.61657.354174470.11687.355956476.30987.293091477.26037.273585
479.87667.214764484.40377.097619486.04837.079006491.5472 6.98515493.34126.952773
495.78696.883705497.46196.818856498.69066.817505505.52546.686562505.83416.678715
509.82436.629783512.97766.643913513.94516.645947 515.2646.593026518.06586.499019
520.121 6.42308525.0025 6.39305526.30746.397216527.26456.382154533.45076.244791
534.39566.222284534.74116.225821538.66256.305429 541.5396.310773542.7833 6.32458
544.47966.330231546.90236.342032548.6825 6.4376551.02016.560472555.13856.615958
555.8266.607821560.29826.541742562.96946.505861563.93986.467423570.11296.308481
573.67836.291546577.2563 6.265579.86326.274123583.41696.291735584.3998 6.26986
587.10546.168361591.54335.977541592.22555.957663593.15555.898741596.34635.728696
598.68685.496616 602.894 4.98284605.83024.621269612.63264.541596612.97374.558617
616.94614.807698621.06375.153357622.37115.195052625.18455.288533627.24825.328558
629.3053 5.3578632.10975.353431 633.4265.347189634.39175.310977640.6733 5.15894
641.53515.136118641.84825.106658648.6786 4.40435651.58684.266542654.02994.148011
655.8224.308957658.15074.506679661.32534.807045662.96554.922031667.51014.954346
670.10894.998877671.04695.021776674.62665.163263677.25245.160633680.78555.321792
684.39595.542088 690.5245.875691691.53945.916679695.22685.916941699.34416.019505
700.26266.018379 740 6 760 -6.5 1040 -6.5 1060 6
1061.9227.3010241062.9387.3273341066.0437.2786981070.2777.3153291077.2247.341982
1078.4057.3453551080.0157.3358881082.5267.3358211084.3687.3053791089.7547.251793
1091.5117.2332251096.3497.1882091098.6557.1686451099.4927.1645871105.7867.121743
1109.2147.1593481112.9297.2085441115.4787.2408651118.9537.3119111120.0737.346432
1123.1567.3249141127.2167.313392 1127.847.3095241128.6917.315401 1134.367.271316
1138.437.1439431141.503 7.013361148.1686.7124461152.5656.550675 1155.796.395863
1157.9076.3194421162.9346.0687941167.6455.7560151170.0775.6445381176.7715.325494
1177.3845.298591 1181.415.1674711184.3645.2483261187.1225.3080491191.4955.311121
1193.7665.2824891196.8615.2727511198.6385.2459871203.5314.9462911205.7824.820852
1206.6 4.747241212.9254.3310261216.3384.4724331220.0694.7985131222.6065.093126
1226.065.3011771226.7255.3452421227.2125.3631251230.3855.4603671234.3565.590668
1235.7985.6311371241.499 5.733121245.5375.7386521248.6435.7789461251.4495.801606
1255.275 5.787931257.1925.778521 1262.935.7552771265.0145.7491691270.061 5.70536
1272.0465.6828441274.7535.6915561276.1675.7013361277.2045.6876151284.4915.577036
1288.5295.5577811291.4915.594691 1292.655.618702 1294.235.6207671296.771 5.62774
1298.6355.6563761303.9685.6882931305.7785.696522 1310.765.7979811312.9225.830954
1313.2545.8389531317.3755.8209231320.0655.8420991323.4455.8814821325.6155.874678
1327.2085.8762581334.3525.7656081337.9715.7583471341.4955.7752221342.9065.776441
1348.6265.7755111350.3265.7735771352.6445.7596911362.9135.689728 1366.815.728633
1370.0575.787065 1370.93 5.805841372.1215.814385 1377.25.861263 1381.865.816864
1384.3445.7710031391.1825.7471821395.6555.7242571398.6315.7147271401.3375.683331
1405.7745.7056661408.0175.7125591411.0755.7479311412.1385.7448371412.9185.749188
1417.9895.7597481420.0615.7587291420.8145.7713211427.2045.840155 1428.625.848466
1432.7365.8842131440.2915.9456721441.4795.9462891444.7715.9710411448.6225.993711
1455.7666.0147231459.7516.0733041461.5736.1096261462.9096.1132431465.6946.107527
1469.496.1365811470.053 6.136671479.228 6.094881482.1776.053236 1484.346.065204
1488.9676.0512961491.4836.0145321498.7055.9401761502.7815.858075 1506.95.738136
1508.4445.7574911512.9015.7071971518.1825.5690511520.0455.4423171525.1714.977206
1527.1884.8039621527.9214.7570291534.332 4.88691 1535.744.897698 1537.664.923121
1539.8615.0198461541.4755.0684641547.3985.2891111548.6195.336511 15525.463583
1555.7625.583578 1557.125.6380991562.9065.6822811564.5785.7114441566.8585.744007
1568.6995.7644331570.0495.7371511576.5975.7899951577.1925.7875241578.8325.769706
1584.3365.6889431585.1825.6895561586.3355.6707991589.3035.5616041591.4795.465133
1593.4225.3635171596.0745.278222 1598.615.1872781605.813 4.853131609.8994.775279
1612.8974.7727351615.5514.757854 1625.295.0735051627.1845.1095021630.5035.189753
1634.3285.2645881635.0285.2866281641.4715.4470281642.8665.4725681644.7675.489395
1648.6155.4926341655.7585.5342921659.2075.5346211664.2445.5505091667.5885.549706
1670.045 5.540761673.9655.4698721677.1765.4415171679.9385.4365191683.7045.520175
1686.0145.5551261691.4635.6103311693.4435.6389761698.607 5.625681700.5425.614193
1703.1815.6805021704.6635.695674 1705.755.672248 1712.925.5379561720.0375.504075
1721.1465.5012791722.6585.4479291725.2675.378125 1727.185.3742871731.2985.373521

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 740 .03 1060 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
740 1060 2485 2485 2485 .1 .3

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 1

INPUT
Description:
Station Elevation Data num= 166
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.139362.32024347.1399171.3857517.1293082.0531747.1050955.5647687.006631
8.849891 6.91609 9.742836.92267411.170846.95509615.634817.14119622.021447.448279
22.431527.45752823.119067.45179129.228247.40921432.872047.29375334.810637.213207
36.024957.12556141.311116.91823542.821676.84470843.168676.82031343.722646.747432
47.347696.28521449.618395.75497854.573244.842176 56.41514.59197859.884744.154867
63.211814.14333964.063764.12835465.423844.17830968.242774.28990170.008534.328534
76.274444.44257976.600814.44827976.805254.45258377.695214.46752283.601974.618624
84.958854.60362487.125034.62736789.137864.64219490.398684.62734695.861824.649078
97.183594.64630797.975634.647339103.9803 4.61532108.82624.600175110.02574.593111
110.7774.579875114.20474.583544117.57374.556514119.67684.541188124.37054.603098
126.737 4.65068130.50864.606395130.91354.599888131.16724.604856135.09254.629754
137.96394.547652139.27164.490444141.35924.465056143.45064.430177144.7606 4.39579
147.62964.233104151.5573 3.95681151.80863.963387152.20983.953728155.9876 3.87495
158.3544.043613160.1667 4.25548163.06044.634567164.34574.844993165.15084.897623
168.63925.119306171.93575.336616172.69645.360276 173.9115.394269176.87555.474509
178.73245.519883181.05455.568424184.76165.483582185.52915.491622189.41255.704286
192.3258 5.72928195.61225.760374199.1225 5.82594201.94965.826334205.9193 5.79649
206.12865.798643206.46285.788485 212.7165.587472217.31345.578351218.66565.606949
219.51275.600134222.8447 5.57725226.30945.618122 228.1645.658282233.10615.735694
239.01465.854323239.56045.863221239.90285.875692243.73666.031662246.69956.155753
247.91156.190144249.84636.182899252.08486.183189253.48456.150177 260 6
280 -7.7 560 -7.7 580 6586.4763 6.08955586.9778 6.14979
593.27317.028161597.02787.379149600.06987.658457603.0772 7.91203606.86658.269607
607.87848.342468613.66328.737169618.71029.083757620.45999.204063623.39359.193842
627.25679.193973 628.144 9.17494629.56089.147607632.32319.097367634.0533 9.07832
640.41148.930387640.8383 8.91778 641.5548.904679647.63498.768626 651.2628.729102
654.43178.669438657.3899 8.62072661.22848.589652662.11268.583015668.02518.554443
669.9278.539376672.96328.500792674.82188.496014 677.9388.522849681.61858.561017
683.81388.545994688.41538.499235694.66448.387005 695.2128.390443696.13018.377296
702.00878.288918703.35918.287889 705.5158.268189707.53818.278418708.80548.274513
714.29668.042742715.59037.989136715.88897.987435716.36567.973315720.06797.906287
722.387 7.77662727.2162 7.77945729.18387.753947 732.6057.924538735.98058.050848
738.06688.134135742.77728.341791748.89868.522486749.57398.538365750.70628.526504
752.94878.498083

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 260 .03 580 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
260 580 0 0 0 .1 .3

SUMMARY OF MANNING'S N VALUES

River:GatorSlough

Reach	River Sta.	n1	n2	n3
GatorSlough	6	.2	.03	.2
GatorSlough	5	.2	.03	.2
GatorSlough	4.95	Inl Struct		
GatorSlough	4.9	.2	.03	.2
GatorSlough	4.89	.2	.03	.2
GatorSlough	4.75	Bridge		
GatorSlough	4.6	.2	.03	.2
GatorSlough	4.59	.2	.03	.2
GatorSlough	4.35	Bridge		
GatorSlough	4	.2	.03	.2
GatorSlough	3	.1	.03	.1
GatorSlough	2	.1	.03	.1
GatorSlough	1	.1	.03	.1

SUMMARY OF REACH LENGTHS

River: GatorSlough

Reach	River Sta.	Left	Channel	Right
GatorSlough	6	325	325	325
GatorSlough	5	32	32	32
GatorSlough	4.95	Inl Struct		
GatorSlough	4.9	1	1	1
GatorSlough	4.89	94	94	94
GatorSlough	4.75	Bridge		
GatorSlough	4.6	1	1	1
GatorSlough	4.59	124	124	124

GatorSlough	4.35	Bridge			
GatorSlough	4	114	114	114	
GatorSlough	3	2992	2992	2992	
GatorSlough	2	2485	2485	2485	
GatorSlough	1	0	0	0	

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: GatorSlough

Reach	River Sta.	Contr.	Expan.
GatorSlough	6	.1	.3
GatorSlough	5	.3	.5
GatorSlough	4.95	Inl Struct	
GatorSlough	4.9	.3	.5
GatorSlough	4.89	.3	.5
GatorSlough	4.75	Bridge	
GatorSlough	4.6	.3	.5
GatorSlough	4.59	.3	.5
GatorSlough	4.35	Bridge	
GatorSlough	4	.3	.5
GatorSlough	3	.1	.3
GatorSlough	2	.1	.3
GatorSlough	1	.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/ft)	E.G. Slope (ft/s)	Vel Chnl (sq ft)	Flow Area (ft)	Top Width	Froude # Chl
GatorSlough	6	50yr	1469.00	-5.18	3.16	-4.00	3.17	0.000018	0.82	1793.05	229.85	0.05
GatorSlough	6	100yr	1656.00	-5.18	3.32	-3.90	3.33	0.000022	0.91	1828.85	230.41	0.06
GatorSlough	6	500yr	2137.00	-5.18	3.71	-3.66	3.73	0.000031	1.11	1918.50	231.79	0.07
GatorSlough	5	50yr	1469.00	-5.18	3.15	-3.91	3.17	0.000022	0.90	1636.55	212.75	0.06
GatorSlough	5	100yr	1656.00	-5.18	3.31	-3.81	3.32	0.000026	0.99	1669.32	213.35	0.06
GatorSlough	5	500yr	2137.00	-5.18	3.69	-3.55	3.71	0.000038	1.22	1751.35	214.86	0.08
GatorSlough	4.95		Inl Struct									
GatorSlough	4.9	50yr	1469.00	-5.18	-0.81	-3.91	-0.76	0.000195	1.78	824.31	197.17	0.15
GatorSlough	4.9	100yr	1656.00	-5.18	-0.71	-3.81	-0.65	0.000230	1.96	843.08	197.55	0.17
GatorSlough	4.9	500yr	2137.00	-5.18	-0.44	-3.55	-0.35	0.000315	2.38	896.77	198.61	0.20
GatorSlough	4.89	50yr	1469.00	-5.18	-0.80	-4.07	-0.77	0.000140	1.53	962.32	219.89	0.13
GatorSlough	4.89	100yr	1656.00	-5.18	-0.71	-3.98	-0.66	0.000165	1.68	983.52	219.89	0.14
GatorSlough	4.89	500yr	2137.00	-5.18	-0.43	-3.75	-0.37	0.000226	2.05	1043.91	219.89	0.17
GatorSlough	4.75		Bridge									
GatorSlough	4.6	50yr	1469.00	-5.18	-0.88	-3.78	-0.80	0.000301	2.19	670.30	155.88	0.19
GatorSlough	4.6	100yr	1656.00	-5.18	-0.80	-3.66	-0.71	0.000360	2.43	682.73	155.88	0.20
GatorSlough	4.6	500yr	2137.00	-5.18	-0.57	-3.38	-0.43	0.000507	2.97	718.49	155.88	0.24
GatorSlough	4.59	50yr	1469.00	-5.18	-0.88	-3.78	-0.80	0.000301	2.19	670.25	155.88	0.19
GatorSlough	4.59	100yr	1656.00	-5.18	-0.80	-3.66	-0.71	0.000360	2.43	682.67	155.88	0.20
GatorSlough	4.59	500yr	2137.00	-5.18	-0.57	-3.38	-0.43	0.000507	2.97	718.41	155.88	0.24
GatorSlough	4.35		Bridge									
GatorSlough	4	50yr	1469.00	-5.18	-0.90	-3.91	-0.85	0.000211	1.83	802.20	195.30	0.16
GatorSlough	4	100yr	1656.00	-5.18	-0.83	-3.81	-0.77	0.000253	2.03	816.79	195.56	0.17
GatorSlough	4	500yr	2137.00	-5.18	-0.61	-3.55	-0.52	0.000358	2.49	859.21	196.34	0.21
GatorSlough	3	50yr	1469.00	-5.20	-0.93	-3.93	-0.88	0.000212	1.83	801.33	195.25	0.16
GatorSlough	3	100yr	1656.00	-5.20	-0.86	-3.83	-0.80	0.000255	2.03	814.96	195.50	0.18
GatorSlough	3	500yr	2137.00	-5.20	-0.66	-3.57	-0.56	0.000364	2.50	854.80	196.23	0.21
GatorSlough	2	50yr	1469.00	-6.50	-1.14		-1.13	0.000041	0.95	1546.68	297.15	0.07
GatorSlough	2	100yr	1656.00	-6.50	-1.12		-1.10	0.000052	1.07	1552.18	297.21	0.08
GatorSlough	2	500yr	2137.00	-6.50	-1.06		-1.04	0.000083	1.36	1569.09	297.39	0.10
GatorSlough	1	50yr	1469.00	-7.70	-1.21	-6.75	-1.20	0.000022	0.78	1878.69	298.95	0.05
GatorSlough	1	100yr	1656.00	-7.70	-1.21	-6.68	-1.20	0.000028	0.88	1878.69	298.95	0.06
GatorSlough	1	500yr	2137.00	-7.70	-1.21	-6.49	-1.19	0.000046	1.14	1878.69	298.95	0.08

HEC-RAS HEC-RAS 6.3.1 September 2022
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

Option 2: MHW+SLR

```
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: BurntStoreRd
Project File : BurntStoreRd.prj
Run Date and Time: 2/27/2023 2:14:30 PM

Project in English units

PLAN DATA

Plan Title: alt1-MHW
Plan File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.p10

Geometry Title: alt1
Geometry File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.g02

Flow Title : MHW-SLR
Flow File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.f02

Plan Summary Information:
Number of: Cross Sections = 10 Multiple Openings = 0
Culverts = 0 Inline Structures = 1
Bridges = 2 Lateral Structures = 0

Computational Information
Water surface calculation tolerance = 0.01
Critical depth calculation tolerance = 0.01
Maximum number of iterations = 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: Subcritical Flow

FLOW DATA

Flow Title: MHW-SLR
Flow File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.f02

Flow Data (cfs)

River	Reach	RS	2yr	10yr	50yr	100yr	500yr
GatorSlough	GatorSlough	6	523	1027	1469	1656	2137

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
GatorSlough	GatorSlough	2yr		Known WS = 1.14
GatorSlough	GatorSlough	10yr		Known WS = 1.14
GatorSlough	GatorSlough	50yr		Known WS = 1.14
GatorSlough	GatorSlough	100yr		Known WS = 1.14
GatorSlough	GatorSlough	500yr		Known WS = 1.14

GEOMETRY DATA

Geometry Title: alt1
Geometry File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.g02

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 6

INPUT
Description:
Station Elevation Data num= 209
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
015.810931.51197215.095671.92719414.987436.63488811.569927.73904611.15956
10 11.0021 20 6 40 -5.18 240 -5.18 260 6
275.03386.596048278.10496.911404280.84567.456571 284.4386.734048286.6575 6.5253
288.35086.438589292.46936.274312297.86776.115646298.28126.105773298.5966 6.09227
300.94216.032612 304.093 5.95349308.84255.842399309.9049 5.819311.29755.814687
315.71685.739794319.08835.789398321.52865.818156324.21125.834075327.34055.825157
329.33415.874362333.15235.917914 338.1575.888027338.9642 5.88453 344.1596.053599
344.6946.071371344.76596.073395349.81576.008409350.57786.005298351.5771 6.01119
356.38966.023088360.05946.059943362.20156.055526365.18136.049381368.01336.058471
371.72726.010323373.82526.015296 375.4255.996241 379.6376.037355380.5469 6.05109
385.4489 6.08776387.30086.088549391.26076.094091395.91426.172667397.07266.182955
401.03716.267283402.88446.274123405.30096.325582408.68626.254711411.27416.201979
414.4986.053845418.72396.043635420.30996.038623421.51996.044792426.12186.094304
430.51766.101513431.93366.098101436.88875.982147437.74555.952732442.01165.853244
443.55735.746291447.1345 5.70066449.3692 5.74631452.25745.669144 455.1815.859259
457.38035.908049460.99295.938123462.50325.892483466.80475.785176472.44295.688177
472.61665.684698472.74895.682794473.73445.681715 477.864 5.64786478.41835.653611
479.14615.628216484.23025.317559488.10895.392888490.04215.438355492.57595.466997
495.85395.566537498.35485.440666501.66575.283715503.4777 5.24147507.47765.068574
512.72055.411178513.28945.513938513.72355.462605516.9512 5.5736518.84645.625485
519.10135.654751523.96945.908846524.91316.093889526.15036.010974 530.7255.962567
532.8651 5.87769536.53695.811903539.33385.797331542.3386 5.59487546.28325.880001
548.1505 6.05307 549.5755.993674553.9623 5.71997554.69795.715087559.7742 5.79931
559.82095.800912 560.168 5.80842564.9438 5.91833 565.5865.946776570.06675.885418
571.39795.894733575.18965.880164577.20975.730837580.31255.681929583.02165.751864
586.57255.878968588.83345.875722590.55835.930823594.64536.129188595.68136.138294
600.45726.376047600.80366.383942603.38486.457893606.25896.480248611.04115.945451
612.07075.888593613.4203 5.85749617.88265.916133 621.2876.031165623.69455.995027
626.85015.936799629.50635.889764631.53286.066576635.31826.450052640.27985.822372
641.135.726723646.60175.965977646.94195.985181652.02456.009749652.75375.991779
653.70966.046184658.56566.082474662.27036.140758664.37746.047635667.1393 6.29102
670.18936.738739672.51266.479763 675.9916.378997677.63016.409996681.80296.370804
687.27236.323199687.61476.319861 687.8766.290436689.81856.195624692.99896.054155
693.42666.014174698.12186.156136699.23856.202541703.24486.309748705.05036.285812
708.36766.052905710.86215.843195713.49055.776447 716.6745.804971718.61355.935477
722.48586.050159723.73646.232004728.29776.781312728.8593 6.78227733.03536.834223
734.10966.845201739.09757.196379739.91137.252722744.21927.342844745.72317.263627
747.69467.089917 751.5356.659433754.4094 6.78285757.34696.858228759.58796.877946
763.15887.036226767.83926.835387768.97066.703438774.55416.824662774.78246.822989
774.95676.827647776.25216.837759780.0796 6.80856780.59436.882199781.26896.851957
786.40617.051636790.32546.907259 792.2186.825349795.44836.539918798.02986.531018
801.41366.242802803.84176.264877805.6913 6.32447805.73866.327927

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 20 .03 260 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
20 260 325 325 325 .1 .3
Ineffective Flow num= 1
Sta L Sta R Elev Permanent
613805.7386 15.2 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 5

INPUT
Description:
Station Elevation Data num= 341
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085

158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 480 -5.18 660 -5.18
680 5 682.655.201958 686.27 6.51197 688.416.646765 690.576.395789
694.176.028631 696.356.031603 699.935.760584 703.495.806512 705.695.901203
707.915.912693 711.455.961146 713.695.971509 717.215.990309 720.726.055212
722.976.082868 725.256.130817 728.736.195405 731.026.266038 734.496.309402
737.94 6.29144 740.246.274554 742.576.240178 7466.245327 748.356.266367
751.766.240268 755.16 6.27674 757.526.253942 760.96.210955 763.286.191328
766.646.223729 769.046.303157 771.476.343992 774.8 6.32344 777.256.549578
780.567.120556 783.867.323772 786.327.537362 788.87.439013 792.087.919167
794.588.010237 797.84 7.53986 801.087.808455 803.597.897904 806.138.063661
809.358.175103 811.918.027006 815.117.873364 818.37.742838 820.877.416549
824.046.450529 826.636.309551 829.786.100852 832.395.714542 835.035.925725
838.155.892141 840.85.814042 843.915.882748 847.015.810428 849.675.774001
852.365.911799 855.436.110879 858.496.202652 861.196.296753 863.926.336125
866.956.283342 869.976.206295 872.76.162942 875.47 6.1759 878.466.089849
881.446.124307 884.225.761577 887.18 5.66601 889.985.603367 892.85.576531
895.74 5.67678 898.676.003618 901.516.169354 904.415.969446 907.275.999123
910.146.074927 913.036.166425 915.926.294439 918.796.310585 921.76.385173
924.556.361009 927.486.686382 930.316.855771 933.256.611907 936.066.621873
939.036.396754 941.826.462412 944.596.358266 947.586.322489 950.586.259845
953.346.032999 956.076.246696 959.16.442094 961.816.328462 964.856.318246
967.92 6.24518 970.616.370282 973.296.316515 976.38 6.34482 979.036.274142
982.146.248429 985.266.268067 987.9 6.36914 991.046.492695 993.666.640201
996.816.727577 999.41 6.76576 1001.996.520175 1005.176.559641 1008.366.302435
1010.936.318871 1014.146.419885 1016.696.516535 1019.216.257981 1022.456.131716
1025.76.219831 1028.216.266894 1031.486.463554 1033.97 6.58636 1036.446.704932
1039.736.938327 1043.046.583048 1045.496.363355 1047.926.464112 1051.256.509693
1054.596.492799 1057.016.879647 1059.46.764329 1062.776.699128 1066.15 7.05378
1068.526.615536 1070.886.816121 1074.286.596465 1076.626.654968 1080.046.600485
1083.486.611983 1085.86.703542 1088.16.703364 1091.566.890389 1095.046.365082
1097.326.108542 1099.586.104549 1103.086.125782 1106.596.200291 1108.84 6.16669
1111.066.376547 1114.66.888419 1116.816.823857 1120.366.587055 1123.936.489574
1126.126.720788 1128.286.815931 1131.876.883187 1135.487.156588 1137.637.033715
1139.767.101669 1143.396.811024 1147.046.838494 1149.15 6.68716 1151.246.511702
1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 32 32 32 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 432 15.2 F
708 1153.11 15.2 F

INLINE STRUCTURE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.95

INPUT
Description: US weir
Distance from Upstream XS = 28
Deck/Roadway Width = 2
Weir Coefficient = 2.6
Weir Embankment Coordinates num = 2
Sta Elev Sta Elev
460 1.22 680 1.22

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Weir crest shape = Broad Crested

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4.9

INPUT
Description: dup RS 5
Station Elevation Data num= 341
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085
158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 480 -5.18 660 -5.18
680 5 682.655.201958 686.27 6.51197 688.416.646765 690.576.395789
694.176.028631 696.356.031603 699.935.760584 703.495.806512 705.695.901203
707.915.912693 711.455.961146 713.695.971509 717.215.990309 720.726.055212
722.976.082868 725.256.130817 728.736.195405 731.026.266038 734.496.309402
737.94 6.29144 740.246.274554 742.576.240178 7466.245327 748.356.266367
751.766.240268 755.16 6.27674 757.526.253942 760.96.210955 763.286.191328
766.646.223729 769.046.303157 771.476.343992 774.8 6.32344 777.256.549578
780.567.120556 783.867.323772 786.327.537362 788.87.439013 792.087.919167
794.588.010237 797.84 7.53986 801.087.808455 803.597.897904 806.138.063661
809.358.175103 811.918.027006 815.117.873364 818.37.742838 820.877.416549
824.046.450529 826.636.309551 829.786.100852 832.395.714542 835.035.925725
838.155.892141 840.85.814042 843.915.882748 847.015.810428 849.675.774001
852.365.911799 855.436.110879 858.496.202652 861.196.296753 863.926.336125
866.956.283342 869.976.206295 872.76.162942 875.47 6.1759 878.466.089849
881.446.124307 884.225.761577 887.18 5.66601 889.985.603367 892.85.576531
895.74 5.67678 898.676.003618 901.516.169354 904.415.969446 907.275.999123
910.146.074927 913.036.166425 915.926.294439 918.796.310585 921.76.385173
924.556.361009 927.486.686382 930.316.855771 933.256.611907 936.066.621873
939.036.396754 941.826.462412 944.596.358266 947.586.322489 950.586.259845
953.346.032999 956.076.246696 959.16.442094 961.816.328462 964.856.318246
967.92 6.24518 970.616.370282 973.296.316515 976.38 6.34482 979.036.274142
982.146.248429 985.266.268067 987.9 6.36914 991.046.492695 993.666.640201
996.816.727577 999.41 6.76576 1001.996.520175 1005.176.559641 1008.366.302435
1010.936.318871 1014.146.419885 1016.696.516535 1019.216.257981 1022.456.131716
1025.76.219831 1028.216.266894 1031.486.463554 1033.97 6.58636 1036.446.704932
1039.736.938327 1043.046.583048 1045.496.363355 1047.926.464112 1051.256.509693
1054.596.492799 1057.016.879647 1059.46.764329 1062.776.699128 1066.15 7.05378
1068.526.615536 1070.886.816121 1074.286.596465 1076.626.654968 1080.046.600485
1083.486.611983 1085.86.703542 1088.16.703364 1091.566.890389 1095.046.365082
1097.326.108542 1099.586.104549 1103.086.125782 1106.596.200291 1108.84 6.16669
1111.066.376547 1114.66.888419 1116.816.823857 1120.366.587055 1123.936.489574
1126.126.720788 1128.286.815931 1131.876.883187 1135.487.156588 1137.637.033715
1139.767.101669 1143.396.811024 1147.046.838494 1149.15 6.68716 1151.246.511702
1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 1 1 1 .3 .5
Ineffective Flow num= 2

```
  Sta L   Sta R    Elev  Permanent
    -40    445   15.2      F
 695.25 1153.11   15.2      F

CROSS SECTION


RIVER: GatorSlough
REACH: GatorSlough        RS: 4.89

INPUT
Description: dup RS 5
Station Elevation Data    num=     343
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
     -40 6.40475  -37.24   6.399  -37.026.398235  -31.486.389614   -25.96.267672
  -25.726.265655  -25.546.264254  -19.966.117541   -19.86.120116   -14.26.079359
   -8.57 6.29748   -8.446.299347   -8.316.305284   -2.686.683675   -2.576.686794
   3.087.012018    8.776.919583    8.846.921832    8.916.919635   14.596.536195
  14.646.532438   20.356.542585    26.16.220605   26.116.220217   26.126.220474
  30.366.487984   31.87 6.58304   37.61 6.88196   37.636.881915   37.656.881639
  43.396.760462   43.436.758618   49.156.448464   54.836.260639   54.916.260697
  54.996.259161   60.676.426044   60.776.428965   66.436.325921   72.05 6.76737
  72.196.768289   72.336.769689   77.947.109261    78.17.112264   83.77.031016
  89.27   6.583   89.466.575857   89.656.579198   95.226.181042   95.436.172585
 100.986.575974  106.496.550959  106.74 6.55113  106.996.567522   112.56.664949
 117.976.762691  118.266.780375  118.556.769499  124.02 6.88309  129.466.984616
 129.787.006915  130.117.015774  135.547.173774  135.897.185001   141.37.248809
 146.677.243085  147.057.232946  152.417.197012  152.817.196423  153.217.197085
 158.577.179951  163.897.234093  164.337.236252  169.647.340766  170.097.344185
 170.55 7.34699  175.857.469349  181.127.507696  181.617.506649  186.867.305055
 187.377.303405  187.897.290659  193.137.138133  198.347.011026  198.896.991798
 204.086.865872  204.656.859518  205.226.858679   210.46.825923  215.566.734319
 216.166.715126  216.776.707654  221.926.586567  222.556.581397  227.686.629734
 232.786.537021  233.446.524528  234.116.505478   239.26.504333  239.896.489673
 244.966.417924     2506.498955  250.726.512369  251.446.513701  256.486.468071
 257.226.472039  262.246.717733  267.236.837183     2686.837797  268.786.861415
 273.766.980472  274.566.975163  279.516.735236  284.446.738209  285.276.719759
 286.11 6.71338  291.036.861556  291.896.891734  296.796.889187  301.676.927267
 302.556.950416  303.446.990143  308.31 7.15539  309.227.148989  314.07 7.23408
 318.897.236662  319.837.272815  320.787.271133  325.597.308398  326.567.297071
 331.357.273354  332.347.332561  337.117.555247  341.857.625834  342.867.641699
 347.597.627559  348.62 7.61434  349.67 7.64108  354.387.701519  359.077.595617
 360.147.571332  361.22 7.55008   365.97.442764     3677.365368  371.667.071505
 376.296.962797  377.426.913003  378.567.006341  383.187.296581  384.34 7.31621
 388.94 7.29075  393.527.005053   394.7 6.92965   395.96.867858  400.466.976988
 401.686.998838  406.227.026398  410.736.872643  411.976.853057  413.226.870495
 417.736.918495     4196.953634  423.497.026543  427.957.020765  429.257.024062
 430.566.980596  435.016.766422  436.346.688295  440.776.334496  442.126.276613
 446.535.638418   447.95.484687     460      5   460.1   -5.18     480   -5.18
    660   -5.18   679.9   -5.18     680      5  682.655.201958  686.27 6.51197
 688.416.646765  690.576.395789  694.176.028631  696.356.031603  699.935.760584
 703.495.806512  705.695.901203  707.915.912693  711.455.961146  713.695.971509
 717.215.990309  720.726.055212  722.976.082868  725.256.130817  728.736.195405
 731.026.266038  734.496.309402  737.94 6.29144  740.246.274554  742.576.240178
   7466.245327  748.356.266367  751.766.240268  755.16 6.27674  757.526.253942
  760.96.210955  763.286.191328  766.646.223729  769.046.303157  771.476.343992
  774.8 6.32344  777.256.549578  780.567.120556  783.867.323772  786.327.537362
  788.87.439013  792.087.919167  794.588.010237  797.84 7.53986  801.087.808455
 803.597.897904  806.138.063661  809.358.175103  811.918.027006  815.117.873364
  818.37.742838  820.877.416549  824.046.450529  826.636.309551  829.786.100852
 832.395.714542  835.035.925725  838.155.892141   840.85.814042  843.915.882748
 847.015.810428  849.675.774001  852.365.911799  855.436.110879  858.496.202652
 861.196.296753  863.926.336125  866.956.283342  869.976.206295   872.76.162942
 875.47  6.1759  878.466.089849  881.446.124307  884.225.761577  887.18 5.66601
 889.985.603367   892.85.576531  895.74 5.67678  898.676.003618  901.516.169354
 904.415.969446  907.275.999123  910.146.074927  913.036.166425  915.926.294439
 918.796.310585   921.76.385173  924.556.361009  927.486.686382  930.316.855771
 933.256.611907  936.066.621873  939.036.396754  941.826.462412  944.596.358266
 947.586.322489  950.586.259845  953.346.032999  956.076.246696   959.16.442094
 961.816.328462  964.856.318246  967.92 6.24518  970.616.370282  973.296.316515
 976.38 6.34482  979.036.274142  982.146.248429  985.266.268067   987.9 6.36914
 991.046.492695  993.666.640201  996.816.727577  999.41 6.76576 1001.996.520175
1005.176.559641 1008.366.302435 1010.936.318871 1014.146.419885 1016.696.516535
1019.216.257981 1022.456.131716  1025.76.219831 1028.216.266894 1031.486.463554
1033.97 6.58636 1036.446.704932 1039.736.938327 1043.046.583048 1045.496.363355
1047.926.464112 1051.256.509693 1054.596.492799 1057.016.879647  1059.46.764329
1062.776.699128 1066.15 7.05378 1068.526.615536 1070.886.816121 1074.286.596465
1076.626.654968 1080.046.600485 1083.486.611983  1085.86.703542  1088.16.703364
1091.566.890389 1095.046.365082 1097.326.108542 1099.586.104549 1103.086.125782
1106.596.200291 1108.84 6.16669 1111.066.376547  1114.66.888419 1116.816.823857
1120.366.587055 1123.936.489574 1126.126.720788 1128.286.815931 1131.876.883187
1135.487.156588 1137.637.033715 1139.767.101669 1143.396.811024 1147.046.838494
1149.15 6.68716 1151.246.511702 1153.116.624816

Manning's n Values        num=      3
    Sta   n Val     Sta   n Val     Sta   n Val
    -40     .2     460    .03     680     .2
```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 94 94 94 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 446 15.2 F
694.25 1153.11 15.2 F

BRIDGE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.75

INPUT
Description: NB
Distance from Upstream XS = 10
Deck/Roadway Width = 62.5
Weir Coefficient = 2.6
Upstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-41 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1154 15.2

Upstream Bridge Cross Section Data
Station Elevation Data num= 343
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085
158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 460.1 -5.18 480 -5.18
660 -5.18 679.9 -5.18 680 5 682.655.201958 686.27 6.51197
688.416.646765 690.576.395789 694.176.028631 696.356.031603 699.935.760584
703.495.806512 705.695.901203 707.915.912693 711.455.961146 713.695.971509
717.215.990309 720.726.055212 722.976.082868 725.256.130817 728.736.195405
731.026.266038 734.496.309402 737.94 6.29144 740.246.274554 742.576.240178
7466.245327 748.356.266367 751.766.240268 755.16 6.27674 757.526.253942
760.96.210955 763.286.191328 766.646.223729 769.046.303157 771.476.343992
774.8 6.32344 777.256.549578 780.567.120556 783.867.323772 786.327.537362
788.87.439013 792.087.919167 794.588.010237 797.84 7.53986 801.087.808455
803.597.897904 806.138.063661 809.358.175103 811.918.027006 815.117.873364
818.37.742838 820.877.416549 824.046.450529 826.636.309551 829.786.100852
832.395.714542 835.035.925725 838.155.892141 840.85.814042 843.915.882748
847.015.810428 849.675.774001 852.365.911799 855.436.110879 858.496.202652
861.196.296753 863.926.336125 866.956.283342 869.976.206295 872.76.162942
875.47 6.1759 878.466.089849 881.446.124307 884.225.761577 887.18 5.66601
889.985.603367 892.85.576531 895.74 5.67678 898.676.003618 901.516.169354
904.415.969446 907.275.999123 910.146.074927 913.036.166425 915.926.294439
918.796.310585 921.76.385173 924.556.361009 927.486.686382 930.316.855771
933.256.611907 936.066.621873 939.036.396754 941.826.462412 944.596.358266
947.586.322489 950.586.259845 953.346.032999 956.076.246696 959.16.442094
961.816.328462 964.856.318246 967.92 6.24518 970.616.370282 973.296.316515
976.38 6.34482 979.036.274142 982.146.248429 985.266.268067 987.9 6.36914
991.046.492695 993.666.640201 996.816.727577 999.41 6.76576 1001.996.520175
1005.176.559641 1008.366.302435 1010.936.318871 1014.146.419885 1016.696.516535
1019.216.257981 1022.456.131716 1025.76.219831 1028.216.266894 1031.486.463554
1033.97 6.58636 1036.446.704932 1039.736.938327 1043.046.583048 1045.496.363355

1047.926.464112 1051.256.509693 1054.596.492799 1057.016.879647 1059.46.764329
1062.776.699128 1066.15 7.05378 1068.526.615536 1070.886.816121 1074.286.596465
1076.626.654968 1080.046.600485 1083.486.611983 1085.86.703542 1088.16.703364
1091.566.890389 1095.046.365082 1097.326.108542 1099.586.104549 1103.086.125782
1106.596.200291 1108.84 6.16669 1111.066.376547 1114.66.888419 1116.816.823857
1120.366.587055 1123.936.489574 1126.126.720788 1128.286.815931 1131.876.883187
1135.487.156588 1137.637.033715 1139.767.101669 1143.396.811024 1147.046.838494
1149.15 6.68716 1151.246.511702 1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Coeff Contr. Expan.
460 680 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 446 15.2 F
694.25 1153.11 15.2 F

Downstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-21 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1200 15.2

Downstream Bridge Cross Section Data
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749
79.04 5.82 81.15 5.819 84.8 5.85 88.36 5.88 90.55 5.88
94.06 5.9 96.31 5.909 98.6 5.914 102.07 5.915 105.46 5.893
107.83 5.902 111.16 5.957 113.59 5.955 116.07 6.015 119.35 6.047
122.55 6.001 125.11 5.951 128.25 5.972 130.87 5.999 133.54 5.995
136.63 5.995 139.65 5.995 142.39 5.967 145.35 6.01 148.15 6.064
151.01 6.052 153.91 6.021 156.75 6.078 159.66 6.084 162.64 6.012
165.42 5.945 168.14 5.985 171.18 5.992 174.29 6.096 176.94 6.073
179.54 6.067 182.7 6.019 185.93 6.051 188.46 6.052 191.76 6.015
194.22 6.012 196.64 5.993 199.98 5.999 202.34 5.994 205.74 6.035
209.22 5.986 211.5 6.054 213.74 6.021 217.26 6.011 219.43 6.018
223.01 6.016 226.68 6.087 228.77 6.061 230.82 5.997 234.53 5.941
236.52 5.997 240.29 6.074 244.15 6.09 246.06 6.094 247.92 6.13
251.82 6.123 253.62 6.125 257.58 6.167 261.62 6.141 263.34 6.143
265.02 6.134 269.1 6.094 270.72 6.109 274.86 6.092 279.08 6.181
280.62 6.17 282.12 6.162 286.38 6.116 287.82 6.152 292.13 6.32
296.54 6.32 297.89 6.313 299.21 6.301 303.65 6.384 304.91 6.413
309.41 6.214 314.01 6.016 315.17 6.003 316.3 5.973 320.93 5.867
322 5.835 326.69 5.859 331.48 6.021 332.45 6.017 333.4 5.997
338.21 6.159 339.1 6.17 343.97 6.204 348.94 6.277 349.73 6.307
350.5 6.307 355.48 6.252 356.19 6.272 361.24 6.207 366.4 6.226
367 6.211 367.59 6.211 372.76 6.268 373.29 6.262 378.52 6.203
383.87 6.304 384.28 6.308 384.69 6.295 390.04 6.229 395.51 6.305
395.8 6.309 401.34 6.384 401.56 6.387 401.79 6.389 407.32 6.268
412.98 6.54 413.08 6.541 418.81 6.612 418.85 6.614 418.88 6.613
422.55 6.478 424.57 6.404 424.6 6.404 430.27 6.549 430.36 6.55
430.44 6.549 436.12 6.532 441.67 6.403 441.88 6.407 442.09 6.406
447.64 6.389 453.07 6.385 453.4 6.389 453.73 6.385 459.16 6.331
459.55 6.328 464.92 6.356 465.38 6.356 470.68 6.287 475.87 6.396
476.44 6.422 477.02 6.437 482.2 6.644 487.26 6.749 487.95 6.743
488.66 6.741 492 6 492.1 -5.18 647.9 -5.18 648 6
654.97 6.693 658.94 6.731 660.73 6.732 662.55 6.727 663.1 6.721
666.49 6.682 670.45 6.8 672.25 6.83 674.05 6.883 678.01 6.775
681.99 6.549 683.76 6.491 685.53 6.5 689.52 6.452 693.54 6.392
695.28 6.352 697.02 6.38 701.04 6.456 702.76 6.485 706.8 6.443
708.51 6.421 712.56 6.488 714.26 6.48 718.32 6.406 720 6.419
724.08 6.519 725.75 6.402 729.84 6.393 731.49 6.347 735.6 6.297
737.24 6.256 741.36 6.212 745.51 6.211 747.12 6.257 748.73 6.295
752.87 6.399 757.05 6.434 758.63 6.46 760.21 6.454 764.39 6.422
768.59 6.455 770.15 6.451 771.7 6.459 775.91 6.458 780.14 6.538
781.67 6.544 783.2 6.575 787.43 6.747 791.69 6.725 793.19 6.744
794.69 6.774 798.95 6.819 800.43 6.792 804.71 6.799 806.18 6.804
810.47 6.747 811.92 6.746 816.22 6.859 817.66 6.836 821.98 6.716
823.41 6.698 827.74 6.674 832.1 6.669 833.5 6.68 834.9 6.669
839.26 6.672 843.65 6.648 845.02 6.625 846.39 6.627 850.78 6.574
855.2 6.59 856.54 6.575 857.88 6.592 862.3 6.551 863.63 6.537
868.06 6.537 872.52 6.472 873.82 6.47 875.12 6.466 879.58 6.517
880.86 6.513 885.33 6.51 886.6 6.507 891.09 6.473 892.35 6.474
896.85 6.478 898.09 6.477 902.61 6.508 903.84 6.52 908.37 6.516
909.58 6.502 914.13 6.486 918.71 6.49 919.89 6.491 921.08 6.501
925.65 6.542 926.82 6.538 931.41 6.521 932.57 6.523 937.17 6.501
938.31 6.501 942.93 6.451 944.06 6.443 948.68 6.434 949.79 6.432
954.44 6.436 959.12 6.412 960.2 6.426 961.29 6.428 965.96 6.42

967.03 6.405 971.72 6.4 972.78 6.415 977.48 6.441 982.21 6.426
983.24 6.419 984.27 6.41 989 6.394 990.02 6.389 994.76 6.351
999.53 6.355 1000.52 6.351 1001.51 6.359 1006.28 6.413 1011.08 6.356
1012.03 6.34 1012.99 6.347 1017.79 6.38 1018.73 6.38 1023.55 6.339
1028.4 6.325 1029.31 6.331 1030.23 6.329 1035.07 6.37 1035.97 6.37
1040.83 6.338 1041.72 6.336 1046.59 6.315 1047.46 6.313 1052.35 6.317
1053.21 6.315 1058.11 6.341 1058.96 6.367 1063.87 6.355 1064.7 6.34
1069.63 6.333 1074.59 6.41 1075.39 6.409 1076.19 6.417 1081.14 6.443
1081.93 6.444 1086.9 6.429 1087.68 6.432 1092.66 6.514 1093.42 6.515
1098.42 6.464 1099.17 6.456 1104.18 6.364 1104.91 6.362 1109.94 6.343
1115 6.361 1115.7 6.352 1116.4 6.352 1121.46 6.325 1122.15 6.319
1127.22 6.291 1127.9 6.292 1132.98 6.314 1138.1 6.354 1138.74 6.355
1139.39 6.362 1144.49 6.356 1145.12 6.355 1150.25 6.34 1155.41 6.406
1156.01 6.407 1156.61 6.403 1161.77 6.414 1162.36 6.418 1167.53 6.424
1168.11 6.431 1168.83 6.436

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-20 .2 492 .03 648 .2

Bank Sta: Left Right Coeff Contr. Expan.
492 648 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-20 456 15.2 F
684.25 1168.83 15.2 F

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 2

Pier Data
Pier Station Upstream= 532 Downstream= 532
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Pier Data
Pier Station Upstream= 608.1 Downstream= 608.1
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Highest Energy Answer

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4.6

INPUT
Description:
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749

```
 79.04   5.82  81.15  5.819   84.8   5.85  88.36   5.88  90.55   5.88
 94.06    5.9  96.31  5.909   98.6  5.914 102.07  5.915 105.46  5.893
107.83  5.902 111.16  5.957 113.59  5.955 116.07  6.015 119.35  6.047
122.55  6.001 125.11  5.951 128.25  5.972 130.87  5.999 133.54  5.995
136.63  5.995 139.65  5.995 142.39  5.967 145.35   6.01 148.15  6.064
151.01  6.052 153.91  6.021 156.75  6.078 159.66  6.084 162.64  6.012
165.42  5.945 168.14  5.985 171.18  5.992 174.29  6.096 176.94  6.073
179.54  6.067  182.7  6.019 185.93  6.051 188.46  6.052 191.76  6.015
194.22  6.012 196.64  5.993 199.98  5.999 202.34  5.994 205.74  6.035
209.22  5.986  211.5  6.054 213.74  6.021 217.26  6.011 219.43  6.018
223.01  6.016 226.68  6.087 228.77  6.061 230.82  5.997 234.53  5.941
236.52  5.997 240.29  6.074 244.15   6.09 246.06  6.094 247.92   6.13
251.82  6.123 253.62  6.125 257.58  6.167 261.62  6.141 263.34  6.143
265.02  6.134  269.1  6.094 270.72  6.109 274.86  6.092 279.08  6.181
280.62   6.17 282.12  6.162 286.38  6.116 287.82  6.152 292.13   6.32
296.54   6.32 297.89  6.313 299.21  6.301 303.65  6.384 304.91  6.413
309.41  6.214 314.01  6.016 315.17  6.003  316.3  5.973 320.93  5.867
   322  5.835 326.69  5.859 331.48  6.021 332.45  6.017  333.4  5.997
338.21  6.159  339.1   6.17 343.97  6.204 348.94  6.277 349.73  6.307
 350.5  6.307 355.48  6.252 356.19  6.272 361.24  6.207  366.4  6.226
   367  6.211 367.59  6.211 372.76  6.268 373.29  6.262 378.52  6.203
383.87  6.304 384.28  6.308 384.69  6.295 390.04  6.229 395.51  6.305
 395.8  6.309 401.34  6.384 401.56  6.387 401.79  6.389 407.32  6.268
412.98   6.54 413.08  6.541 418.81  6.612 418.85  6.614 418.88  6.613
422.55  6.478 424.57  6.404  424.6  6.404 430.27  6.549 430.36   6.55
430.44  6.549 436.12  6.532 441.67  6.403 441.88  6.407 442.09  6.406
447.64  6.389 453.07  6.385  453.4  6.389 453.73  6.385 459.16  6.331
459.55  6.328 464.92  6.356 465.38  6.356 470.68  6.287 475.87  6.396
476.44  6.422 477.02  6.437  482.2  6.644 487.26  6.749 487.95  6.743
488.66  6.741   492     6  492.1  -5.18  647.9  -5.18   648     6
654.97  6.693 658.94  6.731 660.73  6.732 662.55  6.727  663.1  6.721
666.49  6.682 670.45    6.8 672.25   6.83 674.05  6.883 678.01  6.775
681.99  6.549 683.76  6.491 685.53    6.5 689.52  6.452 693.54  6.392
695.28  6.352 697.02   6.38 701.04  6.456 702.76  6.485  706.8  6.443
708.51  6.421 712.56  6.488 714.26   6.48 718.32  6.406    720  6.419
724.08  6.519 725.75  6.402 729.84  6.393 731.49  6.347  735.6  6.297
737.24  6.256 741.36  6.212 745.51  6.211 747.12  6.257 748.73  6.295
752.87  6.399 757.05  6.434 758.63   6.46 760.21  6.454 764.39  6.422
768.59  6.455 770.15  6.451  771.7  6.459 775.91  6.458 780.14  6.538
781.67  6.544  783.2  6.575 787.43  6.747 791.69  6.725 793.19  6.744
794.69  6.774 798.95  6.819 800.43  6.792 804.71  6.799 806.18  6.804
810.47  6.747 811.92  6.746 816.22  6.859 817.66  6.836 821.98  6.716
823.41  6.698 827.74  6.674  832.1  6.669  833.5   6.68  834.9  6.669
839.26  6.672 843.65  6.648 845.02  6.625 846.39  6.627 850.78  6.574
 855.2   6.59 856.54  6.575 857.88  6.592  862.3  6.551 863.63  6.537
868.06  6.537 872.52  6.472 873.82   6.47 875.12  6.466 879.58  6.517
880.86  6.513 885.33   6.51  886.6  6.507 891.09  6.473 892.35  6.474
896.85  6.478 898.09  6.477 902.61  6.508 903.84   6.52 908.37  6.516
909.58  6.502 914.13  6.486 918.71   6.49 919.89  6.491 921.08  6.501
925.65  6.542 926.82  6.538 931.41  6.521 932.57  6.523 937.17  6.501
938.31  6.501 942.93  6.451 944.06  6.443 948.68  6.434 949.79  6.432
954.44  6.436 959.12  6.412  960.2  6.426 961.29  6.428 965.96   6.42
967.03  6.405 971.72    6.4 972.78  6.415 977.48  6.441 982.21  6.426
983.24  6.419 984.27   6.41    989  6.394 990.02  6.389 994.76  6.351
999.53  6.355 1000.52  6.351 1001.51  6.359 1006.28  6.413 1011.08  6.356
1012.03   6.34 1012.99  6.347 1017.79   6.38 1018.73   6.38 1023.55  6.339
 1028.4  6.325 1029.31  6.331 1030.23  6.329 1035.07   6.37 1035.97   6.37
1040.83  6.338 1041.72  6.336 1046.59  6.315 1047.46  6.313 1052.35  6.317
1053.21  6.315 1058.11  6.341 1058.96  6.367 1063.87  6.355  1064.7   6.34
1069.63  6.333 1074.59   6.41 1075.39  6.409 1076.19  6.417 1081.14  6.443
1081.93  6.444  1086.9  6.429 1087.68  6.432 1092.66  6.514 1093.42  6.515
1098.42  6.464 1099.17  6.456 1104.18  6.364 1104.91  6.362 1109.94  6.343
  1115  6.361  1115.7  6.352  1116.4  6.352 1121.46  6.325 1122.15  6.319
1127.22  6.291  1127.9  6.292 1132.98  6.314  1138.1  6.354 1138.74  6.355
1139.39  6.362 1144.49  6.356 1145.12  6.355 1150.25   6.34 1155.41  6.406
1156.01  6.407 1156.61  6.403 1161.77  6.414 1162.36  6.418 1167.53  6.424
1168.11  6.431 1168.83  6.436

Manning's n Values        num=      3
   Sta   n Val    Sta   n Val    Sta   n Val
   -20     .2    492    .03    648     .2

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
         492    648              1      1      1           .3      .5
Ineffective Flow     num=      2
  Sta L   Sta R    Elev  Permanent
   -20    456   15.2      F
 684.25 1168.83   15.2      F

CROSS SECTION


RIVER: GatorSlough
REACH: GatorSlough       RS: 4.59

INPUT
Description: dup RS 4.6
Station Elevation Data    num=    367
```

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-20	5.479	-18.88	5.477	-17.83	5.537	-13.12	5.531	-12	5.527
-7.36	5.518	-6.18	5.524	-1.6	5.527	2.89	5.568	4.16	5.556
5.46	5.558	9.92	5.567	11.29	5.575	15.68	5.494	19.98	5.537
21.44	5.533	22.93	5.551	27.19	5.601	28.74	5.591	32.95	5.577
37.07	5.52	38.71	5.512	42.77	5.565	44.47	5.581	46.21	5.578
50.23	5.588	54.17	5.657	55.99	5.686	59.87	5.704	61.75	5.719
63.68	5.751	67.51	5.747	71.27	5.738	73.28	5.708	76.97	5.749
79.04	5.82	81.15	5.819	84.8	5.85	88.36	5.88	90.55	5.88
94.06	5.9	96.31	5.909	98.6	5.914	102.07	5.915	105.46	5.893
107.83	5.902	111.16	5.957	113.59	5.955	116.07	6.015	119.35	6.047
122.55	6.001	125.11	5.951	128.25	5.972	130.87	5.999	133.54	5.995
136.63	5.995	139.65	5.995	142.39	5.967	145.35	6.01	148.15	6.064
151.01	6.052	153.91	6.021	156.75	6.078	159.66	6.084	162.64	6.012
165.42	5.945	168.14	5.985	171.18	5.992	174.29	6.096	176.94	6.073
179.54	6.067	182.7	6.019	185.93	6.051	188.46	6.052	191.76	6.015
194.22	6.012	196.64	5.993	199.98	5.999	202.34	5.994	205.74	6.035
209.22	5.986	211.5	6.054	213.74	6.021	217.26	6.011	219.43	6.018
223.01	6.016	226.68	6.087	228.77	6.061	230.82	5.997	234.53	5.941
236.52	5.997	240.29	6.074	244.15	6.09	246.06	6.094	247.92	6.13
251.82	6.123	253.62	6.125	257.58	6.167	261.62	6.141	263.34	6.143
265.02	6.134	269.1	6.094	270.72	6.109	274.86	6.092	279.08	6.181
280.62	6.17	282.12	6.162	286.38	6.116	287.82	6.152	292.13	6.32
296.54	6.32	297.89	6.313	299.21	6.301	303.65	6.384	304.91	6.413
309.41	6.214	314.01	6.016	315.17	6.003	316.3	5.973	320.93	5.867
322	5.835	326.69	5.859	331.48	6.021	332.45	6.017	333.4	5.997
338.21	6.159	339.1	6.17	343.97	6.204	348.94	6.277	349.73	6.307
350.5	6.307	355.48	6.252	356.19	6.272	361.24	6.207	366.4	6.226
367	6.211	367.59	6.211	372.76	6.268	373.29	6.262	378.52	6.203
383.87	6.304	384.28	6.308	384.69	6.295	390.04	6.229	395.51	6.305
395.8	6.309	401.34	6.384	401.56	6.387	401.79	6.389	407.32	6.268
412.98	6.54	413.08	6.541	418.81	6.612	418.85	6.614	418.88	6.613
422.55	6.478	424.57	6.404	424.6	6.404	430.27	6.549	430.36	6.55
430.44	6.549	436.12	6.532	441.67	6.403	441.88	6.407	442.09	6.406
447.64	6.389	453.07	6.385	453.4	6.389	453.73	6.385	459.16	6.331
459.55	6.328	464.92	6.356	465.38	6.356	470.68	6.287	475.87	6.396
476.44	6.422	477.02	6.437	482.2	6.644	487.26	6.749	487.95	6.743
488.66	6.741	492	6	492.1	-5.18	647.9	-5.18	648	6
654.97	6.693	658.94	6.731	660.73	6.732	662.55	6.727	663.1	6.721
666.49	6.682	670.45	6.8	672.25	6.83	674.05	6.883	678.01	6.775
681.99	6.549	683.76	6.491	685.53	6.5	689.52	6.452	693.54	6.392
695.28	6.352	697.02	6.38	701.04	6.456	702.76	6.485	706.8	6.443
708.51	6.421	712.56	6.488	714.26	6.48	718.32	6.406	720	6.419
724.08	6.519	725.75	6.402	729.84	6.393	731.49	6.347	735.6	6.297
737.24	6.256	741.36	6.212	745.51	6.211	747.12	6.257	748.73	6.295
752.87	6.399	757.05	6.434	758.63	6.46	760.21	6.454	764.39	6.422
768.59	6.455	770.15	6.451	771.7	6.459	775.91	6.458	780.14	6.538
781.67	6.544	783.2	6.575	787.43	6.747	791.69	6.725	793.19	6.744
794.69	6.774	798.95	6.819	800.43	6.792	804.71	6.799	806.18	6.804
810.47	6.747	811.92	6.746	816.22	6.859	817.66	6.836	821.98	6.716
823.41	6.698	827.74	6.674	832.1	6.669	833.5	6.68	834.9	6.669
839.26	6.672	843.65	6.648	845.02	6.625	846.39	6.627	850.78	6.574
855.2	6.59	856.54	6.575	857.88	6.592	862.3	6.551	863.63	6.537
868.06	6.537	872.52	6.472	873.82	6.47	875.12	6.466	879.58	6.517
880.86	6.513	885.33	6.51	886.6	6.507	891.09	6.473	892.35	6.474
896.85	6.478	898.09	6.477	902.61	6.508	903.84	6.52	908.37	6.516
909.58	6.502	914.13	6.486	918.71	6.49	919.89	6.491	921.08	6.501
925.65	6.542	926.82	6.538	931.41	6.521	932.57	6.523	937.17	6.501
938.31	6.501	942.93	6.451	944.06	6.443	948.68	6.434	949.79	6.432
954.44	6.436	959.12	6.412	960.2	6.426	961.29	6.428	965.96	6.42
967.03	6.405	971.72	6.4	972.78	6.415	977.48	6.441	982.21	6.426
983.24	6.419	984.27	6.41	989	6.394	990.02	6.389	994.76	6.351
999.53	6.355	1000.52	6.351	1001.51	6.359	1006.28	6.413	1011.08	6.356
1012.03	6.34	1012.99	6.347	1017.79	6.38	1018.73	6.38	1023.55	6.339
1028.4	6.325	1029.31	6.331	1030.23	6.329	1035.07	6.37	1035.97	6.37
1040.83	6.338	1041.72	6.336	1046.59	6.315	1047.46	6.313	1052.35	6.317
1053.21	6.315	1058.11	6.341	1058.96	6.367	1063.87	6.355	1064.7	6.34
1069.63	6.333	1074.59	6.41	1075.39	6.409	1076.19	6.417	1081.14	6.443
1081.93	6.444	1086.9	6.429	1087.68	6.432	1092.66	6.514	1093.42	6.515
1098.42	6.464	1099.17	6.456	1104.18	6.364	1104.91	6.362	1109.94	6.343
1115	6.361	1115.7	6.352	1116.4	6.352	1121.46	6.325	1122.15	6.319
1127.22	6.291	1127.9	6.292	1132.98	6.314	1138.1	6.354	1138.74	6.355
1139.39	6.362	1144.49	6.356	1145.12	6.355	1150.25	6.34	1155.41	6.406
1156.01	6.407	1156.61	6.403	1161.77	6.414	1162.36	6.418	1167.53	6.424
1168.11	6.431	1168.83	6.436						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-20	.2	492	.03	648	.2

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
492	648	124	124	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-20	456	9.62	F
684.25	1168.83	9.62	F

BRIDGE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.35

INPUT
Description: SB
Distance from Upstream XS = 20
Deck/Roadway Width = 56
Weir Coefficient = 2.6
Upstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-21 9.62 491.9 9.62 492 9.62 7.12
648 9.62 7.12 648.1 9.62 1200 9.62

Upstream Bridge Cross Section Data
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749
79.04 5.82 81.15 5.819 84.8 5.85 88.36 5.88 90.55 5.88
94.06 5.9 96.31 5.909 98.6 5.914 102.07 5.915 105.46 5.893
107.83 5.902 111.16 5.957 113.59 5.955 116.07 6.015 119.35 6.047
122.55 6.001 125.11 5.951 128.25 5.972 130.87 5.999 133.54 5.995
136.63 5.995 139.65 5.995 142.39 5.967 145.35 6.01 148.15 6.064
151.01 6.052 153.91 6.021 156.75 6.078 159.66 6.084 162.64 6.012
165.42 5.945 168.14 5.985 171.18 5.992 174.29 6.096 176.94 6.073
179.54 6.067 182.7 6.019 185.93 6.051 188.46 6.052 191.76 6.015
194.22 6.012 196.64 5.993 199.98 5.999 202.34 5.994 205.74 6.035
209.22 5.986 211.5 6.054 213.74 6.021 217.26 6.011 219.43 6.018
223.01 6.016 226.68 6.087 228.77 6.061 230.82 5.997 234.53 5.941
236.52 5.997 240.29 6.074 244.15 6.09 246.06 6.094 247.92 6.13
251.82 6.123 253.62 6.125 257.58 6.167 261.62 6.141 263.34 6.143
265.02 6.134 269.1 6.094 270.72 6.109 274.86 6.092 279.08 6.181
280.62 6.17 282.12 6.162 286.38 6.116 287.82 6.152 292.13 6.32
296.54 6.32 297.89 6.313 299.21 6.301 303.65 6.384 304.91 6.413
309.41 6.214 314.01 6.016 315.17 6.003 316.3 5.973 320.93 5.867
322 5.835 326.69 5.859 331.48 6.021 332.45 6.017 333.4 5.997
338.21 6.159 339.1 6.17 343.97 6.204 348.94 6.277 349.73 6.307
350.5 6.307 355.48 6.252 356.19 6.272 361.24 6.207 366.4 6.226
367 6.211 367.59 6.211 372.76 6.268 373.29 6.262 378.52 6.203
383.87 6.304 384.28 6.308 384.69 6.295 390.04 6.229 395.51 6.305
395.8 6.309 401.34 6.384 401.56 6.387 401.79 6.389 407.32 6.268
412.98 6.54 413.08 6.541 418.81 6.612 418.85 6.614 418.88 6.613
422.55 6.478 424.57 6.404 424.6 6.404 430.27 6.549 430.36 6.55
430.44 6.549 436.12 6.532 441.67 6.403 441.88 6.407 442.09 6.406
447.64 6.389 453.07 6.385 453.4 6.389 453.73 6.385 459.16 6.331
459.55 6.328 464.92 6.356 465.38 6.356 470.68 6.287 475.87 6.396
476.44 6.422 477.02 6.437 482.2 6.644 487.26 6.749 487.95 6.743
488.66 6.741 492 6 492.1 -5.18 647.9 -5.18 648 6
654.97 6.693 658.94 6.731 660.73 6.732 662.55 6.727 663.1 6.721
666.49 6.682 670.45 6.8 672.25 6.83 674.05 6.883 678.01 6.775
681.99 6.549 683.76 6.491 685.53 6.5 689.52 6.452 693.54 6.392
695.28 6.352 697.02 6.38 701.04 6.456 702.76 6.485 706.8 6.443
708.51 6.421 712.56 6.488 714.26 6.48 718.32 6.406 720 6.419
724.08 6.519 725.75 6.402 729.84 6.393 731.49 6.347 735.6 6.297
737.24 6.256 741.36 6.212 745.51 6.211 747.12 6.257 748.73 6.295
752.87 6.399 757.05 6.434 758.63 6.46 760.21 6.454 764.39 6.422
768.59 6.455 770.15 6.451 771.7 6.459 775.91 6.458 780.14 6.538
781.67 6.544 783.2 6.575 787.43 6.747 791.69 6.725 793.19 6.744
794.69 6.774 798.95 6.819 800.43 6.792 804.71 6.799 806.18 6.804
810.47 6.747 811.92 6.746 816.22 6.859 817.66 6.836 821.98 6.716
823.41 6.698 827.74 6.674 832.1 6.669 833.5 6.68 834.9 6.669
839.26 6.672 843.65 6.648 845.02 6.625 846.39 6.627 850.78 6.574
855.2 6.59 856.54 6.575 857.88 6.592 862.3 6.551 863.63 6.537
868.06 6.537 872.52 6.472 873.82 6.47 875.12 6.466 879.58 6.517
880.86 6.513 885.33 6.51 886.6 6.507 891.09 6.473 892.35 6.474
896.85 6.478 898.09 6.477 902.61 6.508 903.84 6.52 908.37 6.516
909.58 6.502 914.13 6.486 918.71 6.49 919.89 6.491 921.08 6.501
925.65 6.542 926.82 6.538 931.41 6.521 932.57 6.523 937.17 6.501
938.31 6.501 942.93 6.451 944.06 6.443 948.68 6.434 949.79 6.432
954.44 6.436 959.12 6.412 960.2 6.426 961.29 6.428 965.96 6.42
967.03 6.405 971.72 6.4 972.78 6.415 977.48 6.441 982.21 6.426
983.24 6.419 984.27 6.41 989 6.394 990.02 6.389 994.76 6.351
999.53 6.355 1000.52 6.351 1001.51 6.359 1006.28 6.413 1011.08 6.356
1012.03 6.34 1012.99 6.347 1017.79 6.38 1018.73 6.38 1023.55 6.339
1028.4 6.325 1029.31 6.331 1030.23 6.329 1035.07 6.37 1035.97 6.37
1040.83 6.338 1041.72 6.336 1046.59 6.315 1047.46 6.313 1052.35 6.317
1053.21 6.315 1058.11 6.341 1058.96 6.367 1063.87 6.355 1064.7 6.34
1069.63 6.333 1074.59 6.41 1075.39 6.409 1076.19 6.417 1081.14 6.443
1081.93 6.444 1086.9 6.429 1087.68 6.432 1092.66 6.514 1093.42 6.515
1098.42 6.464 1099.17 6.456 1104.18 6.364 1104.91 6.362 1109.94 6.343

1115 6.361 1115.7 6.352 1116.4 6.352 1121.46 6.325 1122.15 6.319
1127.22 6.291 1127.9 6.292 1132.98 6.314 1138.1 6.354 1138.74 6.355
1139.39 6.362 1144.49 6.356 1145.12 6.355 1150.25 6.34 1155.41 6.406
1156.01 6.407 1156.61 6.403 1161.77 6.414 1162.36 6.418 1167.53 6.424
1168.11 6.431 1168.83 6.436

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-20 .2 492 .03 648 .2

Bank Sta: Left Right Coeff Contr. Expan.
492 648 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-20 456 9.62 F
684.25 1168.83 9.62 F

Downstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-21 9.62 491.9 9.62 492 9.62 7.12
648 9.62 7.12 648.1 9.62 1200 9.62

Downstream Bridge Cross Section Data
Station Elevation Data num= 336
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.013536 4.627.117898 4.987.129236 5.337.123742 10.74 7.06831
11.037.045314 16.56.672902 22.086.480585 22.266.469163 22.446.466109
28.026.283257 28.146.279891 33.786.148354 39.16.231291 39.546.238067
39.556.238137 45.296.413932 50.936.253401 51.056.252393 56.636.224466
56.816.217647 62.33 6.09241 62.576.089359 68.036.057948 68.336.055989
68.646.057269 74.096.125669 74.466.128069 79.856.175917 85.136.131151
85.616.135355 90.836.211596 91.38 6.21467 96.536.307469 97.146.309958
102.236.296508 102.96.293833 107.936.290092 108.656.295126 109.386.297964
114.416.355277 115.26.358286 120.176.378702 125.036.395321 125.936.403618
130.736.415321 131.696.419686 132.676.417501 137.456.440517 142.136.554865
143.216.573679 144.316.583508 148.976.651402 150.136.655237 154.736.696432
159.236.680517 160.496.686668 161.786.686028 166.25 6.65306 167.66.647576
172.016.652355 176.326.635281 177.766.651303 179.236.658226 183.526.693185
185.056.691573 189.286.695109 193.426.697133 195.046.702182 199.126.687279
200.86.677622 202.516.687095 206.56 6.69487 210.526.705235 212.326.729802
214.166.720155 218.086.753465 219.986.766269 223.846.777088 227.636.743019
229.66.745677 231.62 6.73788 235.366.743994 237.446.725008 241.116.724918
244.726.702303 246.876.711846 249.086.713564 252.636.753021 254.9 6.74197
258.396.720082 261.826.711729 264.156.740036 267.526.739932 269.916.738597
273.226.725852 275.686.721985 278.926.727015 281.446.716796 2846.639936
287.26.554258 290.326.399265 292.966.288069 296.026.210798 298.72 6.19395
301.72 6.19185 304.486.216494 307.426.482284 310.236.614634 313.116.700326
315.996.890442 318.926.879824 321.756.909406 324.526.875915 327.516.847575
330.22 6.74907 333.276.659445 335.926.596866 339.036.495471 341.626.611098
344.796.695492 347.32 6.86416 350.557.137008 353.85 6.93895 356.31 6.7909
358.726.778072 362.076.761401 364.426.775408 367.836.761639 370.126.740871
373.586.731915 375.816.735065 379.346.710323 381.51 6.69813 385.16.723934
388.776.705092 390.866.704043 392.91 6.72117 396.62 6.72873 398.616.733131
402.386.744774 404.316.739341 408.146.720503 410.016.700255 413.96.741404
417.876.714475 419.666.730922 423.76.756803 425.426.744149 427.126.774343
431.186.769161 435.346.734297 436.946.725238 438.516.729741 442.696.796102
444.216.881773 448.457.110452 452.796.895158 454.216.828222 455.61 6.64249
460 6 480 -5.18 660 -5.18 680 6 706.39 6.02978
707.636.065577 708.896.024083 713.396.016923 717.795.948747 719.155.916333
720.535.982049 724.91 6.11976 729.196.178744 730.676.229609 734.96.151528
736.436.120185 7386.169028 742.196.213191 746.36.252873 747.956.433785
7526.885107 753.716.872463 755.466.892992 759.477.048115 763.47.080067
765.237.039326 767.17.000651 770.98 6.7321 774.79 6.45656 776.746.313753
780.496.332604 782.56.327547 784.56 6.31667 788.26 6.26781 791.896.201074
794.026.219452 796.26.147838 799.786.134684 802.026.142399 805.546.095258
807.846.126758 811.36.200877 814.696.261695 817.066.276814 820.396.356381
822.836.358634 825.316.382925 828.596.355306 831.136.355063 834.346.385139
836.946.422173 840.16.415528 843.196.436909 845.86 6.44415 848.896.483392
851.626.415771 854.41 6.39416 857.38 6.36807 860.236.275272 863.146.164995
866.056.393271 868.96.362206 871.696.354553 874.666.200531 877.396.432463
880.426.667475 883.51 6.94614 886.187.086906 889.336.821873 891.946.806644
895.166.860425 897.76.968534 900.196.767302 903.456.725206 905.886.737371
909.216.794893 912.616.792857 914.976.828354 918.436.838322 920.736.810176
924.256.849614 926.496.882003 928.687.078928 932.257.127086 934.387.091448
938.017.293641 941.727.285337 943.777.274018 945.797.189181 949.537.085202
951.497.023186 955.296.772801 959.186.796497 961.056.725225 962.886.726119
966.8 6.5834 968.58 6.54046 972.566.567066 976.636.556079 978.326.577935
982.466.662205 984.086.709423 988.286.825852 989.846.856197 991.386.798488
995.66.710093 997.086.701507 1001.366.540529 1005.746.491599 1007.126.503945
1008.48 6.49885 1012.896.509344 1014.186.521883 1018.656.540792 1023.216.491251
1024.416.477779 1025.586.461524 1030.16 6.46092 1031.276.454761 1035.926.561113
1040.666.638438 1041.686.657149 1042.686.669239 1047.446.603306 1048.386.614744
1053.26.518749 1058.126.550673 1058.966.522362 1059.786.520061 1064.726.405599
1065.486.381188 1070.486.365843 1075.596.291648 1076.246.294163 1081.416.314988
10826.301828 1087.236.205415 1087.76 6.21231 1088.286.211489 1093.526.199525
1093.986.197679 1099.276.258206 1104.686.283366 1105.036.290051 1105.376.286088
1110.79 6.23149 1111.076.226769 1116.556.235404 1122.156.186904 1122.316.183959

1122.476.186684 1128.076.174533 1128.176.171877 1133.836.164007 1137.86.121954
1139.596.103349 1139.616.103128 1145.356.065072 1150.976.167377 1151.116.166425
1151.256.167364 1156.876.233702 1157.076.234755 1162.626.249385 1168.076.212687
1168.38 6.21166 1168.716.211231 1174.156.163875 1179.476.140606 1179.916.138773
1185.176.109379 1185.676.103643 1190.876.102267 1191.436.101143 1191.996.106309
1192.176.108284

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 460 .03 680 .2

Bank Sta: Left Right Coeff Contr. Expan.
460 680 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 460 9.62 F
733 1192.17 9.62 F

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 5

Pier Data
Pier Station Upstream= 520 Downstream= 520
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 545 Downstream= 545
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 570 Downstream= 570
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 595 Downstream= 595
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 620 Downstream= 620
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Highest Energy Answer

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4

INPUT
Description:
Station Elevation Data num= 336
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.013536 4.627.117898 4.987.129236 5.337.123742 10.74 7.06831
11.037.045314 16.56.672902 22.086.480585 22.266.469163 22.446.466109
28.026.283257 28.146.279891 33.786.148354 39.16.231291 39.546.238067
39.556.238137 45.296.413932 50.936.253401 51.056.252393 56.636.224466
56.816.217647 62.33 6.09241 62.576.089359 68.036.057948 68.336.055989
68.646.057269 74.096.125669 74.466.128069 79.856.175917 85.136.131151
85.616.135355 90.836.211596 91.38 6.21467 96.536.307469 97.146.309958
102.236.296508 102.96.293833 107.936.290092 108.656.295126 109.386.297964
114.416.355277 115.26.358286 120.176.378702 125.036.395321 125.936.403618
130.736.415321 131.696.419686 132.676.417501 137.456.440517 142.136.554865
143.216.573679 144.316.583508 148.976.651402 150.136.655237 154.736.696432
159.236.680517 160.496.686668 161.786.686028 166.25 6.65306 167.66.647576
172.016.652355 176.326.635281 177.766.651303 179.236.658226 183.526.693185
185.056.691573 189.286.695109 193.426.697133 195.046.702182 199.126.687279
200.86.677622 202.516.687095 206.56 6.69487 210.526.705235 212.326.729802
214.166.720155 218.086.753465 219.986.766269 223.846.777088 227.636.743019
229.66.745677 231.62 6.73788 235.366.743994 237.446.725008 241.116.724918
244.726.702303 246.876.711846 249.086.713564 252.636.753021 254.9 6.74197
258.396.720082 261.826.711729 264.156.740036 267.526.739932 269.916.738597
273.226.725852 275.686.721985 278.926.727015 281.446.716796 2846.639936
287.26.554258 290.326.399265 292.966.288069 296.026.210798 298.72 6.19395
301.72 6.19185 304.486.216494 307.426.482284 310.236.614634 313.116.700326
315.996.890442 318.926.879824 321.756.909406 324.526.875915 327.516.847575
330.22 6.74907 333.276.659445 335.926.596866 339.036.495471 341.626.611098
344.796.695492 347.32 6.86416 350.557.137008 353.85 6.93895 356.31 6.7909
358.726.778072 362.076.761401 364.426.775408 367.836.761639 370.126.740871
373.586.731915 375.816.735065 379.346.710323 381.51 6.69813 385.16.723934
388.776.705092 390.866.704043 392.91 6.72117 396.62 6.72873 398.616.733131
402.386.744774 404.316.739341 408.146.720503 410.016.700255 413.96.741404
417.876.714475 419.666.730922 423.76.756803 425.426.744149 427.126.774343
431.186.769161 435.346.734297 436.946.725238 438.516.729741 442.696.796102
444.216.881773 448.457.110452 452.796.895158 454.216.828222 455.61 6.64249
460 6 480 -5.18 660 -5.18 680 6 706.39 6.02978
707.636.065577 708.896.024083 713.396.016923 717.795.948747 719.155.916333
720.535.982049 724.91 6.11976 729.196.178744 730.676.229609 734.96.151528
736.436.120185 7386.169028 742.196.213191 746.36.252873 747.956.433785
7526.885107 753.716.872463 755.466.892992 759.477.048115 763.47.080067
765.237.039326 767.17.000651 770.98 6.7321 774.79 6.45656 776.746.313753
780.496.332604 782.56.327547 784.56 6.31667 788.26 6.26781 791.896.201074
794.026.219452 796.26.147838 799.786.134684 802.026.142399 805.546.095258
807.846.126758 811.36.200877 814.696.261695 817.066.276814 820.396.356381
822.836.358634 825.316.382925 828.596.355306 831.136.355063 834.346.385139
836.946.422173 840.16.415528 843.196.436909 845.86 6.44415 848.896.483392
851.626.415771 854.41 6.39416 857.38 6.36807 860.236.275272 863.146.164995
866.056.393271 868.96.362206 871.696.354553 874.666.200531 877.396.432463
880.426.667475 883.51 6.94614 886.187.086906 889.336.821873 891.946.806644
895.166.860425 897.76.968534 900.196.767302 903.456.725206 905.886.737371
909.216.794893 912.616.792857 914.976.828354 918.436.838322 920.736.810176
924.256.849614 926.496.882003 928.687.078928 932.257.127086 934.387.091448
938.017.293641 941.727.285337 943.777.274018 945.797.189181 949.537.085202
951.497.023186 955.296.772801 959.186.796497 961.056.725225 962.886.726119
966.8 6.5834 968.58 6.54046 972.566.567066 976.636.556079 978.326.577935
982.466.662205 984.086.709423 988.286.825852 989.846.856197 991.386.798488
995.66.710093 997.086.701507 1001.366.540529 1005.746.491599 1007.126.503945
1008.48 6.49885 1012.896.509344 1014.186.521883 1018.656.540792 1023.216.491251
1024.416.477779 1025.586.461524 1030.16 6.46092 1031.276.454761 1035.926.561113
1040.666.638438 1041.686.657149 1042.686.669239 1047.446.603306 1048.386.614744
1053.26.518749 1058.126.550673 1058.966.522362 1059.786.520061 1064.726.405599
1065.486.381188 1070.486.365843 1075.596.291648 1076.246.294163 1081.416.314988
10826.301828 1087.236.205415 1087.76 6.21231 1088.286.211489 1093.526.199525
1093.986.197679 1099.276.258206 1104.686.283366 1105.036.290051 1105.376.286088
1110.79 6.23149 1111.076.226769 1116.556.235404 1122.156.186904 1122.316.183959
1122.476.186684 1128.076.174533 1128.176.171877 1133.836.164007 1137.86.121954
1139.596.103349 1139.616.103128 1145.356.065072 1150.976.167377 1151.116.166425
1151.256.167364 1156.876.233702 1157.076.234755 1162.626.249385 1168.076.212687
1168.38 6.21166 1168.716.211231 1174.156.163875 1179.476.140606 1179.916.138773
1185.176.109379 1185.676.103643 1190.876.102267 1191.436.101143 1191.996.106309
1192.176.108284

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 114 114 114 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent

0 460 9.62 F
733 1192.17 9.62 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 3

INPUT
Description:
Station Elevation Data num= 335
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
05.634134.60008245.6942093.6696945.8725616.3608736.0559969.336566 6.15758
12.121666.25118415.000636.30046717.882466.34340220.670316.32686523.64325 6.27618
26.337186.29805829.40404 6.339232.004066.33165535.164836.38829837.670936.457571
40.925626.53662344.290016.62476446.686416.68795450.147886.743779 52.44726.724338
54.667756.80128858.197996.81504261.853467.01708763.958787.12554467.711337.177508
69.719577.26428471.662337.21704475.480367.281189 77.32927.34113581.24116 7.32991
85.284977.29584487.001957.30658688.662957.28872392.762737.30974394.329827.315601
98.523537.306118102.85867.368556104.28437.365725105.66367.355804110.04517.239238
114.57437.286993115.80597.299978 120.4247.223483121.55677.210919122.65437.202195
127.31757.156901128.32127.129031133.07837.023808133.98816.894236138.83916.245327
139.6556.228245144.59996.121224145.32186.121514150.36066.109317150.98876.104417
156.12146.121435156.65566.169751161.88226.565981162.32246.576659 167.6436.791144
167.98936.790377173.40386.825194179.00086.604692179.1646 6.59849179.32316.608528
184.92546.892205188.88487.114388 190.6477.213563190.67627.214396196.31367.215431
196.4377.216999201.9803 7.05268202.19787.051146202.42257.044293207.95867.033328
213.31386.939056213.7193 6.94072214.13866.929412219.48016.870151219.99676.861282
225.2409 6.68082230.31396.768672231.0017 6.76614231.71286.772161236.76256.698555
237.57086.699401242.52336.685985 247.3146.792759248.28416.799658249.28516.805222
254.03496.752025255.13486.729418259.79576.699656264.30446.625474265.5565 6.61813
266.8509 6.62402271.31736.753371272.70896.787635 277.0786.846729281.30456.674993
282.83886.612917286.97126.376869288.59966.284712292.63795.895649294.36045.753406
298.30465.466722300.12125.353919303.97135.122859 305.8825.022691 309.6385.036376
311.64285.066675315.30475.223729317.4036 5.27189320.96545.685117323.15445.952621
325.4211 6.03595328.91526.230599 332.2956.226451 334.6766.229411337.96186.238059
340.43676.237585343.62856.128935346.19756.022894349.29525.785341351.95835.640795
354.96195.825533357.71916.047181360.62866.900263363.47997.694016366.2953 8.11466
369.24078.405549 371.9628.441422375.00158.550682377.62888.829827380.76238.913927
383.29119.095375386.51319.372685388.9523 9.24564392.27399.160564 394.6199.072814
398.03479.002273401.56568.952641403.79548.801012405.95258.752063409.55628.778395
411.61928.669924 415.3178.397182417.28598.321684421.07788.130779422.95268.107663
426.83868.094725428.6193 8.13578432.59948.141855 434.2868.215867438.36028.481643
439.95278.516696 444.121 8.62904445.61948.734197449.88188.722662451.28388.778104
455.63268.891652456.94318.852104461.39338.785339462.6097 8.60556467.15418.252288
468.27657.911385472.91496.543383 480 6 500 -5.2 680 -5.2
700 6749.39296.488153751.57896.364151755.15376.385935758.84916.352646
760.91456.371062764.70696.423309766.67536.455131768.57956.373201 772.4366.373319
776.42276.501466778.19686.604229779.91036.687259783.94766.785133785.57036.879885
789.70846.907575793.98616.880507795.46926.866059 796.9046.910859 801.237.005478
802.57097.042951806.99087.049484811.55987.026892812.75166.987225813.90466.946448
818.51247.137194819.57157.160261824.27327.132409825.23837.112283 830.0347.159531
830.90527.159342835.79477.109969840.8491 7.20282841.55557.205065842.23787.188137
847.30637.285461 847.8967.293694853.06717.231751858.41267.253088858.82797.249286
864.27047.097436864.58877.101814870.12837.062606870.34957.059001870.56357.055254
876.1103 7.01876.23037.010146881.87117.189202881.89727.190771883.47417.184991
887.56417.170329887.63197.170899 893.2317.167474893.39267.166747893.55987.163617
899.15347.066497904.56476.948121904.9142 6.93992910.23166.958222 910.6756.959044
911.1326 6.95154916.42586.948007921.55556.935678922.18666.940176922.83916.950261
927.94746.970798932.88927.063582933.70827.069709938.55617.086624 939.4697.096575
940.41277.101128945.22987.091477949.88987.099937950.99067.120971952.12847.119407
956.75137.115421957.98637.098494962.51217.041863963.84427.074677968.27297.059033
972.55747.146533974.03387.133176975.55727.101886979.78457.015061981.40767.071377
985.54537.044007989.54827.002939991.30616.906726993.12346.867206997.06696.826549
1000.8826.8190051002.828 6.812411006.5496.7791291008.5896.7799631010.6976.732145
1014.3496.6761261016.5556.674457 1020.116.6669121022.4136.6848081025.871 6.73766
1029.2166.7620761031.6326.8010161034.8836.7873991037.3926.7782181039.9826.782686
1043.1436.8038211046.2076.8471351048.9046.8919261051.8746.9056771054.6656.957508
1057.556.9489861060.426 6.961111063.208 6.941066.1866.8795511068.8756.868396
1071.9476.8957691075.123 6.824271077.7086.7753551080.9816.8247731083.4696.822412
1086.839 6.80634 1089.236.8031031091.542 6.79074 1094.996.7802131097.2096.795392
1100.751 6.8091104.4136.8205261106.5126.8432591108.5396.8419851112.2636.853469
1114.26.8705271118.0246.8549451121.9766.8086481123.7846.7862351125.5336.781861
1129.5456.696079 1131.26.6405741135.3066.627511 1139.556.5698031141.0676.548143
1145.4086.5012231146.8286.5190811151.2666.5094231152.5886.5185121153.8686.501984
1158.349 6.546111159.5356.549551 1164.116.5483011168.8396.5880571169.8716.599367
1170.8676.5898721175.621 6.6371176.5256.6503381181.3826.5934421186.4036.528528
1187.1436.5219891187.8596.5304571192.9046.5981171193.5266.5953371198.6656.549714
1203.9766.5283691204.4256.525875 1204.866.5240651210.186 6.674821212.9676.629958

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 480 .03 700 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
480 700 2992 2992 2992 .1 .3
Ineffective Flow num= 2

Sta L Sta R Elev Permanent
0 380 9.62 F
8501212.967 9.62 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 2

INPUT
Description:
Station Elevation Data num= 450
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
05.7169533.0405025.7272848.9270045.63529113.00954 5.5133518.665555.150424
19.52365.092546 20.1535.04306723.644384.86976327.296464.846236 28.40414.896162
34.439935.32750438.142655.49674141.583395.64870344.24558 5.7458848.714455.888123
52.482655.93789755.857925.96691857.619755.97146263.001385.99197164.844976.031773
68.965746.06541870.144846.07903277.096866.13594784.431776.15210285.448846.159145
89.569626.22756291.575236.249389 93.6904 6.28662 98.71876.355708104.62256.417423
105.86226.431399110.1707 6.43035113.00566.423311114.28846.400194116.03416.394171
120.14916.349084125.77276.339423126.64296.341413127.28026.353551130.76316.438363
134.42366.469761141.56716.553411143.12546.566182145.24986.591323148.71056.661066
151.36696.698236154.98836.709363 155.8546.702422158.2369 6.65463162.99756.557197
164.72696.549158 167.856.556769170.14096.560685174.46556.523278177.28446.475737
184.4279 6.41677188.45396.408127191.57136.447582193.94266.490539198.71486.561311
200.81416.565407203.68116.669197205.84596.738008212.98936.871006213.41966.873711
217.28936.873028220.13286.846286223.14136.797777225.52666.753677227.27626.765063
232.87986.851731234.41976.879658237.88896.948404241.56327.023889242.61847.034341
246.1304 7.04172248.70667.032128252.35697.044088255.85017.059837258.49287.061393
262.61367.032873265.46576.946252 270.1376.798804 271.834 6.72077274.97596.544682
277.28056.412162279.09666.316373281.57266.132911283.21746.018126 284.4245.928951
291.31115.482089 291.555 5.47225292.22635.489761298.69855.613196299.69345.654872
301.04975.728145303.81415.866703305.84195.973752307.93496.070765310.78826.167706
312.98546.238068319.03356.265806320.12896.275651320.52686.273324327.27236.187408
330.2484 6.0341332.65245.890036334.41585.797626336.77325.687289 339.987 5.51269
341.55935.434537345.88725.411466348.70275.373351349.13555.390818349.72555.438254
353.25635.741339355.84625.992569359.46416.252863362.98976.468141 365.6166.657739
369.20266.925377370.12076.997655 373.8537.279725377.26427.466333378.94127.531781
384.40767.633415388.6797 7.61297390.33617.593648391.55117.603062394.45697.604018
398.41837.567829399.45517.564639 405.8387.554999408.15687.542733412.98157.530588
415.06087.547766417.8954 7.5306419.18157.530075420.12497.539076426.2623 7.571
427.63397.579004431.54397.583354434.41197.578191435.66467.562784437.3725 7.5567
439.78367.533267441.55547.496255447.09417.324724448.69887.257403453.08747.184457
455.82997.117865456.83277.149724 460.3757.304821462.97337.358055464.49587.366015
466.57127.355714468.61657.354174470.11687.355956476.30987.293091477.26037.273585
479.87667.214764484.40377.097619486.04837.079006491.5472 6.98515493.34126.952773
495.78696.883705497.46196.818856498.69066.817505505.52546.686562505.83416.678715
509.82436.629783512.97766.643913513.94516.645947 515.2646.593026518.06586.499019
520.121 6.42308525.0025 6.39305526.30746.397216527.26456.382154533.45076.244791
534.39566.222284534.74116.225821538.66256.305429 541.5396.310773542.7833 6.32458
544.47966.330231546.90236.342032548.6825 6.4376551.02016.560472555.13856.615958
555.8266.607821560.29826.541742562.96946.505861563.93986.467423570.11296.308481
573.67836.291546577.2563 6.265579.86326.274123583.41696.291735584.3998 6.26986
587.10546.168361591.54335.977541592.22555.957663593.15555.898741596.34635.728696
598.68685.496616 602.894 4.98284605.83024.621269612.63264.541596612.97374.558617
616.94614.807698621.06375.153357622.37115.195052625.18455.288533627.24825.328558
629.3053 5.3578632.10975.353431 633.4265.347189634.39175.310977640.6733 5.15894
641.53515.136118641.84825.106658648.6786 4.40435651.58684.266542654.02994.148011
655.8224.308957658.15074.506679661.32534.807045662.96554.922031667.51014.954346
670.10894.998877671.04695.021776674.62665.163263677.25245.160633680.78555.321792
684.39595.542088 690.5245.875691691.53945.916679695.22685.916941699.34416.019505
700.26266.018379 740 6 760 -6.5 1040 -6.5 1060 6
1061.9227.3010241062.9387.3273341066.0437.2786981070.2777.3153291077.2247.341982
1078.4057.3453551080.0157.3358881082.5267.3358211084.3687.3053791089.7547.251793
1091.5117.2332251096.3497.1882091098.6557.1686451099.4927.1645871105.7867.121743
1109.2147.1593481112.9297.2085441115.4787.2408651118.9537.3119111120.0737.346432
1123.1567.3249141127.2167.313392 1127.847.3095241128.6917.315401 1134.367.271316
1138.437.1439431141.503 7.013361148.1686.7124461152.5656.550675 1155.796.395863
1157.9076.3194421162.9346.0687941167.6455.7560151170.0775.6445381176.7715.325494
1177.3845.298591 1181.415.1674711184.3645.2483261187.1225.3080491191.4955.311121
1193.7665.2824891196.8615.2727511198.6385.2459871203.5314.9462911205.7824.820852
1206.6 4.747241212.9254.3310261216.3384.4724331220.0694.7985131222.6065.093126
1226.065.3011771226.7255.3452421227.2125.3631251230.3855.4603671234.3565.590668
1235.7985.6311371241.499 5.733121245.5375.7386521248.6435.7789461251.4495.801606
1255.275 5.787931257.1925.778521 1262.935.7552771265.0145.7491691270.061 5.70536
1272.0465.6828441274.7535.6915561276.1675.7013361277.2045.6876151284.4915.577036
1288.5295.5577811291.4915.594691 1292.655.618702 1294.235.6207671296.771 5.62774
1298.6355.6563761303.9685.6882931305.7785.696522 1310.765.7979811312.9225.830954
1313.2545.8389531317.3755.8209231320.0655.8420991323.4455.8814821325.6155.874678
1327.2085.8762581334.3525.7656081337.9715.7583471341.4955.7752221342.9065.776441
1348.6265.7755111350.3265.7735771352.6445.7596911362.9135.689728 1366.815.728633
1370.0575.787065 1370.93 5.805841372.1215.814385 1377.25.861263 1381.865.816864
1384.3445.7710031391.1825.7471821395.6555.7242571398.6315.7147271401.3375.683331
1405.7745.7056661408.0175.7125591411.0755.7479311412.1385.7448371412.9185.749188
1417.9895.7597481420.0615.7587291420.8145.7713211427.2045.840155 1428.625.848466
1432.7365.8842131440.2915.9456721441.4795.9462891444.7715.9710411448.6225.993711
1455.7666.0147231459.7516.0733041461.5736.1096261462.9096.1132431465.6946.107527

1469.496.1365811470.053 6.136671479.228 6.094881482.1776.053236 1484.346.065204
1488.9676.0512961491.4836.0145321498.7055.9401761502.7815.858075 1506.95.738136
1508.4445.7574911512.9015.7071971518.1825.5690511520.0455.4423171525.1714.977206
1527.1884.8039621527.9214.7570291534.332 4.88691 1535.744.897698 1537.664.923121
1539.8615.0198461541.4755.0684641547.3985.2891111548.6195.336511 15525.463583
1555.7625.583578 1557.125.6380991562.9065.6822811564.5785.7114441566.8585.744007
1568.6995.7644331570.0495.7371511576.5975.7899951577.1925.7875241578.8325.769706
1584.3365.6889431585.1825.6895561586.3355.6707991589.3035.5616041591.4795.465133
1593.4225.3635171596.0745.278222 1598.615.1872781605.813 4.853131609.8994.775279
1612.8974.7727351615.5514.757854 1625.295.0735051627.1845.1095021630.5035.189753
1634.3285.2645881635.0285.2866281641.4715.4470281642.8665.4725681644.7675.489395
1648.6155.4926341655.7585.5342921659.2075.5346211664.2445.5505091667.5885.549706
1670.045 5.540761673.9655.4698721677.1765.4415171679.9385.4365191683.7045.520175
1686.0145.5551261691.4635.6103311693.4435.6389761698.607 5.625681700.5425.614193
1703.1815.6805021704.6635.695674 1705.755.672248 1712.925.5379561720.0375.504075
1721.1465.5012791722.6585.4479291725.2675.378125 1727.185.3742871731.2985.373521

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 740 .03 1060 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
740 1060 2485 2485 2485 .1 .3

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 1

INPUT
Description:
Station Elevation Data num= 166
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.139362.32024347.1399171.3857517.1293082.0531747.1050955.5647687.006631
8.849891 6.91609 9.742836.92267411.170846.95509615.634817.14119622.021447.448279
22.431527.45752823.119067.45179129.228247.40921432.872047.29375334.810637.213207
36.024957.12556141.311116.91823542.821676.84470843.168676.82031343.722646.747432
47.347696.28521449.618395.75497854.573244.842176 56.41514.59197859.884744.154867
63.211814.14333964.063764.12835465.423844.17830968.242774.28990170.008534.328534
76.274444.44257976.600814.44827976.805254.45258377.695214.46752283.601974.618624
84.958854.60362487.125034.62736789.137864.64219490.398684.62734695.861824.649078
97.183594.64630797.975634.647339103.9803 4.61532108.82624.600175110.02574.593111
110.7774.579875114.20474.583544117.57374.556514119.67684.541188124.37054.603098
126.737 4.65068130.50864.606395130.91354.599888131.16724.604856135.09254.629754
137.96394.547652139.27164.490444141.35924.465056143.45064.430177144.7606 4.39579
147.62964.233104151.5573 3.95681151.80863.963387152.20983.953728155.9876 3.87495
158.3544.043613160.1667 4.25548163.06044.634567164.34574.844993165.15084.897623
168.63925.119306171.93575.336616172.69645.360276 173.9115.394269176.87555.474509
178.73245.519883181.05455.568424184.76165.483582185.52915.491622189.41255.704286
192.3258 5.72928195.61225.760374199.1225 5.82594201.94965.826334205.9193 5.79649
206.12865.798643206.46285.788485 212.7165.587472217.31345.578351218.66565.606949
219.51275.600134222.8447 5.57725226.30945.618122 228.1645.658282233.10615.735694
239.01465.854323239.56045.863221239.90285.875692243.73666.031662246.69956.155753
247.91156.190144249.84636.182899252.08486.183189253.48456.150177 260 6
280 -7.7 560 -7.7 580 6586.4763 6.08955586.9778 6.14979
593.27317.028161597.02787.379149600.06987.658457603.0772 7.91203606.86658.269607
607.87848.342468613.66328.737169618.71029.083757620.45999.204063623.39359.193842
627.25679.193973 628.144 9.17494629.56089.147607632.32319.097367634.0533 9.07832
640.41148.930387640.8383 8.91778 641.5548.904679647.63498.768626 651.2628.729102
654.43178.669438657.3899 8.62072661.22848.589652662.11268.583015668.02518.554443
669.9278.539376672.96328.500792674.82188.496014 677.9388.522849681.61858.561017
683.81388.545994688.41538.499235694.66448.387005 695.2128.390443696.13018.377296
702.00878.288918703.35918.287889 705.5158.268189707.53818.278418708.80548.274513
714.29668.042742715.59037.989136715.88897.987435716.36567.973315720.06797.906287
722.387 7.77662727.2162 7.77945729.18387.753947 732.6057.924538735.98058.050848
738.06688.134135742.77728.341791748.89868.522486749.57398.538365750.70628.526504
752.94878.498083

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 260 .03 580 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
260 580 0 0 0 .1 .3

SUMMARY OF MANNING'S N VALUES

River:GatorSlough

Reach	River Sta.	n1	n2	n3
GatorSlough	6	.2	.03	.2
GatorSlough	5	.2	.03	.2
GatorSlough	4.95	Inl Struct		
GatorSlough	4.9	.2	.03	.2

GatorSlough	4.89	.2	.03	.2
GatorSlough	4.75	Bridge		
GatorSlough	4.6	.2	.03	.2
GatorSlough	4.59	.2	.03	.2
GatorSlough	4.35	Bridge		
GatorSlough	4	.2	.03	.2
GatorSlough	3	.1	.03	.1
GatorSlough	2	.1	.03	.1
GatorSlough	1	.1	.03	.1

SUMMARY OF REACH LENGTHS

River: GatorSlough

Reach	River Sta.	Left	Channel	Right
GatorSlough	6	325	325	325
GatorSlough	5	32	32	32
GatorSlough	4.95	Inl Struct		
GatorSlough	4.9	1	1	1
GatorSlough	4.89	94	94	94
GatorSlough	4.75	Bridge		
GatorSlough	4.6	1	1	1
GatorSlough	4.59	124	124	124
GatorSlough	4.35	Bridge		
GatorSlough	4	114	114	114
GatorSlough	3	2992	2992	2992
GatorSlough	2	2485	2485	2485
GatorSlough	1	0	0	0

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: GatorSlough

Reach	River Sta.	Contr.	Expan.
GatorSlough	6	.1	.3
GatorSlough	5	.3	.5
GatorSlough	4.95	Inl Struct	
GatorSlough	4.9	.3	.5
GatorSlough	4.89	.3	.5
GatorSlough	4.75	Bridge	
GatorSlough	4.6	.3	.5
GatorSlough	4.59	.3	.5
GatorSlough	4.35	Bridge	
GatorSlough	4	.3	.5
GatorSlough	3	.1	.3
GatorSlough	2	.1	.3
GatorSlough	1	.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/ft)	E.G. Slope (ft/s)	Vel Chnl (sq ft)	Flow Area (ft)	Top Width	Froude # Chl
GatorSlough	6	50yr	1469.00	-5.18	3.17	-4.00	3.18	0.000018	0.82	1794.50	229.87	0.05
GatorSlough	6	100yr	1656.00	-5.18	3.32	-3.90	3.33	0.000022	0.91	1829.11	230.41	0.06
GatorSlough	6	500yr	2137.00	-5.18	3.71	-3.66	3.73	0.000031	1.11	1918.50	231.79	0.07
GatorSlough	5	50yr	1469.00	-5.18	3.16	-3.91	3.17	0.000022	0.90	1637.90	212.77	0.06
GatorSlough	5	100yr	1656.00	-5.18	3.31	-3.81	3.32	0.000026	0.99	1669.56	213.35	0.06
GatorSlough	5	500yr	2137.00	-5.18	3.69	-3.55	3.71	0.000038	1.22	1751.35	214.86	0.08
GatorSlough	4.95	Inl Struct										
GatorSlough	4.9	50yr	1469.00	-5.18	1.27	-3.91	1.29	0.000053	1.18	1241.75	205.33	0.08
GatorSlough	4.9	100yr	1656.00	-5.18	1.30	-3.81	1.33	0.000066	1.33	1248.54	205.45	0.09
GatorSlough	4.9	500yr	2137.00	-5.18	1.40	-3.55	1.44	0.000104	1.68	1269.34	205.85	0.12
GatorSlough	4.89	50yr	1469.00	-5.18	1.27	-4.07	1.28	0.000039	1.04	1417.61	219.93	0.07
GatorSlough	4.89	100yr	1656.00	-5.18	1.30	-3.98	1.32	0.000049	1.16	1425.02	219.93	0.08
GatorSlough	4.89	500yr	2137.00	-5.18	1.40	-3.75	1.44	0.000078	1.48	1447.68	219.93	0.10
GatorSlough	4.75	Bridge										
GatorSlough	4.6	50yr	1469.00	-5.18	1.24	-3.78	1.27	0.000082	1.47	1000.26	155.91	0.10
GatorSlough	4.6	100yr	1656.00	-5.18	1.26	-3.66	1.31	0.000103	1.65	1004.30	155.92	0.11
GatorSlough	4.6	500yr	2137.00	-5.18	1.34	-3.38	1.41	0.000164	2.10	1016.66	155.92	0.15
GatorSlough	4.59	50yr	1469.00	-5.18	1.24	-3.78	1.27	0.000082	1.47	1000.25	155.91	0.10
GatorSlough	4.59	100yr	1656.00	-5.18	1.26	-3.66	1.31	0.000103	1.65	1004.28	155.92	0.11

GatorSlough	4.59	500yr	2137.00	-5.18	1.34	-3.38	1.41	0.000164	2.10	1016.64	155.92	0.15
GatorSlough	4.35		Bridge									
GatorSlough	4	50yr	1469.00	-5.18	1.23	-3.91	1.25	0.000054	1.20	1226.57	202.92	0.09
GatorSlough	4	100yr	1656.00	-5.18	1.25	-3.80	1.28	0.000068	1.34	1231.23	203.00	0.10
GatorSlough	4	500yr	2137.00	-5.18	1.32	-3.55	1.37	0.000109	1.72	1245.54	203.26	0.12
GatorSlough	3	50yr	1469.00	-5.20	1.22	-3.94	1.24	0.000054	1.20	1229.26	202.93	0.09
GatorSlough	3	100yr	1656.00	-5.20	1.24	-3.82	1.27	0.000068	1.34	1233.59	203.01	0.10
GatorSlough	3	500yr	2137.00	-5.20	1.31	-3.57	1.35	0.000109	1.71	1246.95	203.24	0.12
GatorSlough	2	50yr	1469.00	-6.50	1.16		1.17	0.000012	0.66	2239.59	304.52	0.04
GatorSlough	2	100yr	1656.00	-6.50	1.17		1.18	0.000016	0.74	2241.48	304.54	0.05
GatorSlough	2	500yr	2137.00	-6.50	1.19		1.20	0.000026	0.95	2247.35	304.60	0.06
GatorSlough	1	50yr	1469.00	-7.70	1.14	-6.75	1.15	0.000008	0.57	2589.28	305.81	0.03
GatorSlough	1	100yr	1656.00	-7.70	1.14	-6.68	1.15	0.000010	0.64	2589.28	305.81	0.04
GatorSlough	1	500yr	2137.00	-7.70	1.14	-6.49	1.15	0.000016	0.83	2589.28	305.81	0.05

HEC-RAS HEC-RAS 6.3.1 September 2022
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

Option 2: MLW

```
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: BurntStoreRd
Project File : BurntStoreRd.prj
Run Date and Time: 12/12/2022 2:43:37 PM

Project in English units

PLAN DATA

Plan Title: alt1-MLW
Plan File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.p09

Geometry Title: alt1
Geometry File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.g02

Flow Title : MLW
Flow File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.f01

Plan Summary Information:
Number of: Cross Sections = 10 Multiple Openings = 0
Culverts = 0 Inline Structures = 1
Bridges = 2 Lateral Structures = 0

Computational Information
Water surface calculation tolerance = 0.01
Critical depth calculation tolerance = 0.01
Maximum number of iterations = 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: Subcritical Flow

FLOW DATA

Flow Title: MLW
Flow File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.f01

Flow Data (cfs)

River	Reach	RS	2yr	10yr	50yr	100yr	500yr
GatorSlough	GatorSlough	6	523	1027	1469	1656	2137

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
GatorSlough	GatorSlough	2yr		Known WS = -1.21
GatorSlough	GatorSlough	10yr		Known WS = -1.21
GatorSlough	GatorSlough	50yr		Known WS = -1.21
GatorSlough	GatorSlough	100yr		Known WS = -1.21
GatorSlough	GatorSlough	500yr		Known WS = -1.21

GEOMETRY DATA

Geometry Title: alt1
Geometry File : C:\Users\mtian\Desktop\SCALA.C002.BURNT\model\hecras\BurntStoreRd.g02

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 6

INPUT
Description:
Station Elevation Data num= 209
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
015.810931.51197215.095671.92719414.987436.63488811.569927.73904611.15956
10 11.0021 20 6 40 -5.18 240 -5.18 260 6
275.03386.596048278.10496.911404280.84567.456571 284.4386.734048286.6575 6.5253
288.35086.438589292.46936.274312297.86776.115646298.28126.105773298.5966 6.09227
300.94216.032612 304.093 5.95349308.84255.842399309.9049 5.819311.29755.814687
315.71685.739794319.08835.789398321.52865.818156324.21125.834075327.34055.825157
329.33415.874362333.15235.917914 338.1575.888027338.9642 5.88453 344.1596.053599
344.6946.071371344.76596.073395349.81576.008409350.57786.005298351.5771 6.01119
356.38966.023088360.05946.059943362.20156.055526365.18136.049381368.01336.058471
371.72726.010323373.82526.015296 375.4255.996241 379.6376.037355380.5469 6.05109
385.4489 6.08776387.30086.088549391.26076.094091395.91426.172667397.07266.182955
401.03716.267283402.88446.274123405.30096.325582408.68626.254711411.27416.201979
414.4986.053845418.72396.043635420.30996.038623421.51996.044792426.12186.094304
430.51766.101513431.93366.098101436.88875.982147437.74555.952732442.01165.853244
443.55735.746291447.1345 5.70066449.3692 5.74631452.25745.669144 455.1815.859259
457.38035.908049460.99295.938123462.50325.892483466.80475.785176472.44295.688177
472.61665.684698472.74895.682794473.73445.681715 477.864 5.64786478.41835.653611
479.14615.628216484.23025.317559488.10895.392888490.04215.438355492.57595.466997
495.85395.566537498.35485.440666501.66575.283715503.4777 5.24147507.47765.068574
512.72055.411178513.28945.513938513.72355.462605516.9512 5.5736518.84645.625485
519.10135.654751523.96945.908846524.91316.093889526.15036.010974 530.7255.962567
532.8651 5.87769536.53695.811903539.33385.797331542.3386 5.59487546.28325.880001
548.1505 6.05307 549.5755.993674553.9623 5.71997554.69795.715087559.7742 5.79931
559.82095.800912 560.168 5.80842564.9438 5.91833 565.5865.946776570.06675.885418
571.39795.894733575.18965.880164577.20975.730837580.31255.681929583.02165.751864
586.57255.878968588.83345.875722590.55835.930823594.64536.129188595.68136.138294
600.45726.376047600.80366.383942603.38486.457893606.25896.480248611.04115.945451
612.07075.888593613.4203 5.85749617.88265.916133 621.2876.031165623.69455.995027
626.85015.936799629.50635.889764631.53286.066576635.31826.450052640.27985.822372
641.135.726723646.60175.965977646.94195.985181652.02456.009749652.75375.991779
653.70966.046184658.56566.082474662.27036.140758664.37746.047635667.1393 6.29102
670.18936.738739672.51266.479763 675.9916.378997677.63016.409996681.80296.370804
687.27236.323199687.61476.319861 687.8766.290436689.81856.195624692.99896.054155
693.42666.014174698.12186.156136699.23856.202541703.24486.309748705.05036.285812
708.36766.052905710.86215.843195713.49055.776447 716.6745.804971718.61355.935477
722.48586.050159723.73646.232004728.29776.781312728.8593 6.78227733.03536.834223
734.10966.845201739.09757.196379739.91137.252722744.21927.342844745.72317.263627
747.69467.089917 751.5356.659433754.4094 6.78285757.34696.858228759.58796.877946
763.15887.036226767.83926.835387768.97066.703438774.55416.824662774.78246.822989
774.95676.827647776.25216.837759780.0796 6.80856780.59436.882199781.26896.851957
786.40617.051636790.32546.907259 792.2186.825349795.44836.539918798.02986.531018
801.41366.242802803.84176.264877805.6913 6.32447805.73866.327927

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 20 .03 260 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
20 260 325 325 325 .1 .3
Ineffective Flow num= 1
Sta L Sta R Elev Permanent
613805.7386 15.2 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 5

INPUT
Description:
Station Elevation Data num= 341
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085

158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 480 -5.18 660 -5.18
680 5 682.655.201958 686.27 6.51197 688.416.646765 690.576.395789
694.176.028631 696.356.031603 699.935.760584 703.495.806512 705.695.901203
707.915.912693 711.455.961146 713.695.971509 717.215.990309 720.726.055212
722.976.082868 725.256.130817 728.736.195405 731.026.266038 734.496.309402
737.94 6.29144 740.246.274554 742.576.240178 7466.245327 748.356.266367
751.766.240268 755.16 6.27674 757.526.253942 760.96.210955 763.286.191328
766.646.223729 769.046.303157 771.476.343992 774.8 6.32344 777.256.549578
780.567.120556 783.867.323772 786.327.537362 788.87.439013 792.087.919167
794.588.010237 797.84 7.53986 801.087.808455 803.597.897904 806.138.063661
809.358.175103 811.918.027006 815.117.873364 818.37.742838 820.877.416549
824.046.450529 826.636.309551 829.786.100852 832.395.714542 835.035.925725
838.155.892141 840.85.814042 843.915.882748 847.015.810428 849.675.774001
852.365.911799 855.436.110879 858.496.202652 861.196.296753 863.926.336125
866.956.283342 869.976.206295 872.76.162942 875.47 6.1759 878.466.089849
881.446.124307 884.225.761577 887.18 5.66601 889.985.603367 892.85.576531
895.74 5.67678 898.676.003618 901.516.169354 904.415.969446 907.275.999123
910.146.074927 913.036.166425 915.926.294439 918.796.310585 921.76.385173
924.556.361009 927.486.686382 930.316.855771 933.256.611907 936.066.621873
939.036.396754 941.826.462412 944.596.358266 947.586.322489 950.586.259845
953.346.032999 956.076.246696 959.16.442094 961.816.328462 964.856.318246
967.92 6.24518 970.616.370282 973.296.316515 976.38 6.34482 979.036.274142
982.146.248429 985.266.268067 987.9 6.36914 991.046.492695 993.666.640201
996.816.727577 999.41 6.76576 1001.996.520175 1005.176.559641 1008.366.302435
1010.936.318871 1014.146.419885 1016.696.516535 1019.216.257981 1022.456.131716
1025.76.219831 1028.216.266894 1031.486.463554 1033.97 6.58636 1036.446.704932
1039.736.938327 1043.046.583048 1045.496.363355 1047.926.464112 1051.256.509693
1054.596.492799 1057.016.879647 1059.46.764329 1062.776.699128 1066.15 7.05378
1068.526.615536 1070.886.816121 1074.286.596465 1076.626.654968 1080.046.600485
1083.486.611983 1085.86.703542 1088.16.703364 1091.566.890389 1095.046.365082
1097.326.108542 1099.586.104549 1103.086.125782 1106.596.200291 1108.84 6.16669
1111.066.376547 1114.66.888419 1116.816.823857 1120.366.587055 1123.936.489574
1126.126.720788 1128.286.815931 1131.876.883187 1135.487.156588 1137.637.033715
1139.767.101669 1143.396.811024 1147.046.838494 1149.15 6.68716 1151.246.511702
1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 32 32 32 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 432 15.2 F
708 1153.11 15.2 F

INLINE STRUCTURE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.95

INPUT
Description: US weir
Distance from Upstream XS = 28
Deck/Roadway Width = 2
Weir Coefficient = 2.6
Weir Embankment Coordinates num = 2
Sta Elev Sta Elev
460 1.22 680 1.22

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Weir crest shape = Broad Crested

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4.9

INPUT
Description: dup RS 5
Station Elevation Data num= 341
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085
158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 480 -5.18 660 -5.18
680 5 682.655.201958 686.27 6.51197 688.416.646765 690.576.395789
694.176.028631 696.356.031603 699.935.760584 703.495.806512 705.695.901203
707.915.912693 711.455.961146 713.695.971509 717.215.990309 720.726.055212
722.976.082868 725.256.130817 728.736.195405 731.026.266038 734.496.309402
737.94 6.29144 740.246.274554 742.576.240178 7466.245327 748.356.266367
751.766.240268 755.16 6.27674 757.526.253942 760.96.210955 763.286.191328
766.646.223729 769.046.303157 771.476.343992 774.8 6.32344 777.256.549578
780.567.120556 783.867.323772 786.327.537362 788.87.439013 792.087.919167
794.588.010237 797.84 7.53986 801.087.808455 803.597.897904 806.138.063661
809.358.175103 811.918.027006 815.117.873364 818.37.742838 820.877.416549
824.046.450529 826.636.309551 829.786.100852 832.395.714542 835.035.925725
838.155.892141 840.85.814042 843.915.882748 847.015.810428 849.675.774001
852.365.911799 855.436.110879 858.496.202652 861.196.296753 863.926.336125
866.956.283342 869.976.206295 872.76.162942 875.47 6.1759 878.466.089849
881.446.124307 884.225.761577 887.18 5.66601 889.985.603367 892.85.576531
895.74 5.67678 898.676.003618 901.516.169354 904.415.969446 907.275.999123
910.146.074927 913.036.166425 915.926.294439 918.796.310585 921.76.385173
924.556.361009 927.486.686382 930.316.855771 933.256.611907 936.066.621873
939.036.396754 941.826.462412 944.596.358266 947.586.322489 950.586.259845
953.346.032999 956.076.246696 959.16.442094 961.816.328462 964.856.318246
967.92 6.24518 970.616.370282 973.296.316515 976.38 6.34482 979.036.274142
982.146.248429 985.266.268067 987.9 6.36914 991.046.492695 993.666.640201
996.816.727577 999.41 6.76576 1001.996.520175 1005.176.559641 1008.366.302435
1010.936.318871 1014.146.419885 1016.696.516535 1019.216.257981 1022.456.131716
1025.76.219831 1028.216.266894 1031.486.463554 1033.97 6.58636 1036.446.704932
1039.736.938327 1043.046.583048 1045.496.363355 1047.926.464112 1051.256.509693
1054.596.492799 1057.016.879647 1059.46.764329 1062.776.699128 1066.15 7.05378
1068.526.615536 1070.886.816121 1074.286.596465 1076.626.654968 1080.046.600485
1083.486.611983 1085.86.703542 1088.16.703364 1091.566.890389 1095.046.365082
1097.326.108542 1099.586.104549 1103.086.125782 1106.596.200291 1108.84 6.16669
1111.066.376547 1114.66.888419 1116.816.823857 1120.366.587055 1123.936.489574
1126.126.720788 1128.286.815931 1131.876.883187 1135.487.156588 1137.637.033715
1139.767.101669 1143.396.811024 1147.046.838494 1149.15 6.68716 1151.246.511702
1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 1 1 1 .3 .5
Ineffective Flow num= 2

```
  Sta L   Sta R    Elev  Permanent
    -40    445   15.2      F
 695.25 1153.11   15.2      F

CROSS SECTION


RIVER: GatorSlough
REACH: GatorSlough        RS: 4.89

INPUT
Description: dup RS 5
Station Elevation Data    num=     343
     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev     Sta    Elev
     -40 6.40475  -37.24   6.399  -37.026.398235  -31.486.389614   -25.96.267672
  -25.726.265655  -25.546.264254  -19.966.117541   -19.86.120116   -14.26.079359
   -8.57 6.29748   -8.446.299347   -8.316.305284   -2.686.683675   -2.576.686794
   3.087.012018    8.776.919583    8.846.921832    8.916.919635   14.596.536195
  14.646.532438   20.356.542585    26.16.220605   26.116.220217   26.126.220474
  30.366.487984   31.87 6.58304   37.61 6.88196   37.636.881915   37.656.881639
  43.396.760462   43.436.758618   49.156.448464   54.836.260639   54.916.260697
  54.996.259161   60.676.426044   60.776.428965   66.436.325921   72.05 6.76737
  72.196.768289   72.336.769689   77.947.109261    78.17.112264   83.77.031016
  89.27   6.583   89.466.575857   89.656.579198   95.226.181042   95.436.172585
 100.986.575974  106.496.550959  106.74 6.55113  106.996.567522   112.56.664949
 117.976.762691  118.266.780375  118.556.769499  124.02 6.88309  129.466.984616
 129.787.006915  130.117.015774  135.547.173774  135.897.185001   141.37.248809
 146.677.243085  147.057.232946  152.417.197012  152.817.196423  153.217.197085
 158.577.179951  163.897.234093  164.337.236252  169.647.340766  170.097.344185
 170.55 7.34699  175.857.469349  181.127.507696  181.617.506649  186.867.305055
 187.377.303405  187.897.290659  193.137.138133  198.347.011026  198.896.991798
 204.086.865872  204.656.859518  205.226.858679   210.46.825923  215.566.734319
 216.166.715126  216.776.707654  221.926.586567  222.556.581397  227.686.629734
 232.786.537021  233.446.524528  234.116.505478   239.26.504333  239.896.489673
 244.966.417924     2506.498955  250.726.512369  251.446.513701  256.486.468071
 257.226.472039  262.246.717733  267.236.837183     2686.837797  268.786.861415
 273.766.980472  274.566.975163  279.516.735236  284.446.738209  285.276.719759
 286.11 6.71338  291.036.861556  291.896.891734  296.796.889187  301.676.927267
 302.556.950416  303.446.990143  308.31 7.15539  309.227.148989  314.07 7.23408
 318.897.236662  319.837.272815  320.787.271133  325.597.308398  326.567.297071
 331.357.273354  332.347.332561  337.117.555247  341.857.625834  342.867.641699
 347.597.627559  348.62 7.61434  349.67 7.64108  354.387.701519  359.077.595617
 360.147.571332  361.22 7.55008   365.97.442764     3677.365368  371.667.071505
 376.296.962797  377.426.913003  378.567.006341  383.187.296581  384.34 7.31621
 388.94 7.29075  393.527.005053   394.7 6.92965   395.96.867858  400.466.976988
 401.686.998838  406.227.026398  410.736.872643  411.976.853057  413.226.870495
 417.736.918495     4196.953634  423.497.026543  427.957.020765  429.257.024062
 430.566.980596  435.016.766422  436.346.688295  440.776.334496  442.126.276613
 446.535.638418   447.95.484687     460      5   460.1   -5.18     480   -5.18
    660   -5.18   679.9   -5.18     680      5  682.655.201958  686.27 6.51197
 688.416.646765  690.576.395789  694.176.028631  696.356.031603  699.935.760584
 703.495.806512  705.695.901203  707.915.912693  711.455.961146  713.695.971509
 717.215.990309  720.726.055212  722.976.082868  725.256.130817  728.736.195405
 731.026.266038  734.496.309402  737.94 6.29144  740.246.274554  742.576.240178
   7466.245327  748.356.266367  751.766.240268  755.16 6.27674  757.526.253942
  760.96.210955  763.286.191328  766.646.223729  769.046.303157  771.476.343992
  774.8 6.32344  777.256.549578  780.567.120556  783.867.323772  786.327.537362
  788.87.439013  792.087.919167  794.588.010237  797.84 7.53986  801.087.808455
 803.597.897904  806.138.063661  809.358.175103  811.918.027006  815.117.873364
  818.37.742838  820.877.416549  824.046.450529  826.636.309551  829.786.100852
 832.395.714542  835.035.925725  838.155.892141   840.85.814042  843.915.882748
 847.015.810428  849.675.774001  852.365.911799  855.436.110879  858.496.202652
 861.196.296753  863.926.336125  866.956.283342  869.976.206295   872.76.162942
 875.47  6.1759  878.466.089849  881.446.124307  884.225.761577  887.18 5.66601
 889.985.603367   892.85.576531  895.74 5.67678  898.676.003618  901.516.169354
 904.415.969446  907.275.999123  910.146.074927  913.036.166425  915.926.294439
 918.796.310585   921.76.385173  924.556.361009  927.486.686382  930.316.855771
 933.256.611907  936.066.621873  939.036.396754  941.826.462412  944.596.358266
 947.586.322489  950.586.259845  953.346.032999  956.076.246696   959.16.442094
 961.816.328462  964.856.318246  967.92 6.24518  970.616.370282  973.296.316515
 976.38 6.34482  979.036.274142  982.146.248429  985.266.268067   987.9 6.36914
 991.046.492695  993.666.640201  996.816.727577  999.41 6.76576 1001.996.520175
1005.176.559641 1008.366.302435 1010.936.318871 1014.146.419885 1016.696.516535
1019.216.257981 1022.456.131716  1025.76.219831 1028.216.266894 1031.486.463554
1033.97 6.58636 1036.446.704932 1039.736.938327 1043.046.583048 1045.496.363355
1047.926.464112 1051.256.509693 1054.596.492799 1057.016.879647  1059.46.764329
1062.776.699128 1066.15 7.05378 1068.526.615536 1070.886.816121 1074.286.596465
1076.626.654968 1080.046.600485 1083.486.611983  1085.86.703542  1088.16.703364
1091.566.890389 1095.046.365082 1097.326.108542 1099.586.104549 1103.086.125782
1106.596.200291 1108.84 6.16669 1111.066.376547  1114.66.888419 1116.816.823857
1120.366.587055 1123.936.489574 1126.126.720788 1128.286.815931 1131.876.883187
1135.487.156588 1137.637.033715 1139.767.101669 1143.396.811024 1147.046.838494
1149.15 6.68716 1151.246.511702 1153.116.624816

Manning's n Values        num=      3
    Sta   n Val     Sta   n Val     Sta   n Val
    -40     .2     460    .03     680     .2
```

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 94 94 94 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 446 15.2 F
694.25 1153.11 15.2 F

BRIDGE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.75

INPUT
Description: NB
Distance from Upstream XS = 10
Deck/Roadway Width = 62.5
Weir Coefficient = 2.6
Upstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-41 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1154 15.2

Upstream Bridge Cross Section Data
Station Elevation Data num= 343
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-40 6.40475 -37.24 6.399 -37.026.398235 -31.486.389614 -25.96.267672
-25.726.265655 -25.546.264254 -19.966.117541 -19.86.120116 -14.26.079359
-8.57 6.29748 -8.446.299347 -8.316.305284 -2.686.683675 -2.576.686794
3.087.012018 8.776.919583 8.846.921832 8.916.919635 14.596.536195
14.646.532438 20.356.542585 26.16.220605 26.116.220217 26.126.220474
30.366.487984 31.87 6.58304 37.61 6.88196 37.636.881915 37.656.881639
43.396.760462 43.436.758618 49.156.448464 54.836.260639 54.916.260697
54.996.259161 60.676.426044 60.776.428965 66.436.325921 72.05 6.76737
72.196.768289 72.336.769689 77.947.109261 78.17.112264 83.77.031016
89.27 6.583 89.466.575857 89.656.579198 95.226.181042 95.436.172585
100.986.575974 106.496.550959 106.74 6.55113 106.996.567522 112.56.664949
117.976.762691 118.266.780375 118.556.769499 124.02 6.88309 129.466.984616
129.787.006915 130.117.015774 135.547.173774 135.897.185001 141.37.248809
146.677.243085 147.057.232946 152.417.197012 152.817.196423 153.217.197085
158.577.179951 163.897.234093 164.337.236252 169.647.340766 170.097.344185
170.55 7.34699 175.857.469349 181.127.507696 181.617.506649 186.867.305055
187.377.303405 187.897.290659 193.137.138133 198.347.011026 198.896.991798
204.086.865872 204.656.859518 205.226.858679 210.46.825923 215.566.734319
216.166.715126 216.776.707654 221.926.586567 222.556.581397 227.686.629734
232.786.537021 233.446.524528 234.116.505478 239.26.504333 239.896.489673
244.966.417924 2506.498955 250.726.512369 251.446.513701 256.486.468071
257.226.472039 262.246.717733 267.236.837183 2686.837797 268.786.861415
273.766.980472 274.566.975163 279.516.735236 284.446.738209 285.276.719759
286.11 6.71338 291.036.861556 291.896.891734 296.796.889187 301.676.927267
302.556.950416 303.446.990143 308.31 7.15539 309.227.148989 314.07 7.23408
318.897.236662 319.837.272815 320.787.271133 325.597.308398 326.567.297071
331.357.273354 332.347.332561 337.117.555247 341.857.625834 342.867.641699
347.597.627559 348.62 7.61434 349.67 7.64108 354.387.701519 359.077.595617
360.147.571332 361.22 7.55008 365.97.442764 3677.365368 371.667.071505
376.296.962797 377.426.913003 378.567.006341 383.187.296581 384.34 7.31621
388.94 7.29075 393.527.005053 394.7 6.92965 395.96.867858 400.466.976988
401.686.998838 406.227.026398 410.736.872643 411.976.853057 413.226.870495
417.736.918495 4196.953634 423.497.026543 427.957.020765 429.257.024062
430.566.980596 435.016.766422 436.346.688295 440.776.334496 442.126.276613
446.535.638418 447.95.484687 460 5 460.1 -5.18 480 -5.18
660 -5.18 679.9 -5.18 680 5 682.655.201958 686.27 6.51197
688.416.646765 690.576.395789 694.176.028631 696.356.031603 699.935.760584
703.495.806512 705.695.901203 707.915.912693 711.455.961146 713.695.971509
717.215.990309 720.726.055212 722.976.082868 725.256.130817 728.736.195405
731.026.266038 734.496.309402 737.94 6.29144 740.246.274554 742.576.240178
7466.245327 748.356.266367 751.766.240268 755.16 6.27674 757.526.253942
760.96.210955 763.286.191328 766.646.223729 769.046.303157 771.476.343992
774.8 6.32344 777.256.549578 780.567.120556 783.867.323772 786.327.537362
788.87.439013 792.087.919167 794.588.010237 797.84 7.53986 801.087.808455
803.597.897904 806.138.063661 809.358.175103 811.918.027006 815.117.873364
818.37.742838 820.877.416549 824.046.450529 826.636.309551 829.786.100852
832.395.714542 835.035.925725 838.155.892141 840.85.814042 843.915.882748
847.015.810428 849.675.774001 852.365.911799 855.436.110879 858.496.202652
861.196.296753 863.926.336125 866.956.283342 869.976.206295 872.76.162942
875.47 6.1759 878.466.089849 881.446.124307 884.225.761577 887.18 5.66601
889.985.603367 892.85.576531 895.74 5.67678 898.676.003618 901.516.169354
904.415.969446 907.275.999123 910.146.074927 913.036.166425 915.926.294439
918.796.310585 921.76.385173 924.556.361009 927.486.686382 930.316.855771
933.256.611907 936.066.621873 939.036.396754 941.826.462412 944.596.358266
947.586.322489 950.586.259845 953.346.032999 956.076.246696 959.16.442094
961.816.328462 964.856.318246 967.92 6.24518 970.616.370282 973.296.316515
976.38 6.34482 979.036.274142 982.146.248429 985.266.268067 987.9 6.36914
991.046.492695 993.666.640201 996.816.727577 999.41 6.76576 1001.996.520175
1005.176.559641 1008.366.302435 1010.936.318871 1014.146.419885 1016.696.516535
1019.216.257981 1022.456.131716 1025.76.219831 1028.216.266894 1031.486.463554
1033.97 6.58636 1036.446.704932 1039.736.938327 1043.046.583048 1045.496.363355

1047.926.464112 1051.256.509693 1054.596.492799 1057.016.879647 1059.46.764329
1062.776.699128 1066.15 7.05378 1068.526.615536 1070.886.816121 1074.286.596465
1076.626.654968 1080.046.600485 1083.486.611983 1085.86.703542 1088.16.703364
1091.566.890389 1095.046.365082 1097.326.108542 1099.586.104549 1103.086.125782
1106.596.200291 1108.84 6.16669 1111.066.376547 1114.66.888419 1116.816.823857
1120.366.587055 1123.936.489574 1126.126.720788 1128.286.815931 1131.876.883187
1135.487.156588 1137.637.033715 1139.767.101669 1143.396.811024 1147.046.838494
1149.15 6.68716 1151.246.511702 1153.116.624816

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-40 .2 460 .03 680 .2

Bank Sta: Left Right Coeff Contr. Expan.
460 680 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-40 446 15.2 F
694.25 1153.11 15.2 F

Downstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-21 15.2 455.9 15.2 456 15.2 9.2
684.25 15.2 9.2 684.35 15.2 1200 15.2

Downstream Bridge Cross Section Data
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749
79.04 5.82 81.15 5.819 84.8 5.85 88.36 5.88 90.55 5.88
94.06 5.9 96.31 5.909 98.6 5.914 102.07 5.915 105.46 5.893
107.83 5.902 111.16 5.957 113.59 5.955 116.07 6.015 119.35 6.047
122.55 6.001 125.11 5.951 128.25 5.972 130.87 5.999 133.54 5.995
136.63 5.995 139.65 5.995 142.39 5.967 145.35 6.01 148.15 6.064
151.01 6.052 153.91 6.021 156.75 6.078 159.66 6.084 162.64 6.012
165.42 5.945 168.14 5.985 171.18 5.992 174.29 6.096 176.94 6.073
179.54 6.067 182.7 6.019 185.93 6.051 188.46 6.052 191.76 6.015
194.22 6.012 196.64 5.993 199.98 5.999 202.34 5.994 205.74 6.035
209.22 5.986 211.5 6.054 213.74 6.021 217.26 6.011 219.43 6.018
223.01 6.016 226.68 6.087 228.77 6.061 230.82 5.997 234.53 5.941
236.52 5.997 240.29 6.074 244.15 6.09 246.06 6.094 247.92 6.13
251.82 6.123 253.62 6.125 257.58 6.167 261.62 6.141 263.34 6.143
265.02 6.134 269.1 6.094 270.72 6.109 274.86 6.092 279.08 6.181
280.62 6.17 282.12 6.162 286.38 6.116 287.82 6.152 292.13 6.32
296.54 6.32 297.89 6.313 299.21 6.301 303.65 6.384 304.91 6.413
309.41 6.214 314.01 6.016 315.17 6.003 316.3 5.973 320.93 5.867
322 5.835 326.69 5.859 331.48 6.021 332.45 6.017 333.4 5.997
338.21 6.159 339.1 6.17 343.97 6.204 348.94 6.277 349.73 6.307
350.5 6.307 355.48 6.252 356.19 6.272 361.24 6.207 366.4 6.226
367 6.211 367.59 6.211 372.76 6.268 373.29 6.262 378.52 6.203
383.87 6.304 384.28 6.308 384.69 6.295 390.04 6.229 395.51 6.305
395.8 6.309 401.34 6.384 401.56 6.387 401.79 6.389 407.32 6.268
412.98 6.54 413.08 6.541 418.81 6.612 418.85 6.614 418.88 6.613
422.55 6.478 424.57 6.404 424.6 6.404 430.27 6.549 430.36 6.55
430.44 6.549 436.12 6.532 441.67 6.403 441.88 6.407 442.09 6.406
447.64 6.389 453.07 6.385 453.4 6.389 453.73 6.385 459.16 6.331
459.55 6.328 464.92 6.356 465.38 6.356 470.68 6.287 475.87 6.396
476.44 6.422 477.02 6.437 482.2 6.644 487.26 6.749 487.95 6.743
488.66 6.741 492 6 492.1 -5.18 647.9 -5.18 648 6
654.97 6.693 658.94 6.731 660.73 6.732 662.55 6.727 663.1 6.721
666.49 6.682 670.45 6.8 672.25 6.83 674.05 6.883 678.01 6.775
681.99 6.549 683.76 6.491 685.53 6.5 689.52 6.452 693.54 6.392
695.28 6.352 697.02 6.38 701.04 6.456 702.76 6.485 706.8 6.443
708.51 6.421 712.56 6.488 714.26 6.48 718.32 6.406 720 6.419
724.08 6.519 725.75 6.402 729.84 6.393 731.49 6.347 735.6 6.297
737.24 6.256 741.36 6.212 745.51 6.211 747.12 6.257 748.73 6.295
752.87 6.399 757.05 6.434 758.63 6.46 760.21 6.454 764.39 6.422
768.59 6.455 770.15 6.451 771.7 6.459 775.91 6.458 780.14 6.538
781.67 6.544 783.2 6.575 787.43 6.747 791.69 6.725 793.19 6.744
794.69 6.774 798.95 6.819 800.43 6.792 804.71 6.799 806.18 6.804
810.47 6.747 811.92 6.746 816.22 6.859 817.66 6.836 821.98 6.716
823.41 6.698 827.74 6.674 832.1 6.669 833.5 6.68 834.9 6.669
839.26 6.672 843.65 6.648 845.02 6.625 846.39 6.627 850.78 6.574
855.2 6.59 856.54 6.575 857.88 6.592 862.3 6.551 863.63 6.537
868.06 6.537 872.52 6.472 873.82 6.47 875.12 6.466 879.58 6.517
880.86 6.513 885.33 6.51 886.6 6.507 891.09 6.473 892.35 6.474
896.85 6.478 898.09 6.477 902.61 6.508 903.84 6.52 908.37 6.516
909.58 6.502 914.13 6.486 918.71 6.49 919.89 6.491 921.08 6.501
925.65 6.542 926.82 6.538 931.41 6.521 932.57 6.523 937.17 6.501
938.31 6.501 942.93 6.451 944.06 6.443 948.68 6.434 949.79 6.432
954.44 6.436 959.12 6.412 960.2 6.426 961.29 6.428 965.96 6.42

967.03 6.405 971.72 6.4 972.78 6.415 977.48 6.441 982.21 6.426
983.24 6.419 984.27 6.41 989 6.394 990.02 6.389 994.76 6.351
999.53 6.355 1000.52 6.351 1001.51 6.359 1006.28 6.413 1011.08 6.356
1012.03 6.34 1012.99 6.347 1017.79 6.38 1018.73 6.38 1023.55 6.339
1028.4 6.325 1029.31 6.331 1030.23 6.329 1035.07 6.37 1035.97 6.37
1040.83 6.338 1041.72 6.336 1046.59 6.315 1047.46 6.313 1052.35 6.317
1053.21 6.315 1058.11 6.341 1058.96 6.367 1063.87 6.355 1064.7 6.34
1069.63 6.333 1074.59 6.41 1075.39 6.409 1076.19 6.417 1081.14 6.443
1081.93 6.444 1086.9 6.429 1087.68 6.432 1092.66 6.514 1093.42 6.515
1098.42 6.464 1099.17 6.456 1104.18 6.364 1104.91 6.362 1109.94 6.343
1115 6.361 1115.7 6.352 1116.4 6.352 1121.46 6.325 1122.15 6.319
1127.22 6.291 1127.9 6.292 1132.98 6.314 1138.1 6.354 1138.74 6.355
1139.39 6.362 1144.49 6.356 1145.12 6.355 1150.25 6.34 1155.41 6.406
1156.01 6.407 1156.61 6.403 1161.77 6.414 1162.36 6.418 1167.53 6.424
1168.11 6.431 1168.83 6.436

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-20 .2 492 .03 648 .2

Bank Sta: Left Right Coeff Contr. Expan.
492 648 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-20 456 15.2 F
684.25 1168.83 15.2 F

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 2

Pier Data
Pier Station Upstream= 532 Downstream= 532
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Pier Data
Pier Station Upstream= 608.1 Downstream= 608.1
Upstream num= 2
Width Elev Width Elev
2 -6 2 20
Downstream num= 2
Width Elev Width Elev
2 -6 2 20

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Highest Energy Answer

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4.6

INPUT
Description:
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749

```
 79.04   5.82  81.15  5.819   84.8   5.85  88.36   5.88  90.55   5.88
 94.06    5.9  96.31  5.909   98.6  5.914 102.07  5.915 105.46  5.893
107.83  5.902 111.16  5.957 113.59  5.955 116.07  6.015 119.35  6.047
122.55  6.001 125.11  5.951 128.25  5.972 130.87  5.999 133.54  5.995
136.63  5.995 139.65  5.995 142.39  5.967 145.35   6.01 148.15  6.064
151.01  6.052 153.91  6.021 156.75  6.078 159.66  6.084 162.64  6.012
165.42  5.945 168.14  5.985 171.18  5.992 174.29  6.096 176.94  6.073
179.54  6.067  182.7  6.019 185.93  6.051 188.46  6.052 191.76  6.015
194.22  6.012 196.64  5.993 199.98  5.999 202.34  5.994 205.74  6.035
209.22  5.986  211.5  6.054 213.74  6.021 217.26  6.011 219.43  6.018
223.01  6.016 226.68  6.087 228.77  6.061 230.82  5.997 234.53  5.941
236.52  5.997 240.29  6.074 244.15   6.09 246.06  6.094 247.92   6.13
251.82  6.123 253.62  6.125 257.58  6.167 261.62  6.141 263.34  6.143
265.02  6.134  269.1  6.094 270.72  6.109 274.86  6.092 279.08  6.181
280.62   6.17 282.12  6.162 286.38  6.116 287.82  6.152 292.13   6.32
296.54   6.32 297.89  6.313 299.21  6.301 303.65  6.384 304.91  6.413
309.41  6.214 314.01  6.016 315.17  6.003  316.3  5.973 320.93  5.867
   322  5.835 326.69  5.859 331.48  6.021 332.45  6.017  333.4  5.997
338.21  6.159  339.1   6.17 343.97  6.204 348.94  6.277 349.73  6.307
 350.5  6.307 355.48  6.252 356.19  6.272 361.24  6.207  366.4  6.226
   367  6.211 367.59  6.211 372.76  6.268 373.29  6.262 378.52  6.203
383.87  6.304 384.28  6.308 384.69  6.295 390.04  6.229 395.51  6.305
 395.8  6.309 401.34  6.384 401.56  6.387 401.79  6.389 407.32  6.268
412.98   6.54 413.08  6.541 418.81  6.612 418.85  6.614 418.88  6.613
422.55  6.478 424.57  6.404  424.6  6.404 430.27  6.549 430.36   6.55
430.44  6.549 436.12  6.532 441.67  6.403 441.88  6.407 442.09  6.406
447.64  6.389 453.07  6.385  453.4  6.389 453.73  6.385 459.16  6.331
459.55  6.328 464.92  6.356 465.38  6.356 470.68  6.287 475.87  6.396
476.44  6.422 477.02  6.437  482.2  6.644 487.26  6.749 487.95  6.743
488.66  6.741   492     6  492.1  -5.18  647.9  -5.18   648     6
654.97  6.693 658.94  6.731 660.73  6.732 662.55  6.727  663.1  6.721
666.49  6.682 670.45    6.8 672.25   6.83 674.05  6.883 678.01  6.775
681.99  6.549 683.76  6.491 685.53    6.5 689.52  6.452 693.54  6.392
695.28  6.352 697.02   6.38 701.04  6.456 702.76  6.485  706.8  6.443
708.51  6.421 712.56  6.488 714.26   6.48 718.32  6.406    720  6.419
724.08  6.519 725.75  6.402 729.84  6.393 731.49  6.347  735.6  6.297
737.24  6.256 741.36  6.212 745.51  6.211 747.12  6.257 748.73  6.295
752.87  6.399 757.05  6.434 758.63   6.46 760.21  6.454 764.39  6.422
768.59  6.455 770.15  6.451  771.7  6.459 775.91  6.458 780.14  6.538
781.67  6.544  783.2  6.575 787.43  6.747 791.69  6.725 793.19  6.744
794.69  6.774 798.95  6.819 800.43  6.792 804.71  6.799 806.18  6.804
810.47  6.747 811.92  6.746 816.22  6.859 817.66  6.836 821.98  6.716
823.41  6.698 827.74  6.674  832.1  6.669  833.5   6.68  834.9  6.669
839.26  6.672 843.65  6.648 845.02  6.625 846.39  6.627 850.78  6.574
 855.2   6.59 856.54  6.575 857.88  6.592  862.3  6.551 863.63  6.537
868.06  6.537 872.52  6.472 873.82   6.47 875.12  6.466 879.58  6.517
880.86  6.513 885.33   6.51  886.6  6.507 891.09  6.473 892.35  6.474
896.85  6.478 898.09  6.477 902.61  6.508 903.84   6.52 908.37  6.516
909.58  6.502 914.13  6.486 918.71   6.49 919.89  6.491 921.08  6.501
925.65  6.542 926.82  6.538 931.41  6.521 932.57  6.523 937.17  6.501
938.31  6.501 942.93  6.451 944.06  6.443 948.68  6.434 949.79  6.432
954.44  6.436 959.12  6.412  960.2  6.426 961.29  6.428 965.96   6.42
967.03  6.405 971.72    6.4 972.78  6.415 977.48  6.441 982.21  6.426
983.24  6.419 984.27   6.41    989  6.394 990.02  6.389 994.76  6.351
999.53  6.355 1000.52  6.351 1001.51  6.359 1006.28  6.413 1011.08  6.356
1012.03   6.34 1012.99  6.347 1017.79   6.38 1018.73   6.38 1023.55  6.339
 1028.4  6.325 1029.31  6.331 1030.23  6.329 1035.07   6.37 1035.97   6.37
1040.83  6.338 1041.72  6.336 1046.59  6.315 1047.46  6.313 1052.35  6.317
1053.21  6.315 1058.11  6.341 1058.96  6.367 1063.87  6.355  1064.7   6.34
1069.63  6.333 1074.59   6.41 1075.39  6.409 1076.19  6.417 1081.14  6.443
1081.93  6.444  1086.9  6.429 1087.68  6.432 1092.66  6.514 1093.42  6.515
1098.42  6.464 1099.17  6.456 1104.18  6.364 1104.91  6.362 1109.94  6.343
  1115  6.361  1115.7  6.352  1116.4  6.352 1121.46  6.325 1122.15  6.319
1127.22  6.291  1127.9  6.292 1132.98  6.314  1138.1  6.354 1138.74  6.355
1139.39  6.362 1144.49  6.356 1145.12  6.355 1150.25   6.34 1155.41  6.406
1156.01  6.407 1156.61  6.403 1161.77  6.414 1162.36  6.418 1167.53  6.424
1168.11  6.431 1168.83  6.436

Manning's n Values        num=      3
   Sta   n Val    Sta   n Val    Sta   n Val
   -20     .2    492    .03    648     .2

Bank Sta: Left   Right    Lengths: Left Channel   Right     Coeff Contr.   Expan.
         492    648              1      1      1           .3      .5
Ineffective Flow     num=      2
  Sta L   Sta R    Elev  Permanent
   -20    456   15.2      F
 684.25 1168.83   15.2      F

CROSS SECTION


RIVER: GatorSlough
REACH: GatorSlough       RS: 4.59

INPUT
Description: dup RS 4.6
Station Elevation Data    num=    367
```

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
-20	5.479	-18.88	5.477	-17.83	5.537	-13.12	5.531	-12	5.527
-7.36	5.518	-6.18	5.524	-1.6	5.527	2.89	5.568	4.16	5.556
5.46	5.558	9.92	5.567	11.29	5.575	15.68	5.494	19.98	5.537
21.44	5.533	22.93	5.551	27.19	5.601	28.74	5.591	32.95	5.577
37.07	5.52	38.71	5.512	42.77	5.565	44.47	5.581	46.21	5.578
50.23	5.588	54.17	5.657	55.99	5.686	59.87	5.704	61.75	5.719
63.68	5.751	67.51	5.747	71.27	5.738	73.28	5.708	76.97	5.749
79.04	5.82	81.15	5.819	84.8	5.85	88.36	5.88	90.55	5.88
94.06	5.9	96.31	5.909	98.6	5.914	102.07	5.915	105.46	5.893
107.83	5.902	111.16	5.957	113.59	5.955	116.07	6.015	119.35	6.047
122.55	6.001	125.11	5.951	128.25	5.972	130.87	5.999	133.54	5.995
136.63	5.995	139.65	5.995	142.39	5.967	145.35	6.01	148.15	6.064
151.01	6.052	153.91	6.021	156.75	6.078	159.66	6.084	162.64	6.012
165.42	5.945	168.14	5.985	171.18	5.992	174.29	6.096	176.94	6.073
179.54	6.067	182.7	6.019	185.93	6.051	188.46	6.052	191.76	6.015
194.22	6.012	196.64	5.993	199.98	5.999	202.34	5.994	205.74	6.035
209.22	5.986	211.5	6.054	213.74	6.021	217.26	6.011	219.43	6.018
223.01	6.016	226.68	6.087	228.77	6.061	230.82	5.997	234.53	5.941
236.52	5.997	240.29	6.074	244.15	6.09	246.06	6.094	247.92	6.13
251.82	6.123	253.62	6.125	257.58	6.167	261.62	6.141	263.34	6.143
265.02	6.134	269.1	6.094	270.72	6.109	274.86	6.092	279.08	6.181
280.62	6.17	282.12	6.162	286.38	6.116	287.82	6.152	292.13	6.32
296.54	6.32	297.89	6.313	299.21	6.301	303.65	6.384	304.91	6.413
309.41	6.214	314.01	6.016	315.17	6.003	316.3	5.973	320.93	5.867
322	5.835	326.69	5.859	331.48	6.021	332.45	6.017	333.4	5.997
338.21	6.159	339.1	6.17	343.97	6.204	348.94	6.277	349.73	6.307
350.5	6.307	355.48	6.252	356.19	6.272	361.24	6.207	366.4	6.226
367	6.211	367.59	6.211	372.76	6.268	373.29	6.262	378.52	6.203
383.87	6.304	384.28	6.308	384.69	6.295	390.04	6.229	395.51	6.305
395.8	6.309	401.34	6.384	401.56	6.387	401.79	6.389	407.32	6.268
412.98	6.54	413.08	6.541	418.81	6.612	418.85	6.614	418.88	6.613
422.55	6.478	424.57	6.404	424.6	6.404	430.27	6.549	430.36	6.55
430.44	6.549	436.12	6.532	441.67	6.403	441.88	6.407	442.09	6.406
447.64	6.389	453.07	6.385	453.4	6.389	453.73	6.385	459.16	6.331
459.55	6.328	464.92	6.356	465.38	6.356	470.68	6.287	475.87	6.396
476.44	6.422	477.02	6.437	482.2	6.644	487.26	6.749	487.95	6.743
488.66	6.741	492	6	492.1	-5.18	647.9	-5.18	648	6
654.97	6.693	658.94	6.731	660.73	6.732	662.55	6.727	663.1	6.721
666.49	6.682	670.45	6.8	672.25	6.83	674.05	6.883	678.01	6.775
681.99	6.549	683.76	6.491	685.53	6.5	689.52	6.452	693.54	6.392
695.28	6.352	697.02	6.38	701.04	6.456	702.76	6.485	706.8	6.443
708.51	6.421	712.56	6.488	714.26	6.48	718.32	6.406	720	6.419
724.08	6.519	725.75	6.402	729.84	6.393	731.49	6.347	735.6	6.297
737.24	6.256	741.36	6.212	745.51	6.211	747.12	6.257	748.73	6.295
752.87	6.399	757.05	6.434	758.63	6.46	760.21	6.454	764.39	6.422
768.59	6.455	770.15	6.451	771.7	6.459	775.91	6.458	780.14	6.538
781.67	6.544	783.2	6.575	787.43	6.747	791.69	6.725	793.19	6.744
794.69	6.774	798.95	6.819	800.43	6.792	804.71	6.799	806.18	6.804
810.47	6.747	811.92	6.746	816.22	6.859	817.66	6.836	821.98	6.716
823.41	6.698	827.74	6.674	832.1	6.669	833.5	6.68	834.9	6.669
839.26	6.672	843.65	6.648	845.02	6.625	846.39	6.627	850.78	6.574
855.2	6.59	856.54	6.575	857.88	6.592	862.3	6.551	863.63	6.537
868.06	6.537	872.52	6.472	873.82	6.47	875.12	6.466	879.58	6.517
880.86	6.513	885.33	6.51	886.6	6.507	891.09	6.473	892.35	6.474
896.85	6.478	898.09	6.477	902.61	6.508	903.84	6.52	908.37	6.516
909.58	6.502	914.13	6.486	918.71	6.49	919.89	6.491	921.08	6.501
925.65	6.542	926.82	6.538	931.41	6.521	932.57	6.523	937.17	6.501
938.31	6.501	942.93	6.451	944.06	6.443	948.68	6.434	949.79	6.432
954.44	6.436	959.12	6.412	960.2	6.426	961.29	6.428	965.96	6.42
967.03	6.405	971.72	6.4	972.78	6.415	977.48	6.441	982.21	6.426
983.24	6.419	984.27	6.41	989	6.394	990.02	6.389	994.76	6.351
999.53	6.355	1000.52	6.351	1001.51	6.359	1006.28	6.413	1011.08	6.356
1012.03	6.34	1012.99	6.347	1017.79	6.38	1018.73	6.38	1023.55	6.339
1028.4	6.325	1029.31	6.331	1030.23	6.329	1035.07	6.37	1035.97	6.37
1040.83	6.338	1041.72	6.336	1046.59	6.315	1047.46	6.313	1052.35	6.317
1053.21	6.315	1058.11	6.341	1058.96	6.367	1063.87	6.355	1064.7	6.34
1069.63	6.333	1074.59	6.41	1075.39	6.409	1076.19	6.417	1081.14	6.443
1081.93	6.444	1086.9	6.429	1087.68	6.432	1092.66	6.514	1093.42	6.515
1098.42	6.464	1099.17	6.456	1104.18	6.364	1104.91	6.362	1109.94	6.343
1115	6.361	1115.7	6.352	1116.4	6.352	1121.46	6.325	1122.15	6.319
1127.22	6.291	1127.9	6.292	1132.98	6.314	1138.1	6.354	1138.74	6.355
1139.39	6.362	1144.49	6.356	1145.12	6.355	1150.25	6.34	1155.41	6.406
1156.01	6.407	1156.61	6.403	1161.77	6.414	1162.36	6.418	1167.53	6.424
1168.11	6.431	1168.83	6.436						

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
-20	.2	492	.03	648	.2

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
492	648	124	124	.3	.5

Ineffective Flow num= 2

Sta L	Sta R	Elev	Permanent
-20	456	9.62	F
684.25	1168.83	9.62	F

BRIDGE

RIVER: GatorSlough
REACH: GatorSlough RS: 4.35

INPUT
Description: SB
Distance from Upstream XS = 20
Deck/Roadway Width = 56
Weir Coefficient = 2.6
Upstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-21 9.62 491.9 9.62 492 9.62 7.12
648 9.62 7.12 648.1 9.62 1200 9.62

Upstream Bridge Cross Section Data
Station Elevation Data num= 367
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
-20 5.479 -18.88 5.477 -17.83 5.537 -13.12 5.531 -12 5.527
-7.36 5.518 -6.18 5.524 -1.6 5.527 2.89 5.568 4.16 5.556
5.46 5.558 9.92 5.567 11.29 5.575 15.68 5.494 19.98 5.537
21.44 5.533 22.93 5.551 27.19 5.601 28.74 5.591 32.95 5.577
37.07 5.52 38.71 5.512 42.77 5.565 44.47 5.581 46.21 5.578
50.23 5.588 54.17 5.657 55.99 5.686 59.87 5.704 61.75 5.719
63.68 5.751 67.51 5.747 71.27 5.738 73.28 5.708 76.97 5.749
79.04 5.82 81.15 5.819 84.8 5.85 88.36 5.88 90.55 5.88
94.06 5.9 96.31 5.909 98.6 5.914 102.07 5.915 105.46 5.893
107.83 5.902 111.16 5.957 113.59 5.955 116.07 6.015 119.35 6.047
122.55 6.001 125.11 5.951 128.25 5.972 130.87 5.999 133.54 5.995
136.63 5.995 139.65 5.995 142.39 5.967 145.35 6.01 148.15 6.064
151.01 6.052 153.91 6.021 156.75 6.078 159.66 6.084 162.64 6.012
165.42 5.945 168.14 5.985 171.18 5.992 174.29 6.096 176.94 6.073
179.54 6.067 182.7 6.019 185.93 6.051 188.46 6.052 191.76 6.015
194.22 6.012 196.64 5.993 199.98 5.999 202.34 5.994 205.74 6.035
209.22 5.986 211.5 6.054 213.74 6.021 217.26 6.011 219.43 6.018
223.01 6.016 226.68 6.087 228.77 6.061 230.82 5.997 234.53 5.941
236.52 5.997 240.29 6.074 244.15 6.09 246.06 6.094 247.92 6.13
251.82 6.123 253.62 6.125 257.58 6.167 261.62 6.141 263.34 6.143
265.02 6.134 269.1 6.094 270.72 6.109 274.86 6.092 279.08 6.181
280.62 6.17 282.12 6.162 286.38 6.116 287.82 6.152 292.13 6.32
296.54 6.32 297.89 6.313 299.21 6.301 303.65 6.384 304.91 6.413
309.41 6.214 314.01 6.016 315.17 6.003 316.3 5.973 320.93 5.867
322 5.835 326.69 5.859 331.48 6.021 332.45 6.017 333.4 5.997
338.21 6.159 339.1 6.17 343.97 6.204 348.94 6.277 349.73 6.307
350.5 6.307 355.48 6.252 356.19 6.272 361.24 6.207 366.4 6.226
367 6.211 367.59 6.211 372.76 6.268 373.29 6.262 378.52 6.203
383.87 6.304 384.28 6.308 384.69 6.295 390.04 6.229 395.51 6.305
395.8 6.309 401.34 6.384 401.56 6.387 401.79 6.389 407.32 6.268
412.98 6.54 413.08 6.541 418.81 6.612 418.85 6.614 418.88 6.613
422.55 6.478 424.57 6.404 424.6 6.404 430.27 6.549 430.36 6.55
430.44 6.549 436.12 6.532 441.67 6.403 441.88 6.407 442.09 6.406
447.64 6.389 453.07 6.385 453.4 6.389 453.73 6.385 459.16 6.331
459.55 6.328 464.92 6.356 465.38 6.356 470.68 6.287 475.87 6.396
476.44 6.422 477.02 6.437 482.2 6.644 487.26 6.749 487.95 6.743
488.66 6.741 492 6 492.1 -5.18 647.9 -5.18 648 6
654.97 6.693 658.94 6.731 660.73 6.732 662.55 6.727 663.1 6.721
666.49 6.682 670.45 6.8 672.25 6.83 674.05 6.883 678.01 6.775
681.99 6.549 683.76 6.491 685.53 6.5 689.52 6.452 693.54 6.392
695.28 6.352 697.02 6.38 701.04 6.456 702.76 6.485 706.8 6.443
708.51 6.421 712.56 6.488 714.26 6.48 718.32 6.406 720 6.419
724.08 6.519 725.75 6.402 729.84 6.393 731.49 6.347 735.6 6.297
737.24 6.256 741.36 6.212 745.51 6.211 747.12 6.257 748.73 6.295
752.87 6.399 757.05 6.434 758.63 6.46 760.21 6.454 764.39 6.422
768.59 6.455 770.15 6.451 771.7 6.459 775.91 6.458 780.14 6.538
781.67 6.544 783.2 6.575 787.43 6.747 791.69 6.725 793.19 6.744
794.69 6.774 798.95 6.819 800.43 6.792 804.71 6.799 806.18 6.804
810.47 6.747 811.92 6.746 816.22 6.859 817.66 6.836 821.98 6.716
823.41 6.698 827.74 6.674 832.1 6.669 833.5 6.68 834.9 6.669
839.26 6.672 843.65 6.648 845.02 6.625 846.39 6.627 850.78 6.574
855.2 6.59 856.54 6.575 857.88 6.592 862.3 6.551 863.63 6.537
868.06 6.537 872.52 6.472 873.82 6.47 875.12 6.466 879.58 6.517
880.86 6.513 885.33 6.51 886.6 6.507 891.09 6.473 892.35 6.474
896.85 6.478 898.09 6.477 902.61 6.508 903.84 6.52 908.37 6.516
909.58 6.502 914.13 6.486 918.71 6.49 919.89 6.491 921.08 6.501
925.65 6.542 926.82 6.538 931.41 6.521 932.57 6.523 937.17 6.501
938.31 6.501 942.93 6.451 944.06 6.443 948.68 6.434 949.79 6.432
954.44 6.436 959.12 6.412 960.2 6.426 961.29 6.428 965.96 6.42
967.03 6.405 971.72 6.4 972.78 6.415 977.48 6.441 982.21 6.426
983.24 6.419 984.27 6.41 989 6.394 990.02 6.389 994.76 6.351
999.53 6.355 1000.52 6.351 1001.51 6.359 1006.28 6.413 1011.08 6.356
1012.03 6.34 1012.99 6.347 1017.79 6.38 1018.73 6.38 1023.55 6.339
1028.4 6.325 1029.31 6.331 1030.23 6.329 1035.07 6.37 1035.97 6.37
1040.83 6.338 1041.72 6.336 1046.59 6.315 1047.46 6.313 1052.35 6.317
1053.21 6.315 1058.11 6.341 1058.96 6.367 1063.87 6.355 1064.7 6.34
1069.63 6.333 1074.59 6.41 1075.39 6.409 1076.19 6.417 1081.14 6.443
1081.93 6.444 1086.9 6.429 1087.68 6.432 1092.66 6.514 1093.42 6.515
1098.42 6.464 1099.17 6.456 1104.18 6.364 1104.91 6.362 1109.94 6.343

1115 6.361 1115.7 6.352 1116.4 6.352 1121.46 6.325 1122.15 6.319
1127.22 6.291 1127.9 6.292 1132.98 6.314 1138.1 6.354 1138.74 6.355
1139.39 6.362 1144.49 6.356 1145.12 6.355 1150.25 6.34 1155.41 6.406
1156.01 6.407 1156.61 6.403 1161.77 6.414 1162.36 6.418 1167.53 6.424
1168.11 6.431 1168.83 6.436

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
-20 .2 492 .03 648 .2

Bank Sta: Left Right Coeff Contr. Expan.
492 648 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
-20 456 9.62 F
684.25 1168.83 9.62 F

Downstream Deck/Roadway Coordinates
num= 6
Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord Sta Hi Cord Lo Cord
-21 9.62 491.9 9.62 492 9.62 7.12
648 9.62 7.12 648.1 9.62 1200 9.62

Downstream Bridge Cross Section Data
Station Elevation Data num= 336
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.013536 4.627.117898 4.987.129236 5.337.123742 10.74 7.06831
11.037.045314 16.56.672902 22.086.480585 22.266.469163 22.446.466109
28.026.283257 28.146.279891 33.786.148354 39.16.231291 39.546.238067
39.556.238137 45.296.413932 50.936.253401 51.056.252393 56.636.224466
56.816.217647 62.33 6.09241 62.576.089359 68.036.057948 68.336.055989
68.646.057269 74.096.125669 74.466.128069 79.856.175917 85.136.131151
85.616.135355 90.836.211596 91.38 6.21467 96.536.307469 97.146.309958
102.236.296508 102.96.293833 107.936.290092 108.656.295126 109.386.297964
114.416.355277 115.26.358286 120.176.378702 125.036.395321 125.936.403618
130.736.415321 131.696.419686 132.676.417501 137.456.440517 142.136.554865
143.216.573679 144.316.583508 148.976.651402 150.136.655237 154.736.696432
159.236.680517 160.496.686668 161.786.686028 166.25 6.65306 167.66.647576
172.016.652355 176.326.635281 177.766.651303 179.236.658226 183.526.693185
185.056.691573 189.286.695109 193.426.697133 195.046.702182 199.126.687279
200.86.677622 202.516.687095 206.56 6.69487 210.526.705235 212.326.729802
214.166.720155 218.086.753465 219.986.766269 223.846.777088 227.636.743019
229.66.745677 231.62 6.73788 235.366.743994 237.446.725008 241.116.724918
244.726.702303 246.876.711846 249.086.713564 252.636.753021 254.9 6.74197
258.396.720082 261.826.711729 264.156.740036 267.526.739932 269.916.738597
273.226.725852 275.686.721985 278.926.727015 281.446.716796 2846.639936
287.26.554258 290.326.399265 292.966.288069 296.026.210798 298.72 6.19395
301.72 6.19185 304.486.216494 307.426.482284 310.236.614634 313.116.700326
315.996.890442 318.926.879824 321.756.909406 324.526.875915 327.516.847575
330.22 6.74907 333.276.659445 335.926.596866 339.036.495471 341.626.611098
344.796.695492 347.32 6.86416 350.557.137008 353.85 6.93895 356.31 6.7909
358.726.778072 362.076.761401 364.426.775408 367.836.761639 370.126.740871
373.586.731915 375.816.735065 379.346.710323 381.51 6.69813 385.16.723934
388.776.705092 390.866.704043 392.91 6.72117 396.62 6.72873 398.616.733131
402.386.744774 404.316.739341 408.146.720503 410.016.700255 413.96.741404
417.876.714475 419.666.730922 423.76.756803 425.426.744149 427.126.774343
431.186.769161 435.346.734297 436.946.725238 438.516.729741 442.696.796102
444.216.881773 448.457.110452 452.796.895158 454.216.828222 455.61 6.64249
460 6 480 -5.18 660 -5.18 680 6 706.39 6.02978
707.636.065577 708.896.024083 713.396.016923 717.795.948747 719.155.916333
720.535.982049 724.91 6.11976 729.196.178744 730.676.229609 734.96.151528
736.436.120185 7386.169028 742.196.213191 746.36.252873 747.956.433785
7526.885107 753.716.872463 755.466.892992 759.477.048115 763.47.080067
765.237.039326 767.17.000651 770.98 6.7321 774.79 6.45656 776.746.313753
780.496.332604 782.56.327547 784.56 6.31667 788.26 6.26781 791.896.201074
794.026.219452 796.26.147838 799.786.134684 802.026.142399 805.546.095258
807.846.126758 811.36.200877 814.696.261695 817.066.276814 820.396.356381
822.836.358634 825.316.382925 828.596.355306 831.136.355063 834.346.385139
836.946.422173 840.16.415528 843.196.436909 845.86 6.44415 848.896.483392
851.626.415771 854.41 6.39416 857.38 6.36807 860.236.275272 863.146.164995
866.056.393271 868.96.362206 871.696.354553 874.666.200531 877.396.432463
880.426.667475 883.51 6.94614 886.187.086906 889.336.821873 891.946.806644
895.166.860425 897.76.968534 900.196.767302 903.456.725206 905.886.737371
909.216.794893 912.616.792857 914.976.828354 918.436.838322 920.736.810176
924.256.849614 926.496.882003 928.687.078928 932.257.127086 934.387.091448
938.017.293641 941.727.285337 943.777.274018 945.797.189181 949.537.085202
951.497.023186 955.296.772801 959.186.796497 961.056.725225 962.886.726119
966.8 6.5834 968.58 6.54046 972.566.567066 976.636.556079 978.326.577935
982.466.662205 984.086.709423 988.286.825852 989.846.856197 991.386.798488
995.66.710093 997.086.701507 1001.366.540529 1005.746.491599 1007.126.503945
1008.48 6.49885 1012.896.509344 1014.186.521883 1018.656.540792 1023.216.491251
1024.416.477779 1025.586.461524 1030.16 6.46092 1031.276.454761 1035.926.561113
1040.666.638438 1041.686.657149 1042.686.669239 1047.446.603306 1048.386.614744
1053.26.518749 1058.126.550673 1058.966.522362 1059.786.520061 1064.726.405599
1065.486.381188 1070.486.365843 1075.596.291648 1076.246.294163 1081.416.314988
10826.301828 1087.236.205415 1087.76 6.21231 1088.286.211489 1093.526.199525
1093.986.197679 1099.276.258206 1104.686.283366 1105.036.290051 1105.376.286088
1110.79 6.23149 1111.076.226769 1116.556.235404 1122.156.186904 1122.316.183959

1122.476.186684 1128.076.174533 1128.176.171877 1133.836.164007 1137.86.121954
1139.596.103349 1139.616.103128 1145.356.065072 1150.976.167377 1151.116.166425
1151.256.167364 1156.876.233702 1157.076.234755 1162.626.249385 1168.076.212687
1168.38 6.21166 1168.716.211231 1174.156.163875 1179.476.140606 1179.916.138773
1185.176.109379 1185.676.103643 1190.876.102267 1191.436.101143 1191.996.106309
1192.176.108284

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 460 .03 680 .2

Bank Sta: Left Right Coeff Contr. Expan.
460 680 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent
0 460 9.62 F
733 1192.17 9.62 F

Upstream Embankment side slope = 2 horiz. to 1.0 vertical
Downstream Embankment side slope = 2 horiz. to 1.0 vertical
Maximum allowable submergence for weir flow = .98
Elevation at which weir flow begins =
Energy head used in spillway design =
Spillway height used in design =
Weir crest shape = Broad Crested

Number of Piers = 5

Pier Data
Pier Station Upstream= 520 Downstream= 520
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 545 Downstream= 545
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 570 Downstream= 570
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 595 Downstream= 595
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Pier Data
Pier Station Upstream= 620 Downstream= 620
Upstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12
Downstream num= 2
Width Elev Width Elev
1.5 -10 1.5 7.12

Number of Bridge Coefficient Sets = 1

Low Flow Methods and Data
Energy
Selected Low Flow Methods = Highest Energy Answer

High Flow Method
Energy Only

Additional Bridge Parameters
Add Friction component to Momentum
Do not add Weight component to Momentum
Class B flow critical depth computations use critical depth
inside the bridge at the upstream end
Criteria to check for pressure flow = Upstream energy grade line

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 4

INPUT
Description:
Station Elevation Data num= 336
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.013536 4.627.117898 4.987.129236 5.337.123742 10.74 7.06831
11.037.045314 16.56.672902 22.086.480585 22.266.469163 22.446.466109
28.026.283257 28.146.279891 33.786.148354 39.16.231291 39.546.238067
39.556.238137 45.296.413932 50.936.253401 51.056.252393 56.636.224466
56.816.217647 62.33 6.09241 62.576.089359 68.036.057948 68.336.055989
68.646.057269 74.096.125669 74.466.128069 79.856.175917 85.136.131151
85.616.135355 90.836.211596 91.38 6.21467 96.536.307469 97.146.309958
102.236.296508 102.96.293833 107.936.290092 108.656.295126 109.386.297964
114.416.355277 115.26.358286 120.176.378702 125.036.395321 125.936.403618
130.736.415321 131.696.419686 132.676.417501 137.456.440517 142.136.554865
143.216.573679 144.316.583508 148.976.651402 150.136.655237 154.736.696432
159.236.680517 160.496.686668 161.786.686028 166.25 6.65306 167.66.647576
172.016.652355 176.326.635281 177.766.651303 179.236.658226 183.526.693185
185.056.691573 189.286.695109 193.426.697133 195.046.702182 199.126.687279
200.86.677622 202.516.687095 206.56 6.69487 210.526.705235 212.326.729802
214.166.720155 218.086.753465 219.986.766269 223.846.777088 227.636.743019
229.66.745677 231.62 6.73788 235.366.743994 237.446.725008 241.116.724918
244.726.702303 246.876.711846 249.086.713564 252.636.753021 254.9 6.74197
258.396.720082 261.826.711729 264.156.740036 267.526.739932 269.916.738597
273.226.725852 275.686.721985 278.926.727015 281.446.716796 2846.639936
287.26.554258 290.326.399265 292.966.288069 296.026.210798 298.72 6.19395
301.72 6.19185 304.486.216494 307.426.482284 310.236.614634 313.116.700326
315.996.890442 318.926.879824 321.756.909406 324.526.875915 327.516.847575
330.22 6.74907 333.276.659445 335.926.596866 339.036.495471 341.626.611098
344.796.695492 347.32 6.86416 350.557.137008 353.85 6.93895 356.31 6.7909
358.726.778072 362.076.761401 364.426.775408 367.836.761639 370.126.740871
373.586.731915 375.816.735065 379.346.710323 381.51 6.69813 385.16.723934
388.776.705092 390.866.704043 392.91 6.72117 396.62 6.72873 398.616.733131
402.386.744774 404.316.739341 408.146.720503 410.016.700255 413.96.741404
417.876.714475 419.666.730922 423.76.756803 425.426.744149 427.126.774343
431.186.769161 435.346.734297 436.946.725238 438.516.729741 442.696.796102
444.216.881773 448.457.110452 452.796.895158 454.216.828222 455.61 6.64249
460 6 480 -5.18 660 -5.18 680 6 706.39 6.02978
707.636.065577 708.896.024083 713.396.016923 717.795.948747 719.155.916333
720.535.982049 724.91 6.11976 729.196.178744 730.676.229609 734.96.151528
736.436.120185 7386.169028 742.196.213191 746.36.252873 747.956.433785
7526.885107 753.716.872463 755.466.892992 759.477.048115 763.47.080067
765.237.039326 767.17.000651 770.98 6.7321 774.79 6.45656 776.746.313753
780.496.332604 782.56.327547 784.56 6.31667 788.26 6.26781 791.896.201074
794.026.219452 796.26.147838 799.786.134684 802.026.142399 805.546.095258
807.846.126758 811.36.200877 814.696.261695 817.066.276814 820.396.356381
822.836.358634 825.316.382925 828.596.355306 831.136.355063 834.346.385139
836.946.422173 840.16.415528 843.196.436909 845.86 6.44415 848.896.483392
851.626.415771 854.41 6.39416 857.38 6.36807 860.236.275272 863.146.164995
866.056.393271 868.96.362206 871.696.354553 874.666.200531 877.396.432463
880.426.667475 883.51 6.94614 886.187.086906 889.336.821873 891.946.806644
895.166.860425 897.76.968534 900.196.767302 903.456.725206 905.886.737371
909.216.794893 912.616.792857 914.976.828354 918.436.838322 920.736.810176
924.256.849614 926.496.882003 928.687.078928 932.257.127086 934.387.091448
938.017.293641 941.727.285337 943.777.274018 945.797.189181 949.537.085202
951.497.023186 955.296.772801 959.186.796497 961.056.725225 962.886.726119
966.8 6.5834 968.58 6.54046 972.566.567066 976.636.556079 978.326.577935
982.466.662205 984.086.709423 988.286.825852 989.846.856197 991.386.798488
995.66.710093 997.086.701507 1001.366.540529 1005.746.491599 1007.126.503945
1008.48 6.49885 1012.896.509344 1014.186.521883 1018.656.540792 1023.216.491251
1024.416.477779 1025.586.461524 1030.16 6.46092 1031.276.454761 1035.926.561113
1040.666.638438 1041.686.657149 1042.686.669239 1047.446.603306 1048.386.614744
1053.26.518749 1058.126.550673 1058.966.522362 1059.786.520061 1064.726.405599
1065.486.381188 1070.486.365843 1075.596.291648 1076.246.294163 1081.416.314988
10826.301828 1087.236.205415 1087.76 6.21231 1088.286.211489 1093.526.199525
1093.986.197679 1099.276.258206 1104.686.283366 1105.036.290051 1105.376.286088
1110.79 6.23149 1111.076.226769 1116.556.235404 1122.156.186904 1122.316.183959
1122.476.186684 1128.076.174533 1128.176.171877 1133.836.164007 1137.86.121954
1139.596.103349 1139.616.103128 1145.356.065072 1150.976.167377 1151.116.166425
1151.256.167364 1156.876.233702 1157.076.234755 1162.626.249385 1168.076.212687
1168.38 6.21166 1168.716.211231 1174.156.163875 1179.476.140606 1179.916.138773
1185.176.109379 1185.676.103643 1190.876.102267 1191.436.101143 1191.996.106309
1192.176.108284

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .2 460 .03 680 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
460 680 114 114 114 .3 .5
Ineffective Flow num= 2
Sta L Sta R Elev Permanent

0 460 9.62 F
733 1192.17 9.62 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 3

INPUT
Description:
Station Elevation Data num= 335
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
05.634134.60008245.6942093.6696945.8725616.3608736.0559969.336566 6.15758
12.121666.25118415.000636.30046717.882466.34340220.670316.32686523.64325 6.27618
26.337186.29805829.40404 6.339232.004066.33165535.164836.38829837.670936.457571
40.925626.53662344.290016.62476446.686416.68795450.147886.743779 52.44726.724338
54.667756.80128858.197996.81504261.853467.01708763.958787.12554467.711337.177508
69.719577.26428471.662337.21704475.480367.281189 77.32927.34113581.24116 7.32991
85.284977.29584487.001957.30658688.662957.28872392.762737.30974394.329827.315601
98.523537.306118102.85867.368556104.28437.365725105.66367.355804110.04517.239238
114.57437.286993115.80597.299978 120.4247.223483121.55677.210919122.65437.202195
127.31757.156901128.32127.129031133.07837.023808133.98816.894236138.83916.245327
139.6556.228245144.59996.121224145.32186.121514150.36066.109317150.98876.104417
156.12146.121435156.65566.169751161.88226.565981162.32246.576659 167.6436.791144
167.98936.790377173.40386.825194179.00086.604692179.1646 6.59849179.32316.608528
184.92546.892205188.88487.114388 190.6477.213563190.67627.214396196.31367.215431
196.4377.216999201.9803 7.05268202.19787.051146202.42257.044293207.95867.033328
213.31386.939056213.7193 6.94072214.13866.929412219.48016.870151219.99676.861282
225.2409 6.68082230.31396.768672231.0017 6.76614231.71286.772161236.76256.698555
237.57086.699401242.52336.685985 247.3146.792759248.28416.799658249.28516.805222
254.03496.752025255.13486.729418259.79576.699656264.30446.625474265.5565 6.61813
266.8509 6.62402271.31736.753371272.70896.787635 277.0786.846729281.30456.674993
282.83886.612917286.97126.376869288.59966.284712292.63795.895649294.36045.753406
298.30465.466722300.12125.353919303.97135.122859 305.8825.022691 309.6385.036376
311.64285.066675315.30475.223729317.4036 5.27189320.96545.685117323.15445.952621
325.4211 6.03595328.91526.230599 332.2956.226451 334.6766.229411337.96186.238059
340.43676.237585343.62856.128935346.19756.022894349.29525.785341351.95835.640795
354.96195.825533357.71916.047181360.62866.900263363.47997.694016366.2953 8.11466
369.24078.405549 371.9628.441422375.00158.550682377.62888.829827380.76238.913927
383.29119.095375386.51319.372685388.9523 9.24564392.27399.160564 394.6199.072814
398.03479.002273401.56568.952641403.79548.801012405.95258.752063409.55628.778395
411.61928.669924 415.3178.397182417.28598.321684421.07788.130779422.95268.107663
426.83868.094725428.6193 8.13578432.59948.141855 434.2868.215867438.36028.481643
439.95278.516696 444.121 8.62904445.61948.734197449.88188.722662451.28388.778104
455.63268.891652456.94318.852104461.39338.785339462.6097 8.60556467.15418.252288
468.27657.911385472.91496.543383 480 6 500 -5.2 680 -5.2
700 6749.39296.488153751.57896.364151755.15376.385935758.84916.352646
760.91456.371062764.70696.423309766.67536.455131768.57956.373201 772.4366.373319
776.42276.501466778.19686.604229779.91036.687259783.94766.785133785.57036.879885
789.70846.907575793.98616.880507795.46926.866059 796.9046.910859 801.237.005478
802.57097.042951806.99087.049484811.55987.026892812.75166.987225813.90466.946448
818.51247.137194819.57157.160261824.27327.132409825.23837.112283 830.0347.159531
830.90527.159342835.79477.109969840.8491 7.20282841.55557.205065842.23787.188137
847.30637.285461 847.8967.293694853.06717.231751858.41267.253088858.82797.249286
864.27047.097436864.58877.101814870.12837.062606870.34957.059001870.56357.055254
876.1103 7.01876.23037.010146881.87117.189202881.89727.190771883.47417.184991
887.56417.170329887.63197.170899 893.2317.167474893.39267.166747893.55987.163617
899.15347.066497904.56476.948121904.9142 6.93992910.23166.958222 910.6756.959044
911.1326 6.95154916.42586.948007921.55556.935678922.18666.940176922.83916.950261
927.94746.970798932.88927.063582933.70827.069709938.55617.086624 939.4697.096575
940.41277.101128945.22987.091477949.88987.099937950.99067.120971952.12847.119407
956.75137.115421957.98637.098494962.51217.041863963.84427.074677968.27297.059033
972.55747.146533974.03387.133176975.55727.101886979.78457.015061981.40767.071377
985.54537.044007989.54827.002939991.30616.906726993.12346.867206997.06696.826549
1000.8826.8190051002.828 6.812411006.5496.7791291008.5896.7799631010.6976.732145
1014.3496.6761261016.5556.674457 1020.116.6669121022.4136.6848081025.871 6.73766
1029.2166.7620761031.6326.8010161034.8836.7873991037.3926.7782181039.9826.782686
1043.1436.8038211046.2076.8471351048.9046.8919261051.8746.9056771054.6656.957508
1057.556.9489861060.426 6.961111063.208 6.941066.1866.8795511068.8756.868396
1071.9476.8957691075.123 6.824271077.7086.7753551080.9816.8247731083.4696.822412
1086.839 6.80634 1089.236.8031031091.542 6.79074 1094.996.7802131097.2096.795392
1100.751 6.8091104.4136.8205261106.5126.8432591108.5396.8419851112.2636.853469
1114.26.8705271118.0246.8549451121.9766.8086481123.7846.7862351125.5336.781861
1129.5456.696079 1131.26.6405741135.3066.627511 1139.556.5698031141.0676.548143
1145.4086.5012231146.8286.5190811151.2666.5094231152.5886.5185121153.8686.501984
1158.349 6.546111159.5356.549551 1164.116.5483011168.8396.5880571169.8716.599367
1170.8676.5898721175.621 6.6371176.5256.6503381181.3826.5934421186.4036.528528
1187.1436.5219891187.8596.5304571192.9046.5981171193.5266.5953371198.6656.549714
1203.9766.5283691204.4256.525875 1204.866.5240651210.186 6.674821212.9676.629958

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 480 .03 700 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
480 700 2992 2992 2992 .1 .3
Ineffective Flow num= 2

Sta L Sta R Elev Permanent
0 380 9.62 F
8501212.967 9.62 F

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 2

INPUT
Description:
Station Elevation Data num= 450
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
05.7169533.0405025.7272848.9270045.63529113.00954 5.5133518.665555.150424
19.52365.092546 20.1535.04306723.644384.86976327.296464.846236 28.40414.896162
34.439935.32750438.142655.49674141.583395.64870344.24558 5.7458848.714455.888123
52.482655.93789755.857925.96691857.619755.97146263.001385.99197164.844976.031773
68.965746.06541870.144846.07903277.096866.13594784.431776.15210285.448846.159145
89.569626.22756291.575236.249389 93.6904 6.28662 98.71876.355708104.62256.417423
105.86226.431399110.1707 6.43035113.00566.423311114.28846.400194116.03416.394171
120.14916.349084125.77276.339423126.64296.341413127.28026.353551130.76316.438363
134.42366.469761141.56716.553411143.12546.566182145.24986.591323148.71056.661066
151.36696.698236154.98836.709363 155.8546.702422158.2369 6.65463162.99756.557197
164.72696.549158 167.856.556769170.14096.560685174.46556.523278177.28446.475737
184.4279 6.41677188.45396.408127191.57136.447582193.94266.490539198.71486.561311
200.81416.565407203.68116.669197205.84596.738008212.98936.871006213.41966.873711
217.28936.873028220.13286.846286223.14136.797777225.52666.753677227.27626.765063
232.87986.851731234.41976.879658237.88896.948404241.56327.023889242.61847.034341
246.1304 7.04172248.70667.032128252.35697.044088255.85017.059837258.49287.061393
262.61367.032873265.46576.946252 270.1376.798804 271.834 6.72077274.97596.544682
277.28056.412162279.09666.316373281.57266.132911283.21746.018126 284.4245.928951
291.31115.482089 291.555 5.47225292.22635.489761298.69855.613196299.69345.654872
301.04975.728145303.81415.866703305.84195.973752307.93496.070765310.78826.167706
312.98546.238068319.03356.265806320.12896.275651320.52686.273324327.27236.187408
330.2484 6.0341332.65245.890036334.41585.797626336.77325.687289 339.987 5.51269
341.55935.434537345.88725.411466348.70275.373351349.13555.390818349.72555.438254
353.25635.741339355.84625.992569359.46416.252863362.98976.468141 365.6166.657739
369.20266.925377370.12076.997655 373.8537.279725377.26427.466333378.94127.531781
384.40767.633415388.6797 7.61297390.33617.593648391.55117.603062394.45697.604018
398.41837.567829399.45517.564639 405.8387.554999408.15687.542733412.98157.530588
415.06087.547766417.8954 7.5306419.18157.530075420.12497.539076426.2623 7.571
427.63397.579004431.54397.583354434.41197.578191435.66467.562784437.3725 7.5567
439.78367.533267441.55547.496255447.09417.324724448.69887.257403453.08747.184457
455.82997.117865456.83277.149724 460.3757.304821462.97337.358055464.49587.366015
466.57127.355714468.61657.354174470.11687.355956476.30987.293091477.26037.273585
479.87667.214764484.40377.097619486.04837.079006491.5472 6.98515493.34126.952773
495.78696.883705497.46196.818856498.69066.817505505.52546.686562505.83416.678715
509.82436.629783512.97766.643913513.94516.645947 515.2646.593026518.06586.499019
520.121 6.42308525.0025 6.39305526.30746.397216527.26456.382154533.45076.244791
534.39566.222284534.74116.225821538.66256.305429 541.5396.310773542.7833 6.32458
544.47966.330231546.90236.342032548.6825 6.4376551.02016.560472555.13856.615958
555.8266.607821560.29826.541742562.96946.505861563.93986.467423570.11296.308481
573.67836.291546577.2563 6.265579.86326.274123583.41696.291735584.3998 6.26986
587.10546.168361591.54335.977541592.22555.957663593.15555.898741596.34635.728696
598.68685.496616 602.894 4.98284605.83024.621269612.63264.541596612.97374.558617
616.94614.807698621.06375.153357622.37115.195052625.18455.288533627.24825.328558
629.3053 5.3578632.10975.353431 633.4265.347189634.39175.310977640.6733 5.15894
641.53515.136118641.84825.106658648.6786 4.40435651.58684.266542654.02994.148011
655.8224.308957658.15074.506679661.32534.807045662.96554.922031667.51014.954346
670.10894.998877671.04695.021776674.62665.163263677.25245.160633680.78555.321792
684.39595.542088 690.5245.875691691.53945.916679695.22685.916941699.34416.019505
700.26266.018379 740 6 760 -6.5 1040 -6.5 1060 6
1061.9227.3010241062.9387.3273341066.0437.2786981070.2777.3153291077.2247.341982
1078.4057.3453551080.0157.3358881082.5267.3358211084.3687.3053791089.7547.251793
1091.5117.2332251096.3497.1882091098.6557.1686451099.4927.1645871105.7867.121743
1109.2147.1593481112.9297.2085441115.4787.2408651118.9537.3119111120.0737.346432
1123.1567.3249141127.2167.313392 1127.847.3095241128.6917.315401 1134.367.271316
1138.437.1439431141.503 7.013361148.1686.7124461152.5656.550675 1155.796.395863
1157.9076.3194421162.9346.0687941167.6455.7560151170.0775.6445381176.7715.325494
1177.3845.298591 1181.415.1674711184.3645.2483261187.1225.3080491191.4955.311121
1193.7665.2824891196.8615.2727511198.6385.2459871203.5314.9462911205.7824.820852
1206.6 4.747241212.9254.3310261216.3384.4724331220.0694.7985131222.6065.093126
1226.065.3011771226.7255.3452421227.2125.3631251230.3855.4603671234.3565.590668
1235.7985.6311371241.499 5.733121245.5375.7386521248.6435.7789461251.4495.801606
1255.275 5.787931257.1925.778521 1262.935.7552771265.0145.7491691270.061 5.70536
1272.0465.6828441274.7535.6915561276.1675.7013361277.2045.6876151284.4915.577036
1288.5295.5577811291.4915.594691 1292.655.618702 1294.235.6207671296.771 5.62774
1298.6355.6563761303.9685.6882931305.7785.696522 1310.765.7979811312.9225.830954
1313.2545.8389531317.3755.8209231320.0655.8420991323.4455.8814821325.6155.874678
1327.2085.8762581334.3525.7656081337.9715.7583471341.4955.7752221342.9065.776441
1348.6265.7755111350.3265.7735771352.6445.7596911362.9135.689728 1366.815.728633
1370.0575.787065 1370.93 5.805841372.1215.814385 1377.25.861263 1381.865.816864
1384.3445.7710031391.1825.7471821395.6555.7242571398.6315.7147271401.3375.683331
1405.7745.7056661408.0175.7125591411.0755.7479311412.1385.7448371412.9185.749188
1417.9895.7597481420.0615.7587291420.8145.7713211427.2045.840155 1428.625.848466
1432.7365.8842131440.2915.9456721441.4795.9462891444.7715.9710411448.6225.993711
1455.7666.0147231459.7516.0733041461.5736.1096261462.9096.1132431465.6946.107527

1469.496.1365811470.053 6.136671479.228 6.094881482.1776.053236 1484.346.065204
1488.9676.0512961491.4836.0145321498.7055.9401761502.7815.858075 1506.95.738136
1508.4445.7574911512.9015.7071971518.1825.5690511520.0455.4423171525.1714.977206
1527.1884.8039621527.9214.7570291534.332 4.88691 1535.744.897698 1537.664.923121
1539.8615.0198461541.4755.0684641547.3985.2891111548.6195.336511 15525.463583
1555.7625.583578 1557.125.6380991562.9065.6822811564.5785.7114441566.8585.744007
1568.6995.7644331570.0495.7371511576.5975.7899951577.1925.7875241578.8325.769706
1584.3365.6889431585.1825.6895561586.3355.6707991589.3035.5616041591.4795.465133
1593.4225.3635171596.0745.278222 1598.615.1872781605.813 4.853131609.8994.775279
1612.8974.7727351615.5514.757854 1625.295.0735051627.1845.1095021630.5035.189753
1634.3285.2645881635.0285.2866281641.4715.4470281642.8665.4725681644.7675.489395
1648.6155.4926341655.7585.5342921659.2075.5346211664.2445.5505091667.5885.549706
1670.045 5.540761673.9655.4698721677.1765.4415171679.9385.4365191683.7045.520175
1686.0145.5551261691.4635.6103311693.4435.6389761698.607 5.625681700.5425.614193
1703.1815.6805021704.6635.695674 1705.755.672248 1712.925.5379561720.0375.504075
1721.1465.5012791722.6585.4479291725.2675.378125 1727.185.3742871731.2985.373521

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 740 .03 1060 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
740 1060 2485 2485 2485 .1 .3

CROSS SECTION

RIVER: GatorSlough
REACH: GatorSlough RS: 1

INPUT
Description:
Station Elevation Data num= 166
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev
07.139362.32024347.1399171.3857517.1293082.0531747.1050955.5647687.006631
8.849891 6.91609 9.742836.92267411.170846.95509615.634817.14119622.021447.448279
22.431527.45752823.119067.45179129.228247.40921432.872047.29375334.810637.213207
36.024957.12556141.311116.91823542.821676.84470843.168676.82031343.722646.747432
47.347696.28521449.618395.75497854.573244.842176 56.41514.59197859.884744.154867
63.211814.14333964.063764.12835465.423844.17830968.242774.28990170.008534.328534
76.274444.44257976.600814.44827976.805254.45258377.695214.46752283.601974.618624
84.958854.60362487.125034.62736789.137864.64219490.398684.62734695.861824.649078
97.183594.64630797.975634.647339103.9803 4.61532108.82624.600175110.02574.593111
110.7774.579875114.20474.583544117.57374.556514119.67684.541188124.37054.603098
126.737 4.65068130.50864.606395130.91354.599888131.16724.604856135.09254.629754
137.96394.547652139.27164.490444141.35924.465056143.45064.430177144.7606 4.39579
147.62964.233104151.5573 3.95681151.80863.963387152.20983.953728155.9876 3.87495
158.3544.043613160.1667 4.25548163.06044.634567164.34574.844993165.15084.897623
168.63925.119306171.93575.336616172.69645.360276 173.9115.394269176.87555.474509
178.73245.519883181.05455.568424184.76165.483582185.52915.491622189.41255.704286
192.3258 5.72928195.61225.760374199.1225 5.82594201.94965.826334205.9193 5.79649
206.12865.798643206.46285.788485 212.7165.587472217.31345.578351218.66565.606949
219.51275.600134222.8447 5.57725226.30945.618122 228.1645.658282233.10615.735694
239.01465.854323239.56045.863221239.90285.875692243.73666.031662246.69956.155753
247.91156.190144249.84636.182899252.08486.183189253.48456.150177 260 6
280 -7.7 560 -7.7 580 6586.4763 6.08955586.9778 6.14979
593.27317.028161597.02787.379149600.06987.658457603.0772 7.91203606.86658.269607
607.87848.342468613.66328.737169618.71029.083757620.45999.204063623.39359.193842
627.25679.193973 628.144 9.17494629.56089.147607632.32319.097367634.0533 9.07832
640.41148.930387640.8383 8.91778 641.5548.904679647.63498.768626 651.2628.729102
654.43178.669438657.3899 8.62072661.22848.589652662.11268.583015668.02518.554443
669.9278.539376672.96328.500792674.82188.496014 677.9388.522849681.61858.561017
683.81388.545994688.41538.499235694.66448.387005 695.2128.390443696.13018.377296
702.00878.288918703.35918.287889 705.5158.268189707.53818.278418708.80548.274513
714.29668.042742715.59037.989136715.88897.987435716.36567.973315720.06797.906287
722.387 7.77662727.2162 7.77945729.18387.753947 732.6057.924538735.98058.050848
738.06688.134135742.77728.341791748.89868.522486749.57398.538365750.70628.526504
752.94878.498083

Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
0 .1 260 .03 580 .1

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
260 580 0 0 0 .1 .3

SUMMARY OF MANNING'S N VALUES

River:GatorSlough

Reach	River Sta.	n1	n2	n3
GatorSlough	6	.2	.03	.2
GatorSlough	5	.2	.03	.2
GatorSlough	4.95	Inl Struct		
GatorSlough	4.9	.2	.03	.2

GatorSlough	4.89	.2	.03	.2
GatorSlough	4.75	Bridge		
GatorSlough	4.6	.2	.03	.2
GatorSlough	4.59	.2	.03	.2
GatorSlough	4.35	Bridge		
GatorSlough	4	.2	.03	.2
GatorSlough	3	.1	.03	.1
GatorSlough	2	.1	.03	.1
GatorSlough	1	.1	.03	.1

SUMMARY OF REACH LENGTHS

River: GatorSlough

Reach	River Sta.	Left	Channel	Right
GatorSlough	6	325	325	325
GatorSlough	5	32	32	32
GatorSlough	4.95	Inl Struct		
GatorSlough	4.9	1	1	1
GatorSlough	4.89	94	94	94
GatorSlough	4.75	Bridge		
GatorSlough	4.6	1	1	1
GatorSlough	4.59	124	124	124
GatorSlough	4.35	Bridge		
GatorSlough	4	114	114	114
GatorSlough	3	2992	2992	2992
GatorSlough	2	2485	2485	2485
GatorSlough	1	0	0	0

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: GatorSlough

Reach	River Sta.	Contr.	Expan.
GatorSlough	6	.1	.3
GatorSlough	5	.3	.5
GatorSlough	4.95	Inl Struct	
GatorSlough	4.9	.3	.5
GatorSlough	4.89	.3	.5
GatorSlough	4.75	Bridge	
GatorSlough	4.6	.3	.5
GatorSlough	4.59	.3	.5
GatorSlough	4.35	Bridge	
GatorSlough	4	.3	.5
GatorSlough	3	.1	.3
GatorSlough	2	.1	.3
GatorSlough	1	.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/ft)	E.G. Elev (ft/s)	E.G. Slope (sq ft)	Vel Chnl (ft)	Flow Area	Top Width	Froude # Chl
GatorSlough	6	50yr	1469.00	-5.18	3.16	-4.00	3.17	0.000018	0.82	1793.05	229.85	0.05
GatorSlough	6	100yr	1656.00	-5.18	3.32	-3.90	3.33	0.000022	0.91	1828.85	230.41	0.06
GatorSlough	6	500yr	2137.00	-5.18	3.71	-3.66	3.73	0.000031	1.11	1918.50	231.79	0.07
GatorSlough	5	50yr	1469.00	-5.18	3.15	-3.91	3.17	0.000022	0.90	1636.55	212.75	0.06
GatorSlough	5	100yr	1656.00	-5.18	3.31	-3.81	3.32	0.000026	0.99	1669.32	213.35	0.06
GatorSlough	5	500yr	2137.00	-5.18	3.69	-3.55	3.71	0.000038	1.22	1751.35	214.86	0.08
GatorSlough	4.95	Inl Struct										
GatorSlough	4.9	50yr	1469.00	-5.18	-0.79	-3.91	-0.74	0.000192	1.77	827.63	197.24	0.15
GatorSlough	4.9	100yr	1656.00	-5.18	-0.69	-3.81	-0.63	0.000227	1.95	847.29	197.63	0.17
GatorSlough	4.9	500yr	2137.00	-5.18	-0.41	-3.55	-0.32	0.000308	2.37	902.95	198.74	0.20
GatorSlough	4.89	50yr	1469.00	-5.18	-0.79	-4.07	-0.75	0.000138	1.52	966.01	219.89	0.13
GatorSlough	4.89	100yr	1656.00	-5.18	-0.69	-3.98	-0.64	0.000163	1.68	988.18	219.89	0.14
GatorSlough	4.89	500yr	2137.00	-5.18	-0.40	-3.75	-0.34	0.000222	2.03	1050.71	219.89	0.16
GatorSlough	4.75	Bridge										
GatorSlough	4.6	50yr	1469.00	-5.18	-0.86	-3.78	-0.79	0.000297	2.18	673.04	155.88	0.19
GatorSlough	4.6	100yr	1656.00	-5.18	-0.78	-3.66	-0.69	0.000354	2.41	686.21	155.88	0.20
GatorSlough	4.6	500yr	2137.00	-5.18	-0.54	-3.38	-0.40	0.000495	2.95	723.68	155.88	0.24
GatorSlough	4.59	50yr	1469.00	-5.18	-0.86	-3.78	-0.79	0.000297	2.18	672.99	155.88	0.19
GatorSlough	4.59	100yr	1656.00	-5.18	-0.78	-3.66	-0.69	0.000354	2.41	686.15	155.88	0.20

GatorSlough	4.59	500yr	2137.00	-5.18	-0.54	-3.38	-0.40	0.000496	2.95	723.60	155.88	0.24
GatorSlough	4.35		Bridge									
GatorSlough	4	50yr	1469.00	-5.18	-0.90	-3.91	-0.85	0.000211	1.83	802.20	195.30	0.16
GatorSlough	4	100yr	1656.00	-5.18	-0.83	-3.80	-0.77	0.000253	2.03	816.79	195.56	0.17
GatorSlough	4	500yr	2137.00	-5.18	-0.61	-3.55	-0.52	0.000358	2.49	859.21	196.34	0.21
GatorSlough	3	50yr	1469.00	-5.20	-0.93	-3.94	-0.88	0.000212	1.83	801.33	195.25	0.16
GatorSlough	3	100yr	1656.00	-5.20	-0.86	-3.82	-0.80	0.000255	2.03	814.96	195.50	0.18
GatorSlough	3	500yr	2137.00	-5.20	-0.66	-3.57	-0.56	0.000364	2.50	854.80	196.23	0.21
GatorSlough	2	50yr	1469.00	-6.50	-1.14		-1.13	0.000041	0.95	1546.68	297.15	0.07
GatorSlough	2	100yr	1656.00	-6.50	-1.12		-1.10	0.000052	1.07	1552.18	297.21	0.08
GatorSlough	2	500yr	2137.00	-6.50	-1.06		-1.04	0.000083	1.36	1569.09	297.39	0.10
GatorSlough	1	50yr	1469.00	-7.70	-1.21	-6.75	-1.20	0.000022	0.78	1878.69	298.95	0.05
GatorSlough	1	100yr	1656.00	-7.70	-1.21	-6.68	-1.20	0.000028	0.88	1878.69	298.95	0.06
GatorSlough	1	500yr	2137.00	-7.70	-1.21	-6.49	-1.19	0.000046	1.14	1878.69	298.95	0.08

Existing: 50-yr surge

HEC-RAS Plan: ext-50 River: GatorSlough Reach: GatorSlough Profile: Max WS

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)	
GatorSlough	6	Max WS	1027.00	-5.18	6.15		6.15	0.000003	0.41	2583.15	599.18	0.02
GatorSlough	5	Max WS	1018.78	-5.18	6.15	-4.19	6.15	0.000004	0.45	2308.58	357.47	0.02
GatorSlough	4.95		Inl Struct									
GatorSlough	4.9	Max WS	1018.78	-5.18	6.14		6.14	0.000004	0.45	2302.02	352.60	0.02
GatorSlough	4.89	Max WS	1018.76	-5.18	6.14	-4.30	6.14	0.000003	0.41	2504.27	352.81	0.02
GatorSlough	4.75		Bridge									
GatorSlough	4.6	Max WS	1018.76	-5.18	6.12		6.13	0.000006	0.58	1762.45	464.31	0.03
GatorSlough	4.59	Max WS	1018.74	-5.18	6.12	-4.08	6.13	0.000006	0.58	1762.45	464.30	0.03
GatorSlough	4.35		Bridge									
GatorSlough	4	Max WS	1018.74	-5.18	6.12		6.12	0.000004	0.45	2267.51	302.08	0.02
GatorSlough	3	Max WS	1015.99	-5.20	6.12		6.12	0.000004	0.45	2267.40	303.10	0.02
GatorSlough	2	Max WS	933.33	-6.50	6.11		6.11	0.000001	0.25	4258.23	1154.84	0.01
GatorSlough	1	Max WS	528.81	-7.70	6.10	-7.22	6.10	0.000000	0.13	4365.29	528.13	0.01

Existing: 50-yr surge with SLR

HEC-RAS Plan: ext-50-SLR Locations: User Defined Profile: Max WS

River	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)	
GatorSlough	GatorSlough	6	Max WS	1027.00	-5.18	7.32		7.32	0.000002	0.37	3262.00	785.47	0.02
GatorSlough	GatorSlough	5	Max WS	1009.42	-5.18	7.32	-4.19	7.32	0.000003	0.40	2625.13	1102.08	0.02
GatorSlough	GatorSlough	4.95		Inl Struct									
GatorSlough	GatorSlough	4.9	Max WS	1009.42	-5.18	7.31		7.31	0.000003	0.40	2593.53	1099.20	0.02
GatorSlough	GatorSlough	4.89	Max WS	1009.36	-5.18	7.31	-4.31	7.31	0.000002	0.37	2793.40	1099.32	0.02
GatorSlough	GatorSlough	4.75		Bridge									
GatorSlough	GatorSlough	4.6	Max WS	1009.36	-5.18	7.30		7.30	0.000005	0.52	2000.12	1188.83	0.03
GatorSlough	GatorSlough	4.59	Max WS	1009.29	-5.18	7.30	-4.09	7.30	0.000005	0.52	2000.12	1188.83	0.03
GatorSlough	GatorSlough	4.35		Bridge									
GatorSlough	GatorSlough	4	Max WS	1009.29	-5.18	7.30		7.30	0.000003	0.40	2587.55	1192.17	0.02
GatorSlough	GatorSlough	3	Max WS	1001.52	-5.20	7.29		7.30	0.000003	0.40	2629.08	1073.56	0.02
GatorSlough	GatorSlough	2	Max WS	851.79	-6.50	7.28		7.28	0.000001	0.20	5912.60	1601.58	0.01
GatorSlough	GatorSlough	1	Max WS	401.83	-7.70	7.28	-7.30	7.28	0.000000	0.09	5015.57	581.29	0.00

Existing: 100-yr surge

HEC-RAS Plan: ext-100 River: GatorSlough Reach: GatorSlough Profile: Max WS

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)	
GatorSlough	6	Max WS	1027.00	-5.18	7.34		7.34	0.000002	0.37	3275.46	787.25	0.02
GatorSlough	5	Max WS	1005.62	-5.18	7.34	-4.20	7.34	0.000002	0.39	2631.41	1105.03	0.02
GatorSlough	4.95		Inl Struct									
GatorSlough	4.9	Max WS	1005.62	-5.18	7.33		7.33	0.000002	0.39	2599.24	1103.77	0.02
GatorSlough	4.89	Max WS	1005.54	-5.18	7.33	-4.31	7.33	0.000002	0.37	2799.06	1103.81	0.02
GatorSlough	4.75		Bridge									
GatorSlough	4.6	Max WS	1005.54	-5.18	7.32		7.32	0.000004	0.52	2004.84	1188.83	0.03
GatorSlough	4.59	Max WS	1005.47	-5.18	7.32	-4.09	7.32	0.000004	0.52	2004.84	1188.83	0.03
GatorSlough	4.35		Bridge									
GatorSlough	4	Max WS	1005.47	-5.18	7.31		7.32	0.000003	0.40	2592.61	1192.17	0.02
GatorSlough	3	Max WS	998.01	-5.20	7.31		7.32	0.000003	0.39	2636.14	1088.29	0.02
GatorSlough	2	Max WS	843.36	-6.50	7.30		7.31	0.000001	0.20	5945.82	1614.14	0.01
GatorSlough	1	Max WS	474.66	-7.70	7.30	-7.25	7.30	0.000000	0.10	5027.21	582.44	0.00

Existing: 100-yr surge with SLR

HEC-RAS Plan: ext-100-SLR Locations: User Defined Profile: Max WS

River	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)	
GatorSlough	GatorSlough	6	Max WS	1027.00	-5.18	8.52		8.52	0.000002	0.33	3979.83	790.78	0.02
GatorSlough	GatorSlough	5	Max WS	1005.61	-5.18	8.52	-4.20	8.52	0.000002	0.36	2957.21	1193.11	0.02
GatorSlough	GatorSlough	4.95		Inl Struct									
GatorSlough	GatorSlough	4.9	Max WS	1005.61	-5.18	8.51		8.52	0.000002	0.36	2894.94	1193.11	0.02
GatorSlough	GatorSlough	4.89	Max WS	1005.53	-5.18	8.51	-4.31	8.52	0.000002	0.33	3092.37	1193.11	0.02
GatorSlough	GatorSlough	4.75		Bridge									
GatorSlough	GatorSlough	4.6	Max WS	1005.53	-5.18	8.50		8.51	0.000003	0.47	2274.93	1188.83	0.02
GatorSlough	GatorSlough	4.59	Max WS	1005.46	-5.18	8.50	-4.09	8.51	0.000003	0.47	2274.93	1188.83	0.02
GatorSlough	GatorSlough	4.35		Bridge									
GatorSlough	GatorSlough	4	Max WS	1005.46	-5.18	8.49		8.50	0.000002	0.36	2914.64	1192.17	0.02
GatorSlough	GatorSlough	3	Max WS	998.25	-5.20	8.49		8.50	0.000002	0.35	3093.44	1147.18	0.02
GatorSlough	GatorSlough	2	Max WS	840.84	-6.50	8.48		8.49	0.000000	0.17	7970.28	1731.30	0.01
GatorSlough	GatorSlough	1	Max WS	377.10	-7.70	8.48	-7.32	8.48	0.000000	0.08	5756.85	667.87	0.00

Existing: 500-yr surge

HEC-RAS Plan: ext-500 River: GatorSlough Reach: GatorSlough Profile: Max WS

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)	
GatorSlough	6	Max WS	1027.00	-5.18	10.24		10.24	0.000001	0.29	5007.37	794.21	0.01
GatorSlough	5	Max WS	1009.12	-5.18	10.24	-4.19	10.24	0.000001	0.31	3430.11	1193.11	0.01
GatorSlough	4.95		Inl Struct									
GatorSlough	4.9	Max WS	1009.12	-5.18	10.23		10.23	0.000001	0.32	3323.95	1193.11	0.01
GatorSlough	4.89	Max WS	1009.06	-5.18	10.23	-4.31	10.23	0.000001	0.30	3517.94	1193.11	0.01
GatorSlough	4.75		Bridge									
GatorSlough	4.6	Max WS	1009.06	-5.18	10.22		10.22	0.000002	0.42	2666.76	1188.83	0.02
GatorSlough	4.59	Max WS	1009.00	-5.18	10.22	-4.09	10.22	0.000002	0.38	6487.64	1188.83	0.02
GatorSlough	4.35		Bridge									
GatorSlough	4	Max WS	1009.00	-5.18	10.21		10.21	0.000001	0.30	6758.93	1192.17	0.01
GatorSlough	3	Max WS	1002.73	-5.20	10.21		10.21	0.000001	0.28	6444.16	1212.97	0.01
GatorSlough	2	Max WS	865.33	-6.50	10.21		10.21	0.000000	0.15	10948.14	1731.30	0.01
GatorSlough	1	Max WS	240.25	-7.70	10.20	-7.42	10.20	0.000000	0.04	7028.40	752.95	0.00

Existing: 500-yr surge with SLR

HEC-RAS Plan: ext-500-SLR Locations: User Defined Profile: Max WS

River	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)	
GatorSlough	GatorSlough	6	Max WS	1027.00	-5.18	11.41		11.41	0.000001	0.26	5716.36	798.68	0.01
GatorSlough	GatorSlough	5	Max WS	1012.23	-5.18	11.41	-4.19	11.41	0.000001	0.29	3754.53	1193.11	0.01
GatorSlough	GatorSlough	4.95		Inl Struct									
GatorSlough	GatorSlough	4.9	Max WS	1012.23	-5.18	11.40		11.41	0.000001	0.29	3618.23	1193.11	0.01
GatorSlough	GatorSlough	4.89	Max WS	1012.18	-5.18	11.40	-4.31	11.41	0.000001	0.28	3809.85	1193.11	0.01
GatorSlough	GatorSlough	4.75		Bridge									
GatorSlough	GatorSlough	4.6	Max WS	1012.18	-5.18	11.40		11.40	0.000002	0.39	2935.20	1188.83	0.02
GatorSlough	GatorSlough	4.59	Max WS	1012.13	-5.18	11.40	-4.08	11.40	0.000001	0.34	7885.83	1188.83	0.01
GatorSlough	GatorSlough	4.35		Bridge									
GatorSlough	GatorSlough	4	Max WS	1012.13	-5.18	11.39		11.39	0.000001	0.27	8163.60	1192.17	0.01
GatorSlough	GatorSlough	3	Max WS	1006.94	-5.20	11.39		11.39	0.000001	0.25	7873.36	1212.97	0.01
GatorSlough	GatorSlough	2	Max WS	896.70	-6.50	11.38		11.38	0.000000	0.14	12989.41	1731.30	0.01
GatorSlough	GatorSlough	1	Max WS	236.87	-7.70	11.38	-7.42	11.38	0.000000	0.04	7916.88	752.95	0.00

Option 1: 50-yr surge

HEC-RAS Plan: alt2-50 River: GatorSlough Reach: GatorSlough Profile: Max WS

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)	
GatorSlough	6	Max WS	1027.00	-5.18	6.14		6.15	0.000003	0.41	2581.53	598.33	0.02
GatorSlough	5	Max WS	1018.79	-5.18	6.14	-4.19	6.15	0.000004	0.45	2307.79	356.15	0.02
GatorSlough	4.95		Inl Struct									
GatorSlough	4.9	Max WS	1018.79	-5.18	6.13		6.14	0.000004	0.45	2301.28	351.29	0.02
GatorSlough	4.89	Max WS	1018.77	-5.18	6.13	-4.30	6.14	0.000003	0.41	2503.53	351.49	0.02
GatorSlough	4.75		Bridge									
GatorSlough	4.6	Max WS	1018.77	-5.18	6.12		6.13	0.000006	0.58	1761.96	461.33	0.03
GatorSlough	4.59	Max WS	1018.75	-5.18	6.12	-4.08	6.13	0.000006	0.58	1761.96	461.33	0.03
GatorSlough	4.35		Bridge									
GatorSlough	4	Max WS	1018.75	-5.18	6.12		6.12	0.000004	0.45	2267.56	302.07	0.02
GatorSlough	3	Max WS	1016.00	-5.20	6.12		6.12	0.000004	0.45	2277.87	303.09	0.02
GatorSlough	2	Max WS	933.35	-6.50	6.11		6.11	0.000001	0.25	4258.24	1154.84	0.01
GatorSlough	1	Max WS	528.79	-7.70	6.10	-7.22	6.10	0.000000	0.13	4365.29	528.13	0.01

Option 1: 50-yr surge with SLR

HEC-RAS Plan: alt2-50-SLR Locations: User Defined Profile: Max WS

River	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)	
GatorSlough	GatorSlough	6	Max WS	1027.00	-5.18	7.32		7.32	0.000002	0.37	3259.53	785.14	0.02
GatorSlough	GatorSlough	5	Max WS	1009.59	-5.18	7.31	-4.19	7.32	0.000003	0.40	2623.98	1101.15	0.02
GatorSlough	GatorSlough	4.95		Inl Struct									
GatorSlough	GatorSlough	4.9	Max WS	1009.59	-5.18	7.31		7.31	0.000003	0.40	2592.49	1096.95	0.02
GatorSlough	GatorSlough	4.89	Max WS	1009.53	-5.18	7.31	-4.31	7.31	0.000002	0.37	2792.36	1097.15	0.02
GatorSlough	GatorSlough	4.75		Bridge									
GatorSlough	GatorSlough	4.6	Max WS	1009.53	-5.18	7.30		7.30	0.000005	0.52	1999.18	1188.83	0.03
GatorSlough	GatorSlough	4.59	Max WS	1009.46	-5.18	7.30	-4.09	7.30	0.000005	0.52	1999.18	1188.83	0.03
GatorSlough	GatorSlough	4.35		Bridge									
GatorSlough	GatorSlough	4	Max WS	1009.46	-5.18	7.30		7.30	0.000003	0.40	2622.60	1192.17	0.02
GatorSlough	GatorSlough	3	Max WS	1001.71	-5.20	7.29		7.30	0.000003	0.40	2694.21	1073.55	0.02
GatorSlough	GatorSlough	2	Max WS	852.11	-6.50	7.28		7.28	0.000001	0.20	5912.62	1601.59	0.01
GatorSlough	GatorSlough	1	Max WS	401.70	-7.70	7.28	-7.30	7.28	0.000000	0.09	5015.57	581.29	0.00

Option 1: 100-yr surge

HEC-RAS Plan: alt2-100 River: GatorSlough Reach: GatorSlough Profile: Max WS

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)	
GatorSlough	6	Max WS	1027.00	-5.18	7.34		7.34	0.000002	0.37	3272.94	786.92	0.02
GatorSlough	5	Max WS	1005.76	-5.18	7.34	-4.19	7.34	0.000002	0.39	2630.24	1104.43	0.02
GatorSlough	4.95		Inl Struct									
GatorSlough	4.9	Max WS	1005.76	-5.18	7.33		7.33	0.000002	0.39	2598.18	1103.24	0.02
GatorSlough	4.89	Max WS	1005.69	-5.18	7.33	-4.31	7.33	0.000002	0.37	2798.01	1103.28	0.02
GatorSlough	4.75		Bridge									
GatorSlough	4.6	Max WS	1005.69	-5.18	7.32		7.32	0.000004	0.52	2003.88	1188.83	0.03
GatorSlough	4.59	Max WS	1005.61	-5.18	7.32	-4.09	7.32	0.000004	0.52	2003.88	1188.83	0.03
GatorSlough	4.35		Bridge									
GatorSlough	4	Max WS	1005.61	-5.18	7.31		7.32	0.000003	0.40	2628.79	1192.17	0.02
GatorSlough	3	Max WS	998.17	-5.20	7.31		7.32	0.000003	0.39	2702.48	1088.28	0.02
GatorSlough	2	Max WS	843.70	-6.50	7.30		7.31	0.000001	0.20	5945.84	1614.15	0.01
GatorSlough	1	Max WS	474.75	-7.70	7.30	-7.25	7.30	0.000000	0.10	5027.21	582.44	0.00

Option 1: 100-yr surge with SLR

HEC-RAS Plan: alt2-100-SLR Locations: User Defined Profile: Max WS

River	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)	
GatorSlough	GatorSlough	6	Max WS	1027.00	-5.18	8.51		8.52	0.000002	0.33	3975.03	790.77	0.02
GatorSlough	GatorSlough	5	Max WS	1005.79	-5.18	8.51	-4.19	8.52	0.000002	0.36	2954.99	1193.11	0.02
GatorSlough	GatorSlough	4.95		Inl Struct									
GatorSlough	GatorSlough	4.9	Max WS	1005.79	-5.18	8.51		8.51	0.000002	0.36	2892.93	1193.11	0.02
GatorSlough	GatorSlough	4.89	Max WS	1005.71	-5.18	8.51	-4.31	8.51	0.000002	0.33	3090.38	1193.11	0.02
GatorSlough	GatorSlough	4.75		Bridge									
GatorSlough	GatorSlough	4.6	Max WS	1005.71	-5.18	8.50		8.50	0.000003	0.47	2273.10	1188.83	0.02
GatorSlough	GatorSlough	4.59	Max WS	1005.64	-5.18	8.50	-4.09	8.50	0.000003	0.47	2273.10	1188.83	0.02
GatorSlough	GatorSlough	4.35		Bridge									
GatorSlough	GatorSlough	4	Max WS	1005.64	-5.18	8.49		8.50	0.000002	0.36	3022.12	1192.17	0.02
GatorSlough	GatorSlough	3	Max WS	998.46	-5.20	8.49		8.49	0.000002	0.35	3240.75	1147.17	0.02
GatorSlough	GatorSlough	2	Max WS	841.22	-6.50	8.49		8.49	0.000000	0.17	7970.32	1731.30	0.01
GatorSlough	GatorSlough	1	Max WS	376.70	-7.70	8.48	-7.32	8.48	0.000000	0.08	5756.85	667.87	0.00

Option 1: 500-yr surge

HEC-RAS Plan: alt2-500 River: GatorSlough Reach: GatorSlough Profile: Max WS

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)	
GatorSlough	6	Max WS	1027.00	-5.18	10.23		10.23	0.000001	0.29	5005.69	794.20	0.01
GatorSlough	5	Max WS	1007.97	-5.18	10.23	-4.19	10.23	0.000001	0.31	3429.34	1193.11	0.01
GatorSlough	4.95		Inl Struct									
GatorSlough	4.9	Max WS	1007.97	-5.18	10.23		10.23	0.000001	0.32	3323.26	1193.11	0.01
GatorSlough	4.89	Max WS	1007.90	-5.18	10.23	-4.31	10.23	0.000001	0.30	3517.25	1193.11	0.01
GatorSlough	4.75		Bridge									
GatorSlough	4.6	Max WS	1007.90	-5.18	10.22		10.22	0.000002	0.42	2666.10	1188.83	0.02
GatorSlough	4.59	Max WS	1007.84	-5.18	10.22	-4.09	10.22	0.000002	0.42	2666.10	1188.83	0.02
GatorSlough	4.35		Bridge									
GatorSlough	4	Max WS	1007.84	-5.18	10.21		10.21	0.000001	0.32	3595.58	1192.17	0.01
GatorSlough	3	Max WS	1001.18	-5.20	10.21		10.21	0.000001	0.31	4168.48	1212.97	0.01
GatorSlough	2	Max WS	859.68	-6.50	10.20		10.21	0.000000	0.15	10947.81	1731.30	0.01
GatorSlough	1	Max WS	241.49	-7.70	10.20	-7.41	10.20	0.000000	0.04	7028.40	752.95	0.00

Option 1: 500-yr surge with SLR

HEC-RAS Plan: alt2-500-SLR Locations: User Defined Profile: Max WS

River	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)	
GatorSlough	GatorSlough	6	Max WS	1027.00	-5.18	11.41		11.41	0.000001	0.26	5717.60	798.68	0.01
GatorSlough	GatorSlough	5	Max WS	1010.96	-5.18	11.41	-4.19	11.41	0.000001	0.29	3755.10	1193.11	0.01
GatorSlough	GatorSlough	4.95		Inl Struct									
GatorSlough	GatorSlough	4.9	Max WS	1010.96	-5.18	11.41		11.41	0.000001	0.29	3618.75	1193.11	0.01
GatorSlough	GatorSlough	4.89	Max WS	1010.91	-5.18	11.41	-4.31	11.41	0.000001	0.28	3810.36	1193.11	0.01
GatorSlough	GatorSlough	4.75		Bridge									
GatorSlough	GatorSlough	4.6	Max WS	1010.91	-5.18	11.40		11.40	0.000002	0.39	2935.65	1188.83	0.02
GatorSlough	GatorSlough	4.59	Max WS	1010.86	-5.18	11.40	-4.08	11.40	0.000002	0.39	2935.65	1188.83	0.02
GatorSlough	GatorSlough	4.35		Bridge									
GatorSlough	GatorSlough	4	Max WS	1010.86	-5.18	11.39		11.39	0.000001	0.29	3988.50	1192.17	0.01
GatorSlough	GatorSlough	3	Max WS	1005.25	-5.20	11.39		11.39	0.000001	0.28	4820.36	1212.97	0.01
GatorSlough	GatorSlough	2	Max WS	890.38	-6.50	11.38		11.38	0.000000	0.14	12989.13	1731.30	0.01
GatorSlough	GatorSlough	1	Max WS	237.16	-7.70	11.38	-7.42	11.38	0.000000	0.04	7916.88	752.95	0.00

Option 2: 50-yr surge

HEC-RAS Plan: alt1-50 River: GatorSlough Reach: GatorSlough Profile: Max WS

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)	
GatorSlough	6	Max WS	1027.00	-5.18	6.15		6.15	0.000003	0.41	2583.99	599.62	0.02
GatorSlough	5	Max WS	1018.78	-5.18	6.15	-4.19	6.15	0.000004	0.45	2308.99	358.15	0.02
GatorSlough	4.95		Inl Struct									
GatorSlough	4.9	Max WS	1018.78	-5.18	6.14		6.14	0.000004	0.45	2302.41	353.29	0.02
GatorSlough	4.89	Max WS	1018.76	-5.18	6.14	-4.30	6.14	0.000003	0.41	2504.65	353.49	0.02
GatorSlough	4.75		Bridge									
GatorSlough	4.6	Max WS	1018.76	-5.18	6.13		6.13	0.000006	0.58	1762.70	466.63	0.03
GatorSlough	4.59	Max WS	1018.73	-5.18	6.13	-4.08	6.13	0.000006	0.58	1762.70	466.63	0.03
GatorSlough	4.35		Bridge									
GatorSlough	4	Max WS	1018.73	-5.18	6.12		6.12	0.000004	0.45	2267.51	302.08	0.02
GatorSlough	3	Max WS	1015.99	-5.20	6.12		6.12	0.000004	0.45	2267.40	303.10	0.02
GatorSlough	2	Max WS	933.33	-6.50	6.11		6.11	0.000001	0.25	4258.23	1154.84	0.01
GatorSlough	1	Max WS	528.81	-7.70	6.10	-7.22	6.10	0.000000	0.13	4365.29	528.13	0.01

Option 2: 50-yr surge with SLR

HEC-RAS Plan: surge-50-SLR Locations: User Defined Profile: Max WS

River	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)	
GatorSlough	GatorSlough	6	Max WS	1027.00	-5.18	7.32		7.32	0.000002	0.37	3262.93	785.59	0.02
GatorSlough	GatorSlough	5	Max WS	1009.43	-5.18	7.32	-4.19	7.32	0.000003	0.40	2625.57	1102.28	0.02
GatorSlough	GatorSlough	4.95		Inl Struct									
GatorSlough	GatorSlough	4.9	Max WS	1009.43	-5.18	7.31		7.31	0.000003	0.40	2593.93	1099.78	0.02
GatorSlough	GatorSlough	4.89	Max WS	1009.37	-5.18	7.31	-4.31	7.31	0.000002	0.37	2793.79	1099.90	0.02
GatorSlough	GatorSlough	4.75		Bridge									
GatorSlough	GatorSlough	4.6	Max WS	1009.37	-5.18	7.30		7.31	0.000005	0.52	2000.48	1188.83	0.03
GatorSlough	GatorSlough	4.59	Max WS	1009.30	-5.18	7.30	-4.09	7.31	0.000005	0.52	2000.48	1188.83	0.03
GatorSlough	GatorSlough	4.35		Bridge									
GatorSlough	GatorSlough	4	Max WS	1009.30	-5.18	7.30		7.30	0.000003	0.40	2587.54	1192.17	0.02
GatorSlough	GatorSlough	3	Max WS	1001.55	-5.20	7.29		7.30	0.000003	0.40	2629.06	1073.54	0.02
GatorSlough	GatorSlough	2	Max WS	852.22	-6.50	7.28		7.28	0.000001	0.20	5912.55	1601.57	0.01
GatorSlough	GatorSlough	1	Max WS	403.18	-7.70	7.28	-7.30	7.28	0.000000	0.09	5015.57	581.29	0.00

Option 2: 100-yr surge

HEC-RAS Plan: alt1-100 River: GatorSlough Reach: GatorSlough Profile: Max WS

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)	
GatorSlough	6	Max WS	1027.00	-5.18	7.34		7.35	0.000002	0.37	3276.42	787.30	0.02
GatorSlough	5	Max WS	1005.62	-5.18	7.34	-4.20	7.35	0.000002	0.39	2631.86	1105.37	0.02
GatorSlough	4.95		Inl Struct									
GatorSlough	4.9	Max WS	1005.62	-5.18	7.33		7.34	0.000002	0.39	2599.65	1103.97	0.02
GatorSlough	4.89	Max WS	1005.54	-5.18	7.33	-4.31	7.34	0.000002	0.37	2799.46	1104.01	0.02
GatorSlough	4.75		Bridge									
GatorSlough	4.6	Max WS	1005.54	-5.18	7.32		7.33	0.000004	0.52	2005.21	1188.83	0.03
GatorSlough	4.59	Max WS	1005.47	-5.18	7.32	-4.09	7.33	0.000004	0.52	2005.21	1188.83	0.03
GatorSlough	4.35		Bridge									
GatorSlough	4	Max WS	1005.47	-5.18	7.31		7.32	0.000003	0.40	2592.61	1192.17	0.02
GatorSlough	3	Max WS	998.01	-5.20	7.31		7.32	0.000003	0.39	2636.14	1088.29	0.02
GatorSlough	2	Max WS	843.37	-6.50	7.30		7.31	0.000001	0.20	5945.82	1614.14	0.01
GatorSlough	1	Max WS	474.68	-7.70	7.30	-7.25	7.30	0.000000	0.10	5027.21	582.44	0.00

Option 2: 100-yr surge with SLR

HEC-RAS Plan: alt1-100-SLR Locations: User Defined Profile: Max WS

River	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)	
GatorSlough	GatorSlough	6	Max WS	1027.00	-5.18	8.52		8.53	0.000002	0.33	3980.43	790.78	0.02
GatorSlough	GatorSlough	5	Max WS	1005.60	-5.18	8.52	-4.20	8.52	0.000002	0.36	2957.49	1193.11	0.02
GatorSlough	GatorSlough	4.95		Inl Struct									
GatorSlough	GatorSlough	4.9	Max WS	1005.60	-5.18	8.51		8.52	0.000002	0.36	2895.19	1193.11	0.02
GatorSlough	GatorSlough	4.89	Max WS	1005.53	-5.18	8.51	-4.31	8.52	0.000002	0.33	3092.62	1193.11	0.02
GatorSlough	GatorSlough	4.75		Bridge									
GatorSlough	GatorSlough	4.6	Max WS	1005.53	-5.18	8.50		8.51	0.000003	0.47	2275.16	1188.83	0.02
GatorSlough	GatorSlough	4.59	Max WS	1005.45	-5.18	8.50	-4.09	8.51	0.000003	0.47	2275.16	1188.83	0.02
GatorSlough	GatorSlough	4.35		Bridge									
GatorSlough	GatorSlough	4	Max WS	1005.45	-5.18	8.49		8.50	0.000002	0.36	2914.64	1192.17	0.02
GatorSlough	GatorSlough	3	Max WS	998.25	-5.20	8.49		8.50	0.000002	0.35	3093.44	1147.18	0.02
GatorSlough	GatorSlough	2	Max WS	840.84	-6.50	8.48		8.49	0.000000	0.17	7970.28	1731.30	0.01
GatorSlough	GatorSlough	1	Max WS	377.11	-7.70	8.48	-7.32	8.48	0.000000	0.08	5756.85	667.87	0.00

Option 2: 500-yr surge

HEC-RAS Plan: alt1-500 River: GatorSlough Reach: GatorSlough Profile: Max WS

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)	
GatorSlough	6	Max WS	1027.00	-5.18	10.24		10.24	0.000001	0.29	5007.86	794.21	0.01
GatorSlough	5	Max WS	1009.11	-5.18	10.24	-4.19	10.24	0.000001	0.31	3430.33	1193.11	0.01
GatorSlough	4.95		Inl Struct									
GatorSlough	4.9	Max WS	1009.11	-5.18	10.23		10.23	0.000001	0.32	3324.16	1193.11	0.01
GatorSlough	4.89	Max WS	1009.05	-5.18	10.23	-4.31	10.23	0.000001	0.30	3518.14	1193.11	0.01
GatorSlough	4.75		Bridge									
GatorSlough	4.6	Max WS	1009.05	-5.18	10.22		10.22	0.000002	0.42	2666.94	1188.83	0.02
GatorSlough	4.59	Max WS	1008.99	-5.18	10.22	-4.09	10.22	0.000002	0.38	6488.59	1188.83	0.02
GatorSlough	4.35		Bridge									
GatorSlough	4	Max WS	1008.99	-5.18	10.21		10.21	0.000001	0.30	6758.93	1192.17	0.01
GatorSlough	3	Max WS	1002.73	-5.20	10.21		10.21	0.000001	0.28	6444.16	1212.97	0.01
GatorSlough	2	Max WS	865.33	-6.50	10.21		10.21	0.000000	0.15	10948.14	1731.30	0.01
GatorSlough	1	Max WS	240.26	-7.70	10.20	-7.42	10.20	0.000000	0.04	7028.40	752.95	0.00

Option 2: 500-yr surge with SLR

HEC-RAS Plan: alt1-50-SLR Locations: User Defined Profile: Max WS

River	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)	
GatorSlough	GatorSlough	6	Max WS	1027.00	-5.18	11.41		11.41	0.000001	0.26	5716.71	798.68	0.01
GatorSlough	GatorSlough	5	Max WS	1012.22	-5.18	11.41	-4.19	11.41	0.000001	0.29	3754.69	1193.11	0.01
GatorSlough	GatorSlough	4.95		Inl Struct									
GatorSlough	GatorSlough	4.9	Max WS	1012.22	-5.18	11.40		11.41	0.000001	0.29	3618.37	1193.11	0.01
GatorSlough	GatorSlough	4.89	Max WS	1012.17	-5.18	11.40	-4.31	11.41	0.000001	0.28	3809.99	1193.11	0.01
GatorSlough	GatorSlough	4.75		Bridge									
GatorSlough	GatorSlough	4.6	Max WS	1012.17	-5.18	11.40		11.40	0.000002	0.39	2935.33	1188.83	0.02
GatorSlough	GatorSlough	4.59	Max WS	1012.12	-5.18	11.40	-4.08	11.40	0.000001	0.34	7886.50	1188.83	0.01
GatorSlough	GatorSlough	4.35		Bridge									
GatorSlough	GatorSlough	4	Max WS	1012.12	-5.18	11.39		11.39	0.000001	0.27	8163.60	1192.17	0.01
GatorSlough	GatorSlough	3	Max WS	1006.94	-5.20	11.39		11.39	0.000001	0.25	7873.36	1212.97	0.01
GatorSlough	GatorSlough	2	Max WS	896.70	-6.50	11.38		11.38	0.000000	0.14	12989.41	1731.30	0.01
GatorSlough	GatorSlough	1	Max WS	236.89	-7.70	11.38	-7.42	11.38	0.000000	0.04	7916.88	752.95	0.00