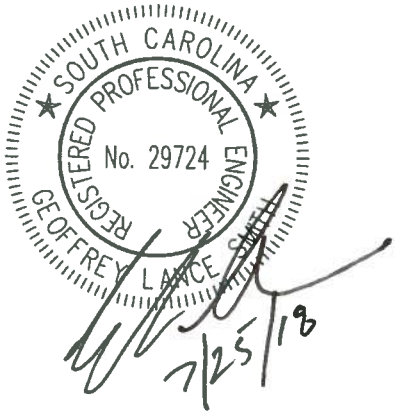
Sumter County

Second Mill Pond Dam

CLOMR Submittal

File No. 60494398





Prepared for:

SUMTER COUNTY
1289 N. MAIN STREET
SUMTER, SC 29153

Prepared by:

AECOM
4016 SALT POINTE PARKWAY, SUITE 200
NORTH CHARLESTON, SOUTH CAROLINA 29405

January 2018

Revised July 2018

TABLE OF CONTENTS

SECTION 1 BACKGROUND 1-1
1.1 Site Background and Project Introduction 1-1
1.2 Reservoir Description 1-1
1.3 Existing Spillway Description 1-1
1.4 Reach Condition 1-1
1.5 Watershed Hydrology 1-2

SECTION 2 HYDROLOGIC AND HYDRAULIC MODELS DEFINED 2-1

SECTION 3 FLOODPLAIN MAPPING AND RESULTS 3-1
3.1 Floodplain Mapping and Results 3-1
3.2 Alternative Analysis 3-2
3.3 Results and Discussion 3-2

SECTION 4 REFERENCES 4-1

LIST OF TABLES

Table 1-1: Second Mill Pond Watershed Land Use and Curve Number Data. 1-2

APPENDICES

Appendix A: Figures
Appendix B: Tables
Appendix C: Floodplain and Floodway HEC-RAS Output
Appendix D: HEC-HMS Output
Appendix E: Effective FIS Data and FIRM
HEC-2 FEMA Provided Data
Appendix F: Topographic Map
Appendix G: Revised FIRM
Appendix H: Property Owner Notification and Public Notice
Appendix I: Project Plans

EXECUTIVE SUMMARY

The Second Mill Pond Dam, in Sumter, South Carolina, provides flood relief to downstream areas surrounding Green Swamp. The dam is located at Old West Liberty Street between Loring Mill Road and S. Guignard Drive in Sumter County, South Carolina. Following damage from the October 2015 flood event, Sumter County is preparing to rehabilitate the Second Mill Pond Dam's primary spillway and construct an auxiliary spillway. The proposed auxiliary spillway is a 300 feet long concrete broad crested spillway located northeast of the primary spillway with a crest elevation of 146.0 feet above mean sea level (MSL). The addition of the auxiliary spillway is being required by the Federal Emergency Management Agency (FEMA) in order to bring the dam up to current dam safety regulations.

Second Mill Pond Dam is an approximately 17 foot tall, intermediate sized earthen dam with a Class I hazard classification (SC Regulation 72-2). The reservoir has a surface area of approximately 207 acres at normal pool elevation, an approximate storage capacity of 1520 acre feet at normal pool elevation and a drainage area of 42 square miles. The crest of the dam is approximately 147.5 feet and normal pool elevation is 144.5 feet above MSL. The primary spillway for bypass flows is a concrete spillway with two labyrinth weirs with each weir having two gates leading to separate 12' wide by 10' tall concrete box culverts. Two flared end headwalls are located on the downstream side of the weir as water discharges to Green Swamp. The two concrete box culverts are 45 feet long and have an outlet invert of 134.9 feet above MSL.

Four model scenarios were conducted using two software packages provided by the United States Army Corps of Engineers (USACE), the Hydrologic Engineering Center's Hydrologic Modeling System (HEC-HMS) and River Analysis System (HEC-RAS), to determine flooding conditions as required by the FEMA for this CLOMR submittal. A Duplicate Effective Model, Corrective Effective Model, Existing Conditions Model, and Proposed Conditions Model were developed for this submittal.

The resulting water surface elevation profiles for the Existing Conditions Model, and the Proposed Conditions Model were overlain on a topographic map of the lower reaches of Green Swamp and the resulting floodplain boundaries were delineated. These boundaries were compared with the established Flood Insurance Rate Map (FIRM) boundaries. Finally, county tax map parcels were included in the map so that affected property owners could be identified and notified.

Section 1

BACKGROUND

1.1 Site Background and Project Introduction

Second Mill Pond Dam impounds Second Mill Pond/Green Swamp upstream and controls downstream flow in Green Swamp in Sumter County, South Carolina. The dam is owned and operated by Sumter County and is located along Old West Liberty Street approximately 3.2 miles upstream of the confluence with Pocotaligo River, see the Vicinity Map, Appendix A. The Second Mill Pond Dam is permitted as Dam D-1444 with the South Carolina Department of Health and Environmental Control (SCDHEC) and is an Intermediate sized earthen dam carrying a Class I hazard classification (SC Regulation 72-2).

Following damage from the October 2015 flood event, Sumter County is preparing to rehabilitate the Second Mill Pond Dam's primary spillway, raise the road level of Old West Liberty Road, and construct an auxiliary spillway. The proposed auxiliary spillway is being required by the FEMA in order to bring the dam up to current dam safety regulations. With the addition of the auxiliary spillway and the raising of Old West Liberty Road, the dam will be adequately sized for the Probable Maximum Flood (PMF) event as required by FEMA.

1.2 Reservoir Description

The surface area of Second Mill Pond is approximately 207 acres at the normal pool elevation of 144.5 feet above MSL, see the Drainage Area and Reservoir Map, Appendix A. It has a design storage volume of 4,000 acre-feet and surface area of 525 acres at the crest elevation of 149.0 above MSL.

1.3 Existing Spillway Description

The primary spillway for bypass flows is a concrete spillway with two labyrinth weirs with each weir having two gates leading to separate 12' wide by 10' tall concrete box culverts. Two flared end headwalls are located on the downstream side of the weir as water discharges to Green Swamp. The two concrete box culverts are 45 feet long and have an outlet invert of 134.9 feet above MSL.

1.4 Reach Condition

The lower reaches of Green Swamp lie between the Second Mill Pond Dam and its confluence with the Pocotaligo River. The creek is slightly sinuous, relatively low sloped, and contains several wide floodplains along its length. The land adjacent to the floodplain is a mix of light/heavy industrial, commercial and residential. Six (6) bridges cross Green Swamp south of the Second Mill Pond Dam.

1.5 Watershed Hydrology

Second Mill Pond Dam has a contributing drainage area of 42 square miles composed of several land use types including commercial, residential and recreational uses along with forested land, agricultural land, urban land, forested wetlands and water. Table 1-1 gives the land use breakdown for this watershed along with the composite curve number that was calculated as 69.

Table 1-1: Second Mill Pond Watershed Land Use and Curve Number Data.

Land Use	Area (acres)	Area (Sq. mi.)	Curve Number (Soil Group C)
Agricultural Land	6735	10.6	78
Forest	7004	11.0	60
Forested Wetlands	6196	9.7	66
Urban/Residential	9370	10.1	70
Ponds/Lakes	780	0.83	98
Total Area and Composite Curve Number		**42**	**69**

The reach length from the headwaters of the drainage area to Second Mill Pond is approximately 12.5 miles and has an average slope of 0.3 %. The time of concentration for the Second Mill Pond watershed was estimated to be 5 hours based on the SCS TR-55 method.

According to the South Carolina State Climate Office the area near Second Mill Pond receives an average annual total precipitation of 47.17 inches per year. The precipitation depth for the 100 Year SCS Type II design storm event is 9.50 inches (SCDHEC) and the 500 Year SCS Type II design storm event is 13.3 inches (SCDHEC).

HYDROLOGIC AND HYDRAULIC MODELS DEFINED

All hydrologic modeling for this CLOMR was conducted using the HEC-HMS Version 4.2. All hydraulic modeling for this CLOMR was conducted using the HEC-RAS Version 5.0. Digital versions of all hydrologic and hydraulic models have been included as a CD attachment to this document.

Duplicate Effective Model

The Duplicate Effective Model is a copy of the hydrologic and hydraulic analysis used in the effective Flood Insurance Study (FIS). In this case, the Duplicate Effective Model is represented by the FEMA provided 1975 HEC-2 model results, which were unchanged with the latest FIS update effective February 16, 2007. With the limited information provided from FEMA it is difficult to determine the basis of the hydrologic and hydraulic analysis and resulting design flows incorporated in to the 1975 effective model. The HEC-2 model results were reproduced within HEC-RAS to create the Duplicate Effective Model. The effective flows were incorporated into the model as shown in Table B-1, Appendix B.

Floodway encroachment data or floodway outputs were not included in the 1975 HEC-2 model results provided by FEMA. As a result a new floodway analysis was completed trying to recreate floodway data as presented in the effective FIS. The floodway analysis includes the extent of the effective floodway shown on the FIRM map between cross sections N and just downstream of cross section E.

Floodway data presented in the effective FIS was used as the basis of the developed encroachment stations. The encroachment widths in the duplicate effective model are consistent with the effective FIS rather than the effective FIRM maps due to slight inconsistencies between the effective datasets.

Corrective Effective Model

Station numbering was revised for the Corrective Effective Model to more accurately show each stations distance upstream from the confluence with the Pocotaligo River. Modifications to station numbering can be found in Table B-2, Appendix B.

The Corrective Effective Model adds updated topographic information to the Duplicate Effective Model. Updated topographic information includes the use of a terrain dataset derived from currently available Light Detection and Ranging (LIDAR) data. This dataset is more accurate than that which was available at the time of the effective analysis and better represents the study area floodplain.

A number of cross sections were added to the Corrective Effective Model to more accurately study cross sections not included in the 1975 effective study. A cross section was added at Second Mill Pond Dam along Old West Liberty Street along with cross sections immediately upstream and downstream of the dam. This uppers section of the project area was not included in the effective model analysis.

Additionally, cross sections were added upstream and downstream of McCrays Mill Road and Kingsbury Drive. Bridge data for these new roads/bridges was not added for the Corrective Effective Model as the bridges were constructed after the effective study.

The Duplicate Effective model failed to accurately model bridge geometry at each of the bridge routines included. The Duplicate Effective model, copying the 1975 effective model, included relatively large openings at bridge routines which inaccurately represented real life conditions. In reality, bridge openings were much smaller within the study area leading to constricted flow at bridge routines. To more accurately model conditions at these bridges, AECOM completed a detailed survey bridge survey at Oakland Avenue and took approximate bridge opening estimates at the remaining bridges within the study area. This survey and field investigation confirmed previous assumption related to bridge geometries. Results from the survey and field investigation were incorporated into the Corrective Effective Model for the respective bridge routines. This adjustment to bridge geometries had a significant impact on flow conditions upstream and downstream of the bridges and resulted in constricted flow at bridge routines and raised water surface elevations for the modeled flows. The inaccurate bridge geometry of the effective model resulted in a 1% annual chance floodplain boundary that was significantly lower than it is in reality.

Channel dimensions and elevations upstream and downstream of the bridges were also collected by AECOM as they investigated the bridge geometries. Based on the updated channel elevations collected, the overall channel profile was modified within the study area. It was assumed that a relatively linear slope is present throughout the study area; therefore, channel bottom elevations were able to be interpolated between surveyed bridges. Channel bottom widths and channel side slopes were unchanged but the channel top width was adjusted accordingly to compensate for the modification of the channel bottom elevation. A comparison of the Effective Study and Corrective Effective Study channel invert elevations can be viewed in Table B-2, Appendix B.

The encroachment data developed for the Duplicate Effective Model was used as the basis of the floodway analysis for the Corrective Effective Model. Encroachment stations remained unchanged with the exception of the last three cross sections of the Corrective Effective Model. The floodway widths for the last three cross sections (XS 11615, XS 11585, XS 11570) were widened to maintain surcharge values between 0 and 1.

Existing Conditions Model

The Existing Conditions Model reflects the current conditions of the Second Mill Pond Dam based on 2016 AECOM survey data of the dam and surrounding area. An updated hydrologic analysis was also completed for the drainage area contributing to Second Mill Pond Dam and downstream Green Swamp. This hydrologic analysis included updated drainage area, land use, and time of concentration calculations. The hydrologic analysis revealed significantly higher anticipated storwater flows from the upstream drainage area. These increased stormwater flows could be a result of many factors including more accurate hydrologic and hydraulic data and increased urbanization in the upstream drainage area. As a result of these modifications, the discharge flows at the Second Mill Pond Dam increased from the

effective analysis. Without knowing the basis of the original hydrologic and hydraulic analysis for the effective model it is difficult to know the factors which contribute to these changes in anticipated stormwater flows to the study area. The existing flows are located in Table B-1, Appendix B.

At the time of the effective analysis, the roadways and bridges located along Kingsbury Drive and McCrays Mill Road were not present. Updated survey data for these roadways, bridges, and surrounding area was collected by AECOM in 2017 and incorporated into the Existing Conditions model.

The encroachment data developed for the Corrective Effective Model was used as the basis of the floodway analysis for the Existing Conditions Model. Encroachment stations remained unchanged with the exception of the last three cross sections of the Existing Conditions Model. The floodway widths for Cross Section 12190 and the last three cross sections (XS 11615, XS 11585, XS 11570) were widened to maintain surcharge values between 0 and 1.

Proposed Conditions Model

The Proposed Conditions Model reflects the proposed auxiliary spillway for Second Mill Pond Dam and the raising of Old West Liberty Street roadway. The proposed auxiliary spillway is a 300 feet long concrete broad crested spillway located northeast of the primary spillway with a crest elevation of 146.0 feet above MSL. The proposed auxiliary spillway would be located north of the primary spillway and be activated at approximately the 0.2% annual chance storm event. Old West Liberty Street proposed elevation would be 149.0 feet above MSL. Full details of the auxiliary spillway and roadway are shown in the construction plans attached to this narrative document.

The addition of the auxiliary spillway results in modified discharge flow from Second Mill Pond Dam. The 1% annual chance storm event flows are slightly increased from the Existing Conditions Model. This is a result of the auxiliary spillway being engaged at around the 4% annual chance storm event. The 0.2% annual chance storm event flows are slightly less than the Existing Conditions Model as a result of the auxiliary spillway preventing overtopping of the dam during the 0.2% annual chance storm event. The proposed flows were calculated using HEC-HMS 4.2 and these values are located in Table B-1, Appendix B.

The encroachment data developed for the Existing Conditions Model was used as the basis of the floodway analysis for the Proposed Conditions Model. Encroachment stations remained unchanged with the exception of the Cross Section 12190 and the last three cross sections of the Proposed Conditions Model. The floodway widths for Cross Section 12190 and the last three cross sections (XS 11615, XS 11585, XS 11570) were widened to maintain surcharge values between 0 and 1.

Section 3

FLOODPLAIN AND FLOODWAY RESULTS

3.1 Floodplain and Floodway Results

Existing Conditions and Proposed Conditions 1% and 0.2% annual chance floodplain boundaries were developed using the same updated terrain dataset that was used to generate the model cross-section geometries. These boundaries were compared with the established FIRM boundaries.

Duplicate Effective Model

The Duplicate Effective Model produced very similar floodplain water surface elevations compared to the FEMA provided HEC-2 model results (effective model). Every effort was made to reproduce the effective analysis results based on the information given from FEMA. The effective study floodplain limits were mapped for the purposes of this CLOMR submittal. These maps are located in Appendix C.

Floodway data presented in the effective FIS was used as the basis of the developed encroachment stations. The encroachment widths in the duplicate effective model are consistent with the effective FIS rather than the effective FIRM maps due to slight inconsistencies between the effective datasets. Floodway encroachment limits are outlined in Table B-5, Appendix B

Corrective Effective Model

Updated topographic information and modifications to the bridge routines as described in Section 2 resulted in increased water surface elevations throughout much of the study area for the 1% chance and 0.2% annual chance rain event. Table B-3, Appendix B shows the changes in water surface elevation at each cross section within the study area.

The floodway widths for the last three cross sections (XS 11615, XS 11585, XS 11570) were widened to maintain surcharge values between 0 and 1. Floodway encroachment limits are outlined in Table B-5, Appendix B

Existing Conditions Model

Updated hydrologic and hydraulic analysis along with the addition of two bridges routines as described in Section 2 resulted in increased water surface elevations throughout much of the study area for the 1% chance and 0.2% annual chance rain event. Table B-3, Appendix B shows the changes in water surface elevation at each cross section within the study area.

The floodway widths for Cross Section 12190 and the last three cross sections (XS 11615, XS 11585, XS 11570) were widened to maintain surcharge values between 0 and 1. Floodway encroachment limits are outlined in Table B-5, Appendix B.

Proposed Conditions Model

A proposed auxiliary spillway and raising of Old West Liberty Street as described in Section 2 resulted in slightly increased water surface elevations for the 1% annual chance storm event in comparison to the Existing Conditions Model. This slight increase is due to the addition of the auxiliary spillway which would be activated at approximately the 4% annual chance storm event and result in higher flows during the 1% annual chance storm event in comparison to the existing conditions. In contrast, the proposed conditions resulted in a slight decrease in the 0.2% annual chance storm event flows and water surface elevations. This slight decrease is a result of the auxiliary spillway being activated which prevents overtopping of the primary spillway during the 0.2% annual chance storm event. Under existing conditions, the primary spillway does overtop during the 0.2% annual chance storm event. Table B-3, Appendix B shows the changes in water surface elevation at each cross section within the study area.

The floodway widths for Cross Section 12190 and the last three cross sections (XS 11615, XS 11585, XS 11570) were widened to maintain surcharge values between 0 and 1. Floodway encroachment limits are outlined in Table B-5, Appendix B.

3.2 Alternative Analysis

The proposed auxiliary spillway at Second Mill Pond Dam is the only feasible solution to the flooding and overtopping issue at the dam. The proposed auxiliary spillway is a 300 feet long concrete broad crested spillway located northeast of the primary spillway with a crest elevation of 146.0 feet above mean sea level (MSL). The addition of the auxiliary spillway is being required by the Federal Emergency Management Agency (FEMA) in order to bring the dam up to current dam safety regulations. The auxiliary spillway is the only effective, economical, and practical way to prevent future flooding and overtopping of Second Mill Pond Dam.

The addition of this proposed spillway will only slightly increase the 1% annual chance floodplain boundary in comparison to the existing 1% chance annual floodplain boundary as determined in the Existing Conditions Model. The addition of this proposed spillway will slightly decrease the 0.2% annual chance floodplain boundary in comparison to the existing 0.2% annual floodplain boundary. The effective model, which was used as the basis for the current FIS Study and FIRM maps, failed to accurately show downstream cross section and bridge geometries which resulted in a base flood elevation significantly lower than what existing conditions show. See Tables B-3 and B-4 in Appendix B for a comparison of effective, existing and proposed water surface elevations. See maps located in Appendix C for a comparison of the flood boundaries.

3.3 Results and Discussion

Based on the discussion presented in Section 2, the effective study does not accurately represent the hydrologic conditions, hydraulic conditions, flood plain geometry, channel geometry, bridge geometry, and channel profile currently present at Second Mill Pond Dam and the downstream Green Swamp. The

Existing Conditions Model effectively incorporated these updates and resulted in a hydrologic and hydraulic model which more accurately reflects real life conditions. The Existing Conditions Model results in increased stormwater flows to the study area and higher water surface elevations within the study area. These higher water surface elevations result in an altered 1% and 0.2% annual chance floodplain boundary which in general covers a greater area than shown in the effective FIRM. See Appendix C for a comparison of floodplain boundaries for the Duplicate Effective Model, Existing Model, and Proposed Model.

The proposed improvements to Second Mill Pond Dam include rehabilitating the primary spillway, raising the road level of Old West Liberty Road, and constructing an auxiliary spillway. These improvements are in response to October 2015 flood damage and the need to restore the dam to current dam safety regulations. The 1% annual chance water surface elevations and floodplain boundary would be slightly increased as a result of these improvements but results in no additional parcels or structures being inundated as a result of the proposed work. See Table B-3, Appendix B for a comparison of water surface elevations between developed HEC-RAS models. The 1% annual chance floodplain boundary would also be slightly larger as a result of these improvements but again would not inundate any additional parcels or structures as a result of the work. See Table B-8 and B-9, Appendix B for a list of Existing and Proposed parcels and structures atleast partially inundated by the 1% annual chance floodplain. See Appendix C for a comparison of floodplain conditions for the Duplicate Effective Model, Existing Model, and Proposed Model.

The 0.2% annual chance water surface elevations would be slightly decreased as a result of these improvements. See Table B-4, Appendix B for a comparison of water surface elevations between developed HEC-RAS models. The 0.2% annual chance floodplain boundary would also be slightly smaller as a result of these improvements. See Appendix C for a comparison of floodplain conditions for the Duplicate Effective Model, Existing Model, and Proposed Model.

The Existing Conditions and Proposed Conditions floodplain boundaries differ from the effective FIRM and resulted in more properties and/or structures being atleast partially within these boundaries. Table B-5, B-6, B-7, B-8, and B-9 Appendix B shows the comparison of the number of parcels and structures atleast partially inundated as a result of the 1% annual chance floodplain boundary for the effective FIRM, Existing Condtions and Proposed Conditions. It should be noted that the increase in 1% annual chance floodplain boundary from the Existing Conditions boundary to the Proposed Conditions is minor and results in no additional parcel or structures becoming inundated.

Properties owners affected by the proposed modification to the 1% annual chance floodplain boundary have been notified by Sumter County. See Appendix H for the individual notification sent to property owners.

REFERENCES

NOAA, Hydrometeorological Report No. 51, Probable Maximum Precipitation Estimates, United States East of the 105th Meridian, June 1978. http://www.nws.noaa.gov/oh/hdsc/PMP_documents/HMR51.pdf

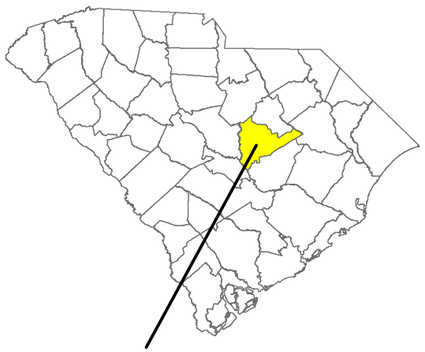
USACE. HEC-HMS. Hydraulic Modeling System. Version 4.2. August 12, 2016. Hydrologic Engineering Center, 609 Second Street, Davis CA 95616.

USACE. HEC-RAS. River Analysis System. Version 5.0. February 2016. Hydrologic Engineering Center, 609 Second Street, Davis CA 95616.

APPENDIX A

Figures

INSET



Sumter County, South Carolina

SUMTER

MAYESVILLE

Second Mill Pond Dam

441 76 261 763 120 15 401 154 521 527 53 378

N W E S

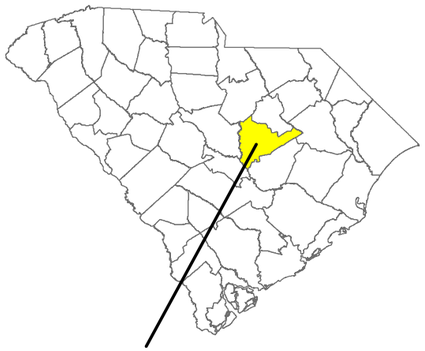
0 2 4 Miles

Vicinity Map
Second Mill Pond Dam

Prepared On: 12/5/2017	
Prepared By: RAS	
Project Number: 60494398	SUMTER COUNTY
	AECOM
	Appendix A

AECOM
C:\60494398_Sumter County - 2nd Mill Pond Dam Evaluation\900-Work\920-GIS_Surveying\Maps\Vicinity_Map.mxd

INSET



Sumter County, South Carolina

Legend

- Second Mill Pond Dam Drainage Area
- Reservoir Outline
- Sumter City Limits

SUMTER

Second Mill Pond Dam

N

W E

S

0 1 2 Miles

Drainage Area & Reservoir Map
Second Mill Pond Dam

Prepared On: 12/5/2017	
Prepared By: RAS	
Project Number: 60494398	

SUMTER COUNTY

AECOM

Appendix A

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

AECOM
C:\60494398_Sumter County - 2nd Mill Pond Dam Evaluation\900-Work\920-GIS_Surveying\Maps\Drainage_Area.mxd

APPENDIX B

Tables

Table B-1. Design Flows

1% Annual Chance Flow Values (CFS)					
Station	Station Description	Duplicate Effective Model	Corrective Effective Model	Existing Model	Proposed Model
18045	DS W. Liberty Bridge	4520	4520	10692	10695
17765	DS Old W. Liberty/Second Mill Pond Dam	4520	4520	9141	9573
17350	500' DS of Second Mill Pond Dam	4520	4520	9820	10641
14595	Confluence with Shot Pouch Branch	5200	5200	10500	11321

0.2% Annual Chance Flow Values (CFS)					
Station	Station Description	Duplicate Effective Model	Corrective Effective Model	Existing Model	Proposed Model
18045	DS W. Liberty Bridge	6400	6400	14279	14290
17765	DS Old W. Liberty/Second Mill Pond Dam	6400	6400	13045	12984
17350	500' DS of Second Mill Pond Dam	6400	6400	18412	18367
14595	Confluence with Shot Pouch Branch	7200	7200	19212	19167

Table B-2. Station Numbering and Channel Invert

Duplicate Effective Model		Corrective Effective Model	
River Station	Channel Invert Elevation	Station	Channel Invert Elevation
--	NA	18045	135.0
--	NA	17865	135.0
18800	130.0	17765	130.0
18350	130.0	17350	130.0
17350	129.9	16375	129.9
16350	128.8	15460	128.8
15445	127.6	14595	124.7
15345	124.2	14500	124.2
15295	124.2	14455	124.2
15270	124.2	14437	124.2
15255	124.2	14420	124.2
15245	Bridge	14385	Bridge
15195	124.2	14350	124.2
15180	130.2	14330	124.1
15155	130.2	14250	124.0
15105	130.1	14205	123.8
15005	129.9	14025	123.8
14000	127.6	13165	122.8
13210	126.0	12400	121.8
13110	125.5	Deleted	NA
13060	125.5	Deleted	NA
13035	125.5	Deleted	NA
13020	125.5	12220	121.6
13010	Bridge	12205	Bridge
12990	125.5	12190	121.6
12980	125.5	12148	121.5
12965	125.5	12120	121.5
12940	124.3	12075	121.5
12890	124.0	11988	121.4
12790	123.5	11945	121.3
12580	123.5	11795	121.1
12480	123.0	11675	121.0
12430	122.5	11615	120.9
12405	122.5	11585	120.9
12390	122.5	11570	120.9
12340	120.4	11530	120.8
--	NA	11480	120.8
12380	Bridge	11432	Bridge
--	NA	11390	120.8
12140	122.5	11370	120.6
--	NA	11315	120.6
--	NA	a	Bridge
--	NA	11195	120.6
11760	122.0	10980	120.1
10900	121.7	10220	118.9
9020	120.5	8575	116.5
--	NA	8410	116.2
9010	Bridge	8375	Bridge
8990	119.0	8340	116.2
8790	120.5	8305	116.1
6400	120.0	6090	112.8
5500	120.0	5220	111.5
4000	119.5	3985	109.6
--	--	3565	109.0
--	--	b	Bridge
--		3490	109.0
2500	119.3	2500	107.4

-- Station added to Corrective Effective Model showing cross section not included in effective analysis

a - McCrays Mill Road Bridge added to Existing Conditions Model

b - Kingsbury Drive Bridge added to Existing Conditions Model

Table B-3. 1% Annual Chance Floodplain Water Surface Elevation

		Duplicate Effective Model	Corrective Effective Model	Existing Conditions Model	Proposed Conditions Model
River Station	FEMA X Section	Water Surface Elevation (ft)	Water Surface Elevation (ft)	Water Surface Elevation (ft)	Water Surface Elevation (ft)
18045		--	148.72	149.10	147.78
17865		--	148.71	149.04	147.69
17835		Bridge	Bridge	Bridge	Bridge
17765		140.62	140.64	144.55	144.90
17350		140.00	140.07	144.40	144.75
16375		138.64	139.19	144.04	144.39
15460	N	137.86	138.63	143.80	144.14
14595		137.87	138.31	143.66	143.99
14500	M	137.80	138.27	143.64	143.97
14455		137.77	138.24	143.63	143.95
14437	L	137.75	138.23	143.62	143.95
14420		137.74	138.22	143.62	143.94
14385		Bridge	Bridge	Bridge	Bridge
14350		137.66	137.96	143.58	143.91
14330		137.65	137.96	143.58	143.90
14250	K	137.63	137.92	143.57	143.89
14205		137.58	137.90	143.56	143.88
14025		137.49	137.84	143.53	143.86
13165	J	136.85	137.62	143.43	143.75
12400	I	136.60	137.48	143.35	143.66
12220		136.56	136.89	142.98	143.30
12205		Bridge	Bridge	Bridge	Bridge
12190		135.58	136.47	141.71	142.05
12148	H	136.15	136.93	142.30	142.61
12120		136.14	136.92	142.29	142.60
12075		136.13	136.91	142.28	142.59
11988	G	136.09	136.88	142.27	142.58
11945		136.06	136.88	142.27	142.58
11795	F	135.97	136.84	142.25	142.56
11675		135.93	136.81	142.23	142.54
11615		135.90	136.80	142.23	142.53
11585	E	135.89	136.80	142.22	142.53
11570		135.88	136.79	142.22	142.53
11530		134.96	136.77	142.21	142.52
11480		--	136.57	142.19	142.50
11432		Bridge	Bridge	Bridge	Bridge
11390		--	134.10	142.14	142.44
11370		134.55	134.64	142.12	142.42
11315		--	134.69	142.14	142.44
11255		--	--	Bridge	Bridge
11195		--	134.64	138.74	139.38
10980		134.21	134.53	138.67	139.31
10220	D	133.41	134.11	138.31	138.95
8575		132.04	132.91	137.63	138.32
8410		--	131.79	135.90	136.52
8375		Bridge	Bridge	Bridge	Bridge
8340		130.44	130.19	130.66	131.14
8305	C	131.23	131.11	133.23	133.51
6090		129.58	129.50	131.09	131.34
5220	B	129.31	129.19	130.55	130.79
3985	A	129.03	128.98	130.08	130.30
3565		--	128.93	129.96	130.17
3525		--	--	Bridge	Bridge
3490		--	128.92	129.18	129.23
2500		128.83	128.83	128.83	128.83

-- Water Surface Elevation not calculated for field

Table B-4. 0.2% Annual Chance Floodplain Water Surface Elevation

		Duplicate Effective Model	Corrective Effective Model	Existing Conditions Model	Proposed Conditions Model
River Station	FEMA X Section	Water Surface Elevation (ft)	Water Surface Elevation (ft)	Water Surface Elevation (ft)	Water Surface Elevation (ft)
18045		--	149.16	150.04	148.72
17865		--	149.14	149.97	148.60
17835		Bridge	Bridge	Bridge	Bridge
17765		141.57	141.72	148.18	148.17
17350		140.98	141.21	148.05	148.03
16375		139.70	140.42	147.68	147.67
15460	N	139.12	139.88	147.40	147.39
14595		139.13	139.56	147.22	147.21
14500	M	139.06	139.52	147.20	147.19
14455		139.03	139.48	147.18	147.17
14437	L	139.01	139.47	147.18	147.16
14420		139.00	139.47	147.17	147.16
14385		Bridge	Bridge	Bridge	Bridge
14350		138.93	139.29	147.13	147.12
14330		138.92	139.29	147.13	147.12
14250	K	138.90	139.26	147.12	147.11
14205		138.86	139.24	147.11	147.10
14025		138.78	139.18	147.08	147.07
13165	J	138.24	138.95	146.95	146.93
12400	I	138.03	138.80	146.83	146.82
12220		137.99	137.91	146.62	146.61
12205		Bridge	Bridge	Bridge	Bridge
12190		136.54	137.24	146.50	146.49
12148	H	137.39	137.99	146.63	146.62
12120		137.38	137.99	146.63	146.61
12075		137.37	137.97	146.62	146.61
11988	G	137.33	137.94	146.60	146.59
11945		137.30	137.94	146.60	146.59
11795	F	137.22	137.90	146.58	146.57
11675		137.18	137.86	146.57	146.56
11615		137.15	137.85	146.57	146.55
11585	E	137.14	137.84	146.56	146.55
11570		137.14	137.84	146.56	146.55
11530		135.84	137.81	146.55	146.54
11480		--	137.66	146.54	146.53
11432		Bridge	Bridge	Bridge	Bridge
11390		--	135.56	146.51	146.49
11370		135.85	136.17	146.49	146.48
11315		--	136.22	146.50	146.49
11255		--	--	Bridge	Bridge
11195		--	136.18	146.22	146.20
10980		135.52	136.08	146.19	146.17
10220	D	134.76	135.67	146.02	146.00
8575		133.71	134.68	145.76	145.75
8410		--	133.25	145.06	145.04
8375		Bridge	Bridge	Bridge	Bridge
8340		130.12	130.49	135.11	135.08
8305	C	132.33	132.26	136.57	136.56
6090		130.95	130.90	135.02	135.00
5220	B	130.73	130.65	134.66	134.64
3985	A	130.49	130.45	134.33	134.32
3565		--	130.40	134.24	134.23
3525		--	--	Bridge	Bridge
3490		--	130.39	130.91	130.91
2500		130.30	130.30	130.30	130.30

-- Water Surface Elevation not calculated for field

Table B-5. Floodway Encroachment Limits

			Duplicate Effective Model		Corrective Effective Model		Existing Conditions Model		Proposed Conditions Model	
Duplicate Effective River Station	Corrected Effective River Station	FEMA X Section	Left Encroachment Station	Right Encroachment Station	Left Encroachment Station	Right Encroachment Station	Left Encroachment Station	Right Encroachment Station	Left Encroachment Station	Right Encroachment Station
16350	15460	N	322	1082	322	1082	322	1082	322	1082
15445	14595		308	1058	308	1058	308	1058	308	1058
15345	14500	M	340	1070	340	1070	340	1070	340	1070
15295	14455		340	1070	340	1070	340	1070	340	1070
15270	14437	L	340	1070	340	1070	340	1070	340	1070
15255	14420		345	1075	345	1075	345	1075	345	1075
15245	14385		Bridge	Bridge	Bridge	Bridge	Bridge	Bridge	Bridge	Bridge
15195	14350		335	1060	335	1060	335	1060	335	1060
15180	14330		335	1075	335	1075	335	1075	335	1075
15155	14250	K	340	1090	340	1090	340	1090	340	1090
15105	14205		345	1095	345	1095	345	1095	345	1095
15005	14025		350	1100	350	1100	350	1100	350	1100
14000	13165	J	508	1258	508	1258	508	1258	508	1258
13210	12400	I	213	1133	213	1133	213	1133	213	1133
13110	--		578	1353	--	--	--	--	--	--
13060	--		568	1343	--	--	--	--	--	--
13035	--		558	1333	--	--	--	--	--	--
13020	12220		553	1328	553	1328	553	1328	553	1328
13010	12205		Bridge	Bridge	Bridge	Bridge	Bridge	Bridge	Bridge	Bridge
12990	12190		563	1338	563	1338	610	1338	610	1345
12980	12148	H	568	1338	568	1338	568	1338	568	1338
12965	12120		578	1348	578	1348	578	1348	578	1348
12940	12075		579	1349	579	1349	579	1349	579	1349
12890	11988	G	624	1389	624	1389	624	1389	624	1389
12790	11945		698	1448	698	1448	698	1448	698	1448
12580	11795	F	754	1504	754	1504	754	1504	754	1504
12480	11675		774	1524	774	1524	774	1524	774	1524
12430	11615		1085	1835	1050	1835	975	1950	960	1960
12405	11585	E	1105	1855	1025	1890	960	1995	925	2005
12390	11570		1115	1865	985	1900	940	2025	910	2035

-- Station deleted from Corrective Effective Model

Table B-6. FEMA 1% Annual Chance Inundated Parcels

Parcel ID	Owner	Address	Street
2280003002	SUMTER CITY OF	822	W LIBERTY ST
2051302046	TISDALE RUTH B	32	HARRELL RD
2051302045	CORBETT STANLEY W ETAL	28	HARRELL RD
2051302060	TRUETT RAYMOND A & TERRAYNE L	0	LAWTON CIR
2270801088	COAKLEY JOE V & GREGORY T	14	BURKETT DR
2270702002	CITY OF SUMTER	0	GREEN SWAMP RD
2270801089	BANKERS TRUST COMPANY OF CAL NA TR	12	BURKETT DR
2270702001	JUSTICE FARMS OF NORTH CAROLINA LLC	411	GREEN SWAMP RD
2270802059	HAWTHORNE SAMUEL J	0	MCCRAYS MILL RD/1 CAPRI DR
2260002013	SINGLETON JULIAN J	0	SINGLETON LANE
2270802057	EALEY JEREMIAH & SOPHIA MAE	5	CAPRI DR
2260002014	SINGLETON JULIAN	0	WESTMORLAND
2060301014	BARNETTE FAMILY LTD PART	0	W LIBERTY ST
2051302059	FUDGER LARRY EDWARD	978	W LIBERTY ST
2060401023	HALLINAN JOHN DENNIS & GAIL S	1817	MILLWOOD RD
2051302036	AYERS RICHARD L	38	LAWTON CIR
2060403083	CITY OF SUMTER	37	WOODSIDE RD
2060403074	CITY OF SUMTER	1	WOODSIDE RD
2281602023	CARR EVELYN B ESTATE	60	HARRELL RD
2060403076	CITY OF SUMTER	7	WOODSIDE RD
2060403080	GRAHAM ISABELLE R	23	WOODSIDE RD
2270203058	PITTS JEREMY H	760	MARIGOLD STREET
2060401026	BEAP JOANN	1807	MILLWOOD RD
2270103033	SUMTER CITY OF	9	BRIARWOOD DR
2270203062	CHANDLER CAMERON G	800	MARIGOLD STREET
2270103029	MCCLURE EMMA T	19	BRIARWOOD DR
2060403084	GRAHAM ISABELLE R	41	WOODSIDE RD
2270101003	FORFEITED LAND COMMISSION	1721	W OAKLAND AVE
2270103014	HALLEY JESSICA M & COOK STEVEND	1	CURTISWOOD AVE
2270103028	CAMPBELL BARBARA R LE C/O ALTON HICE	15	BRIARWOOD DR
2270801067	HEYWARD FELICIA M	15	BURKETT DR
2270801063	DAVIS MELISSA A & DANIEL	25	BURKETT DR
2270801090	BUSSELL JERRI A	8	BURKETT DR
2270103007	KENDRICK NORRIS R	1714	W OAKLAND AVE
2270103027	REGIONAL SFR FUND LLC	13	BRIARWOOD DR
2270103030	FRETWELL JACQUELINE D	23	BRIARWOOD DR
2051302047	TISDALE RUTH B	34	HARRELL RD
2270802056	EALEY JEREMIAH & SOPHIA MAE	9	CAPRI DR
2270103031	FIELDS ANGELA M	25	BRIARWOOD DR
2270801069	GRAHAM ISABELLE R	9	BURKETT DR
2270801064	WATERS DAVID R	21	BURKETT DR
2060401029	SUMTER CITY OF	0	MILLWOOD SWAMP
2060403075	GRAHAM ISABELLE R	5	WOODSIDE RD
2060401022	COX FRANCES L	1821	MILLWOOD RD
2060401017	BLACKWOOD JOHNNIE M	1835	MILLWOOD RD
2270902012	BRADLEY FRANCIS D & DAVIS EMILY	0	DOW LANE
2270901034	WILLIAMS JOHNNY	535	MCCRAYS MILL RD
2271502037	LEE DANIEL C	798	CLUB LANE
2271502038	MYERS CHARLIE JR	800	CLUB LANE
2271502040	WILLIAMS LINDA V	804	CLUB LANE
2270801060	HOOTON GREG	43	BRIARWOOD DR
2270801066	WEATHERLY ASHLEIGH B	17	BURKETT DR
2271502041	HAIR KRYSTAL S	806	CLUB LANE
2260301007	BELY INC %VERITAS CHRISTIAN MINISTRIES	822	S GUIGNARD DR
2271502039	JACOB JOSHUA D	802	CLUB LANE
2260601003	SEALE J H & SONS INC	870	S GUIGNARD DR
2260301006	GEDDINGS MURRAY E & MURRAY E JR	818	S GUIGNARD DR
2260703021	BOYKIN MARVIN	678	MARLBOROUGH DR
2260301001	FOGLE JAN AUBREY & TOOTLE TAMRA FOGLE	0	OFF S GUIGNARD DR
2261101001	SPCA & HUMANE ED CENTER OF SUM	1100	S GUIGNARD DR
2261004003	HUGHES DAVID P	1245	PEPPERIDGE DRIVE
2261404005	WAFA INVESTMENTS LLC	1031	DECATUR ST
2261004002	MARTIN LISA A	1215	PEPPERIDGE DRIVE
2261501055	WELCH MICHAEL T	1305	PEPPERIDGE DRIVE
2261501053	HEABBELL SAMUEL L	1325	PEPPERIDGE DRIVE
2261004001	ADGER BREANA A & CANTY RICHARD A	668	KINGSBURY/1205 PEPPERIDGE DR
2261404001	WAFA INVESTMENTS LLC	1021	DECATUR ST
2261501052	HOOD VICKI C	1335	PEPPERIDGE DRIVE
2260703020	RICHARDSON DORIS M & WILLIE H	676	MARLBOROUGH DR
2261404003	WAFA INVESTMENTS LLC	1025	DECATUR ST
2261404004	WAFA INVESTMENTS LLC	1027	DECATUR ST
2261501054	DAVIS WILLIE LEE JR	1315	PEPPERIDGE DRIVE
2261404002	WAFA INVESTMENTS LLC	1023	DECATUR ST
2281602022	BURRISS ISABELLE	62	HARRELL RD
2060401025	RODENBERG JOSEPH R & CINDY	1811	MILLWOOD RD
2060401024	WELLS TERRANCE	1813	MILLWOOD RD
2270101004	BLANDING KAREN	1737	W OAKLAND AVE
2270203061	WILLIAMS JUANITA B	790	MARIGOLD STREET
2270801061	BURKETT HEIDI A	47	BRIARWOOD DR
2270801065	MALONEY BARBARA S	19	BURKETT DR
2270802053	WEEKS MARY A	23	CAPRI DR
2260002016	EQUITY TRUST CO CUSTODIAN ETALC/O CARL GULLEDGE JR	0	RD 43-522
2261004005	GEDDINGS OTIS R & DEBORAH	1265	PEPPERIDGE DRIVE
2250002024	EQUITY TRUST CO CUSTODIAN ETALC/O CARL GULLEDGE JR	0	HWY 15 SOUTH
2260002022	AYERS RICHARD L	635	KINGSBURY DR
2261501056	ROBBINS BRYAN P & MEADOWS AMELIA O	1275	PEPPERIDGE DRIVE
2261004004	WILLIAMS CHRISTOPHER LEE	1255	PEPPERIDGE DRIVE
2270102011	ROWELL JAMES MICHAEL	850	MARIGOLD STREET
2270203059	FRICKE JEFFREY	770	MARIGOLD STREET
2270001002	SUMTER CITY OF	0	W OAKLAND AVE
2281602024	CARR W J III &S TRUSTEE	58	HARRELL RD
2270102013	VIECZOREK BENJAMIN A	830	MARIGOLD STREET
2060401027	MITCHUM JAVAN T	1805	MILLWOOD RD
2270101005	SUMTER CITY OF	1705	W OAKLAND AVE
2270001009	SUMTER CITY OF	0	W OAKLAND AVE
2060401028	MITCHUM JAVAN T	1801	MILLWOOD RD
2270101002	WHITAKER MICHAEL A	1723	W OAKLAND AVE
2270101001	JAYMAUR LLC	1725	W OAKLAND AVE
2270203064	SCOTT COREY J	820	MARIGOLD STREET
2270802055	SINGLETON-HANNIBAL STARLA L	15	CAPRI DR
2270001006	SUMTER CITY OF	0	N OF OAKLAND
2270102010	WILLIAMS D E & JOYCE J	860	MARIGOLD STREET
2260002002	HUGHES JACQUELINE S ETAL	0	POSSUM HOLLOW WAY
2060401020	HINKLE JAMES N & JANNY	1827	MILLWOOD RD
2270001007	JUSTICE AUGUSTE C	0	OFF MARIGOLD STREET
2270102009	PORTER ERNEST J & HATTIE M	870	MARIGOLD STREET
2060403085	AVINS JIMMY L & PENELOPE P	45	WOODSIDE RD
2280003002	SUMTER CITY OF	822	W LIBERTY ST
2270901036	WILLIAMS JOHNNY	2	CAPRI DR
2060403082	GRAHAM ISABELLE R	33	WOODSIDE RD
2060403081	REGNA PROPERTIES LLC	27	WOODSIDE RD
2270901035	EVANS RAYMOND	6	CAPRI DR
2270902013	PETTIGREW ROBERT & BABETTE MEADOWS	0	DOW LANE
2271502012	COLE CHERYL	812	CLUB LANE
2271502043	SINGLETON MARY E	810	CLUB LANE
2271401014	JACKSON ISABELLE METAL	380	NEELEY ST
2270802054	FLOYD IRENE	19	CAPRI DR
2270102012	WILLIAMS RONALD C & SANDRA	840	MARIGOLD STREET
2270203003	CEMETERY SUMTER ASSN	700	W OAKLAND AVE
2060403086	WHITTLE BOBBY C & BETTY G	1731	W OAKLAND AVE
2270001001	SUMTER CITY OF	0	W LIBERTY ST
2060401021	KENNEDY JANIE W	1823	MILLWOOD RD
2260301005	GEDDINGS MURRAY E & MURRAY E JR	816	S GUIGNARD DR
2260601005	B & B PROPERTY LLC	880	S GUIGNARD DR
2260601001	GUIGNARD PROPERTIES LLC	860	S GUIGNARD DR
2260002025	COLOR-FIMARTIN FIBERS INC & FORMED FIBER TECHNOLOGIES LLC	0	NEELEY ST
2261105005	WAFA INVESTMENTS LLC	540	KINGSBURY DR
2270801091	TKACH CHRISTOPHER J	6	BURKETT DR
2260301012	STATE TREE SERVICES LLC	0	BACK LOT
2260301004	SANDERS A B & ELKINS THOMAS D	812	S GUIGNARD DR
2260301010	BRYANT EDDIE LE	846	S GUIGNARD DR
2271401013	LYNAM E H III & JANET R	360	NEELEY ST
2260002017	BROWN BARBARA S TRUSTEE ETAL	0	SOUTH GUIGNARD DR
2270002007	SUMTER CITY OF	470	GREEN SWAMP RD/540 BLACK ST
2260301009	DUCOM BETT S	830	S GUIGNARD DR
2261404007	WHITE-SORRELLS SHAKEEYA	1035	DECATUR ST
2260301013	SANDERS A B & ELKINS THOMAS D	812	S GUIGNARD DR
2261404008	WAFA INVESTMENTS LLC	1041	DECATUR ST
2260002019	SISSON ROBERT L	0	S GUIGNARD DR
2270002010	COLOR-FIMARTIN FIBERS INC & FORMED FIBER TECHNOLOGIES LLC	320	NEELEY ST
2270001003	HASTIE CALVIN	0	OFF OAKLAND AVENUE
2260002026	SPCA & HUMANE ED CENTER OF SUM	565	KINGSBURY DR
2261404006	SCHNEIDER MICHELLE ERNESTINE	1033	DECATUR ST
2270902028	GLASSCOCK INVESTMENTS LLC	530	MCCRAYS MILL RD
2270001008	DYSON BILL	0	OFF OAKLAND AVENUE
2260002020	SINGLETON JULIAN J	0	WESTMORLAND ROAD
2260002016	EQUITY TRUST CO CUSTODIAN ETALC/O CARL GULLEDGE JR	0	RD 43-522
2261001041	PRICE JOHN & ROSALIE H	0	MARLBOROUGH DR
2051302024	FUDGER MARGARET D	26	LAWTON CIR
2050003001	SUMTER ELKS CLUB INC	1100	W LIBERTY ST
2270801062	BAKER STEVEN B & MCELROY JUDY	49	BRIARWOOD DR
2060403015	MITCHUM JAVAN T & FAYE E	1804	MILLWOOD RD
2270203063	SCHNEID MATTHEW T & LAURA C	810	MARIGOLD STREET
2270801068	GRAHAM ISABELLE R	11	BURKETT DR
2261404009	WAFA INVESTMENTS LLC	1045	DECATUR ST
2050003001	SUMTER ELKS CLUB INC	1100	W LIBERTY ST
2270701001	CHURCH CLINTON CHAPEL AMEZ	475	COOK ST
2250002006	EQUITY TRUST CO CUSTODIAN ETALC/O CARL GULLEDGE JR	0	LEWIS RD
2260002028	HUGHES JACQUELINE K	700	HEAVENS TRAIL
2050003002	TISDALE RUTH B	0	BETWEEN BURRDALE & MILLWOOD
2060401018	BLACKWOOD JOHNNIE M	1833	MILLWOOD RD
2050003003	CARR W J III AS TRUSTEE	0	S OF HARRELL RD
2060401019	CONNER MICHAEL P TRUSTEE	1829	MILLWOOD RD
2270203060	BAILEY LAUREN M	780	MARIGOLD STREET
2260002012	THAMES JEREMY F	0	CHRISTAIN RD
2260002009	SINGLETON BUSSELL T & LESA G	701	SINGLETON LANE
2270801092	GRAHAM ISABELLE R	2	BURKETT DR
2260002029	SINGLETON JULIAN J	0	SINGLETON LANE
2271502036	SHULER THOMAS Q & TOBY L	796	CLUB LANE
2270001004	SUMTER CITY OF	0	GREEN SWAMP RD/BURKETT
2051302062	FUDGER LARRY E	0	NEAR SECOND MILL
2050003004	BAKER LAURA RUTH T & MCFADDEN	0	LAWTON CIR
2260002004	BARFIELD JUDY	0	POSSUM HOLLOW WAY
2260002005	BARFIELD JUDY	855	POSSUM HOLLOW WAY
2260002021	SINGLETON JULIAN	0	SOUTH GUIGNARD DR
2260002015	SUMTER CITY OF	1135	LEWIS RD
2260002032	THOMPSON CONSTRUCTION GROUP INC	0	SOUTH GUIGNARD DR
2271502014	MARSHALL JERRY P & TERESA L	0	CLUB LANE
2271502042	MCCLAM MELVIN L & CLYBURN TERRIE C	808	CLUB LANE
2270002006	CARTER GRAD & PAY & BURGESS RA	0	GREEN SWAMP RD
2270902029	SINGLETON JULIAN J	525	NATIONAL ST
2270902042	PSSWP LLC	0	LEWIS RD
2270002007	SUMTER CITY OF	470	GREEN SWAMP RD/540 BLACK ST
2270002018	ASHTON MILL OF SUMTER LLC	0	ASHTONMILL DR
2271502010	HUNTINGTON INC OF SUMTER	395	COACHMAN DR
2270002009	MYCHAEL G SMITH LLC	0	SOUTH ST
2270902043	MCELVEEN JAMES JR & SARAH	538	MCCRAYS MILL RD
2270902009	MCELVEEN JAMES JR & SARAH	532	MCCRAYS MILL RD

Table B-7. FEMA 1% Annual Chance Inundated Structures

Parcel ID	Owner	Address	Street
2280003002	SUMTER CITY OF	822	W LIBERTY ST
2060401023	HALLINAN JOHN DENNIS & GAIL S	1817	MILLWOOD RD
2060401026	REAP JOANN	1807	MILLWOOD RD
2270203062	CHANDLER CAMERON G	800	MARIGOLD STREET
2270801067	HEYWARD FELICIA M	15	BURKETT DR
2270801063	DAVIS MELISSA A & DANIEL	25	BURKETT DR
2270802056	EALEY JEREMIAH & SOPHIA MAE	9	CAPRI DR
2270801064	WATERS DAVID R	21	BURKETT DR
2060401022	COX FRANCES L	1821	MILLWOOD RD
2271502037	LEE DANIEL C	798	CLUB LANE
2270801066	WEATHERLY ASHLEIGH B	17	BURKETT DR
2261501052	HOOD VICKI C	1335	PEPPERIDGE DRIVE
2060401025	RODENBERG JOSEPH R & CINDY	1811	MILLWOOD RD
2060401024	WELLS TERRANCE	1813	MILLWOOD RD
2270203061	WILLIAMS JUANITA B	790	MARIGOLD STREET
2270801061	BURKETT HEIDI A	47	BRIARWOOD DR
2270801065	MALONEY BARBARA S	19	BURKETT DR
2261004005	GEDDINGS OTIS R & DEBORAH	1265	PEPPERIDGE DRIVE
2261501056	ROBBINS BRYAN P & MEADOWS AMELIA O	1275	PEPPERIDGE DRIVE
2270102011	ROWELL JAMES MICHAEL	850	MARIGOLD STREET
2270102013	VIECZOREK BENJAMIN A	830	MARIGOLD STREET
2270101002	WHITAKER MICHAEL A	1723	W OAKLAND AVE
2270101001	JAYMAUR LLC	1725	W OAKLAND AVE
2270203064	SCOTT COREY J	820	MARIGOLD STREET
2270802055	SINGLETON-HANNIBAL STARLA L	15	CAPRI DR
2270102010	WILLIAMS D E & JOYCE J	860	MARIGOLD STREET
2060401020	HINKLE JAMES N & JANNY	1827	MILLWOOD RD
2060403085	AVINS JIMMY L & PENELOPE P	45	WOODSIDE RD
2270102012	WILLIAMS RONALD C & SANDRA	840	MARIGOLD STREET
2060403086	WHITTLE BOBBY C & BETTY G	1731	W OAKLAND AVE
2060401021	KENNEDY JANIE W	1823	MILLWOOD RD
2260601001	GUIGNARD PROPERTIES LLC	816	S GUIGNARD DR
2270801091	TKACH CHRISTOPHER J	6	BURKETT DR
2260301012	STATE TREE SERVICES LLC	0	BACK LOT
2271401013	LYNAM E H III & JANET R	360	NEELEY ST
2260301009	DUCOM RETT S	830	S GUIGNARD DR
2260301013	SANDERS A B & ELKINS THOMAS D	812	S GUIGNARD DR
2270002010	COLOR-FI/MARTIN FIBERS INC & FORMED FIBER TECHNOLOGIES LLC	320	NEELEY ST
2270801062	BAKER STEVEN B & MCELROY JUDY	49	BRIARWOOD DR
2270203063	SCHNEID MATTHEW T & LAURA C	810	MARIGOLD STREET
2050003001	SUMTER ELKS CLUB INC	11	BURKETT DR
2060401018	BLACKWOOD JOHNNIE M	1833	MILLWOOD RD
2060401019	CONNER MICHAEL P TRUSTEE	1829	MILLWOOD RD
2270203060	BAILEY LAUREN M	780	MARIGOLD STREET
2050003004	BAKER LAURA RUTH T & MCFADDEN	0	LAWTON CIR
2270902009	MCELVEEN JAMES JR & SARAH	532	MCCRAYS MILL RD

Table B-8. Existing Conditions 1% Annual Chance Inundated Parcels & Structures

Parcel ID	Owner	Address	Street	Inundated Structure?
2050003001	SUMTER ELKS CLUB INC	1100	W LIBERTY ST	Y
2051302029	NEWBERRY BEVERLY A W	31	LAWTON CIR	Y
2051302032	YOUNGBLOOD MICHAEL P	34	LAWTON CIR	Y
2261501056	ROBBINS BRYAN P & MEADOWS AMELIA O	1275	PEPPERIDGE DRIVE	Y
2270802052	FORD DINO E	27	CAPRI DR	Y
2050003004	BAKER LAURA RUTH T & MCFADDEN	0	LAWTON CIR	Y
2051302024	FUDGER MARGARET D	26	LAWTON CIR	Y
2051302027	CARROLL LEAH	29	LAWTON CIR	Y
2051302028	SINGLETON RUDOLPH JR	30	LAWTON CIR	Y
2051302030	LUPORI KIMBERLY & SCOTT P	32	LAWTON CIR	Y
2051302035	AYERS RICHARD L	37	LAWTON CIR	Y
2051302036	AYERS RICHARD L	38	LAWTON CIR	Y
2060401022	COX FRANCES L	1821	MILLWOOD RD	Y
2060401023	HALLINAN JOHN DENNIS & GAIL S	1817	MILLWOOD RD	Y
2060401024	WELLS TERRANCE	1813	MILLWOOD RD	Y
2060401025	RODENBERG JOSEPH R & CINDY	1811	MILLWOOD RD	Y
2060401026	REAP JOANN	1807	MILLWOOD RD	Y
2060403012	KAZMIERSKI EDMUND M & LINDA C	1814	MILLWOOD RD	Y
2060403013	MCMILLAN MICHAEL SHANE	1812	MILLWOOD RD	Y
2060403014	FISHER KEVIN G & BRANDI L	1808	MILLWOOD RD	Y
2060403015	MITCHUM JAVAN T & FAYE E	1804	MILLWOOD RD	Y
2060403016	OCONNELL MICHAEL & CYNTHIA	6	WOODSIDE RD	Y
2060403062	FELDER EVA D	14	WOODSIDE RD	Y
2060403065	LYLES ALLEN K & BARBARA J	24	WOODSIDE RD	Y
2060403066	SMALLS FRANCES M J* ETAL	26	WOODSIDE RD	Y
2060403067	KEA JERRY DAN	28	WOODSIDE RD	Y
2060403068	LEE SARAH C LE	36	WOODSIDE RD	Y
2060403069	WALTON JEFFREY J	1801	W OAKLAND AVE	Y
2060403085	AVINS JIMMY L & PENELOPE P	45	WOODSIDE RD	Y
2060403086	WHITTLE BOBBY C & BETTY G	1731	W OAKLAND AVE	Y
2260301009	DUCOM RETT S	830	S GUIGNARD DR(840)	Y
2260703021	BOYKIN MARVIN	678	MARLBOROUGH DR	Y
2261001027	PRICE JOHN & ROSALIE H	680	MARLBOROUGH DR	Y
2261004001	ADGER BRE'ANA A & CANTY RICHARD A	668	KINGSBURY/1205 PEPPERIDGE DR	Y
2261004003	HUGHES DAVID P	1245	PEPPERIDGE DRIVE	Y
2261004004	WILLIAMS CHRISTOPHER LEE	1255	PEPPERIDGE DRIVE	Y
2261004005	GEDDINGS OTIS R & DEBORAH	1265	PEPPERIDGE DRIVE	Y
2261501054	DAVIS WILLIE LEE JR	1315	PEPPERIDGE DRIVE	Y
2261501055	WELCH MICHAEL T	1305	PEPPERIDGE DRIVE	Y
2270001001	SUMTER CITY OF	0	W LIBERTY ST	Y
2270002007	SUMTER CITY OF	470	GREEN SWAMP RD/540 BLACK ST	Y
2270002018	ASHTON MILL OF SUMTER LLC	0	ASHTONMILL DR	Y
2270101001	JAYMAUR LLC	1725	W OAKLAND AVE	Y
2270101002	WHITAKER MICHAEL A	1723	W OAKLAND AVE	Y
2270102011	ROWELL JAMES MICHAEL	850	MARIGOLD STREET	Y
2270102012	WILLIAMS RONALD C & SANDRA	840	MARIGOLD STREET	Y
2270102013	VIECZOREK BENJAMIN A	830	MARIGOLD STREET	Y
2270103002	MACK ALMA D	1730	W OAKLAND AVE	Y
2270103003	FRICKE LEONARD RICHARD	1726	W OAKLAND AVE	Y
2270103004	FLOYD STANLEY SR	1722	W OAKLAND AVE	Y
2270103005	LEE DEBRA LYNN	1720	W OAKLAND AVE	Y
2270103006	GORE GEROD	1716	W OAKLAND AVE	Y
2270103007	KENDRICK NORRIS R	1714	W OAKLAND AVE	Y
2270103011	COLCLOUGH BLONDELL J	9	CURTISWOOD AVE	Y
2270103012	CHERRY ROBERT B SR	7	CURTISWOOD AVE	Y
2270103013	BAILEY RHONDA	3	CURTISWOOD AVE	Y
2270103014	HALLEY JESSICA M & COOK STEVEND	1	CURTISWOOD AVE	Y
2270103019	NANCE DAVID E JR & MELISSA R	2	CURTISWOOD AVE	Y
2270103025	NOWAKOWSKI GARY L & LINDA D	20	BRIARWOOD DR	Y
2270103026	CREECH HOLDING CORP	22	BRIARWOOD DR	Y
2270103027	REGIONAL SFR FUND LLC	13	BRIARWOOD DR	Y
2270103028	CAMPBELL BARBARA R LE C/O ALTON HICE	15	BRIARWOOD DR	Y
2270103029	MCCLURE EMMA T	19	BRIARWOOD DR	Y
2270103030	FRETWELL JACQUELINE D	23	BRIARWOOD DR	Y
2270103031	FIELDS ANGELA M	25	BRIARWOOD DR	Y
2270103032	BELL SUSAN JEANETTE FLOYD	29	BRIARWOOD DR	Y
2270203057	WAY NICHOLAS W & BARBARA G	750	MARIGOLD STREET	Y
2270203058	PITTS JEREMY H	760	MARIGOLD STREET	Y
2270203059	FRICKE JEFFREY	770	MARIGOLD STREET	Y
2270203060	BAILEY LAUREN M	780	MARIGOLD STREET	Y
2270203061	WILLIAMS JUANITA B	790	MARIGOLD STREET	Y
2270203062	CHANDLER CAMERON G	800	MARIGOLD STREET	Y
2270203063	SCHNEID MATTHEW T & LAURA C	810	MARIGOLD STREET	Y
2270203064	SCOTT COREY J	820	MARIGOLD STREET	Y

Table B-8. Existing Conditions 1% Annual Chance Inundated Parcels & Structures

Parcel ID	Owner	Address	Street	Inundated Structure?
2270801033	LOGAN SHAMIKA	2	HILLTOP ST	Y
2270801034	WARR WADE H	32	BRIARWOOD DR	Y
2270801039	FARRIS JOSIE MARY	36	BRIARWOOD DR	Y
2270801046	WOODWARD ROBERT W	44	BRIARWOOD DR	Y
2270801053	QUIROZ DAGOBERTO W & BRENDA M	41	BURKETT DR	Y
2270801054	OLIVER CHRISTOPHER L	39	BURKETT DR	Y
2270801055	WHITE LINWOOD C	46	BRIARWOOD DR	Y
2270801056	JUNE PHILLIP D & MILDRED H	52	BRIARWOOD DR	Y
2270801057	LYNCH WILLIAMS NICOLE	33	BRIARWOOD DR	Y
2270801058	EVANS YVONNE L & LINK JEFFREY	35	BRIARWOOD DR	Y
2270801059	HODGE HUNTER F JR & SUSAN M	39	BRIARWOOD DR	Y
2270801060	HOOTON GREG	43	BRIARWOOD DR	Y
2270801061	BURKETT HEIDI A	47	BRIARWOOD DR	Y
2270801062	BAKER STEVEN B & MCELROY JUDY	49	BRIARWOOD DR	Y
2270801063	DAVIS MELISSA A & DANIEL	25	BURKETT DR	Y
2270801064	WATERS DAVID R	21	BURKETT DR	Y
2270801065	MALONEY BARBARA S	19	BURKETT DR	Y
2270801066	WEATHERLY ASHLEIGH B	17	BURKETT DR	Y
2270801067	HEYWARD FELICIA M	15	BURKETT DR	Y
2270801082	MCGIRT DARRELL DEWAYNE	34	BURKETT DR	Y
2270801083	HALL PAMELA S	30	BURKETT DR	Y
2270801084	SHERMAN ASHLEY N & GRANT DONTEW	28	BURKETT DR	Y
2270801085	SHEPARD NELLIE A & LEE KATHY &DARRELL	24	BURKETT DR	Y
2270801086	WILLIAMS SHAVONNE M & KEWANA S	22	BURKETT DR	Y
2270801087	REESER DAVID	18	BURKETT DR	Y
2270801088	COAKLEY JOSE V & GREGORY T	14	BURKETT DR	Y
2270801089	BANKERS TRUST COMPANY OF CAL NA TR	12	BURKETT DR	Y
2270801090	RUSSELL JERRI A	8	BURKETT DR	Y
2270801091	TKACH CHRISTOPHER J	6	BURKETT DR	Y
2270802026	SMITH BRENDA LEE & MARY* ETAL	39	CAPRI DR	Y
2270802028	HOLMES THELMA R	31	CAPRI DR	Y
2270802052	FORD DINO E	27	CAPRI DR	Y
2270802053	WEEKS MARY A	23	CAPRI DR	Y
2270802055	SINGLETON-HANNIBAL STARLA L	15	CAPRI DR	Y
2270802056	EALEY JEREMIAH & SOPHIA MAE	9	CAPRI DR	Y
2270901030	ARMSTRONG MICHAEL JR	10	CAPRI DR	Y
2270901033	YOUNG DELORIS E JONES & ELLIS JR	539	MCCRAYS MILL RD	Y
2270901034	WILLIAMS JOHNNY	535	MCCRAYS MILL RD	Y
2270901035	EVANS RAYMOND	6	CAPRI DR	Y
2270902008	HARVIN ELOISE	540	MCCRAYS MILL RD	Y
2270902009	MCELVEEN JAMES JR & SARAH	532	MCCRAYS MILL RD	Y
2270902043	MCELVEEN JAMES JR & SARAH	538	MCCRAYS MILL RD	Y
2271502036	SHULER THOMAS Q & TOBY L	796	CLUB LANE	Y
2271502037	LEE DANIEL C	798	CLUB LANE	Y
2271502038	MYERS CHARLIE JR	800	CLUB LANE	Y
2271502039	JACOB JOSHUA D	802	CLUB LANE	Y
2271502040	WILLIAMS LINDA V	804	CLUB LANE	Y
2271502041	HAIR KRYSTAL S	806	CLUB LANE	Y
2271502042	MCCLAM MELVIN L & CLYBURN TERRIE C	808	CLUB LANE	Y
2271502043	SINGLETON MARY E	810	CLUB LANE	Y
2280003002	SUMTER CITY OF	822	W LIBERTY ST	Y
2281602027	TISDALE RUTH R	46	HARRELL RD	Y
2050003002	BAKER LAURA R T ETAL	0	BETWEEN BURRDALE/MILLWOOD	N
2050003003	CARR W J III AS TRUSTEE	0	S OF HARRELL RD	N
2051302046	BAKER LAURA R T ETAL	32	HARRELL RD	N
2051302047	BAKER LAURA R T ETAL	34	HARRELL RD	N
2051302049	BAKE LAURA RUTH & MCFADDEN RO	40	HARRELL RD	N
2051302050	BAKER LAURA R T ETAL	42	HARRELL RD	N
2051302059	FUDGER LARRY EDWARD	978	W LIBERTY ST	N
2051302060	TRUETT RAYMOND A & TERRAYNE L	0	LAWTON CIR	N
2051302062	FUDGER LARRY E	0	NEAR SECOND MILL	N
2060002015	RESTAURANT MANAGEMENT OF SC INC	1110	OLD W LIBERTY ST	N
2060401017	BLACKWOOD JOHNNIE M	1835	MILLWOOD RD	N
2060401027	MITCHUM JAVAN T	1805	MILLWOOD RD	N
2060401028	MITCHUM JAVAN T	1801	MILLWOOD RD	N
2060401029	SUMTER CITY OF	0	MILLWOOD SWAMP	N
2060403074	CITY OF SUMTER	1	WOODSIDE RD	N
2060403075	CITY OF SUMTER	5	WOODSIDE RD	N
2060403076	CITY OF SUMTER	7	WOODSIDE RD	N
2060403077	CITY OF SUMTER	9	WOODSIDE RD	N
2060403078	CITY OF SUMTER	15	WOODSIDE RD	N
2060403079	CITY OF SUMTER	19	WOODSIDE RD	N
2060403080	GRE LIMITED LLC	23	WOODSIDE RD	N
2060403081	SAFFORD JOSEPH D	27	WOODSIDE RD	N

Table B-8. Existing Conditions 1% Annual Chance Inundated Parcels & Structures

Parcel ID	Owner	Address	Street	Inundated Structure?
2060403082	CITY OF SUMTER	33	WOODSIDE RD	N
2060403083	CITY OF SUMTER	37	WOODSIDE RD	N
2060403084	CITY OF SUMTER	41	WOODSIDE RD	N
2250002024	EQUITY TRUST CO CUSTODIAN ETAL	0	HWY 15 SOUTH	N
2260002002	HUGHES JACQUELINE K ETAL	0	POSSUM HOLLOW WAY	N
2260002004	BARFIELD JUDY	0	POSSUM HOLLOW WAY	N
2260002012	THAMES JEREMY F	0	CHRISTAIN RD	N
2260002014	SINGLETON JULIAN	0	WESTMORLAND	N
2260002016	EQUITY TRUST CO CUSTODIAN ETAL	0	RD 43-522	N
2260002017	BROWN BARBARA S TRUSTEE ETAL	0	SOUTH GUIGNARD DR	N
2260002019	SISSON ROBERT L	0	S GUIGNARD DR	N
2260002020	SINGLETON JULIAN J	0	WESTMORLAND ROAD	N
2260002021	SINGLETON JULIAN	0	SOUTH GUIGNARD DR	N
2260002022	AYERS RICHARD L	635	KINGSBURY DR	N
2260002025	COLOR-FI/MARTIN FIBERS INC	0	NEELEY ST	N
2260002026	SPCA & HUMANE ED CENTER OF SUMTER	565	KINGSBURY DR	N
2260002032	THOMPSON CONSTRUCTION GROUP	0	SOUTH GUIGNARD DR	N
2260301001	FOGLE JAN AUBREY & TOOTLE TAMR	0	OFF S GUIGNARD DR	N
2260703020	RICHARDSON DORIS M & WILLE H	676	MARLBOROUGH DR	N
2261001018	AYERS RICHARD L	0	KINGSBURY DR	N
2261001026	LAWS DAVID JR	682	MARLBOROUGH DR	N
2261001041	PRICE JOHN & ROSALIE H	0	MARLBOROUGH DR	N
2261105005	WAFA INVESTMENTS LLC	540	KINGSBURY DR	N
2261404001	WAFA INVESTMENTS LLC	1021	DECATUR ST	N
2261404002	WAFA INVESTMENTS LLC	1023	DECATUR ST	N
2261404003	WAFA INVESTMENTS LLC	1025	DECATUR ST	N
2261404004	WAFA INVESTMENTS LLC	1027	DECATUR ST	N
2261404005	WAFA INVESTMENTS LLC	1031	DECATUR ST	N
2261404009	WAFA INVESTMENTS LLC	1045	DECATUR ST	N
2270001002	SUMTER CITY OF	0	W OAKLAND AVE	N
2270001003	HASTER CALVIN	0	OFF OAKLAND AVENUE	N
2270001004	SUMTER CITY OF	0	GREEN SWAMP RD/BURKETT	N
2270001006	SUMTER CITY OF	0	N OF OAKLAND	N
2270001007	JUSTICE AUGUSTE C	0	OFF MARIGOLD STREET	N
2270001008	DYSON BILL	0	OFF OAKLAND AVENUE	N
2270002006	CARTER GRAD & PAV & BURGESS RA	0	GREEN SWAMP RD	N
2270002009	MYCHAEL G SMITH LLC	0	SOUTH ST	N
2270101003	CITY OF SUMTER	1721	W OAKLAND AVE	N
2270101004	BLANDING KAREN	1717	W OAKLAND AVE	N
2270101005	SUMTER CITY OF	1705	W OAKLAND AVE	N
2270103033	SUMTER CITY OF	9	BRIARWOOD DR	N
2270203004	BARWICK RICHARD D	0	CATALPA ST	N
2270801068	CITY OF SUMTER	11	BURKETT DR	N
2270801069	CITY OF SUMTER	9	BURKETT DR	N
2270801092	CITY OF SUMTER	43	CAPRI DR	N
2270802025	HODGE C P SR	39	CAPRI DR	N
2270802027	HAWTHORNE SAMUEL J	35	CAPRI DR	N
2270802054	FLOYD IRENE	19	CAPRI DR	N
2270802057	EALEY JEREMIAH & SOPHIA MAE	5	CAPRI DR	N
2270802059	HAWTHORNE SAMUEL J	0	MCCRAYS MILL RD/1 CAPRI DR	N
2270901036	WILLIAMS JOHNNY	2	CAPRI DR	N
2270902028	GLASSCOCK INVESTMENTS LLC	530	MCCRAYS MILL RD	N
2270902029	SINGLTON JULIAN J	525	NATIONAL ST	N
2270902042	PSSWP LLC	0	LEWIS RD	N
2271502012	COLE CHERYL	812	CLUB LANE	N
2271502014	MARSHALL JERRY P & TERESA L	0	CLUB LANE	N
2281602022	ALLBRITTON LISA L	62	HARRELL RD	N
2281602023	CARR EVELYN B ESTATE	60	HARRELL RD	N
2281602024	CARR W J III AS TRUSTEE	58	HARRELL RD	N
2281602025	LOFLIN PAMELA JO TRUSTEE	54	HARRELL RD	N
2281602026	MCFADDIN ROSALIND T	50	HARRELL RD	N
2051302022	HEDRICK WALTER R	43	LAWTON CIR	N
2051302025	LYLES ALLEN K & BARBARA J	27	LAWTON CIR	N
2051302026	MARTIN ERIC P & LISA M	28	LAWTON CIR	N
2051302031	TORRES GUSTAVO HERRERA & PRADOISABEL RIVERA	33	LAWTON CIR	N
2051302033	FLOYD PATRICIA ANN C/O GREG SCOTT	35	LAWTON CIR	N
2051302034	BANKERS TRUST CO OF CALIF NA T	36	LAWTON CIR	N
2051302037	OCONNOR BETTY A	39	LAWTON CIR	N
2051302038	OWENS DORETHA	40	LAWTON CIR	N
2051302039	MCCANTS ROBERT L	41	LAWTON CIR	N
2051302040	TRUETT RAYMOND A & TERRAYNE L	42	LAWTON CIR	N
2051302043	GRAHAM STANLEY CHRISTIAN & MARISSA DANIELLE	24	HARRELL RD	N
2051302044	GLANCY REBECCA H	26	HARRELL RD	N
2051302045	CORBETT STANLEY W ETAL	28	HARRELL RD	N

Table B-8. Existing Conditions 1% Annual Chance Inundated Parcels & Structures

Parcel ID	Owner	Address	Street	Inundated Structure?
2051302048	BAKER LAURA RUTH T LE	36	HARRELL RD	N
2060002014	NATIONAL RETAIL PROPERTIES LP	1130	OLD W LIBERTY ST	N
2060401016	PRITCHARD MIRIAM M LE	1839	MILLWOOD RD	N
2060401018	BLACKWOOD JOHNNIE M	1833	MILLWOOD RD	N
2060401021	KENNEDY JANIE W	1823	MILLWOOD RD	N
2060403011	BRYAN JOHNATHAN W	1818	MILLWOOD RD	N
2060403017	LEWING TIMOTHY W & REBEKAH	8	WOODSIDE RD	N
2060403018	MCLEOD HEYWARD JR	1807	GEORGIANNA DR	N
2060403063	CREECH F B III LLC	18	WOODSIDE RD	N
2060403064	ARD DAVID M & REBECCA B	20	WOODSIDE RD	N
2260002005	BARFIELD JUDY	855	POSSUM HOLLOW WAY	N
2260002009	SINGLETON RUSSELL T & LESA G	701	SINGLETON LANE	N
2260002013	SINGLETON JULIAN J	0	SINGLETON LANE	N
2260002015	SUMTER CITY OF	1135	LEWIS RD(1139)	N
2260002028	HUGHES JACQUELINE K	700	HEAVENS TRAIL	N
2260002029	SINGLETON JULIAN J	0	SINGLETON LANE	N
2260301007	BELY INC %VERITAS CHRISTIAN MINISTRIES	822	S GUIGNARD DR	N
2260301012	STATE TREE SERVICES LLC	0	BACK LOT	N
2260301013	SANDERS A B & ELKINS THOMAS D	812	S GUIGNARD DR	N
2260601001	GUIGNARD PROPERTIES LLC	860	S GUIGNARD DR(864)	N
2260601005	B & B PROPERTY LLC	880	S GUIGNARD DR(874)	N
2261001025	CARTER JOANN M	684	MARLBOROUGH DR	N
2261004002	MARTIN LISA A	1215	PEPPERIDGE DRIVE	N
2261105004	LITTLE ANDREW C II	1017	DECATUR ST	N
2261404006	SCHNEIDER MICHELLE ERNESTINE	1033	DECATUR ST	N
2261404007	WHITE-SORRELLS SHAKEEYA	1035	DECATUR ST	N
2261404008	WAFA INVESTMENTS LLC	1041	DECATUR ST	N
2261501052	HOOD VICKI C	1335	PEPPERIDGE DRIVE	N
2261501053	HEARRELL SAMUEL L	1325	PEPPERIDGE DRIVE	N
2270001009	SUMTER CITY OF	0	W OAKLAND AVE	N
2270002010	COLOR-FI/MARTIN FIBERS INC & FORMED FIBER TECHNOLOGIES LLC	320	NEELEY ST	N
2270103001	HICKMON KERN LATORIA	1732	W OAKLAND AVE	N
2270103010	NATIONSTAR MORTGAGE LLC	13	CURTISWOOD AVE	N
2270103018	BYRD JULIA JAMES & DEANE	8	CURTISWOOD AVE	N
2270203003	CEMETERY SUMTER ASSN	700	W OAKLAND AVE	N
2270203056	JONES CHRISTOPHER H	740	MARIGOLD STREET	N
2270701001	CHURCH CLINTON CHAPEL AMEZ	475	COOK ST	N
2270702001	JUSTICE FARMS OF NORTH CAROLINA LLC	411	GREEN SWAMP RD	N
2270702002	CITY OF SUMTER	0	GREEN SWAMP RD	N
2270801045	BOLEN ANN CREECH LLC	6	BOBS DR	N
2270801080	BOATMAN WILLIAM R	40	BURKETT DR	N
2270801081	CHANDLER JAMES & RACHEL	38	BURKETT DR	N
2270901031	BOULWARE GEORGANNA W	547	MCCRAYS MILL RD(543)	N
2270902006	DUPREY WALLACE JR	546	MCCRAYS MILL RD	N
2270902007	BOWMAN THOMAS J & SUSAN K	543	DOW LANE	N
2271502010	HUNTINGTON INC OF SUMTER	395	COACHMAN DR	N

Table B-9. Proposed Conditions 1% Annual Chance Inundated Parcels & Structures

Parcel ID	Owner	Address	Street	Inundated Structure?
2050003001	SUMTER ELKS CLUB INC	1100	W LIBERTY ST	Y
2051302029	NEWBERRY BEVERLY A W	31	LAWTON CIR	Y
2051302032	YOUNGBLOOD MICHAEL P	34	LAWTON CIR	Y
2261501056	ROBBINS BRYAN P & MEADOWS AMELIA O	1275	PEPPERIDGE DRIVE	Y
2270802052	FORD DINO E	27	CAPRI DR	Y
2050003004	BAKER LAURA RUTH T & MCFADDEN	0	LAWTON CIR	Y
2051302024	FUDGER MARGARET D	26	LAWTON CIR	Y
2051302027	CARROLL LEAH	29	LAWTON CIR	Y
2051302028	SINGLETON RUDOLPH JR	30	LAWTON CIR	Y
2051302030	LUPORI KIMBERLY & SCOTT P	32	LAWTON CIR	Y
2051302035	AYERS RICHARD L	37	LAWTON CIR	Y
2051302036	AYERS RICHARD L	38	LAWTON CIR	Y
2060401022	COX FRANCES L	1821	MILLWOOD RD	Y
2060401023	HALLINAN JOHN DENNIS & GAIL S	1817	MILLWOOD RD	Y
2060401024	WELLS TERRANCE	1813	MILLWOOD RD	Y
2060401025	RODENBERG JOSEPH R & CINDY	1811	MILLWOOD RD	Y
2060401026	REAP JOANN	1807	MILLWOOD RD	Y
2060403012	KAZMIERSKI EDMUND M & LINDA C	1814	MILLWOOD RD	Y
2060403013	MCMILLAN MICHAEL SHANE	1812	MILLWOOD RD	Y
2060403014	FISHER KEVIN G & BRANDI L	1808	MILLWOOD RD	Y
2060403015	MITCHUM JAVAN T & FAYE E	1804	MILLWOOD RD	Y
2060403016	OCONNELL MICHAEL & CYNTHIA	6	WOODSIDE RD	Y
2060403062	FELDER EVA D	14	WOODSIDE RD	Y
2060403065	LYLES ALLEN K & BARBARA J	24	WOODSIDE RD	Y
2060403066	SMALLS FRANCES M J* ETAL	26	WOODSIDE RD	Y
2060403067	KEA JERRY DAN	28	WOODSIDE RD	Y
2060403068	LEE SARAH C LE	36	WOODSIDE RD	Y
2060403069	WALTON JEFFREY J	1801	W OAKLAND AVE	Y
2060403085	AVINS JIMMY L & PENELOPE P	45	WOODSIDE RD	Y
2060403086	WHITTLE BOBBY C & BETTY G	1731	W OAKLAND AVE	Y
2260301009	DUCOM RETT S	830	S GUIGNARD DR	Y
2260703021	BOYKIN MARVIN	678	MARLBOROUGH DR	Y
2261001027	PRICE JOHN & ROSALIE H	680	MARLBOROUGH DR	Y
2261004001	ADGER BRE'ANA A & CANTY RICHARD A	668	KINGSBURY/1205 PEPPERIDGE DR	Y
2261004003	HUGHES DAVID P	1245	PEPPERIDGE DRIVE	Y
2261004004	WILLIAMS CHRISTOPHER LEE	1255	PEPPERIDGE DRIVE	Y
2261004005	GEDDINGS OTIS R & DEBORAH	1265	PEPPERIDGE DRIVE	Y
2261501054	DAVIS WILLIE LEE JR	1315	PEPPERIDGE DRIVE	Y
2261501055	WELCH MICHAEL T	1305	PEPPERIDGE DRIVE	Y
2270001001	SUMTER CITY OF	0	W LIBERTY ST	Y
2270002007	SUMTER CITY OF	470	GREEN SWAMP RD/540 BLACK ST	Y
2270002018	ASHTON MILL OF SUMTER LLC	0	ASHTONMILL DR	Y
2270101001	JAYMAUR LLC	1725	W OAKLAND AVE	Y
2270101002	WHITAKER MICHAEL A	1723	W OAKLAND AVE	Y
2270102011	ROWELL JAMES MICHAEL	850	MARIGOLD STREET	Y
2270102012	WILLIAMS RONALD C & SANDRA	840	MARIGOLD STREET	Y
2270102013	VIECZOREK BENJAMIN A	830	MARIGOLD STREET	Y
2270103002	MACK ALMA D	1730	W OAKLAND AVE	Y
2270103003	FRICKE LEONARD RICHARD	1726	W OAKLAND AVE	Y
2270103004	FLOYD STANLEY SR	1722	W OAKLAND AVE	Y
2270103005	LEE DEBRA LYNN	1720	W OAKLAND AVE	Y
2270103006	GORE GEROD	1716	W OAKLAND AVE	Y
2270103007	KENDRICK NORRIS R	1714	W OAKLAND AVE	Y
2270103011	COLCLOUGH BLONDELL J	9	CURTISWOOD AVE	Y
2270103012	CHERRY ROBERT B SR	7	CURTISWOOD AVE	Y
2270103013	BAILEY RHONDA	3	CURTISWOOD AVE	Y
2270103014	HALLEY JESSICA M & COOK STEVEND	1	CURTISWOOD AVE	Y
2270103019	NANCE DAVID E JR & MELISSA R	2	CURTISWOOD AVE	Y
2270103025	NOWAKOWSKI GARY L & LINDA D	20	BRIARWOOD DR	Y
2270103026	CREECH HOLDING CORP	22	BRIARWOOD DR	Y
2270103027	REGIONAL SFR FUND LLC	13	BRIARWOOD DR	Y
2270103028	CAMPBELL BARBARA R LE C/O ALTON HICE	15	BRIARWOOD DR	Y
2270103029	MCCLURE EMMA T	19	BRIARWOOD DR	Y
2270103030	FRETWELL JACQUELINE D	23	BRIARWOOD DR	Y
2270103031	FIELDS ANGELA M	25	BRIARWOOD DR	Y
2270103032	BELL SUSAN JEANETTE FLOYD	29	BRIARWOOD DR	Y
2270203057	WAY NICHOLAS W & BARBARA G	750	MARIGOLD STREET	Y
2270203058	PITTS JEREMY H	760	MARIGOLD STREET	Y
2270203059	FRICKE JEFFREY	770	MARIGOLD STREET	Y
2270203060	BAILEY LAUREN M	780	MARIGOLD STREET	Y
2270203061	WILLIAMS JUANITA B	790	MARIGOLD STREET	Y
2270203062	CHANDLER CAMERON G	800	MARIGOLD STREET	Y
2270203063	SCHNEID MATTHEW T & LAURA C	810	MARIGOLD STREET	Y
2270203064	SCOTT COREY J	820	MARIGOLD STREET	Y

Table B-9. Proposed Conditions 1% Annual Chance Inundated Parcels & Structures

Parcel ID	Owner	Address	Street	Inundated Structure?
2270801033	LOGAN SHAMIKA	2	HILLTOP ST	Y
2270801034	WARR WADE H	32	BRIARWOOD DR	Y
2270801039	FARRIS JOSIE MARY	36	BRIARWOOD DR	Y
2270801046	WOODWARD ROBERT W	44	BRIARWOOD DR	Y
2270801053	QUIROZ DAGOBERTO W & BRENDA M	41	BURKETT DR	Y
2270801054	OLIVER CHRISTOPHER L	39	BURKETT DR	Y
2270801055	WHITE LINWOOD C	46	BRIARWOOD DR	Y
2270801056	JUNE PHILLIP D & MILDRED H	52	BRIARWOOD DR	Y
2270801057	LYNCH WILLIAMS NICOLE	33	BRIARWOOD DR	Y
2270801058	EVANS YVONNE L & LINK JEFFREY	35	BRIARWOOD DR	Y
2270801059	HODGE HUNTER F JR & SUSAN M	39	BRIARWOOD DR	Y
2270801060	HOOTON GREG	43	BRIARWOOD DR	Y
2270801061	BURKETT HEIDI A	47	BRIARWOOD DR	Y
2270801062	BAKER STEVEN B & MCELROY JUDY	49	BRIARWOOD DR	Y
2270801063	DAVIS MELISSA A & DANIEL	25	BURKETT DR	Y
2270801064	WATERS DAVID R	21	BURKETT DR	Y
2270801065	MALONEY BARBARA S	19	BURKETT DR	Y
2270801066	WEATHERLY ASHLEIGH B	17	BURKETT DR	Y
2270801067	HEYWARD FELICIA M	15	BURKETT DR	Y
2270801082	MCGIRT DARRELL DEWAYNE	34	BURKETT DR	Y
2270801083	HALL PAMELA S	30	BURKETT DR	Y
2270801084	SHERMAN ASHLEY N & GRANT DONTEW	28	BURKETT DR	Y
2270801085	SHEPARD NELLIE A & LEE KATHY &DARRELL	24	BURKETT DR	Y
2270801086	WILLIAMS SHAVONNE M & KEWANA S	22	BURKETT DR	Y
2270801087	REESER DAVID	18	BURKETT DR	Y
2270801088	COAKLEY JOSE V & GREGORY T	14	BURKETT DR	Y
2270801089	BANKERS TRUST COMPANY OF CAL NA TR	12	BURKETT DR	Y
2270801090	RUSSELL JERRI A	8	BURKETT DR	Y
2270801091	TKACH CHRISTOPHER J	6	BURKETT DR	Y
2270802026	SMITH BRENDA LEE & MARY* ETAL	39	CAPRI DR	Y
2270802028	HOLMES THELMA R	31	CAPRI DR	Y
2270802052	FORD DINO E	27	CAPRI DR	Y
2270802053	WEEKS MARY A	23	CAPRI DR	Y
2270802055	SINGLETON-HANNIBAL STARLA L	15	CAPRI DR	Y
2270802056	EALEY JEREMIAH & SOPHIA MAE	9	CAPRI DR	Y
2270901030	ARMSTRONG MICHAEL JR	10	CAPRI DR	Y
2270901033	YOUNG DELORIS E JONES & ELLIS JR	539	MCCRAYS MILL RD	Y
2270901034	WILLIAMS JOHNNY	535	MCCRAYS MILL RD	Y
2270901035	EVANS RAYMOND	6	CAPRI DR	Y
2270902008	HARVIN ELOISE	540	MCCRAYS MILL RD	Y
2270902009	MCELVEEN JAMES JR & SARAH	532	MCCRAYS MILL RD	Y
2270902043	MCELVEEN JAMES JR & SARAH	538	MCCRAYS MILL RD	Y
2271502036	SHULER THOMAS Q & TOBY L	796	CLUB LANE	Y
2271502037	LEE DANIEL C	798	CLUB LANE	Y
2271502038	MYERS CHARLIE JR	800	CLUB LANE	Y
2271502039	JACOB JOSHUA D	802	CLUB LANE	Y
2271502040	WILLIAMS LINDA V	804	CLUB LANE	Y
2271502041	HAIR KRYSTAL S	806	CLUB LANE	Y
2271502042	MCCLAM MELVIN L & CLYBURN TERRIE C	808	CLUB LANE	Y
2271502043	SINGLETON MARY E	810	CLUB LANE	Y
2280003002	SUMTER CITY OF	822	W LIBERTY ST	Y
2281602027	TISDALE RUTH R	46	HARRELL RD	Y
2050003002	BAKER LAURA R T ETAL	0	BETWEEN BURRDALE/MILLWOOD	N
2050003003	CARR W J III AS TRUSTEE	0	S OF HARRELL RD	N
2051302046	BAKER LAURA R T ETAL	32	HARRELL RD	N
2051302047	BAKER LAURA R T ETAL	34	HARRELL RD	N
2051302049	BAKE LAURA RUTH & MCFADDEN RO	40	HARRELL RD	N
2051302050	BAKER LAURA R T ETAL	42	HARRELL RD	N
2051302059	FUDGER LARRY EDWARD	978	W LIBERTY ST	N
2051302060	TRUETT RAYMOND A & TERRAYNE L	0	LAWTON CIR	N
2051302062	FUDGER LARRY E	0	NEAR SECOND MILL	N
2060002015	RESTAURANT MANAGEMENT OF SC INC	1110	OLD W LIBERTY ST	N
2060401017	BLACKWOOD JOHNNIE M	1835	MILLWOOD RD	N
2060401027	MITCHUM JAVAN T	1805	MILLWOOD RD	N
2060401028	MITCHUM JAVAN T	1801	MILLWOOD RD	N
2060401029	SUMTER CITY OF	0	MILLWOOD SWAMP	N
2060403074	CITY OF SUMTER	1	WOODSIDE RD	N
2060403075	CITY OF SUMTER	5	WOODSIDE RD	N
2060403076	CITY OF SUMTER	7	WOODSIDE RD	N
2060403077	CITY OF SUMTER	9	WOODSIDE RD	N
2060403078	CITY OF SUMTER	15	WOODSIDE RD	N
2060403079	CITY OF SUMTER	19	WOODSIDE RD	N
2060403080	GRE LIMITED LLC	23	WOODSIDE RD	N
2060403081	SAFFORD JOSEPH D	27	WOODSIDE RD	N

Table B-9. Proposed Conditions 1% Annual Chance Inundated Parcels & Structures

Parcel ID	Owner	Address	Street	Inundated Structure?
2060403082	CITY OF SUMTER	33	WOODSIDE RD	N
2060403083	CITY OF SUMTER	37	WOODSIDE RD	N
2060403084	CITY OF SUMTER	41	WOODSIDE RD	N
2250002024	EQUITY TRUST CO CUSTODIAN ETAL	0	HWY 15 SOUTH	N
2260002002	HUGHES JACQUELINE K ETAL	0	POSSUM HOLLOW WAY	N
2260002004	BARFIELD JUDY	0	POSSUM HOLLOW WAY	N
2260002012	THAMES JEREMY F	0	CHRISTAIN RD	N
2260002014	SINGLETON JULIAN	0	WESTMORLAND	N
2260002016	EQUITY TRUST CO CUSTODIAN ETAL	0	RD 43-522	N
2260002017	BROWN BARBARA S TRUSTEE ETAL	0	SOUTH GUIGNARD DR	N
2260002019	SISSON ROBERT L	0	S GUIGNARD DR	N
2260002020	SINGLETON JULIAN J	0	WESTMORLAND ROAD	N
2260002021	SINGLETON JULIAN	0	SOUTH GUIGNARD DR	N
2260002022	AYERS RICHARD L	635	KINGSBURY DR	N
2260002025	COLOR-FI/MARTIN FIBERS INC	0	NEELEY ST	N
2260002026	SPCA & HUMANE ED CENTER OF SUMTER	565	KINGSBURY DR	N
2260002032	THOMPSON CONSTRUCTION GROUP	0	SOUTH GUIGNARD DR	N
2260301001	FOGLE JAN AUBREY & TOOTLE TAMR	0	OFF S GUIGNARD DR	N
2260703020	RICHARDSON DORIS M & WILLE H	676	MARLBOROUGH DR	N
2261001018	AYERS RICHARD L	0	KINGSBURY DR	N
2261001026	LAWS DAVID JR	682	MARLBOROUGH DR	N
2261001041	PRICE JOHN & ROSALIE H	0	MARLBOROUGH DR	N
2261105005	WAFA INVESTMENTS LLC	540	KINGSBURY DR	N
2261404001	WAFA INVESTMENTS LLC	1021	DECATUR ST	N
2261404002	WAFA INVESTMENTS LLC	1023	DECATUR ST	N
2261404003	WAFA INVESTMENTS LLC	1025	DECATUR ST	N
2261404004	WAFA INVESTMENTS LLC	1027	DECATUR ST	N
2261404005	WAFA INVESTMENTS LLC	1031	DECATUR ST	N
2261404009	WAFA INVESTMENTS LLC	1045	DECATUR ST	N
2270001002	SUMTER CITY OF	0	W OAKLAND AVE	N
2270001003	HASTER CALVIN	0	OFF OAKLAND AVENUE	N
2270001004	SUMTER CITY OF	0	GREEN SWAMP RD/BURKETT	N
2270001006	SUMTER CITY OF	0	N OF OAKLAND	N
2270001007	JUSTICE AUGUSTE C	0	OFF MARIGOLD STREET	N
2270001008	DYSON BILL	0	OFF OAKLAND AVENUE	N
2270002006	CARTER GRAD & PAV & BURGESS RA	0	GREEN SWAMP RD	N
2270002009	MYCHAEL G SMITH LLC	0	SOUTH ST	N
2270101003	CITY OF SUMTER	1721	W OAKLAND AVE	N
2270101004	BLANDING KAREN	1717	W OAKLAND AVE	N
2270101005	SUMTER CITY OF	1705	W OAKLAND AVE	N
2270103033	SUMTER CITY OF	9	BRIARWOOD DR	N
2270203004	BARWICK RICHARD D	0	CATALPA ST	N
2270801068	CITY OF SUMTER	11	BURKETT DR	N
2270801069	CITY OF SUMTER	9	BURKETT DR	N
2270801092	CITY OF SUMTER	43	CAPRI DR	N
2270802025	HODGE C P SR	39	CAPRI DR	N
2270802027	HAWTHORNE SAMUEL J	35	CAPRI DR	N
2270802054	FLOYD IRENE	19	CAPRI DR	N
2270802057	EALEY JEREMIAH & SOPHIA MAE	5	CAPRI DR	N
2270802059	HAWTHORNE SAMUEL J	0	MCCRAYS MILL RD/1 CAPRI DR	N
2270901036	WILLIAMS JOHNNY	2	CAPRI DR	N
2270902028	GLASSCOCK INVESTMENTS LLC	530	MCCRAYS MILL RD	N
2270902029	SINGLTON JULIAN J	525	NATIONAL ST	N
2270902042	PSSWP LLC	0	LEWIS RD	N
2271502012	COLE CHERYL	812	CLUB LANE	N
2271502014	MARSHALL JERRY P & TERESA L	0	CLUB LANE	N
2281602022	ALLBRITTON LISA L	62	HARRELL RD	N
2281602023	CARR EVELYN B ESTATE	60	HARRELL RD	N
2281602024	CARR W J III AS TRUSTEE	58	HARRELL RD	N
2281602025	LOFLIN PAMELA JO TRUSTEE	54	HARRELL RD	N
2281602026	MCFADDIN ROSALIND T	50	HARRELL RD	N
2051302022	HEDRICK WALTER R	43	LAWTON CIR	N
2051302025	LYLES ALLEN K & BARBARA J	27	LAWTON CIR	N
2051302026	MARTIN ERIC P & LISA M	28	LAWTON CIR	N
2051302031	TORRES GUSTAVO HERRERA & PRADOISABEL RIVERA	33	LAWTON CIR	N
2051302033	FLOYD PATRICIA ANN C/O GREG SCOTT	35	LAWTON CIR	N
2051302034	BANKERS TRUST CO OF CALIF NA T	36	LAWTON CIR	N
2051302037	OCONNOR BETTY A	39	LAWTON CIR	N
2051302038	OWENS DORETHA	40	LAWTON CIR	N
2051302039	MCCANTS ROBERT L	41	LAWTON CIR	N
2051302040	TRUETT RAYMOND A & TERRAYNE L	42	LAWTON CIR	N
2051302043	GRAHAM STANLEY CHRISTIAN & MARISSA DANIELLE	24	HARRELL RD	N
2051302044	GLANCY REBECCA H	26	HARRELL RD	N
2051302045	CORBETT STANLEY W ETAL	28	HARRELL RD	N

Table B-9. Proposed Conditions 1% Annual Chance Inundated Parcels & Structures

Parcel ID	Owner	Address	Street	Inundated Structure?
2051302048	BAKER LAURA RUTH T LE	36	HARRELL RD	N
2060002014	NATIONAL RETAIL PROPERTIES LP	1130	OLD W LIBERTY ST	N
2060401016	PRITCHARD MIRIAM M LE	1839	MILLWOOD RD	N
2060401018	BLACKWOOD JOHNNIE M	1833	MILLWOOD RD	N
2060401021	KENNEDY JANIE W	1823	MILLWOOD RD	N
2060403011	BRYAN JOHNATHAN W	1818	MILLWOOD RD	N
2060403017	LEWING TIMOTHY W & REBEKAH	8	WOODSIDE RD	N
2060403018	MCLEOD HEYWARD JR	1807	GEORGIANNA DR	N
2060403063	CREECH F B III LLC	18	WOODSIDE RD	N
2060403064	ARD DAVID M & REBECCA B	20	WOODSIDE RD	N
2260002005	BARFIELD JUDY	855	POSSUM HOLLOW WAY	N
2260002009	SINGLETON RUSSELL T & LESA G	701	SINGLETON LANE	N
2260002013	SINGLETON JULIAN J	0	SINGLETON LANE	N
2260002015	SUMTER CITY OF	1135	LEWIS RD(1139)	N
2260002028	HUGHES JACQUELINE K	700	HEAVENS TRAIL	N
2260002029	SINGLETON JULIAN J	0	SINGLETON LANE	N
2260301007	BELY INC %VERITAS CHRISTIAN MINISTRIES	822	S GUIGNARD DR	N
2260301012	STATE TREE SERVICES LLC	0	BACK LOT	N
2260301013	SANDERS A B & ELKINS THOMAS D	812	S GUIGNARD DR	N
2260601001	GUIGNARD PROPERTIES LLC	860	S GUIGNARD DR(864)	N
2260601005	B & B PROPERTY LLC	880	S GUIGNARD DR(874)	N
2261001025	CARTER JOANN M	684	MARLBOROUGH DR	N
2261004002	MARTIN LISA A	1215	PEPPERIDGE DRIVE	N
2261105004	LITTLE ANDREW C II	1017	DECATUR ST	N
2261404006	SCHNEIDER MICHELLE ERNESTINE	1033	DECATUR ST	N
2261404007	WHITE-SORRELLS SHAKEEYA	1035	DECATUR ST	N
2261404008	WAFA INVESTMENTS LLC	1041	DECATUR ST	N
2261501052	HOOD VICKI C	1335	PEPPERIDGE DRIVE	N
2261501053	HEARRELL SAMUEL L	1325	PEPPERIDGE DRIVE	N
2270001009	SUMTER CITY OF	0	W OAKLAND AVE	N
2270002010	COLOR-FI/MARTIN FIBERS INC & FORMED FIBER TECHNOLOGIES LLC	320	NEELEY ST	N
2270103001	HICKMON KERN LATORIA	1732	W OAKLAND AVE	N
2270103010	NATIONSTAR MORTGAGE LLC	13	CURTISWOOD AVE	N
2270103018	BYRD JULIA JAMES & DEANE	8	CURTISWOOD AVE	N
2270203003	CEMETERY SUMTER ASSN	700	W OAKLAND AVE	N
2270203056	JONES CHRISTOPHER H	740	MARIGOLD STREET	N
2270701001	CHURCH CLINTON CHAPEL AMEZ	475	COOK ST	N
2270702001	JUSTICE FARMS OF NORTH CAROLINA LLC	411	GREEN SWAMP RD	N
2270702002	CITY OF SUMTER	0	GREEN SWAMP RD	N
2270801045	BOLEN ANN CREECH LLC	6	BOBS DR	N
2270801080	BOATMAN WILLIAM R	40	BURKETT DR	N
2270801081	CHANDLER JAMES & RACHEL	38	BURKETT DR	N
2270901031	BOULWARE GEORGANNA W	547	MCCRAYS MILL RD(543)	N
2270902006	DUPREY WALLACE JR	546	MCCRAYS MILL RD	N
2270902007	BOWMAN THOMAS J & SUSAN K	543	DOW LANE	N
2271502010	HUNTINGTON INC OF SUMTER	395	COACHMAN DR	N

APPENDIX C

Floodplain and Floodway HEC-RAS Output

Duplicate Effective Model

HEC-RAS Plan: 100 River: Green Swamp Reach: DS Dam

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)	
DS Dam	18800	100 YR	4520.00	130.00	140.62		140.72	0.005877	4.72	2281.15	894.04	0.30
DS Dam	18800	500 YR	6400.00	130.00	141.57		141.66	0.004464	4.45	3144.12	923.01	0.27
DS Dam	18350	100 YR	4520.00	130.00	140.00		140.02	0.000696	2.08	4859.54	1250.04	0.12
DS Dam	18350	500 YR	6400.00	130.00	140.98		141.00	0.000712	2.25	6088.88	1274.39	0.12
DS Dam	17350	100 YR	4520.00	129.90	138.64		138.70	0.003470	3.63	2666.92	940.32	0.25
DS Dam	17350	500 YR	6400.00	129.90	139.70		139.76	0.002702	3.54	3688.34	990.58	0.23
DS Dam	16350	100 YR	4520.00	128.80	137.86		137.89	0.001461	2.61	3737.56	1063.90	0.16
DS Dam	16350	500 YR	6400.00	128.80	139.12		139.15	0.001137	2.52	5099.31	1098.07	0.14
DS Dam	15445	100 YR	5200.00	127.60	137.87		137.89	0.000655	2.02	5132.55	1019.53	0.12
DS Dam	15445	500 YR	7200.00	127.60	139.13		139.15	0.000627	2.14	6487.99	1140.83	0.12
DS Dam	15345	100 YR	5200.00	124.20	137.80		137.83	0.000681	2.13	4991.32	1012.68	0.12
DS Dam	15345	500 YR	7200.00	124.20	139.06		139.09	0.000648	2.25	6342.14	1134.32	0.12
DS Dam	15295	100 YR	5200.00	124.20	137.77		137.79	0.000695	2.15	4956.11	1009.31	0.12
DS Dam	15295	500 YR	7200.00	124.20	139.03		139.06	0.000659	2.27	6304.72	1131.13	0.12
DS Dam	15270	100 YR	5200.00	124.20	137.75		137.78	0.000703	2.16	4938.28	1007.61	0.12
DS Dam	15270	500 YR	7200.00	124.20	139.01		139.04	0.000664	2.27	6285.81	1129.51	0.12
DS Dam	15255	100 YR	5200.00	124.20	137.74	134.04	137.76	0.000708	2.17	4927.48	1006.57	0.12
DS Dam	15255	500 YR	7200.00	124.20	139.00	134.32	139.03	0.000668	2.28	6274.32	1128.53	0.12
DS Dam	15245		Bridge									
DS Dam	15195	100 YR	5200.00	124.20	137.66		137.68	0.000744	2.21	4845.98	998.71	0.12
DS Dam	15195	500 YR	7200.00	124.20	138.93		138.96	0.000693	2.31	6193.43	1121.58	0.12
DS Dam	15180	100 YR	5200.00	130.20	137.65		137.67	0.000946	2.01	4610.26	979.65	0.14
DS Dam	15180	500 YR	7200.00	130.20	138.92		138.95	0.000839	2.12	5920.84	1091.68	0.13
DS Dam	15155	100 YR	5200.00	130.20	137.63		137.65	0.000961	2.02	4586.68	979.06	0.14
DS Dam	15155	500 YR	7200.00	130.20	138.90		138.92	0.000849	2.13	5897.59	1089.62	0.13
DS Dam	15105	100 YR	5200.00	130.10	137.58		137.60	0.000927	2.00	4638.86	980.36	0.14
DS Dam	15105	500 YR	7200.00	130.10	138.86		138.88	0.000822	2.11	5961.73	1095.29	0.13
DS Dam	15005	100 YR	5200.00	129.90	137.49		137.51	0.000861	1.94	4748.41	983.10	0.13
DS Dam	15005	500 YR	7200.00	129.90	138.78		138.80	0.000770	2.06	6095.46	1107.03	0.13
DS Dam	14000	100 YR	5200.00	127.60	136.85		136.86	0.000506	1.75	6400.67	1572.85	0.10
DS Dam	14000	500 YR	7200.00	127.60	138.24		138.26	0.000401	1.72	8660.84	1655.46	0.09
DS Dam	13210	100 YR	5200.00	126.00	136.60		136.61	0.000214	1.25	8591.17	1653.14	0.07
DS Dam	13210	500 YR	7200.00	126.00	138.03		138.04	0.000196	1.31	11015.32	1732.96	0.07
DS Dam	13110	100 YR	5200.00	125.50	136.58		136.59	0.000198	1.17	8490.83	1523.48	0.07
DS Dam	13110	500 YR	7200.00	125.50	138.01		138.02	0.000191	1.26	10752.69	1633.22	0.07
DS Dam	13060	100 YR	5200.00	125.50	136.57		136.58	0.000199	1.17	8475.65	1522.72	0.07
DS Dam	13060	500 YR	7200.00	125.50	138.00		138.01	0.000192	1.26	10736.97	1632.41	0.07
DS Dam	13035	100 YR	5200.00	125.50	136.57		136.57	0.000200	1.17	8468.03	1522.33	0.07
DS Dam	13035	500 YR	7200.00	125.50	138.00		138.01	0.000193	1.26	10729.10	1632.01	0.07
DS Dam	13020	100 YR	5200.00	125.50	136.56	130.95	136.57	0.000233	1.26	7490.03	1226.68	0.07
DS Dam	13020	500 YR	7200.00	125.50	137.99	131.26	138.01	0.000232	1.38	9280.11	1271.82	0.07
DS Dam	13010		Bridge									
DS Dam	12990	100 YR	5200.00	125.50	135.58		136.42	0.011837	7.32	710.43	99.38	0.48
DS Dam	12990	500 YR	7200.00	125.50	136.54		137.78	0.015408	8.92	806.94	101.56	0.56
DS Dam	12980	100 YR	5200.00	125.50	136.15		136.16	0.000288	1.36	6986.88	1213.69	0.08
DS Dam	12980	500 YR	7200.00	125.50	137.39		137.40	0.000301	1.52	8514.44	1252.71	0.08
DS Dam	12965	100 YR	5200.00	125.50	136.14		136.16	0.000288	1.36	6981.62	1213.55	0.08
DS Dam	12965	500 YR	7200.00	125.50	137.38		137.40	0.000302	1.52	8508.74	1252.57	0.08
DS Dam	12940	100 YR	5200.00	124.25	136.13		136.14	0.000757	2.04	5251.39	1170.77	0.11
DS Dam	12940	500 YR	7200.00	124.25	137.37		137.39	0.000675	2.08	6728.56	1212.62	0.11
DS Dam	12890	100 YR	5200.00	124.00	136.09		136.11	0.000654	1.92	5505.72	1178.14	0.11
DS Dam	12890	500 YR	7200.00	124.00	137.33		137.35	0.000599	1.99	6995.76	1219.55	0.10

HEC-RAS Plan: 100 River: Green Swamp Reach: DS Dam (Continued)

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)	
DS Dam	12790	100 YR	5200.00	123.50	136.06		136.06	0.000305	1.19	7743.63	1539.54	0.07
DS Dam	12790	500 YR	7200.00	123.50	137.30		137.31	0.000293	1.27	9705.26	1609.17	0.07
DS Dam	12580	100 YR	5200.00	123.50	135.97		135.98	0.000515	1.75	5951.98	1190.94	0.10
DS Dam	12580	500 YR	7200.00	123.50	137.22		137.23	0.000490	1.84	7464.55	1231.59	0.10
DS Dam	12480	100 YR	5200.00	123.00	135.93		135.94	0.000392	1.57	6500.42	1206.50	0.08
DS Dam	12480	500 YR	7200.00	123.00	137.18		137.19	0.000391	1.69	8032.58	1246.04	0.09
DS Dam	12430	100 YR	5200.00	122.50	135.90		135.92	0.000436	1.85	6396.61	1459.04	0.09
DS Dam	12430	500 YR	7200.00	122.50	137.15		137.17	0.000402	1.89	8311.24	1595.75	0.09
DS Dam	12405	100 YR	5200.00	122.50	135.89		135.91	0.000439	1.86	6380.50	1457.57	0.09
DS Dam	12405	500 YR	7200.00	122.50	137.14		137.16	0.000404	1.90	8295.06	1594.66	0.09
DS Dam	12390	100 YR	5200.00	122.50	135.88	131.98	135.90	0.000440	1.86	6370.72	1456.68	0.09
DS Dam	12390	500 YR	7200.00	122.50	137.14	132.35	137.15	0.000405	1.90	8285.28	1594.01	0.09
DS Dam	12380		Bridge									
DS Dam	12340	100 YR	5200.00	120.40	134.96		135.57	0.006402	6.26	831.15	89.21	0.36
DS Dam	12340	500 YR	7200.00	120.40	135.84	130.94	136.71	0.008559	7.62	1328.62	1120.45	0.42
DS Dam	12140	100 YR	5200.00	122.50	134.55		134.69	0.002948	4.46	2802.29	1285.46	0.24
DS Dam	12140	500 YR	7200.00	122.50	135.85		135.94	0.001932	3.89	4672.05	1592.54	0.19
DS Dam	11760	100 YR	5200.00	122.00	134.21		134.24	0.000617	2.19	4752.53	874.00	0.12
DS Dam	11760	500 YR	7200.00	122.00	135.52		135.55	0.000613	2.35	5974.76	997.50	0.12
DS Dam	10900	100 YR	5200.00	121.70	133.41		133.48	0.001350	3.26	3394.09	771.73	0.17
DS Dam	10900	500 YR	7200.00	121.70	134.76		134.83	0.001219	3.34	4508.84	916.68	0.17
DS Dam	9020	100 YR	5200.00	120.50	132.04	128.18	132.05	0.000485	1.57	6268.78	1434.89	0.10
DS Dam	9020	500 YR	7200.00	120.50	133.71	128.51	133.73	0.000341	1.50	8732.60	1525.63	0.09
DS Dam	9010		Bridge									
DS Dam	8990	100 YR	5200.00	119.00	130.44		131.85	0.020152	9.52	545.94	74.49	0.62
DS Dam	8990	500 YR	7200.00	119.00	130.12	129.64	133.07	0.043965	13.78	522.42	73.68	0.91
DS Dam	8790	100 YR	5200.00	120.50	131.23		131.26	0.000885	1.97	5124.22	1402.78	0.13
DS Dam	8790	500 YR	7200.00	120.50	132.33		132.36	0.000764	2.02	6692.66	1441.85	0.13
DS Dam	6400	100 YR	5200.00	120.00	129.58		129.59	0.000563	1.76	6070.93	1347.57	0.11
DS Dam	6400	500 YR	7200.00	120.00	130.95		130.96	0.000461	1.76	7934.62	1371.55	0.10
DS Dam	5500	100 YR	5200.00	120.00	129.31		129.32	0.000190	1.02	10332.39	2170.19	0.06
DS Dam	5500	500 YR	7200.00	120.00	130.73		130.74	0.000157	1.02	13443.74	2213.75	0.06
DS Dam	4000	100 YR	5200.00	119.50	129.03		129.03	0.000185	1.03	9658.62	1817.91	0.06
DS Dam	4000	500 YR	7200.00	119.50	130.49		130.50	0.000163	1.07	12371.22	1893.16	0.06
DS Dam	2500	100 YR	5200.00	119.30	128.83	122.37	128.83	0.000100	0.80	11148.19	1707.63	0.05
DS Dam	2500	500 YR	7200.00	119.30	130.30	122.55	130.30	0.000102	0.89	13755.19	1851.25	0.05

Corrective Effective Model

HEC-RAS Plan: Cor Eff Plan River: Green Swamp Reach: DS Dam

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)	
DS Dam	18045	100 YR FEMA	4520.00	135.00	148.72		148.72	0.000117	1.07	8144.78	1011.00	0.05
DS Dam	18045	500 YR	6400.00	135.00	149.16		149.17	0.000197	1.42	8592.80	1011.00	0.07
DS Dam	17865	100 YR FEMA	4520.00	135.00	148.71	139.30	148.71	0.000062	0.76	10669.86	1217.55	0.04
DS Dam	17865	500 YR	6400.00	135.00	149.14	139.59	149.14	0.000108	1.02	11202.21	1235.13	0.05
DS Dam	17805		Culvert									
DS Dam	17765	100 YR FEMA	4520.00	130.00	140.64		140.75	0.005514	4.78	2322.07	894.44	0.30
DS Dam	17765	500 YR	6400.00	130.00	141.72		141.80	0.003895	4.37	3304.33	927.33	0.26
DS Dam	17350	100 YR FEMA	4520.00	130.00	140.07		140.09	0.000737	2.16	4851.71	1254.48	0.12
DS Dam	17350	500 YR	6400.00	130.00	141.21		141.24	0.000682	2.24	6316.89	1298.10	0.12
DS Dam	16375	100 YR FEMA	4520.00	129.90	139.19		139.21	0.001125	2.18	4243.27	1100.06	0.15
DS Dam	16375	500 YR	6400.00	129.90	140.42		140.44	0.000997	2.29	5650.28	1203.38	0.14
DS Dam	15460	100 YR FEMA	4520.00	128.80	138.63		138.64	0.000406	1.46	5919.91	1151.42	0.08
DS Dam	15460	500 YR	6400.00	128.80	139.88		139.89	0.000412	1.60	7388.31	1200.12	0.09
DS Dam	14595	100 YR FEMA	5200.00	124.65	138.31		138.32	0.000331	1.59	7224.50	1396.29	0.08
DS Dam	14595	500 YR	7200.00	124.65	139.56		139.57	0.000332	1.70	9009.42	1466.13	0.08
DS Dam	14500	100 YR FEMA	5200.00	124.20	138.27		138.29	0.000407	1.70	6317.90	1150.82	0.09
DS Dam	14500	500 YR	7200.00	124.20	139.52		139.53	0.000446	1.92	7834.69	1287.66	0.10
DS Dam	14455	100 YR FEMA	5200.00	124.20	138.24		138.26	0.000575	2.02	5445.44	1055.14	0.11
DS Dam	14455	500 YR	7200.00	124.20	139.48		139.51	0.000595	2.21	6830.57	1175.21	0.11
DS Dam	14437	100 YR FEMA	5200.00	124.20	138.23		138.25	0.000578	2.02	5434.40	1054.13	0.11
DS Dam	14437	500 YR	7200.00	124.20	139.47		139.50	0.000598	2.22	6817.83	1174.16	0.11
DS Dam	14420	100 YR FEMA	5200.00	124.20	138.22	133.79	138.24	0.000524	1.93	5667.65	1085.41	0.11
DS Dam	14420	500 YR	7200.00	124.20	139.47	134.19	139.49	0.000540	2.12	7075.98	1183.04	0.11
DS Dam	14385		Bridge									
DS Dam	14350	100 YR FEMA	5200.00	124.16	137.96		137.98	0.000604	2.04	5386.60	1064.83	0.11
DS Dam	14350	500 YR	7200.00	124.16	139.29		139.32	0.000586	2.18	6871.91	1169.38	0.11
DS Dam	14330	100 YR FEMA	5200.00	124.13	137.96		137.97	0.000394	1.70	6387.60	1266.89	0.09
DS Dam	14330	500 YR	7200.00	124.13	139.29		139.31	0.000384	1.83	8140.93	1367.56	0.09
DS Dam	14250	100 YR FEMA	5200.00	124.04	137.92		137.94	0.000402	1.72	6341.90	1263.83	0.09
DS Dam	14250	500 YR	7200.00	124.04	139.26		139.28	0.000391	1.84	8093.10	1365.20	0.10
DS Dam	14205	100 YR FEMA	5200.00	123.77	137.90		137.92	0.000421	1.78	6208.03	1261.92	0.10
DS Dam	14205	500 YR	7200.00	123.77	139.24		139.26	0.000407	1.89	7958.21	1363.75	0.10
DS Dam	14025	100 YR FEMA	5200.00	123.77	137.84		137.86	0.000329	1.57	7017.82	1380.95	0.09
DS Dam	14025	500 YR	7200.00	123.77	139.18		139.19	0.000316	1.66	8908.44	1451.97	0.09
DS Dam	13165	100 YR FEMA	5200.00	122.75	137.62		137.63	0.000211	1.40	8136.79	1372.08	0.07
DS Dam	13165	500 YR	7200.00	122.75	138.95		138.97	0.000223	1.54	10017.78	1454.56	0.07
DS Dam	12400	100 YR FEMA	5200.00	121.84	137.48		137.49	0.000163	1.31	8512.61	1260.87	0.06
DS Dam	12400	500 YR	7200.00	121.84	138.80		138.81	0.000184	1.47	10212.16	1318.49	0.07
DS Dam	12220	100 YR FEMA	5200.00	121.63	136.89	131.44	137.37	0.005199	5.61	927.26	102.19	0.33
DS Dam	12220	500 YR	7200.00	121.63	137.91	132.73	138.66	0.007196	6.97	1032.97	104.09	0.39
DS Dam	12205		Bridge									
DS Dam	12190	100 YR FEMA	5200.00	121.60	136.47		137.00	0.005984	5.87	885.27	101.42	0.35
DS Dam	12190	500 YR	7200.00	121.60	137.24		138.10	0.008869	7.47	963.77	102.84	0.43
DS Dam	12148	100 YR FEMA	5200.00	121.54	136.93		136.94	0.000181	1.25	8096.78	1238.27	0.07
DS Dam	12148	500 YR	7200.00	121.54	137.99		138.01	0.000220	1.47	9432.05	1271.78	0.07
DS Dam	12120	100 YR FEMA	5200.00	121.54	136.92		136.93	0.000174	1.23	8426.93	1335.07	0.06
DS Dam	12120	500 YR	7200.00	121.54	137.99		138.00	0.000210	1.44	9872.08	1383.45	0.07
DS Dam	12075	100 YR FEMA	5200.00	121.45	136.91		136.92	0.000423	1.76	6568.12	1305.29	0.09
DS Dam	12075	500 YR	7200.00	121.45	137.97		137.99	0.000454	1.93	7982.95	1359.83	0.09
DS Dam	11988	100 YR FEMA	5200.00	121.35	136.88		136.89	0.000267	1.43	7517.34	1269.29	0.07
DS Dam	11988	500 YR	7200.00	121.35	137.94		137.95	0.000309	1.62	8880.42	1307.38	0.08

HEC-RAS Plan: Cor Eff Plan River: Green Swamp Reach: DS Dam (Continued)

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)	
DS Dam	11945	100 YR FEMA	5200.00	121.30	136.88		136.88	0.000165	1.05	9756.81	1639.76	0.05
DS Dam	11945	500 YR	7200.00	121.30	137.94		137.94	0.000191	1.20	11524.58	1702.69	0.06
DS Dam	11795	100 YR FEMA	5200.00	121.12	136.84		136.85	0.000259	1.41	7767.22	1340.01	0.07
DS Dam	11795	500 YR	7200.00	121.12	137.90		137.91	0.000300	1.61	9204.05	1392.07	0.08
DS Dam	11675	100 YR FEMA	5200.00	120.98	136.81		136.82	0.000249	1.38	7809.65	1308.49	0.07
DS Dam	11675	500 YR	7200.00	120.98	137.86		137.87	0.000294	1.58	9207.05	1361.86	0.07
DS Dam	11615	100 YR FEMA	5200.00	120.90	136.80		136.81	0.000163	1.24	9681.60	1732.74	0.06
DS Dam	11615	500 YR	7200.00	120.90	137.85		137.86	0.000192	1.40	11550.49	1842.70	0.06
DS Dam	11585	100 YR FEMA	5200.00	120.90	136.80		136.80	0.000184	1.31	9233.51	1713.54	0.06
DS Dam	11585	500 YR	7200.00	120.90	137.84		137.85	0.000211	1.47	11067.62	1798.15	0.07
DS Dam	11570	100 YR FEMA	5200.00	120.90	136.79		136.80	0.000186	1.32	9210.19	1718.13	0.06
DS Dam	11570	500 YR	7200.00	120.90	137.84		137.85	0.000212	1.48	11046.25	1798.54	0.07
DS Dam	11530	100 YR FEMA	5200.00	120.80	136.77		136.79	0.000358	1.93	6249.60	1280.53	0.09
DS Dam	11530	500 YR	7200.00	120.80	137.81		137.83	0.000443	2.26	7814.59	1736.48	0.10
DS Dam	11480	100 YR FEMA	5200.00	120.75	136.57	129.43	136.75	0.002009	3.88	2961.30	1454.08	0.21
DS Dam	11480	500 YR	7200.00	120.75	137.66	131.03	137.79	0.001662	3.76	4626.46	1609.04	0.19
DS Dam	11432		Bridge									
DS Dam	11390	100 YR FEMA	5200.00	120.75	134.10		134.84	0.008796	6.94	749.76	88.48	0.42
DS Dam	11390	500 YR	7200.00	120.75	135.56	131.03	136.38	0.008667	7.55	1561.27	1309.67	0.43
DS Dam	11370	100 YR FEMA	5200.00	120.60	134.64		134.74	0.001357	3.35	3122.27	702.62	0.17
DS Dam	11370	500 YR	7200.00	120.60	136.17		136.27	0.001213	3.44	4257.06	774.86	0.17
DS Dam	11315	100 YR FEMA	5200.00	120.55	134.69		134.70	0.000289	1.49	7562.13	1492.53	0.08
DS Dam	11315	500 YR	7200.00	120.55	136.22		136.23	0.000249	1.51	9928.60	1610.79	0.08
DS Dam	11195	100 YR FEMA	5200.00	120.55	134.64		134.66	0.000466	1.85	6277.54	1317.42	0.10
DS Dam	11195	500 YR	7200.00	120.55	136.18		136.20	0.000391	1.86	8391.53	1423.64	0.09
DS Dam	10980	100 YR FEMA	5200.00	120.05	134.53		134.56	0.000431	1.99	5599.54	1017.77	0.10
DS Dam	10980	500 YR	7200.00	120.05	136.08		136.11	0.000411	2.10	7248.94	1107.28	0.10
DS Dam	10220	100 YR FEMA	5200.00	118.90	134.11		134.16	0.000655	2.60	4123.11	713.07	0.12
DS Dam	10220	500 YR	7200.00	118.90	135.67		135.72	0.000637	2.75	5251.32	728.72	0.12
DS Dam	8575	100 YR FEMA	5200.00	116.46	132.91		132.96	0.000818	2.21	4259.31	1075.54	0.13
DS Dam	8575	500 YR	7200.00	116.46	134.68		134.72	0.000586	2.11	6455.32	1346.67	0.12
DS Dam	8410	100 YR FEMA	5200.00	116.19	131.79	126.96	132.60	0.008655	7.19	723.03	77.94	0.42
DS Dam	8410	500 YR	7200.00	116.19	133.25	128.48	134.40	0.010841	8.57	839.68	81.67	0.47
DS Dam	8375		Bridge									
DS Dam	8340	100 YR FEMA	5200.00	116.22	130.19		131.35	0.014771	8.66	600.35	73.85	0.54
DS Dam	8340	500 YR	7200.00	116.22	130.49		132.57	0.025458	11.56	622.92	74.62	0.71
DS Dam	8305	100 YR FEMA	5200.00	116.06	131.11		131.16	0.001308	2.22	4180.76	1298.48	0.16
DS Dam	8305	500 YR	7200.00	116.06	132.26		132.30	0.001038	2.22	5698.94	1345.60	0.14
DS Dam	6090	100 YR FEMA	5200.00	112.76	129.50		129.53	0.000465	2.05	5939.47	1378.46	0.10
DS Dam	6090	500 YR	7200.00	112.76	130.90		130.93	0.000408	2.06	7914.31	1439.48	0.10
DS Dam	5220	100 YR FEMA	5200.00	111.46	129.19		129.21	0.000298	1.67	8007.52	1826.03	0.08
DS Dam	5220	500 YR	7200.00	111.46	130.65		130.66	0.000242	1.61	10685.03	1857.59	0.07
DS Dam	3985	100 YR FEMA	5200.00	109.63	128.98		128.99	0.000117	1.11	10592.37	1938.73	0.05
DS Dam	3985	500 YR	7200.00	109.63	130.45		130.46	0.000113	1.17	13509.57	2026.49	0.05
DS Dam	3565	100 YR FEMA	5200.00	109.00	128.93		128.94	0.000115	1.07	10493.30	1875.16	0.05
DS Dam	3565	500 YR	7200.00	109.00	130.40		130.41	0.000114	1.14	13302.70	1950.00	0.05
DS Dam	3490	100 YR FEMA	5200.00	109.00	128.92		128.93	0.000140	1.19	10157.94	1874.78	0.06
DS Dam	3490	500 YR	7200.00	109.00	130.39		130.40	0.000133	1.24	12967.60	1949.27	0.06
DS Dam	2500	100 YR FEMA	5200.00	107.41	128.83	116.65	128.83	0.000067	0.93	12761.07	1814.95	0.04
DS Dam	2500	500 YR	7200.00	107.41	130.30	118.51	130.31	0.000074	1.03	15499.32	1910.80	0.04

Existing Conditions Model

HEC-RAS Plan: EX PLAN River: Green Swamp Reach: DS Dam

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)	
DS Dam	18045	100 YR FEMA	10692.00	135.00	149.10		149.13	0.000637	2.54	8613.16	1156.43	0.12
DS Dam	18045	500 YR	14278.00	135.00	150.04		150.08	0.000855	3.08	9762.16	1280.88	0.14
DS Dam	17865	100 YR FEMA	10692.00	135.00	149.04	139.94	149.06	0.000242	1.64	11363.32	1231.28	0.08
DS Dam	17865	500 YR	14278.00	135.00	149.97	140.41	149.99	0.000327	2.00	12516.04	1268.63	0.09
DS Dam	17835		Inl Struct									
DS Dam	17765	100 YR FEMA	9141.00	130.00	144.55		144.60	0.000581	2.52	6800.62	1020.09	0.12
DS Dam	17765	500 YR	13045.00	130.00	148.18		148.22	0.000348	2.27	10862.16	1196.42	0.10
DS Dam	17350	100 YR FEMA	9820.00	130.00	144.40		144.42	0.000345	1.89	10687.34	1452.18	0.09
DS Dam	17350	500 YR	18412.00	130.00	148.05		148.07	0.000362	2.26	16364.04	1684.66	0.10
DS Dam	16375	100 YR FEMA	9820.00	129.90	144.04		144.06	0.000391	1.83	10675.31	1529.68	0.09
DS Dam	16375	500 YR	18412.00	129.90	147.68		147.70	0.000393	2.19	16585.58	1776.57	0.10
DS Dam	15460	100 YR FEMA	9820.00	128.80	143.80		143.81	0.000200	1.38	12502.25	1385.79	0.06
DS Dam	15460	500 YR	18412.00	128.80	147.40		147.42	0.000254	1.80	17822.65	1559.17	0.07
DS Dam	14595	100 YR FEMA	10500.00	124.65	143.66		143.67	0.000143	1.35	15574.98	1695.77	0.06
DS Dam	14595	500 YR	19212.00	124.65	147.22		147.23	0.000186	1.75	22083.66	1974.97	0.07
DS Dam	14500	100 YR FEMA	10500.00	124.20	143.64		143.65	0.000201	1.57	14173.15	1747.44	0.07
DS Dam	14500	500 YR	19212.00	124.20	147.20		147.22	0.000232	1.94	20945.64	2059.54	0.08
DS Dam	14455	100 YR FEMA	10500.00	124.20	143.63		143.64	0.000247	1.74	12292.97	1446.51	0.08
DS Dam	14455	500 YR	19212.00	124.20	147.18		147.20	0.000295	2.18	17821.75	1664.44	0.09
DS Dam	14437	100 YR FEMA	10500.00	124.20	143.62		143.64	0.000247	1.74	12286.53	1446.23	0.08
DS Dam	14437	500 YR	19212.00	124.20	147.18		147.20	0.000296	2.18	17812.86	1664.11	0.09
DS Dam	14420	100 YR FEMA	10500.00	124.20	143.62	134.59	143.63	0.000232	1.70	12551.38	1446.03	0.07
DS Dam	14420	500 YR	19212.00	124.20	147.17	135.47	147.19	0.000283	2.14	18075.58	1663.85	0.09
DS Dam	14385		Bridge									
DS Dam	14350	100 YR FEMA	10500.00	124.16	143.58		143.59	0.000235	1.70	12496.17	1443.67	0.08
DS Dam	14350	500 YR	19212.00	124.16	147.13		147.16	0.000285	2.15	18013.69	1661.56	0.09
DS Dam	14330	100 YR FEMA	10500.00	124.13	143.58		143.59	0.000166	1.48	15289.62	1945.70	0.07
DS Dam	14330	500 YR	19212.00	124.13	147.13		147.15	0.000193	1.83	22978.68	2389.27	0.07
DS Dam	14250	100 YR FEMA	10500.00	124.04	143.57		143.58	0.000168	1.49	15258.52	1944.35	0.07
DS Dam	14250	500 YR	19212.00	124.04	147.12		147.13	0.000195	1.84	22936.48	2387.27	0.07
DS Dam	14205	100 YR FEMA	10500.00	123.77	143.56		143.57	0.000171	1.51	15134.37	1943.53	0.07
DS Dam	14205	500 YR	19212.00	123.77	147.11		147.13	0.000198	1.86	22805.83	2386.08	0.07
DS Dam	14025	100 YR FEMA	10500.00	123.77	143.53		143.54	0.000135	1.34	15970.62	1818.50	0.06
DS Dam	14025	500 YR	19212.00	123.77	147.08		147.09	0.000165	1.70	22853.77	2049.82	0.07
DS Dam	13165	100 YR FEMA	10500.00	122.75	143.43		143.44	0.000109	1.30	17287.36	1867.59	0.05
DS Dam	13165	500 YR	19212.00	122.75	146.95		146.96	0.000150	1.71	24671.11	2326.52	0.06
DS Dam	12400	100 YR FEMA	10500.00	121.84	143.35		143.36	0.000097	1.28	17911.92	2069.80	0.05
DS Dam	12400	500 YR	19212.00	121.84	146.83		146.84	0.000148	1.76	26580.75	3049.23	0.06
DS Dam	12220	100 YR FEMA	10500.00	121.63	142.98	134.49	143.29	0.002368	5.13	4189.21	1442.05	0.23
DS Dam	12220	500 YR	19212.00	121.63	146.62	138.17	146.77	0.001341	4.46	10243.12	1879.48	0.18
DS Dam	12205		Bridge									
DS Dam	12190	100 YR FEMA	10500.00	121.63	141.71		142.37	0.004655	6.78	2465.51	1290.67	0.32
DS Dam	12190	500 YR	19212.00	121.63	146.50		146.66	0.001410	4.56	10021.84	1865.30	0.19
DS Dam	12148	100 YR FEMA	10500.00	121.54	142.30		142.31	0.000137	1.41	16703.61	2222.45	0.06
DS Dam	12148	500 YR	19212.00	121.54	146.63		146.64	0.000123	1.56	27368.82	2699.19	0.06
DS Dam	12120	100 YR FEMA	10500.00	121.54	142.29		142.30	0.000126	1.36	16844.13	2049.64	0.06
DS Dam	12120	500 YR	19212.00	121.54	146.63		146.64	0.000124	1.57	27229.02	2698.79	0.06
DS Dam	12075	100 YR FEMA	10500.00	121.45	142.28		142.29	0.000201	1.55	14656.17	1922.45	0.07
DS Dam	12075	500 YR	19212.00	121.45	146.62		146.63	0.000182	1.71	24816.43	2675.95	0.06
DS Dam	11988	100 YR FEMA	10500.00	121.35	142.27		142.28	0.000157	1.39	15496.79	1989.15	0.06
DS Dam	11988	500 YR	19212.00	121.35	146.60		146.62	0.000146	1.56	25024.68	2404.44	0.06

HEC-RAS Plan: EX PLAN River: Green Swamp Reach: DS Dam (Continued)

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)	
DS Dam	11945	100 YR FEMA	10500.00	121.30	142.27		142.27	0.000094	1.02	20098.57	2370.61	0.04
DS Dam	11945	500 YR	19212.00	121.30	146.60		146.61	0.000088	1.15	30812.00	2569.19	0.04
DS Dam	11795	100 YR FEMA	10500.00	121.12	142.25		142.26	0.000141	1.33	16534.26	2112.45	0.06
DS Dam	11795	500 YR	19212.00	121.12	146.58		146.59	0.000127	1.46	26517.88	2488.30	0.05
DS Dam	11675	100 YR FEMA	10500.00	120.98	142.23		142.24	0.000150	1.36	16916.20	2252.64	0.06
DS Dam	11675	500 YR	19212.00	120.98	146.57		146.58	0.000126	1.43	27514.00	2635.50	0.05
DS Dam	11615	100 YR FEMA	10500.00	120.90	142.23		142.23	0.000082	1.08	20562.10	2264.69	0.04
DS Dam	11615	500 YR	19212.00	120.90	146.57		146.57	0.000093	1.31	31474.35	2845.08	0.05
DS Dam	11585	100 YR FEMA	10500.00	120.90	142.22		142.23	0.000086	1.10	19330.35	1987.01	0.04
DS Dam	11585	500 YR	19212.00	120.90	146.56		146.57	0.000096	1.33	28686.45	2319.58	0.05
DS Dam	11570	100 YR FEMA	10500.00	120.90	142.22		142.23	0.000086	1.11	19312.27	1986.90	0.04
DS Dam	11570	500 YR	19212.00	120.90	146.56		146.57	0.000096	1.33	28667.58	2319.47	0.05
DS Dam	11530	100 YR FEMA	10500.00	120.80	142.21		142.22	0.000140	1.51	16175.39	2016.33	0.06
DS Dam	11530	500 YR	19212.00	120.80	146.55		146.56	0.000136	1.71	25705.82	2408.59	0.06
DS Dam	11480	100 YR FEMA	10500.00	120.75	142.19	133.13	142.21	0.000279	1.91	13381.38	2254.94	0.08
DS Dam	11480	500 YR	19212.00	120.75	146.54	137.33	146.56	0.000192	1.85	24528.74	2874.40	0.07
DS Dam	11432		Bridge									
DS Dam	11390	100 YR FEMA	10500.00	120.75	142.14		142.16	0.000286	1.93	13253.72	2246.85	0.08
DS Dam	11390	500 YR	19212.00	120.75	146.51		146.52	0.000194	1.86	24435.92	2869.80	0.07
DS Dam	11370	100 YR FEMA	10500.00	120.60	142.12		142.15	0.000335	2.32	10866.80	2021.24	0.09
DS Dam	11370	500 YR	19212.00	120.60	146.49		146.52	0.000248	2.29	21947.43	2844.93	0.08
DS Dam	11315	100 YR FEMA	10500.00	120.55	142.14	130.97	142.14	0.000063	0.99	20375.91	1822.37	0.04
DS Dam	11315	500 YR	19212.00	120.55	146.50	131.77	146.51	0.000091	1.36	29136.92	2393.23	0.05
DS Dam	11255		Bridge									
DS Dam	11195	100 YR FEMA	10500.00	120.55	138.74		138.76	0.000276	1.77	12299.12	1710.76	0.08
DS Dam	11195	500 YR	19212.00	120.55	146.22		146.23	0.000098	1.39	25484.03	1802.63	0.05
DS Dam	10980	100 YR FEMA	10500.00	120.05	138.67		138.69	0.000340	2.14	10214.38	1229.86	0.09
DS Dam	10980	500 YR	19212.00	120.05	146.19		146.20	0.000155	1.86	20992.37	1618.76	0.07
DS Dam	10220	100 YR FEMA	10500.00	118.90	138.31		138.36	0.000572	2.89	7220.98	805.76	0.12
DS Dam	10220	500 YR	19212.00	118.90	146.02		146.05	0.000265	2.48	15839.87	1208.10	0.09
DS Dam	8575	100 YR FEMA	10500.00	116.46	137.63		137.66	0.000328	1.86	10706.79	1536.85	0.09
DS Dam	8575	500 YR	19212.00	116.46	145.76		145.78	0.000113	1.50	24773.93	2007.60	0.06
DS Dam	8410	100 YR FEMA	10500.00	116.19	135.90	130.62	137.41	0.012254	9.86	1065.23	91.45	0.51
DS Dam	8410	500 YR	19212.00	116.19	145.06	135.08	145.68	0.003892	7.05	4831.04	1259.94	0.31
DS Dam	8375		Bridge									
DS Dam	8340	100 YR FEMA	10500.00	116.22	130.66	130.66	134.90	0.051102	16.52	635.54	75.05	1.00
DS Dam	8340	500 YR	19212.00	116.22	135.11	135.11	140.91	0.047888	19.32	994.54	86.39	1.00
DS Dam	8305	100 YR FEMA	10500.00	116.06	133.23		133.29	0.001201	2.59	7026.85	1388.82	0.16
DS Dam	8305	500 YR	19212.00	116.06	136.57		136.63	0.000863	2.76	11934.97	1561.62	0.14
DS Dam	6090	100 YR FEMA	10500.00	112.76	131.09		131.14	0.000788	2.89	8189.71	1448.26	0.13
DS Dam	6090	500 YR	19212.00	112.76	135.02		135.06	0.000580	2.91	14620.88	1825.02	0.12
DS Dam	5220	100 YR FEMA	10500.00	111.46	130.55		130.58	0.000541	2.40	10508.70	1855.74	0.11
DS Dam	5220	500 YR	19212.00	111.46	134.66		134.68	0.000343	2.24	18367.48	2028.99	0.09
DS Dam	3985	100 YR FEMA	10500.00	109.63	130.08		130.10	0.000282	1.82	12768.54	2002.39	0.08
DS Dam	3985	500 YR	19212.00	109.63	134.33		134.35	0.000209	1.86	21927.26	2330.40	0.08
DS Dam	3565	100 YR FEMA	10500.00	109.00	129.96	121.50	129.98	0.000289	1.78	12451.08	1916.47	0.08
DS Dam	3565	500 YR	19212.00	109.00	134.24	125.37	134.26	0.000212	1.81	21252.86	2150.82	0.07
DS Dam	3525		Bridge									
DS Dam	3490	100 YR FEMA	10500.00	109.00	129.18		129.20	0.000500	2.27	10642.89	1885.10	0.11
DS Dam	3490	500 YR	19212.00	109.00	130.91		130.96	0.000764	3.04	13989.98	1990.53	0.14

HEC-RAS Plan: EX PLAN River: Green Swamp Reach: DS Dam (Continued)

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)	
DS Dam	2500	100 YR FEMA	10500.00	107.41	128.83	122.83	128.85	0.000272	1.87	12761.07	1814.95	0.08
DS Dam	2500	500 YR	19212.00	107.41	130.30	123.88	130.34	0.000525	2.75	15499.32	1910.80	0.11

Proposed Conditions Model

HEC-RAS Plan: Prop Plan River: Green Swamp Reach: DS Dam

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)	
DS Dam	18045	100 YR FEMA	10695.00	135.00	147.78		147.82	0.000942	2.88	7199.64	981.92	0.15
DS Dam	18045	500 YR	14290.00	135.00	148.72		148.77	0.001276	3.53	8179.77	1105.85	0.17
DS Dam	17865	100 YR FEMA	10695.00	135.00	147.69	139.93	147.72	0.000377	1.92	9733.84	1176.46	0.09
DS Dam	17865	500 YR	14290.00	135.00	148.60	140.41	148.64	0.000496	2.31	10820.99	1213.31	0.11
DS Dam	17835		Inl Struct									
DS Dam	17765	100 YR FEMA	9573.00	130.00	144.90		144.95	0.000560	2.51	7162.41	1041.33	0.12
DS Dam	17765	500 YR	12984.00	130.00	148.17		148.21	0.000346	2.27	10844.26	1195.81	0.10
DS Dam	17350	100 YR FEMA	10641.00	130.00	144.75		144.77	0.000353	1.94	11198.89	1468.99	0.09
DS Dam	17350	500 YR	18367.00	130.00	148.03		148.06	0.000362	2.26	16339.14	1683.54	0.10
DS Dam	16375	100 YR FEMA	10641.00	129.90	144.39		144.40	0.000396	1.88	11203.43	1542.74	0.09
DS Dam	16375	500 YR	18367.00	129.90	147.67		147.69	0.000393	2.19	16559.84	1775.08	0.10
DS Dam	15460	100 YR FEMA	10641.00	128.80	144.14		144.15	0.000211	1.43	12968.45	1400.55	0.07
DS Dam	15460	500 YR	18367.00	128.80	147.39		147.41	0.000253	1.79	17800.55	1558.60	0.07
DS Dam	14595	100 YR FEMA	11321.00	124.65	143.99		144.00	0.000150	1.40	16132.76	1705.61	0.06
DS Dam	14595	500 YR	19167.00	124.65	147.21		147.22	0.000186	1.75	22056.16	1973.80	0.07
DS Dam	14500	100 YR FEMA	11321.00	124.20	143.97		143.98	0.000209	1.63	14749.45	1775.25	0.07
DS Dam	14500	500 YR	19167.00	124.20	147.19		147.20	0.000232	1.94	20916.99	2058.31	0.08
DS Dam	14455	100 YR FEMA	11321.00	124.20	143.95		143.97	0.000258	1.81	12768.45	1466.50	0.08
DS Dam	14455	500 YR	19167.00	124.20	147.17		147.19	0.000295	2.18	17798.64	1663.59	0.09
DS Dam	14437	100 YR FEMA	11321.00	124.20	143.95		143.96	0.000258	1.81	12761.60	1466.21	0.08
DS Dam	14437	500 YR	19167.00	124.20	147.16		147.18	0.000295	2.18	17789.76	1663.26	0.09
DS Dam	14420	100 YR FEMA	11321.00	124.20	143.94	134.72	143.96	0.000243	1.76	13026.11	1466.00	0.08
DS Dam	14420	500 YR	19167.00	124.20	147.16	135.47	147.18	0.000282	2.14	18052.48	1663.00	0.09
DS Dam	14385		Bridge									
DS Dam	14350	100 YR FEMA	11321.00	124.16	143.91		143.92	0.000246	1.77	12968.94	1463.59	0.08
DS Dam	14350	500 YR	19167.00	124.16	147.12		147.14	0.000285	2.15	17990.73	1660.71	0.09
DS Dam	14330	100 YR FEMA	11321.00	124.13	143.90		143.92	0.000173	1.53	15928.02	1978.40	0.07
DS Dam	14330	500 YR	19167.00	124.13	147.12		147.14	0.000193	1.83	22945.63	2387.50	0.07
DS Dam	14250	100 YR FEMA	11321.00	124.04	143.89		143.90	0.000175	1.54	15895.40	1976.99	0.07
DS Dam	14250	500 YR	19167.00	124.04	147.11		147.12	0.000195	1.84	22903.52	2385.50	0.07
DS Dam	14205	100 YR FEMA	11321.00	123.77	143.88		143.89	0.000178	1.57	15770.32	1976.14	0.07
DS Dam	14205	500 YR	19167.00	123.77	147.10		147.11	0.000198	1.86	22772.93	2384.31	0.07
DS Dam	14025	100 YR FEMA	11321.00	123.77	143.86		143.87	0.000142	1.40	16563.15	1848.55	0.06
DS Dam	14025	500 YR	19167.00	123.77	147.07		147.08	0.000165	1.69	22825.59	2048.98	0.07
DS Dam	13165	100 YR FEMA	11321.00	122.75	143.75		143.75	0.000117	1.36	17885.89	1912.24	0.06
DS Dam	13165	500 YR	19167.00	122.75	146.93		146.94	0.000149	1.71	24639.53	2324.78	0.06
DS Dam	12400	100 YR FEMA	11321.00	121.84	143.66		143.67	0.000103	1.33	18560.49	2090.99	0.05
DS Dam	12400	500 YR	19167.00	121.84	146.82		146.83	0.000148	1.76	26539.93	3044.81	0.06
DS Dam	12220	100 YR FEMA	11321.00	121.63	143.30	134.89	143.60	0.002310	5.14	4663.65	1481.00	0.23
DS Dam	12220	500 YR	19167.00	121.63	146.61	138.17	146.76	0.001343	4.46	10217.63	1877.85	0.18
DS Dam	12205		Bridge									
DS Dam	12190	100 YR FEMA	11321.00	121.63	142.05		142.68	0.004556	6.81	2900.26	1330.47	0.32
DS Dam	12190	500 YR	19167.00	121.63	146.49		146.65	0.001412	4.56	9995.86	1863.63	0.19
DS Dam	12148	100 YR FEMA	11321.00	121.54	142.61		142.62	0.000143	1.46	17398.12	2256.56	0.06
DS Dam	12148	500 YR	19167.00	121.54	146.62		146.63	0.000123	1.56	27331.97	2697.69	0.06
DS Dam	12120	100 YR FEMA	11321.00	121.54	142.60		142.61	0.000134	1.41	17487.30	2102.31	0.06
DS Dam	12120	500 YR	19167.00	121.54	146.61		146.62	0.000124	1.57	27192.17	2697.29	0.06
DS Dam	12075	100 YR FEMA	11321.00	121.45	142.59		142.60	0.000215	1.63	15262.97	2001.33	0.07
DS Dam	12075	500 YR	19167.00	121.45	146.61		146.62	0.000182	1.71	24779.95	2673.97	0.06
DS Dam	11988	100 YR FEMA	11321.00	121.35	142.58		142.59	0.000164	1.44	16115.03	2019.07	0.06
DS Dam	11988	500 YR	19167.00	121.35	146.59		146.60	0.000146	1.56	24991.96	2403.15	0.06

HEC-RAS Plan: Prop Plan River: Green Swamp Reach: DS Dam (Continued)

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)	
DS Dam	11945	100 YR FEMA	11321.00	121.30	142.58		142.58	0.000098	1.06	20832.14	2385.11	0.04
DS Dam	11945	500 YR	19167.00	121.30	146.59		146.60	0.000088	1.15	30777.03	2568.58	0.04
DS Dam	11795	100 YR FEMA	11321.00	121.12	142.56		142.56	0.000147	1.37	17188.11	2139.67	0.06
DS Dam	11795	500 YR	19167.00	121.12	146.57		146.58	0.000127	1.46	26484.06	2487.13	0.05
DS Dam	11675	100 YR FEMA	11321.00	120.98	142.54		142.55	0.000155	1.40	17611.53	2278.72	0.06
DS Dam	11675	500 YR	19167.00	120.98	146.56		146.57	0.000126	1.43	27478.22	2634.34	0.05
DS Dam	11615	100 YR FEMA	11321.00	120.90	142.53		142.54	0.000086	1.12	21260.25	2288.61	0.04
DS Dam	11615	500 YR	19167.00	120.90	146.55		146.56	0.000093	1.31	31435.73	2843.52	0.05
DS Dam	11585	100 YR FEMA	11321.00	120.90	142.53		142.54	0.000091	1.15	19942.97	2011.68	0.05
DS Dam	11585	500 YR	19167.00	120.90	146.55		146.56	0.000096	1.33	28654.95	2318.57	0.05
DS Dam	11570	100 YR FEMA	11321.00	120.90	142.53		142.53	0.000091	1.15	19924.67	2011.56	0.05
DS Dam	11570	500 YR	19167.00	120.90	146.55		146.55	0.000096	1.33	28636.09	2318.47	0.05
DS Dam	11530	100 YR FEMA	11321.00	120.80	142.52		142.53	0.000147	1.56	16795.48	2038.35	0.06
DS Dam	11530	500 YR	19167.00	120.80	146.54		146.55	0.000136	1.70	25673.20	2407.25	0.06
DS Dam	11480	100 YR FEMA	11321.00	120.75	142.50	133.54	142.52	0.000284	1.95	14077.22	2298.50	0.08
DS Dam	11480	500 YR	19167.00	120.75	146.53	137.32	146.54	0.000192	1.85	24489.81	2872.47	0.07
DS Dam	11432		Bridge									
DS Dam	11390	100 YR FEMA	11321.00	120.75	142.44		142.46	0.000291	1.97	13946.63	2290.39	0.09
DS Dam	11390	500 YR	19167.00	120.75	146.49		146.51	0.000194	1.86	24397.09	2867.87	0.07
DS Dam	11370	100 YR FEMA	11321.00	120.60	142.42		142.46	0.000357	2.42	11494.13	2110.07	0.10
DS Dam	11370	500 YR	19167.00	120.60	146.48		146.50	0.000248	2.29	21908.89	2843.43	0.08
DS Dam	11315	100 YR FEMA	11321.00	120.55	142.44	131.02	142.45	0.000068	1.03	20932.03	1829.33	0.04
DS Dam	11315	500 YR	19167.00	120.55	146.49	131.77	146.50	0.000091	1.36	29104.62	2390.36	0.05
DS Dam	11255		Bridge									
DS Dam	11195	100 YR FEMA	11321.00	120.55	139.38		139.40	0.000249	1.73	13406.10	1731.38	0.08
DS Dam	11195	500 YR	19167.00	120.55	146.20		146.21	0.000098	1.39	25457.81	1802.46	0.05
DS Dam	10980	100 YR FEMA	11321.00	120.05	139.31		139.34	0.000329	2.16	11031.66	1298.71	0.09
DS Dam	10980	500 YR	19167.00	120.05	146.17		146.19	0.000155	1.85	20968.91	1617.84	0.07
DS Dam	10220	100 YR FEMA	11321.00	118.90	138.95		139.01	0.000593	3.01	7771.61	904.29	0.12
DS Dam	10220	500 YR	19167.00	118.90	146.00		146.04	0.000264	2.48	15822.68	1208.02	0.09
DS Dam	8575	100 YR FEMA	11321.00	116.46	138.32		138.34	0.000293	1.82	11767.00	1566.36	0.09
DS Dam	8575	500 YR	19167.00	116.46	145.75		145.76	0.000113	1.50	24746.13	2006.82	0.06
DS Dam	8410	100 YR FEMA	11321.00	116.19	136.52	131.11	138.10	0.012937	10.07	1124.21	97.78	0.52
DS Dam	8410	500 YR	19167.00	116.19	145.04	135.05	145.67	0.003895	7.05	4812.87	1256.70	0.31
DS Dam	8375		Bridge									
DS Dam	8340	100 YR FEMA	11321.00	116.22	131.14	131.14	135.55	0.050570	16.84	672.16	76.29	1.00
DS Dam	8340	500 YR	19167.00	116.22	135.08	135.08	140.88	0.047936	19.31	992.53	86.33	1.00
DS Dam	8305	100 YR FEMA	11321.00	116.06	133.51		133.57	0.001192	2.64	7416.23	1401.24	0.16
DS Dam	8305	500 YR	19167.00	116.06	136.56		136.61	0.000863	2.75	11912.06	1560.63	0.14
DS Dam	6090	100 YR FEMA	11321.00	112.76	131.34		131.40	0.000811	2.96	8554.66	1459.80	0.14
DS Dam	6090	500 YR	19167.00	112.76	135.00		135.05	0.000581	2.91	14591.42	1824.20	0.12
DS Dam	5220	100 YR FEMA	11321.00	111.46	130.79		130.81	0.000556	2.45	10947.07	1860.34	0.11
DS Dam	5220	500 YR	19167.00	111.46	134.64		134.66	0.000343	2.24	18334.46	2027.15	0.09
DS Dam	3985	100 YR FEMA	11321.00	109.63	130.30		130.32	0.000299	1.89	13198.59	2016.41	0.09
DS Dam	3985	500 YR	19167.00	109.63	134.32		134.33	0.000209	1.86	21889.29	2328.96	0.08
DS Dam	3565	100 YR FEMA	11321.00	109.00	130.17	121.86	130.19	0.000309	1.86	12847.79	1931.36	0.08
DS Dam	3565	500 YR	19167.00	109.00	134.23	125.36	134.25	0.000212	1.81	21217.82	2149.76	0.07
DS Dam	3525		Bridge									
DS Dam	3490	100 YR FEMA	11321.00	109.00	129.23		129.26	0.000565	2.42	10741.72	1887.20	0.12
DS Dam	3490	500 YR	19167.00	109.00	130.91		130.96	0.000761	3.03	13984.78	1990.33	0.14

HEC-RAS Plan: Prop Plan River: Green Swamp Reach: DS Dam (Continued)

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)	
DS Dam	2500	100 YR FEMA	11321.00	107.41	128.83	122.97	128.85	0.000316	2.02	12761.07	1814.95	0.09
DS Dam	2500	500 YR	19167.00	107.41	130.30	123.86	130.34	0.000522	2.74	15499.32	1910.80	0.11

Duplicate Effective Model

HEC-RAS Plan: 100 River: Green Swamp Reach: DS Dam

Reach	River Sta	Profile	W.S. Elev	Prof Delta WS	E.G. Elev	Top Wdth Act	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
DS Dam	18800	100 YR	140.62		140.72	894.04	2680.89	783.32	1055.79		900.00	922.00	
DS Dam	18800	FLOODWAY	140.71	0.09	140.80	896.69	2691.40	759.40	1069.20		900.00	922.00	
DS Dam	18350	100 YR	140.00		140.02	1250.04	936.15	990.18	2593.67		730.00	780.00	
DS Dam	18350	FLOODWAY	140.16	0.15	140.18	1253.91	950.80	960.31	2608.89		730.00	780.00	
DS Dam	17350	100 YR	138.64		138.70	940.32	2730.90	655.39	1133.71		845.00	873.00	
DS Dam	17350	FLOODWAY	139.05	0.41	139.10	959.89	2777.47	596.17	1146.36		845.00	873.00	
DS Dam	16350	100 YR	137.86		137.89	1063.90	3563.56	554.67	401.77		1020.00	1045.00	
DS Dam	16350	FLOODWAY	138.52	0.65	138.55	760.00	3773.76	552.45	193.79	322.00	1020.00	1045.00	1082.00
DS Dam	15445	100 YR	137.87		137.89	1019.53	3494.42	551.92	1153.65		825.00	854.00	
DS Dam	15445	FLOODWAY	138.52	0.65	138.55	750.00	3409.77	606.25	1183.98	308.00	825.00	854.00	1058.00
DS Dam	15345	100 YR	137.80		137.83	1012.68	3256.03	855.92	1088.05		825.00	865.00	
DS Dam	15345	FLOODWAY	138.45	0.65	138.48	730.00	3068.84	949.29	1181.87	340.00	825.00	865.00	1070.00
DS Dam	15295	100 YR	137.77		137.79	1009.31	3253.79	860.07	1086.14		825.00	865.00	
DS Dam	15295	FLOODWAY	138.42	0.65	138.45	730.00	3066.81	952.66	1180.54	340.00	825.00	865.00	1070.00
DS Dam	15270	100 YR	137.75		137.78	1007.61	3252.64	862.20	1085.17		825.00	865.00	
DS Dam	15270	FLOODWAY	138.40	0.65	138.43	730.00	3065.76	954.38	1179.86	340.00	825.00	865.00	1070.00
DS Dam	15255	100 YR	137.74		137.76	1006.57	3251.93	863.50	1084.57		825.00	865.00	
DS Dam	15255	FLOODWAY	138.39	0.65	138.42	730.00	3040.16	957.51	1202.33	345.00	825.00	865.00	1075.00
DS Dam	15245 BR U	100 YR	137.74		137.76	1006.11	3099.31	830.22	1270.47		825.00	865.00	
DS Dam	15245 BR U	FLOODWAY	138.39	0.65	138.42	730.00	3141.78	857.87	1200.35	345.00	825.00	865.00	1075.00
DS Dam	15245 BR D	100 YR	137.66		137.69	998.56	3084.90	838.37	1276.74		825.00	865.00	
DS Dam	15245 BR D	FLOODWAY	138.32	0.66	138.35	725.00	3112.55	855.58	1231.87	335.00	825.00	865.00	1060.00
DS Dam	15195	100 YR	137.66		137.68	998.71	3246.45	873.50	1080.05		825.00	865.00	
DS Dam	15195	FLOODWAY	138.32	0.66	138.35	725.00	3098.75	964.28	1136.98	335.00	825.00	865.00	1060.00
DS Dam	15180	100 YR	137.65		137.67	979.65	3693.72	366.19	1140.09		825.00	852.00	
DS Dam	15180	FLOODWAY	138.31	0.66	138.34	740.00	3493.45	419.89	1286.66	335.00	825.00	852.00	1075.00
DS Dam	15155	100 YR	137.63		137.65	979.06	3694.25	366.98	1138.77		825.00	852.00	
DS Dam	15155	FLOODWAY	138.29	0.66	138.31	750.00	3443.97	418.99	1337.04	340.00	825.00	852.00	1090.00
DS Dam	15105	100 YR	137.58		137.60	980.36	3693.09	365.24	1141.67		825.00	852.00	
DS Dam	15105	FLOODWAY	138.24	0.66	138.27	750.00	3418.45	419.17	1362.37	345.00	825.00	852.00	1095.00
DS Dam	15005	100 YR	137.49		137.51	983.10	3690.71	361.72	1147.58		825.00	852.00	
DS Dam	15005	FLOODWAY	138.16	0.67	138.18	750.00	3391.61	417.90	1390.49	350.00	825.00	852.00	1100.00
DS Dam	14000	100 YR	136.85		136.86	1572.85	3269.01	387.13	1543.86		795.00	820.00	
DS Dam	14000	FLOODWAY	137.28	0.44	137.31	750.00	2676.77	555.72	1967.52	508.00	795.00	820.00	1258.00
DS Dam	13210	100 YR	136.60		136.61	1653.14	3073.77	319.75	1806.48		795.00	820.00	
DS Dam	13210	FLOODWAY	136.93	0.33	136.94	920.00	3476.55	387.76	1335.69	213.00	795.00	820.00	1133.00
DS Dam	13110	100 YR	136.58		136.59	1523.48	2873.70	726.16	1600.14		1215.00	1280.00	
DS Dam	13110	FLOODWAY	136.90	0.31	136.91	775.00	3629.60	1012.12	558.29	578.00	1215.00	1280.00	1353.00
DS Dam	13060	100 YR	136.57		136.58	1522.72	2873.45	726.79	1599.76		1215.00	1280.00	
DS Dam	13060	FLOODWAY	136.88	0.31	136.89	775.00	3695.48	1020.05	484.48	568.00	1215.00	1280.00	1343.00
DS Dam	13035	100 YR	136.57		136.57	1522.33	2873.32	727.10	1599.57		1215.00	1280.00	
DS Dam	13035	FLOODWAY	136.87	0.30	136.89	775.00	3763.55	1028.16	408.30	558.00	1215.00	1280.00	1333.00
DS Dam	13020	100 YR	136.56		136.57	1226.68	3098.25	781.11	1320.64		1215.00	1280.00	
DS Dam	13020	FLOODWAY	136.86	0.30	136.88	775.00	3801.20	1029.13	369.67	553.00	1215.00	1280.00	1328.00
DS Dam	13010 BR U	100 YR	136.56		136.57	1216.69	3255.18	556.27	1388.55		1215.00	1280.00	
DS Dam	13010 BR U	FLOODWAY	136.86	0.30	136.88	765.00	4032.74	732.57	434.68	553.00	1215.00	1280.00	1328.00
DS Dam	13010 BR D	100 YR	135.29		136.48	88.56		5200.00			1200.00	1305.00	
DS Dam	13010 BR D	FLOODWAY	135.74	0.46	136.79	89.83		5200.00		563.00	1200.00	1305.00	1338.00
DS Dam	12990	100 YR	135.58		136.42	99.38		5200.00			1200.00	1305.00	
DS Dam	12990	FLOODWAY	135.99	0.41	136.73	100.52		5200.00		563.00	1200.00	1305.00	1338.00
DS Dam	12980	100 YR	136.15		136.16	1213.69	3070.62	806.78	1322.60		1215.00	1280.00	
DS Dam	12980	FLOODWAY	136.49	0.34	136.50	770.00	3696.79	1047.27	455.94	568.00	1215.00	1280.00	1338.00
DS Dam	12965	100 YR	136.14		136.16	1213.55	3070.31	807.07	1322.62		1215.00	1280.00	
DS Dam	12965	FLOODWAY	136.48	0.33	136.50	770.00	3627.94	1039.86	532.20	578.00	1215.00	1280.00	1348.00
DS Dam	12940	100 YR	136.13		136.14	1170.77	3424.43	438.20	1337.38		1236.00	1258.00	
DS Dam	12940	FLOODWAY	136.45	0.33	136.48	770.00	4051.78	536.35	611.86	579.00	1236.00	1258.00	1349.00
DS Dam	12890	100 YR	136.09		136.11	1178.14	3437.71	422.58	1339.71		1236.00	1258.00	
DS Dam	12890	FLOODWAY	136.41	0.32	136.43	765.00	3816.21	515.83	867.96	624.00	1236.00	1258.00	1389.00
DS Dam	12790	100 YR	136.06		136.06	1539.54	2739.16	243.34	2217.51		1236.00	1260.00	
DS Dam	12790	FLOODWAY	136.34	0.28	136.36	750.00	3421.74	384.75	1393.51	698.00	1236.00	1260.00	1448.00

Duplicate Effective Model

HEC-RAS Plan: 100 River: Green Swamp Reach: DS Dam (Continued)

Reach	River Sta	Profile	W.S. Elev	Prof Delta WS	E.G. Elev	Top Wdth Act	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
DS Dam	12580	100 YR	135.97		135.98	1190.94	3457.55	398.59	1343.86		1236.00	1258.00	
DS Dam	12580	FLOODWAY	136.18	0.21	136.20	750.00	3096.66	502.66	1600.68	754.00	1236.00	1258.00	1504.00
DS Dam	12480	100 YR	135.93		135.94	1206.50	3477.05	373.86	1349.09		1236.00	1258.00	
DS Dam	12480	FLOODWAY	136.11	0.19	136.14	750.00	3011.34	483.45	1705.21	774.00	1236.00	1258.00	1524.00
DS Dam	12430	100 YR	135.90		135.92	1459.04	2001.27	923.22	2275.52		1520.00	1560.00	
DS Dam	12430	FLOODWAY	136.07	0.17	136.10	750.00	2287.89	1236.47	1675.65	1085.00	1520.00	1560.00	1835.00
DS Dam	12405	100 YR	135.89		135.91	1457.57	2000.20	925.07	2274.73		1520.00	1560.00	
DS Dam	12405	FLOODWAY	136.05	0.16	136.08	750.00	2190.97	1231.73	1777.31	1105.00	1520.00	1560.00	1855.00
DS Dam	12390	100 YR	135.88		135.90	1456.68	1999.55	926.19	2274.26		1520.00	1560.00	
DS Dam	12390	FLOODWAY	136.04	0.15	136.07	750.00	2142.48	1230.03	1827.49	1115.00	1520.00	1560.00	1865.00
DS Dam	12380 BR U	100 YR	135.88		135.90	1456.65	2050.08	711.34	2438.57		1520.00	1560.00	
DS Dam	12380 BR U	FLOODWAY	136.03	0.15	136.07	750.00	2303.95	1028.45	1867.60	1115.00	1520.00	1560.00	1865.00
DS Dam	12380 BR D	100 YR	134.80		135.61			5200.00			1500.00	1590.00	
DS Dam	12380 BR D	FLOODWAY	134.80	0.00	135.61			5200.00			1500.00	1590.00	
DS Dam	12340	100 YR	134.96		135.57	89.21		5200.00			1500.00	1590.00	
DS Dam	12340	FLOODWAY	134.96	0.00	135.57	89.21		5200.00			1500.00	1590.00	
DS Dam	12140	100 YR	134.55		134.69	1285.46	2963.08	1985.68	251.24		1520.00	1560.00	
DS Dam	12140	FLOODWAY	134.55	0.00	134.69	1285.46	2963.08	1985.68	251.24		1520.00	1560.00	
DS Dam	11760	100 YR	134.21		134.24	874.00	1709.70	1305.77	2184.52		685.00	740.00	
DS Dam	11760	FLOODWAY	134.21	0.00	134.24	874.00	1709.70	1305.77	2184.52		685.00	740.00	
DS Dam	10900	100 YR	133.41		133.48	771.73	820.34	1838.39	2541.27		1148.00	1198.00	
DS Dam	10900	FLOODWAY	133.41	0.00	133.48	771.73	820.34	1838.39	2541.27		1148.00	1198.00	
DS Dam	9020	100 YR	132.04		132.05	1434.89	2672.27	1088.55	1439.18		1310.00	1400.00	
DS Dam	9020	FLOODWAY	132.04	0.00	132.05	1434.89	2672.28	1088.54	1439.18		1310.00	1400.00	
DS Dam	9010 BR U	100 YR	132.04		132.05	1431.89	2784.24	916.27	1499.48		1310.00	1400.00	
DS Dam	9010 BR U	FLOODWAY	132.04	0.00	132.05	1431.89	2784.25	916.27	1499.49		1310.00	1400.00	
DS Dam	9010 BR D	100 YR	130.18		131.90	70.82		5200.00			1280.00	1400.00	
DS Dam	9010 BR D	FLOODWAY	130.18	0.00	131.90	70.82		5200.00			1280.00	1400.00	
DS Dam	8990	100 YR	130.44		131.85	74.49		5200.00			1280.00	1400.00	
DS Dam	8990	FLOODWAY	130.44	0.00	131.85	74.49		5200.00			1280.00	1400.00	
DS Dam	8790	100 YR	131.23		131.26	1402.78	2585.18	1222.02	1392.80		1310.00	1400.00	
DS Dam	8790	FLOODWAY	131.23	0.00	131.26	1402.78	2585.19	1222.00	1392.81		1310.00	1400.00	
DS Dam	6400	100 YR	129.58		129.59	1347.57	3450.55	668.65	1080.80		1100.00	1145.00	
DS Dam	6400	FLOODWAY	129.58	0.00	129.59	1347.57	3450.58	668.62	1080.81		1100.00	1145.00	
DS Dam	5500	100 YR	129.31		129.32	2170.19	3218.46	263.72	1717.82		1300.00	1330.00	
DS Dam	5500	FLOODWAY	129.31	0.00	129.32	2170.20	3218.44	263.70	1717.86		1300.00	1330.00	
DS Dam	4000	100 YR	129.03		129.03	1817.91	3011.26	224.84	1963.90		1760.00	1785.00	
DS Dam	4000	FLOODWAY	129.03	0.00	129.03	1817.93	3011.26	224.83	1963.91		1760.00	1785.00	
DS Dam	2500	100 YR	128.83		128.83	1707.63	2446.56	224.58	2528.86		945.00	975.00	
DS Dam	2500	FLOODWAY	128.83	0.00	128.83	1707.63	2446.56	224.58	2528.86		945.00	975.00	

Corrected Effective Model

HEC-RAS Plan: Cor Eff Plan River: Green Swamp Reach: DS Dam

Reach	River Sta	Profile	W.S. Elev	Prof Delta WS	E.G. Elev	Top Wdth Act	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
DS Dam	18045	100 YR	148.72		148.72	1105.79	1394.25	318.10	2807.65		900.00	922.00	
DS Dam	18045	Floodway	148.72	0.00	148.72	1105.79	1394.25	318.10	2807.65		900.00	922.00	
DS Dam	17865	100 YR	148.71		148.71	1217.55	2862.93	268.44	1388.63		898.00	924.00	
DS Dam	17865	Floodway	148.71	0.00	148.71	1217.55	2862.93	268.44	1388.63		898.00	924.00	
DS Dam	17805		Culvert										
DS Dam	17765	100 YR	140.63		140.74	894.30	2550.94	987.50	981.57		898.00	924.00	
DS Dam	17765	Floodway	140.78	0.15	140.88	898.80	2571.93	939.20	1008.87		898.00	924.00	
DS Dam	17350	100 YR	140.06		140.08	1254.18	1814.64	1032.38	1672.99		730.00	780.00	
DS Dam	17350	Floodway	140.30	0.24	140.32	1263.29	1818.95	985.38	1715.67		730.00	780.00	
DS Dam	16375	100 YR	139.17		139.20	1099.00	2543.82	428.83	1547.35		845.00	873.00	
DS Dam	16375	Floodway	139.60	0.43	139.62	1128.58	2592.01	404.76	1523.23		845.00	873.00	
DS Dam	15460	100 YR	138.60		138.61	1150.53	3500.30	338.29	681.40		1020.00	1045.00	
DS Dam	15460	Floodway	139.04	0.44	139.06	760.00	3951.11	397.46	171.43	322.00	1020.00	1045.00	1082.00
DS Dam	14595	100 YR	138.28		138.29	1394.74	2708.49	704.91	1786.60		821.00	860.00	
DS Dam	14595	Floodway	138.65	0.37	138.67	750.00	3158.24	818.27	1223.49	308.00	821.00	860.00	1058.00
DS Dam	14500	100 YR	138.24		138.26	1147.72	2449.65	715.58	2034.77		825.00	865.00	
DS Dam	14500	Floodway	138.60	0.36	138.62	730.00	3033.70	868.98	1297.33	340.00	825.00	865.00	1070.00
DS Dam	14455	100 YR	138.21		138.23	1052.38	3335.83	847.61	1016.56		825.00	865.00	
DS Dam	14455	Floodway	138.57	0.36	138.60	730.00	3079.20	939.22	1181.58	340.00	825.00	865.00	1070.00
DS Dam	14437	100 YR	138.20		138.22	1051.35	3334.57	848.54	1016.89		825.00	865.00	
DS Dam	14437	Floodway	138.56	0.36	138.59	730.00	3078.55	940.31	1181.14	340.00	825.00	865.00	1070.00
DS Dam	14420	100 YR	138.20		138.21	1083.14	3361.11	813.77	1025.11		825.00	865.00	
DS Dam	14420	Floodway	138.55	0.35	138.58	730.00	3075.75	908.08	1216.17	345.00	825.00	865.00	1075.00
DS Dam	14385 BR U	100 YR	138.13		138.21	1008.97	3338.65	1201.79	659.56		825.00	865.00	
DS Dam	14385 BR U	Floodway	138.49	0.36	138.57	730.00	3390.85	1202.78	606.37	345.00	825.00	865.00	1075.00
DS Dam	14385 BR D	100 YR	137.96		138.07	952.86	3471.37	1349.00	379.63		825.00	865.00	
DS Dam	14385 BR D	Floodway	138.36	0.40	138.45	725.00	3468.74	1272.71	458.55	335.00	825.00	865.00	1060.00
DS Dam	14350	100 YR	137.96		137.98	1064.66	3343.29	836.06	1020.64		825.00	865.00	
DS Dam	14350	Floodway	138.34	0.38	138.37	725.00	3127.99	927.09	1144.92	335.00	825.00	865.00	1060.00
DS Dam	14330	100 YR	137.95		137.97	1266.68	2758.12	1291.84	1150.04		796.00	870.00	
DS Dam	14330	Floodway	138.33	0.38	138.36	740.00	2592.56	1527.91	1079.53	335.00	796.00	870.00	1075.00
DS Dam	14250	100 YR	137.92		137.94	1263.61	2494.38	1308.43	1397.19		796.00	870.00	
DS Dam	14250	Floodway	138.29	0.37	138.32	750.00	2539.79	1525.25	1134.97	340.00	796.00	870.00	1090.00
DS Dam	14205	100 YR	137.90		137.92	1261.70	2379.23	1402.67	1418.10		795.00	871.00	
DS Dam	14205	Floodway	138.27	0.36	138.29	750.00	2370.38	1644.23	1185.40	345.00	795.00	871.00	1095.00
DS Dam	14025	100 YR	137.84		137.85	1380.83	2125.24	1227.65	1847.11		795.00	871.00	
DS Dam	14025	Floodway	138.17	0.33	138.20	750.00	2395.51	1630.53	1173.97	350.00	795.00	871.00	1100.00
DS Dam	13165	100 YR	137.62		137.63	1371.93	2073.49	859.28	2267.23		783.00	832.00	
DS Dam	13165	Floodway	137.79	0.17	137.82	750.00	1901.97	1187.61	2110.42	508.00	783.00	832.00	1258.00
DS Dam	12400	100 YR	137.48		137.48	1260.75	3582.48	798.46	819.07		785.00	830.00	
DS Dam	12400	Floodway	137.59	0.12	137.61	920.00	3310.50	894.81	994.69	213.00	785.00	830.00	1133.00
DS Dam	12220	100 YR	136.88		137.37	102.19		5200.00			1200.00	1305.00	
DS Dam	12220	Floodway	137.00	0.12	137.48	102.41		5200.00		553.00	1200.00	1305.00	1328.00
DS Dam	12205 BR U	100 YR	136.65		137.34	91.75		5200.00			1200.00	1305.00	
DS Dam	12205 BR U	Floodway	136.78	0.13	137.45	91.99		5200.00		553.00	1200.00	1305.00	1328.00
DS Dam	12205 BR D	100 YR	136.27		137.03	91.06		5200.00			1200.00	1305.00	
DS Dam	12205 BR D	Floodway	136.42	0.15	137.16	91.34		5200.00		563.00	1200.00	1305.00	1338.00
DS Dam	12190	100 YR	136.46		137.00	101.41		5200.00			1200.00	1305.00	
DS Dam	12190	Floodway	136.60	0.14	137.12	101.67		5200.00		563.00	1200.00	1305.00	1338.00
DS Dam	12148	100 YR	136.93		136.94	1238.16	2857.16	1193.83	1149.02		1200.00	1283.00	
DS Dam	12148	Floodway	137.03	0.11	137.05	770.00	3318.31	1508.24	373.45	568.00	1200.00	1283.00	1338.00
DS Dam	12120	100 YR	136.92		136.93	1334.91	2801.83	1171.29	1226.88		1200.00	1283.00	
DS Dam	12120	Floodway	137.03	0.11	137.04	770.00	3258.95	1499.78	441.28	578.00	1200.00	1283.00	1348.00
DS Dam	12075	100 YR	136.90		136.92	1305.10	3215.04	655.66	1329.31		1232.00	1263.00	
DS Dam	12075	Floodway	137.00	0.10	137.03	770.00	3826.91	831.32	541.77	579.00	1232.00	1263.00	1349.00
DS Dam	11988	100 YR	136.88		136.89	1269.16	3580.66	541.56	1077.78		1232.00	1263.00	
DS Dam	11988	Floodway	136.96	0.08	136.98	765.00	3728.26	711.62	760.11	624.00	1232.00	1263.00	1389.00
DS Dam	11945	100 YR	136.87		136.88	1639.54	3002.86	278.00	1919.14		1241.00	1264.00	
DS Dam	11945	Floodway	136.94	0.07	136.96	750.00	3528.70	445.43	1225.87	698.00	1241.00	1264.00	1448.00

Corrected Effective Model

HEC-RAS Plan: Cor Eff Plan River: Green Swamp Reach: DS Dam (Continued)

Reach	River Sta	Profile	W.S. Elev	Prof Delta WS	E.G. Elev	Top Wdth Act	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
DS Dam	11795	100 YR	136.84		136.85	1339.82	3524.13	529.35	1146.52		1233.00	1263.00	
DS Dam	11795	Floodway	136.87	0.04	136.89	750.00	3058.04	702.03	1439.94	754.00	1233.00	1263.00	1504.00
DS Dam	11675	100 YR	136.81		136.82	1308.29	3430.46	480.08	1289.47		1233.00	1260.00	
DS Dam	11675	Floodway	136.82	0.01	136.84	750.00	2922.60	623.51	1653.89	774.00	1233.00	1260.00	1524.00
DS Dam	11615	100 YR	136.80		136.81	1732.33	2789.62	759.93	1650.45		1519.00	1561.00	
DS Dam	11615	Floodway	136.79	0.00	136.82	785.00	2506.76	1194.52	1498.72	1050.00	1519.00	1561.00	1835.00
DS Dam	11585	100 YR	136.79		136.80	1713.23	2951.69	805.81	1442.50		1519.00	1561.00	
DS Dam	11585	Floodway	136.79	0.00	136.81	865.00	2381.08	1072.48	1746.44	1025.00	1519.00	1561.00	1890.00
DS Dam	11570	100 YR	136.79		136.80	1717.84	2939.73	810.44	1449.84		1519.00	1561.00	
DS Dam	11570	Floodway	136.79	0.00	136.80	915.00	2473.54	1017.89	1708.57	985.00	1519.00	1561.00	1900.00
DS Dam	11530	100 YR	136.76		136.79	1278.82	518.74	1578.22	3103.04		1515.00	1575.00	
DS Dam	11530	Floodway	136.76	0.00	136.79	1278.82	518.74	1578.22	3103.04		1515.00	1575.00	
DS Dam	11480	100 YR	136.57		136.74	1453.40	836.18	3777.23	586.59		1500.00	1590.00	
DS Dam	11480	Floodway	136.57	0.00	136.74	1453.40	836.18	3777.23	586.59		1500.00	1590.00	
DS Dam	11432 BR U	100 YR	136.43		136.73	1364.66	549.20	3836.91	813.89		1500.00	1590.00	
DS Dam	11432 BR U	Floodway	136.43	0.00	136.73	1364.66	549.20	3836.91	813.89		1500.00	1590.00	
DS Dam	11432 BR D	100 YR	134.58		135.50	8.38	0.04	5199.96			1500.00	1590.00	
DS Dam	11432 BR D	Floodway	134.58	0.00	135.50	8.38	0.04	5199.96			1500.00	1590.00	
DS Dam	11390	100 YR	134.08		134.83	88.46		5200.00			1500.00	1590.00	
DS Dam	11390	Floodway	134.08	0.00	134.83	88.46		5200.00			1500.00	1590.00	
DS Dam	11370	100 YR	134.62		134.72	701.98	1814.74	2690.25	695.01		1493.00	1562.00	
DS Dam	11370	Floodway	134.62	0.00	134.72	701.98	1814.74	2690.25	695.01		1493.00	1562.00	
DS Dam	11315	100 YR	134.67		134.69	1491.92	4143.44	982.96	73.60		1499.00	1560.00	
DS Dam	11315	Floodway	134.67	0.00	134.69	1491.92	4143.44	982.96	73.60		1499.00	1560.00	
DS Dam	11195	100 YR	134.62		134.64	1316.47	4164.79	992.66	42.54		1505.00	1555.00	
DS Dam	11195	Floodway	134.62	0.00	134.64	1316.47	4164.79	992.66	42.54		1505.00	1555.00	
DS Dam	10980	100 YR	134.52		134.54	1016.90	1562.86	1555.34	2081.81		680.00	743.00	
DS Dam	10980	Floodway	134.52	0.00	134.54	1016.90	1562.86	1555.34	2081.81		680.00	743.00	
DS Dam	10220	100 YR	134.09		134.14	712.89	1695.89	2095.81	1408.30		1143.00	1200.00	
DS Dam	10220	Floodway	134.09	0.00	134.14	712.89	1695.89	2095.81	1408.30		1143.00	1200.00	
DS Dam	8575	100 YR	132.88		132.92	1068.10	610.43	2614.71	1974.86		1278.00	1414.00	
DS Dam	8575	Floodway	132.88	0.00	132.92	1068.10	610.43	2614.71	1974.86		1278.00	1414.00	
DS Dam	8410	100 YR	131.74		132.56	77.81		5200.00			1271.00	1406.00	
DS Dam	8410	Floodway	131.74	0.00	132.56	77.81		5200.00			1271.00	1406.00	
DS Dam	8375 BR U	100 YR	131.54		132.51	74.29		5200.00			1271.00	1406.00	
DS Dam	8375 BR U	Floodway	131.54	0.00	132.51	74.29		5200.00			1271.00	1406.00	
DS Dam	8375 BR D	100 YR	130.88		132.01	72.61		5200.00			1271.00	1406.00	
DS Dam	8375 BR D	Floodway	130.88	0.00	132.01	72.61		5200.00			1271.00	1406.00	
DS Dam	8340	100 YR	130.08		131.28	73.58		5200.00			1271.00	1406.00	
DS Dam	8340	Floodway	130.08	0.00	131.28	73.58		5200.00			1271.00	1406.00	
DS Dam	8305	100 YR	131.02		131.07	1294.95	1952.92	2574.59	672.49		1276.00	1463.00	
DS Dam	8305	Floodway	131.02	0.00	131.07	1294.95	1952.92	2574.59	672.49		1276.00	1463.00	
DS Dam	6090	100 YR	128.95		128.99	1357.08	1976.57	2133.62	1089.82		1078.00	1152.00	
DS Dam	6090	Floodway	128.95	0.00	128.99	1357.08	1976.57	2133.62	1089.82		1078.00	1152.00	
DS Dam	5220	100 YR	128.47		128.49	1809.02	2390.50	1426.98	1382.52		1289.00	1341.00	
DS Dam	5220	Floodway	128.47	0.00	128.49	1809.02	2390.50	1426.98	1382.52		1289.00	1341.00	
DS Dam	3985	100 YR	128.12		128.13	1889.98	2316.23	1843.00	1040.77		1730.00	1840.00	
DS Dam	3985	Floodway	128.12	0.00	128.13	1889.98	2316.23	1843.00	1040.77		1730.00	1840.00	
DS Dam	3565	100 YR	128.04		128.06	1839.79	1022.45	1914.53	2263.02		882.00	997.00	
DS Dam	3565	Floodway	128.04	0.00	128.06	1839.79	1022.45	1914.53	2263.02		882.00	997.00	
DS Dam	3490	100 YR	128.03		128.04	1839.15	1253.89	1443.84	2502.27		901.00	980.00	
DS Dam	3490	Floodway	128.03	0.00	128.04	1839.15	1253.89	1443.84	2502.27		901.00	980.00	
DS Dam	2500	100 YR	127.89		127.90	1758.25	1927.19	1153.03	2119.78		927.00	993.00	
DS Dam	2500	Floodway	127.89	0.00	127.90	1758.25	1927.19	1153.03	2119.78		927.00	993.00	

Existing Model

HEC-RAS Plan: EX PLAN River: Green Swamp Reach: DS Dam

Reach	River Sta	Profile	W.S. Elev	Prof Delta WS	E.G. Elev	Top Wdth Act	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
DS Dam	18045	100 YR	149.10		149.13	1156.42	3324.31	745.85	6621.84		900.00	922.00	
DS Dam	18045	Floodway	149.18	0.08	149.21	1167.06	3330.55	744.31	6617.14		900.00	922.00	
DS Dam	17865	100 YR	149.04		149.06	1231.28	4987.22	2811.37	2893.41		802.00	924.00	
DS Dam	17865	Floodway	149.13	0.08	149.14	1234.60	4994.05	2803.14	2894.81		802.00	924.00	
DS Dam	17835		Inl Struct										
DS Dam	17765	100 YR	144.55		144.60	1020.00	3066.82	4311.68	1762.50		801.00	924.00	
DS Dam	17765	Floodway	145.12	0.58	145.17	1054.84	3147.00	4148.81	1845.19		801.00	924.00	
DS Dam	17350	100 YR	144.40		144.42	1452.10	3988.57	1313.89	4517.54		730.00	780.00	
DS Dam	17350	Floodway	145.00	0.61	145.02	1481.22	3989.41	1254.78	4575.82		730.00	780.00	
DS Dam	16375	100 YR	144.04		144.06	1529.61	6158.33	606.88	3054.79		845.00	873.00	
DS Dam	16375	Floodway	144.73	0.69	144.74	1555.80	6138.98	576.50	3104.52		845.00	873.00	
DS Dam	15460	100 YR	143.80		143.81	1385.71	7747.57	496.52	1575.91		1020.00	1045.00	
DS Dam	15460	Floodway	144.46	0.66	144.48	760.00	8794.35	653.38	372.28	322.00	1020.00	1045.00	1082.00
DS Dam	14595	100 YR	143.66		143.67	1695.70	5331.18	878.50	4290.32		821.00	860.00	
DS Dam	14595	Floodway	144.21	0.56	144.23	750.00	6706.12	1245.11	2548.77	308.00	821.00	860.00	1058.00
DS Dam	14500	100 YR	143.64		143.65	1747.24	5356.96	999.42	4143.62		825.00	865.00	
DS Dam	14500	Floodway	144.18	0.55	144.21	730.00	6480.12	1308.26	2711.62	340.00	825.00	865.00	1070.00
DS Dam	14455	100 YR	143.62		143.64	1446.37	6696.17	1105.33	2698.50		825.00	865.00	
DS Dam	14455	Floodway	144.17	0.54	144.19	730.00	6540.49	1364.20	2595.31	340.00	825.00	865.00	1070.00
DS Dam	14437	100 YR	143.62		143.63	1446.09	6696.44	1105.62	2697.95		825.00	865.00	
DS Dam	14437	Floodway	144.16	0.54	144.19	730.00	6540.31	1364.49	2595.21	340.00	825.00	865.00	1070.00
DS Dam	14420	100 YR	143.62		143.63	1445.89	6666.92	1077.09	2755.99		825.00	865.00	
DS Dam	14420	Floodway	144.16	0.54	144.18	730.00	6497.06	1340.53	2662.41	345.00	825.00	865.00	1075.00
DS Dam	14385 BR U	100 YR	143.61		143.63	1445.42	7085.03	817.69	2597.28		825.00	865.00	
DS Dam	14385 BR U	Floodway	144.14	0.53	144.18	730.00	7559.55	1101.41	1839.03	345.00	825.00	865.00	1075.00
DS Dam	14385 BR D	100 YR	143.59		143.62	1444.52	7250.03	851.10	2398.88		825.00	865.00	
DS Dam	14385 BR D	Floodway	144.11	0.52	144.16	725.00	7760.68	1133.71	1605.61	335.00	825.00	865.00	1060.00
DS Dam	14350	100 YR	143.58		143.60	1443.77	6668.57	1079.58	2751.86		825.00	865.00	
DS Dam	14350	Floodway	144.10	0.52	144.13	725.00	6653.20	1347.70	2499.10	335.00	825.00	865.00	1060.00
DS Dam	14330	100 YR	143.58		143.59	1945.86	5802.58	1739.09	2958.33		796.00	870.00	
DS Dam	14330	Floodway	144.10	0.52	144.12	740.00	5734.93	2336.16	2428.91	335.00	796.00	870.00	1075.00
DS Dam	14250	100 YR	143.57		143.58	1944.51	5308.07	1755.92	3436.01		796.00	870.00	
DS Dam	14250	Floodway	144.08	0.51	144.10	750.00	5611.12	2319.14	2569.74	340.00	796.00	870.00	1090.00
DS Dam	14205	100 YR	143.56		143.57	1943.70	5200.63	1845.05	3454.32		795.00	871.00	
DS Dam	14205	Floodway	144.06	0.50	144.09	750.00	5392.25	2450.75	2657.01	345.00	795.00	871.00	1095.00
DS Dam	14025	100 YR	143.53		143.54	1818.65	4777.72	1633.16	4089.12		795.00	871.00	
DS Dam	14025	Floodway	144.01	0.48	144.04	750.00	5393.76	2430.77	2675.48	350.00	795.00	871.00	1100.00
DS Dam	13165	100 YR	143.43		143.44	1867.83	4214.01	1166.02	5119.96		783.00	832.00	
DS Dam	13165	Floodway	143.81	0.38	143.83	750.00	3799.92	1728.16	4971.92	508.00	783.00	832.00	1258.00
DS Dam	12400	100 YR	143.35		143.36	2069.91	7336.54	1120.08	2043.38		785.00	830.00	
DS Dam	12400	Floodway	143.69	0.34	143.70	920.00	6606.43	1314.78	2578.80	213.00	785.00	830.00	1133.00
DS Dam	12220	100 YR	142.98		143.29	1442.32	1240.34	8017.58	1242.08		1200.00	1305.00	
DS Dam	12220	Floodway	143.22	0.24	143.62	775.00	1621.65	8789.30	89.06	553.00	1200.00	1305.00	1328.00
DS Dam	12205 BR U	100 YR	142.98		143.28	1411.31	2018.32	6439.57	2042.10		1200.00	1305.00	
DS Dam	12205 BR U	Floodway	143.12	0.15	143.60	775.00	2748.65	7578.59	172.77	553.00	1200.00	1305.00	1328.00
DS Dam	12205 BR D	100 YR	140.56		142.50			10500.00			1200.00	1305.00	
DS Dam	12205 BR D	Floodway	140.66	0.10	142.59	86.36		10499.77	0.23	610.00	1200.00	1305.00	1338.00
DS Dam	12190	100 YR	141.71		142.37	1290.67	387.01	9703.14	409.85		1200.00	1305.00	
DS Dam	12190	Floodway	141.74	0.03	142.47	728.00	425.73	10013.17	61.10	610.00	1200.00	1305.00	1338.00
DS Dam	12148	100 YR	142.30		142.31	2222.45	6139.15	1969.41	2391.44		1200.00	1283.00	
DS Dam	12148	Floodway	142.36	0.07	142.38	770.00	7357.11	2457.53	685.37	568.00	1200.00	1283.00	1338.00
DS Dam	12120	100 YR	142.29		142.30	2049.64	5897.87	1892.37	2709.76		1200.00	1283.00	
DS Dam	12120	Floodway	142.36	0.07	142.38	770.00	7230.59	2449.12	820.29	578.00	1200.00	1283.00	1348.00
DS Dam	12075	100 YR	142.28		142.29	1922.45	6673.43	836.34	2990.24		1232.00	1263.00	
DS Dam	12075	Floodway	142.34	0.06	142.37	770.00	8304.71	1116.11	1079.19	579.00	1232.00	1263.00	1349.00
DS Dam	11988	100 YR	142.27		142.28	1989.15	7749.33	761.31	1989.36		1232.00	1263.00	
DS Dam	11988	Floodway	142.32	0.05	142.34	765.00	7897.07	1032.89	1570.04	624.00	1232.00	1263.00	1389.00
DS Dam	11945	100 YR	142.27		142.27	2370.61	6235.61	398.07	3866.33		1241.00	1264.00	
DS Dam	11945	Floodway	142.31	0.04	142.33	750.00	7340.47	684.96	2474.57	698.00	1241.00	1264.00	1448.00

Existing Model

HEC-RAS Plan: EX PLAN River: Green Swamp Reach: DS Dam (Continued)

Reach	River Sta	Profile	W.S. Elev	Prof Delta WS	E.G. Elev	Top Wdth Act	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
DS Dam	11795	100 YR	142.25		142.26	2112.45	7653.13	711.90	2134.97		1233.00	1263.00	
DS Dam	11795	Floodway	142.26	0.01	142.28	750.00	6404.97	1019.12	3075.91	754.00	1233.00	1263.00	1504.00
DS Dam	11675	100 YR	142.23		142.24	2252.64	7287.40	669.51	2543.09		1233.00	1260.00	
DS Dam	11675	Floodway	142.23	0.00	142.25	750.00	6125.79	907.14	3467.08	774.00	1233.00	1260.00	1524.00
DS Dam	11615	100 YR	142.23		142.23	2264.69	5521.50	908.76	4069.75		1519.00	1561.00	
DS Dam	11615	Floodway	142.22	0.00	142.24	975.00	5374.28	1328.38	3797.34	975.00	1519.00	1561.00	1950.00
DS Dam	11585	100 YR	142.22		142.23	1987.01	5720.66	929.43	3849.91		1519.00	1561.00	
DS Dam	11585	Floodway	142.22	0.00	142.23	1035.00	5246.83	1259.99	3993.18	960.00	1519.00	1561.00	1995.00
DS Dam	11570	100 YR	142.22		142.23	1986.90	5714.30	930.74	3854.95		1519.00	1561.00	
DS Dam	11570	Floodway	142.22	0.00	142.23	1085.00	5271.77	1218.26	4009.97	940.00	1519.00	1561.00	2025.00
DS Dam	11530	100 YR	142.21		142.22	2016.33	2857.66	1727.80	5914.54		1515.00	1575.00	
DS Dam	11530	Floodway	142.21	0.00	142.22	2016.33	2857.66	1727.80	5914.54		1515.00	1575.00	
DS Dam	11480	100 YR	142.19		142.21	2254.94	3940.09	2824.34	3735.57		1500.00	1590.00	
DS Dam	11480	Floodway	142.19	0.00	142.21	2254.94	3940.09	2824.34	3735.57		1500.00	1590.00	
DS Dam	11432 BR U	100 YR	142.20		142.21	2233.19	3159.46	1775.78	5564.77		1500.00	1590.00	
DS Dam	11432 BR U	Floodway	142.20	0.00	142.21	2233.19	3159.46	1775.78	5564.77		1500.00	1590.00	
DS Dam	11432 BR D	100 YR	142.16		142.18	2227.75	3157.43	1784.52	5558.06		1500.00	1590.00	
DS Dam	11432 BR D	Floodway	142.16	0.00	142.18	2227.75	3157.43	1784.52	5558.06		1500.00	1590.00	
DS Dam	11390	100 YR	142.14		142.16	2246.85	3932.69	2842.92	3724.38		1500.00	1590.00	
DS Dam	11390	Floodway	142.14	0.00	142.16	2246.85	3932.69	2842.92	3724.38		1500.00	1590.00	
DS Dam	11370	100 YR	142.12		142.15	2021.24	5942.27	3055.02	1502.72		1493.00	1562.00	
DS Dam	11370	Floodway	142.12	0.00	142.15	2021.24	5942.27	3055.02	1502.72		1493.00	1562.00	
DS Dam	11315	100 YR	142.14		142.14	1822.37	8753.97	1097.74	648.29		1499.00	1560.00	
DS Dam	11315	Floodway	142.14	0.00	142.14	1822.37	8753.97	1097.74	648.29		1499.00	1560.00	
DS Dam	11255 BR U	100 YR	141.72		142.11	1088.10	3511.26	5787.35	1201.39		1499.00	1560.00	
DS Dam	11255 BR U	Floodway	141.72	0.00	142.11	1088.10	3511.26	5787.35	1201.39		1499.00	1560.00	
DS Dam	11255 BR D	100 YR	135.33		139.20	101.43	722.00	9062.99	715.01		1505.00	1555.00	
DS Dam	11255 BR D	Floodway	135.33	0.00	139.20	101.43	722.00	9062.99	715.01		1505.00	1555.00	
DS Dam	11195	100 YR	138.74		138.76	1710.76	9077.83	1310.07	112.10		1505.00	1555.00	
DS Dam	11195	Floodway	138.74	0.00	138.76	1710.76	9077.83	1310.07	112.10		1505.00	1555.00	
DS Dam	10980	100 YR	138.67		138.69	1229.86	3854.73	2226.46	4418.81		680.00	743.00	
DS Dam	10980	Floodway	138.67	0.00	138.69	1229.86	3854.73	2226.46	4418.81		680.00	743.00	
DS Dam	10220	100 YR	138.31		138.36	805.76	3921.49	3015.63	3562.88		1143.00	1200.00	
DS Dam	10220	Floodway	138.31	0.00	138.36	805.76	3921.49	3015.63	3562.88		1143.00	1200.00	
DS Dam	8575	100 YR	137.63		137.66	1536.85	3096.28	3399.47	4004.25		1278.00	1414.00	
DS Dam	8575	Floodway	137.63	0.00	137.66	1536.85	3096.28	3399.47	4004.25		1278.00	1414.00	
DS Dam	8410	100 YR	135.90		137.41	91.45		10500.00			1271.00	1406.00	
DS Dam	8410	Floodway	135.90	0.00	137.41	91.45		10500.00			1271.00	1406.00	
DS Dam	8375 BR U	100 YR	135.54		137.34	84.84		10500.00			1271.00	1406.00	
DS Dam	8375 BR U	Floodway	135.54	0.00	137.34	84.84		10500.00			1271.00	1406.00	
DS Dam	8375 BR D	100 YR	134.42		136.62	81.64		10500.00			1271.00	1406.00	
DS Dam	8375 BR D	Floodway	134.42	0.00	136.62	81.64		10500.00			1271.00	1406.00	
DS Dam	8340	100 YR	130.66		134.90	75.05		10500.00			1271.00	1406.00	
DS Dam	8340	Floodway	130.66	0.00	134.90	75.05		10500.00			1271.00	1406.00	
DS Dam	8305	100 YR	133.16		133.22	1385.83	4765.71	4014.98	1719.32		1276.00	1463.00	
DS Dam	8305	Floodway	133.16	0.00	133.22	1385.83	4765.71	4014.98	1719.32		1276.00	1463.00	
DS Dam	6090	100 YR	130.81		130.86	1435.09	4836.33	3169.08	2494.59		1078.00	1152.00	
DS Dam	6090	Floodway	130.81	0.00	130.86	1435.09	4836.33	3169.08	2494.59		1078.00	1152.00	
DS Dam	5220	100 YR	130.15		130.18	1847.95	5378.70	2027.38	3093.92		1289.00	1341.00	
DS Dam	5220	Floodway	130.15	0.00	130.18	1847.95	5378.70	2027.38	3093.92		1289.00	1341.00	
DS Dam	3985	100 YR	129.56		129.58	1971.95	5233.10	3070.79	2196.11		1730.00	1840.00	
DS Dam	3985	Floodway	129.56	0.00	129.58	1971.95	5233.10	3070.79	2196.11		1730.00	1840.00	
DS Dam	3565	100 YR	129.41		129.43	1894.24	2340.17	3215.84	4943.99		882.00	997.00	
DS Dam	3565	Floodway	129.41	0.00	129.43	1894.24	2340.17	3215.84	4943.99		882.00	997.00	
DS Dam	3525 BR U	100 YR	128.53		129.35	116.74	108.19	10381.95	9.86		882.00	997.00	
DS Dam	3525 BR U	Floodway	128.53	0.00	129.35	116.74	108.19	10381.95	9.86		882.00	997.00	
DS Dam	3525 BR D	100 YR	126.56		128.70	114.35	391.11	9803.59	305.31		901.00	980.00	
DS Dam	3525 BR D	Floodway	126.56	0.00	128.70	114.35	391.11	9803.59	305.31		901.00	980.00	
DS Dam	3490	100 YR	128.41		128.45	1854.48	2605.30	2734.54	5160.16		901.00	980.00	
DS Dam	3490	Floodway	128.41	0.00	128.45	1854.48	2605.30	2734.54	5160.16		901.00	980.00	

Existing Model

HEC-RAS Plan: EX PLAN River: Green Swamp Reach: DS Dam (Continued)

Reach	River Sta	Profile	W.S. Elev	Prof Delta WS	E.G. Elev	Top Wdth Act	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
DS Dam	2500	100 YR	127.89		127.91	1758.25	3891.44	2328.23	4280.32		927.00	993.00	
DS Dam	2500	Floodway	127.89	0.00	127.91	1758.25	3891.44	2328.23	4280.32		927.00	993.00	

Proposed Model

HEC-RAS Plan: Prop Plan River: Green Swamp Reach: DS Dam

Reach	River Sta	Profile	W.S. Elev	Prof Delta WS	E.G. Elev	Top Wdth Act	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
DS Dam	18045	100 YR	147.79		147.82	982.63	3267.20	762.03	6665.78		900.00	922.00	
DS Dam	18045	Floodway	147.90	0.11	147.94	997.81	3268.06	761.50	6665.44		900.00	922.00	
DS Dam	17865	100 YR	147.70		147.72	1176.69	4868.85	2962.72	2863.43		802.00	924.00	
DS Dam	17865	Floodway	147.81	0.12	147.84	1181.48	4880.00	2948.20	2866.81		802.00	924.00	
DS Dam	17835		Inl Struct										
DS Dam	17765	100 YR	144.89		144.95	1041.12	3262.95	4410.25	1899.80		801.00	924.00	
DS Dam	17765	Floodway	145.53	0.63	145.57	1079.42	3353.59	4233.13	1986.28		801.00	924.00	
DS Dam	17350	100 YR	144.75		144.76	1468.82	4322.02	1385.92	4933.07		730.00	780.00	
DS Dam	17350	Floodway	145.41	0.67	145.43	1500.76	4325.88	1321.16	4993.96		730.00	780.00	
DS Dam	16375	100 YR	144.38		144.40	1542.58	6662.83	640.58	3337.60		845.00	873.00	
DS Dam	16375	Floodway	145.14	0.75	145.15	1571.22	6639.83	607.81	3393.36		845.00	873.00	
DS Dam	15460	100 YR	144.13		144.14	1400.30	8379.53	529.55	1731.92		1020.00	1045.00	
DS Dam	15460	Floodway	144.85	0.72	144.88	760.00	9538.64	699.89	402.48	322.00	1020.00	1045.00	1082.00
DS Dam	14595	100 YR	143.98		143.99	1705.46	5726.35	927.61	4667.04		821.00	860.00	
DS Dam	14595	Floodway	144.60	0.62	144.62	750.00	7243.88	1326.83	2750.29	308.00	821.00	860.00	1058.00
DS Dam	14500	100 YR	143.96		143.97	1774.84	5783.21	1054.92	4482.88		825.00	865.00	
DS Dam	14500	Floodway	144.57	0.60	144.59	730.00	7000.59	1394.16	2926.25	340.00	825.00	865.00	1070.00
DS Dam	14455	100 YR	143.95		143.96	1466.20	7199.08	1169.72	2952.21		825.00	865.00	
DS Dam	14455	Floodway	144.55	0.60	144.58	730.00	7063.80	1451.96	2805.25	340.00	825.00	865.00	1070.00
DS Dam	14437	100 YR	143.94		143.96	1465.92	7199.37	1170.03	2951.60		825.00	865.00	
DS Dam	14437	Floodway	144.54	0.60	144.57	730.00	7063.60	1452.26	2805.13	340.00	825.00	865.00	1070.00
DS Dam	14420	100 YR	143.94		143.95	1465.70	7168.83	1141.05	3011.11		825.00	865.00	
DS Dam	14420	Floodway	144.54	0.60	144.57	730.00	7015.72	1427.68	2877.60	345.00	825.00	865.00	1075.00
DS Dam	14385 BR U	100 YR	143.93		143.95	1465.23	7621.22	850.82	2848.95		825.00	865.00	
DS Dam	14385 BR U	Floodway	144.52	0.59	144.56	730.00	8165.35	1156.64	1999.02	345.00	825.00	865.00	1075.00
DS Dam	14385 BR D	100 YR	143.92		143.94	1464.32	7791.27	884.10	2645.62		825.00	865.00	
DS Dam	14385 BR D	Floodway	144.49	0.58	144.54	725.00	8383.88	1189.56	1747.57	335.00	825.00	865.00	1060.00
DS Dam	14350	100 YR	143.90		143.92	1463.54	7170.62	1143.65	3006.74		825.00	865.00	
DS Dam	14350	Floodway	144.48	0.58	144.51	725.00	7185.33	1435.39	2700.28	335.00	825.00	865.00	1060.00
DS Dam	14330	100 YR	143.90		143.92	1978.31	6243.62	1836.54	3240.84		796.00	870.00	
DS Dam	14330	Floodway	144.48	0.57	144.50	740.00	6201.49	2492.35	2627.15	335.00	796.00	870.00	1075.00
DS Dam	14250	100 YR	143.89		143.90	1976.90	5714.86	1853.91	3752.24		796.00	870.00	
DS Dam	14250	Floodway	144.45	0.57	144.48	750.00	6067.11	2473.87	2780.02	340.00	796.00	870.00	1090.00
DS Dam	14205	100 YR	143.88		143.89	1976.05	5603.03	1946.82	3771.15		795.00	871.00	
DS Dam	14205	Floodway	144.44	0.56	144.47	750.00	5835.37	2612.37	2873.25	345.00	795.00	871.00	1095.00
DS Dam	14025	100 YR	143.85		143.86	1848.46	5141.66	1734.40	4444.93		795.00	871.00	
DS Dam	14025	Floodway	144.39	0.53	144.42	750.00	5834.71	2591.72	2894.57	350.00	795.00	871.00	1100.00
DS Dam	13165	100 YR	143.75		143.75	1912.10	4543.58	1240.89	5536.53		783.00	832.00	
DS Dam	13165	Floodway	144.17	0.42	144.19	750.00	4094.29	1841.36	5385.36	508.00	783.00	832.00	1258.00
DS Dam	12400	100 YR	143.66		143.67	2090.93	7840.74	1183.56	2296.70		785.00	830.00	
DS Dam	12400	Floodway	144.04	0.38	144.06	920.00	7119.12	1401.50	2800.38	213.00	785.00	830.00	1133.00
DS Dam	12220	100 YR	143.30		143.60	1480.86	1556.76	8211.78	1552.46		1200.00	1305.00	
DS Dam	12220	Floodway	143.57	0.27	143.97	775.00	2066.06	9149.10	105.85	553.00	1200.00	1305.00	1328.00
DS Dam	12205 BR U	100 YR	143.34		143.59	1466.35	2579.27	6153.96	2587.77		1200.00	1305.00	
DS Dam	12205 BR U	Floodway	143.55	0.21	143.96	775.00	3699.30	7416.04	205.67	553.00	1200.00	1305.00	1328.00
DS Dam	12205 BR D	100 YR	140.58		142.83			11321.00			1200.00	1305.00	
DS Dam	12205 BR D	Floodway	140.72	0.13	142.93	152.85	0.01	11319.19	1.79	610.00	1200.00	1305.00	1345.00
DS Dam	12190	100 YR	142.05		142.68	1330.47	654.84	9991.07	675.09		1200.00	1305.00	
DS Dam	12190	Floodway	142.04	0.00	142.79	735.00	696.73	10525.17	99.09	610.00	1200.00	1305.00	1345.00
DS Dam	12148	100 YR	142.61		142.62	2256.56	6596.08	2073.90	2651.02		1200.00	1283.00	
DS Dam	12148	Floodway	142.68	0.07	142.70	770.00	7956.61	2628.74	735.66	568.00	1200.00	1283.00	1338.00
DS Dam	12120	100 YR	142.60		142.61	2102.31	6385.45	2008.09	2927.46		1200.00	1283.00	
DS Dam	12120	Floodway	142.67	0.07	142.70	770.00	7819.98	2620.01	881.01	578.00	1200.00	1283.00	1348.00
DS Dam	12075	100 YR	142.59		142.60	2001.33	7152.15	892.04	3276.81		1232.00	1263.00	
DS Dam	12075	Floodway	142.65	0.06	142.68	770.00	8972.77	1186.22	1162.00	579.00	1232.00	1263.00	1349.00
DS Dam	11988	100 YR	142.58		142.59	2019.07	8285.15	802.36	2233.49		1232.00	1263.00	
DS Dam	11988	Floodway	142.63	0.05	142.65	765.00	8527.27	1100.63	1693.11	624.00	1232.00	1263.00	1389.00
DS Dam	11945	100 YR	142.58		142.58	2385.11	6652.60	419.51	4248.89		1241.00	1264.00	
DS Dam	11945	Floodway	142.62	0.04	142.64	750.00	7922.21	731.49	2667.30	698.00	1241.00	1264.00	1448.00

Proposed Model

HEC-RAS Plan: Prop Plan River: Green Swamp Reach: DS Dam (Continued)

Reach	River Sta	Profile	W.S. Elev	Prof Delta WS	E.G. Elev	Top Wdth Act	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
DS Dam	11795	100 YR	142.56		142.56	2139.67	8192.32	748.46	2380.23		1233.00	1263.00	
DS Dam	11795	Floodway	142.57	0.01	142.59	750.00	6913.35	1086.16	3321.49	754.00	1233.00	1263.00	1504.00
DS Dam	11675	100 YR	142.54		142.55	2278.72	7813.85	700.43	2806.73		1233.00	1260.00	
DS Dam	11675	Floodway	142.53	0.00	142.56	750.00	6612.19	966.93	3741.88	774.00	1233.00	1260.00	1524.00
DS Dam	11615	100 YR	142.53		142.54	2288.61	5938.49	958.11	4424.40		1519.00	1561.00	
DS Dam	11615	Floodway	142.53	0.00	142.54	1000.00	5836.93	1377.82	4106.25	960.00	1519.00	1561.00	1960.00
DS Dam	11585	100 YR	142.53		142.54	2011.68	6162.60	984.32	4174.08		1519.00	1561.00	
DS Dam	11585	Floodway	142.53	0.00	142.54	1080.00	5820.54	1288.29	4212.18	925.00	1519.00	1561.00	2005.00
DS Dam	11570	100 YR	142.53		142.53	2011.56	6155.95	985.67	4179.38		1519.00	1561.00	
DS Dam	11570	Floodway	142.52	0.00	142.54	1125.00	5811.37	1254.56	4255.07	910.00	1519.00	1561.00	2035.00
DS Dam	11530	100 YR	142.52		142.53	2038.35	3166.21	1818.67	6336.12		1515.00	1575.00	
DS Dam	11530	Floodway	142.52	0.00	142.53	2038.35	3166.21	1818.67	6336.12		1515.00	1575.00	
DS Dam	11480	100 YR	142.50		142.52	2298.50	4288.99	2941.68	4090.33		1500.00	1590.00	
DS Dam	11480	Floodway	142.50	0.00	142.52	2298.50	4288.99	2941.68	4090.33		1500.00	1590.00	
DS Dam	11432 BR U	100 YR	142.50		142.52	2279.19	3423.65	1838.75	6058.60		1500.00	1590.00	
DS Dam	11432 BR U	Floodway	142.50	0.00	142.52	2279.19	3423.65	1838.75	6058.60		1500.00	1590.00	
DS Dam	11432 BR D	100 YR	142.47		142.48	2273.75	3421.74	1847.38	6051.88		1500.00	1590.00	
DS Dam	11432 BR D	Floodway	142.47	0.00	142.48	2273.75	3421.74	1847.38	6051.88		1500.00	1590.00	
DS Dam	11390	100 YR	142.44		142.46	2290.39	4281.65	2960.40	4078.95		1500.00	1590.00	
DS Dam	11390	Floodway	142.44	0.00	142.46	2290.39	4281.65	2960.40	4078.95		1500.00	1590.00	
DS Dam	11370	100 YR	142.42		142.46	2110.07	6278.88	3235.54	1806.59		1493.00	1562.00	
DS Dam	11370	Floodway	142.42	0.00	142.46	2110.07	6278.88	3235.54	1806.59		1493.00	1562.00	
DS Dam	11315	100 YR	142.44		142.45	1829.33	9440.19	1167.46	713.36		1499.00	1560.00	
DS Dam	11315	Floodway	142.44	0.00	142.45	1829.33	9440.19	1167.46	713.36		1499.00	1560.00	
DS Dam	11255 BR U	100 YR	142.10		142.42	1107.57	4399.16	5537.05	1384.80		1499.00	1560.00	
DS Dam	11255 BR U	Floodway	142.10	0.00	142.42	1107.57	4399.16	5537.05	1384.80		1499.00	1560.00	
DS Dam	11255 BR D	100 YR	135.82		139.79	104.99	837.94	9626.45	856.61		1505.00	1555.00	
DS Dam	11255 BR D	Floodway	135.82	0.00	139.79	104.99	837.94	9626.45	856.61		1505.00	1555.00	
DS Dam	11195	100 YR	139.38		139.40	1731.38	9850.87	1337.42	132.72		1505.00	1555.00	
DS Dam	11195	Floodway	139.38	0.00	139.40	1731.38	9850.87	1337.42	132.72		1505.00	1555.00	
DS Dam	10980	100 YR	139.31		139.34	1298.71	4313.92	2335.02	4672.07		680.00	743.00	
DS Dam	10980	Floodway	139.31	0.00	139.34	1298.71	4313.92	2335.02	4672.07		680.00	743.00	
DS Dam	10220	100 YR	138.95		139.01	904.29	4340.40	3252.42	3728.18		1143.00	1200.00	
DS Dam	10220	Floodway	138.95	0.00	139.01	904.29	4340.40	3252.42	3728.18		1143.00	1200.00	
DS Dam	8575	100 YR	138.32		138.34	1566.36	3563.47	3493.49	4264.04		1278.00	1414.00	
DS Dam	8575	Floodway	138.32	0.00	138.34	1566.36	3563.47	3493.49	4264.04		1278.00	1414.00	
DS Dam	8410	100 YR	136.52		138.10	97.78		11321.00			1271.00	1406.00	
DS Dam	8410	Floodway	136.52	0.00	138.10	97.78		11321.00			1271.00	1406.00	
DS Dam	8375 BR U	100 YR	136.15		138.03	90.96		11321.00			1271.00	1406.00	
DS Dam	8375 BR U	Floodway	136.15	0.00	138.03	90.96		11321.00			1271.00	1406.00	
DS Dam	8375 BR D	100 YR	134.96		137.28	83.03		11321.00			1271.00	1406.00	
DS Dam	8375 BR D	Floodway	134.96	0.00	137.28	83.03		11321.00			1271.00	1406.00	
DS Dam	8340	100 YR	131.14		135.55	76.29		11321.00			1271.00	1406.00	
DS Dam	8340	Floodway	131.14	0.00	135.55	76.29		11321.00			1271.00	1406.00	
DS Dam	8305	100 YR	133.45		133.50	1398.45	5205.44	4225.54	1890.03		1276.00	1463.00	
DS Dam	8305	Floodway	133.45	0.00	133.50	1398.45	5205.44	4225.54	1890.03		1276.00	1463.00	
DS Dam	6090	100 YR	131.09		131.15	1448.27	5310.83	3289.46	2720.71		1078.00	1152.00	
DS Dam	6090	Floodway	131.09	0.00	131.15	1448.27	5310.83	3289.46	2720.71		1078.00	1152.00	
DS Dam	5220	100 YR	130.44		130.47	1853.58	5866.04	2083.18	3371.79		1289.00	1341.00	
DS Dam	5220	Floodway	130.44	0.00	130.47	1853.58	5866.04	2083.18	3371.79		1289.00	1341.00	
DS Dam	3985	100 YR	129.84		129.87	1988.16	5729.43	3205.05	2386.52		1730.00	1840.00	
DS Dam	3985	Floodway	129.84	0.00	129.87	1988.16	5729.43	3205.05	2386.52		1730.00	1840.00	
DS Dam	3565	100 YR	129.69		129.71	1905.49	2572.29	3356.22	5392.49		882.00	997.00	
DS Dam	3565	Floodway	129.69	0.00	129.71	1905.49	2572.29	3356.22	5392.49		882.00	997.00	
DS Dam	3525 BR U	100 YR	128.70		129.63	116.94	121.31	11188.11	11.58		882.00	997.00	
DS Dam	3525 BR U	Floodway	128.70	0.00	129.63	116.94	121.31	11188.11	11.58		882.00	997.00	
DS Dam	3525 BR D	100 YR	125.04		128.70	112.51	225.82	10918.13	177.05		901.00	980.00	
DS Dam	3525 BR D	Floodway	125.04	0.00	128.70	112.51	225.82	10918.13	177.05		901.00	980.00	
DS Dam	3490	100 YR	128.12		128.17	1842.82	2749.76	3094.03	5477.22		901.00	980.00	
DS Dam	3490	Floodway	128.12	0.00	128.17	1842.82	2749.76	3094.03	5477.22		901.00	980.00	

Proposed Model

HEC-RAS Plan: Prop Plan River: Green Swamp Reach: DS Dam (Continued)

Reach	River Sta	Profile	W.S. Elev	Prof Delta WS	E.G. Elev	Top Wdth Act	Q Left	Q Channel	Q Right	Enc Sta L	Ch Sta L	Ch Sta R	Enc Sta R
			(ft)	(ft)	(ft)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)
DS Dam	2500	100 YR	127.36		127.40	1745.00	4108.47	2699.55	4512.99		927.00	993.00	
DS Dam	2500	Floodway	127.36	0.00	127.40	1745.00	4108.47	2699.55	4512.99		927.00	993.00	

APPENDIX D

HEC-HMS Output

Project: 2nd Mill_Liberty Rd Simulation Run: 100 YR Existing Conditions

Start of Run:	01Jan2000, 00:00	Basin Model:	Existing Condtions
End of Run:	11Jan2000, 00:00	Meteorologic Model:	100 YR
Compute Time:	12Dec2017, 09:15:30	Control Specifications:	10 Day

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
2nd Mill Pond Drainage Basin	42	15721.9	01Jan2000, 17:00	5.67
Liberty Street Bridge	42	10691.8	01Jan2000, 20:00	5.32
2nd Mill Pond Dam	42	9141.5	01Jan2000, 23:00	5.31
Junction-1	0	2069.4	01Jan2000, 20:00	n/a
Outlet	42	9820.5	01Jan2000, 21:00	5.59

Project: 2nd Mill_Liberty Rd Simulation Run: 100 YR Proposed Conditions

Start of Run:	01Jan2000, 00:00	Basin Model:	Proposed Conditions
End of Run:	11Jan2000, 00:00	Meteorologic Model:	100 YR
Compute Time:	12Dec2017, 09:28:53	Control Specifications:	10 Day

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
2nd Mill Pond Drainage Basin	42	15765.9	01Jan2000, 17:00	5.67
Liberty Street Bridge	42	10694.8	01Jan2000, 20:00	5.32
2nd Mill Pond Dam	42	9572.5	01Jan2000, 22:00	5.31
Junction-1	0	2072.6	01Jan2000, 20:00	n/a
Outlet	42	10640.6	01Jan2000, 21:00	5.59

Project: 2nd Mill_Liberty Rd Simulation Run: 500 YR Existing Conditions

Start of Run:	01Jan2000, 00:00	Basin Model:	Existing Condtions
End of Run:	11Jan2000, 00:00	Meteorologic Model:	500 YR
Compute Time:	12Dec2017, 09:38:45	Control Specifications:	10 Day

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
2nd Mill Pond Drainage Basin	42	25562.3	01Jan2000, 17:00	9.13
Liberty Street Bridge	42	14278.6	01Jan2000, 20:00	7.53
2nd Mill Pond Dam	42	13045.9	01Jan2000, 22:00	7.53
Junction-1	0	5886.0	01Jan2000, 20:00	n/a
Outlet	42	18412.2	01Jan2000, 21:00	9.05

Project: 2nd Mill_Liberty Rd Simulation Run: 500 YR Proposed Conditions

Start of Run:	01Jan2000, 00:00	Basin Model:	Proposed Conditions
End of Run:	11Jan2000, 00:00	Meteorologic Model:	500 YR
Compute Time:	12Dec2017, 09:16:18	Control Specifications:	10 Day

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
2nd Mill Pond Drainage Basin	42	25629.4	01Jan2000, 17:00	9.13
Liberty Street Bridge	42	14290.1	01Jan2000, 20:00	7.53
2nd Mill Pond Dam	42	12984.6	01Jan2000, 22:00	7.52
Junction-1	0	5891.9	01Jan2000, 20:00	n/a
Outlet	42	18367.3	01Jan2000, 21:00	9.05

APPENDIX E

Effective FIS Data and FIRM

HEC-2 FEMA Provided Data

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NGVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Green Swamp								
A-D*								
E	12,405	750	5,026	1.05	135.7	135.7	136.6	0.9
F	12,580	750	4,879	1.09	135.8	135.8	136.7	0.9
G	12,890	765	38,000	0.14	135.9	135.9	136.8	0.9
H	12,980	770	5,678	0.93	135.9	135.9	136.7	0.8
I	13,210	920	6,944	0.76	136.4	136.4	137.2	0.8
J	14,000	750	4,770	1.11	136.7	136.7	137.5	0.8
K	15,155	750	3,772	1.40	137.6	137.6	138.4	0.8
L	15,270	730	4,329	1.22	137.9	137.9	138.9	1.0
M	15,345	730	4,376	1.21	138.0	138.0	138.9	0.9
N	16,350	760	3,789	1.12	138.7	138.7	139.6	0.9
O	25,075	300	2,174	1.93	148.7	148.7	149.7	1.0
P	26,000	410	2,467	1.70	150.1	150.1	151.0	0.9
Q	27,000	660	3,657	1.15	151.2	151.2	152.1	0.9
R	27,970	500	3,214	1.31	151.3	151.3	152.2	0.9
S	28,120	500	463	9.07	151.5	151.5	152.0	0.5
T	28,250	600	4,261	0.99	152.8	152.8	153.3	0.5
U	29,000	1,000	6,400	0.66	152.9	152.9	153.5	0.6
V	30,200	700	4,344	0.97	153.3	153.3	153.9	0.6
W*								
X	41,763	185	1,119	1.3	168.8	168.8	169.8	1.0
Y	43,285	120	571	2.6	170.8	170.8	171.6	0.8
Z	44,074	140	660	2.3	172.5	172.5	173.3	0.8

[1]Feet above confluence with Pocotaligo Creek
*Floodway not computed

TABLE 5

FEDERAL EMERGENCY MANAGEMENT AGENCY

SUMTER COUNTY, SC AND INCORPORATED AREAS

FLOODWAY DATA

GREEN SWAMP

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NGVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Green Swamp (continued)								
AA	44,894	315	1,433	1.1	173.5	173.5	174.5	1.0
AB	45,546	61	291	5.1	174.1	174.1	175.1	1.0
AC	46,381	110	651	2.3	177.0	177.0	178.0	1.0
AD	46,986	175	979	1.5	177.9	177.9	178.9	1.0
AE	47,574	185	1,025	1.5	178.6	178.6	179.6	1.0
AF	48,551	150	821	1.4	179.7	179.7	180.7	1.0
AG	49,349	130	728	1.6	181.4	181.4	182.2	0.8
AH	49,985	185	779	1.5	181.8	181.8	182.8	1.0
AI	50,445	160	595	1.9	182.5	182.5	183.4	0.9
AJ	51,406	437	2,831	0.4	188.6	188.6	189.3	0.7
AK	52,768	100	377	3.4	188.7	188.7	189.3	0.6

[1]Feet above confluence with Pocotaligo River

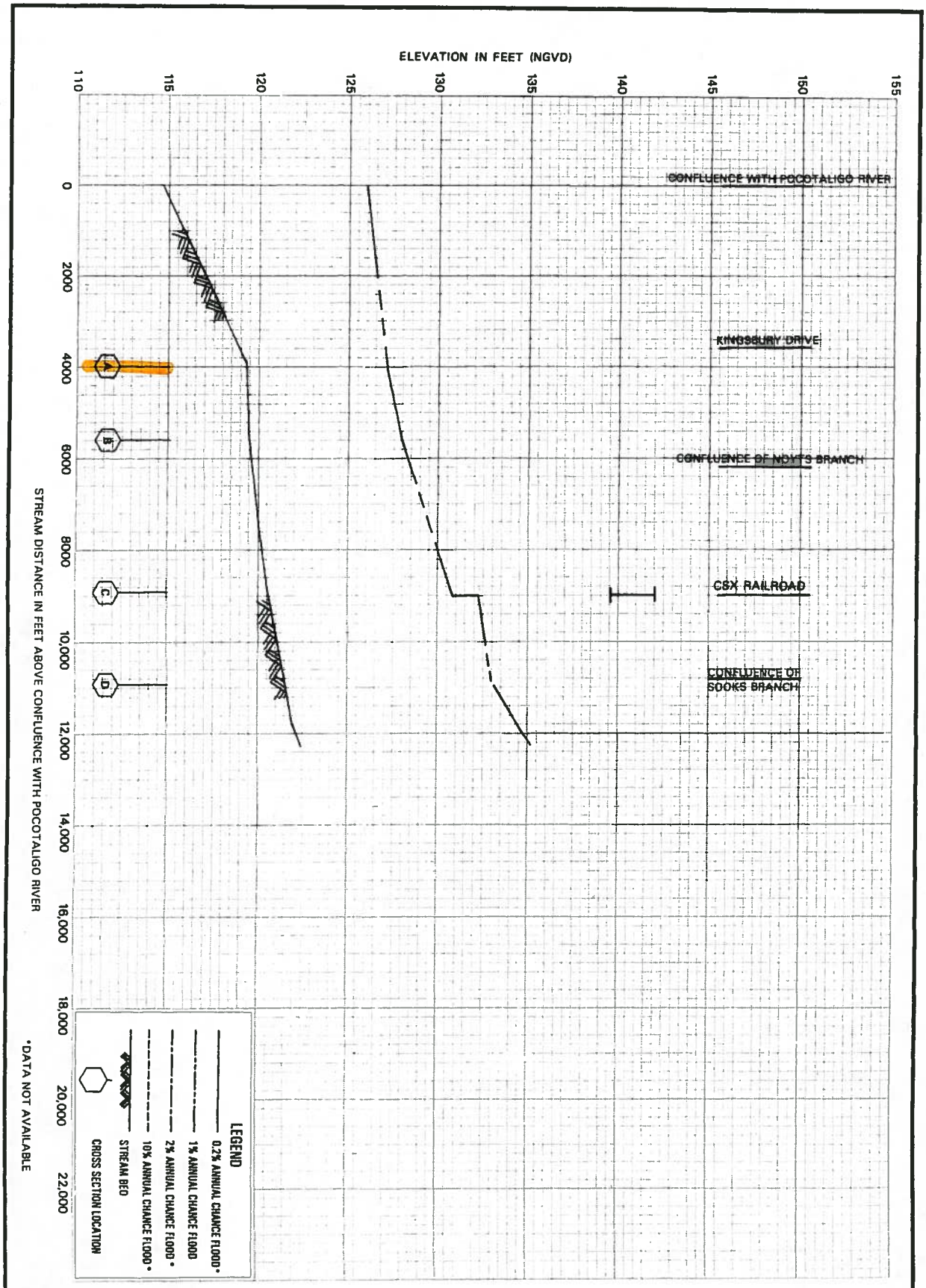
TABLE 5

FEDERAL EMERGENCY MANAGEMENT AGENCY

SUMTER COUNTY, SC AND INCORPORATED AREAS

FLOODWAY DATA

GREEN SWAMP



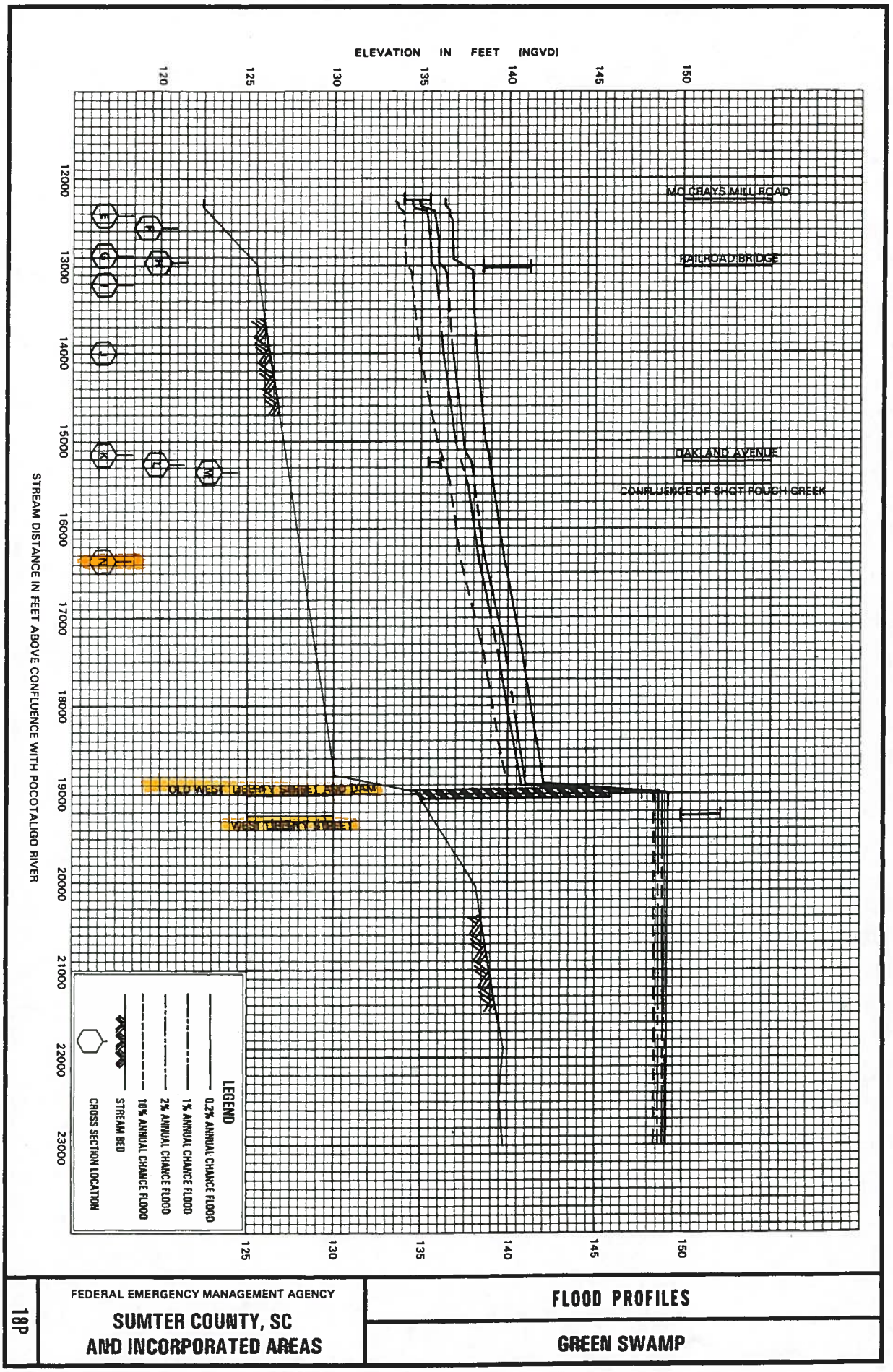
17P

FEDERAL EMERGENCY MANAGEMENT AGENCY

SUMTER COUNTY, SC
AND INCORPORATED AREAS

FLOOD PROFILES

GREEN SWAMP



18P

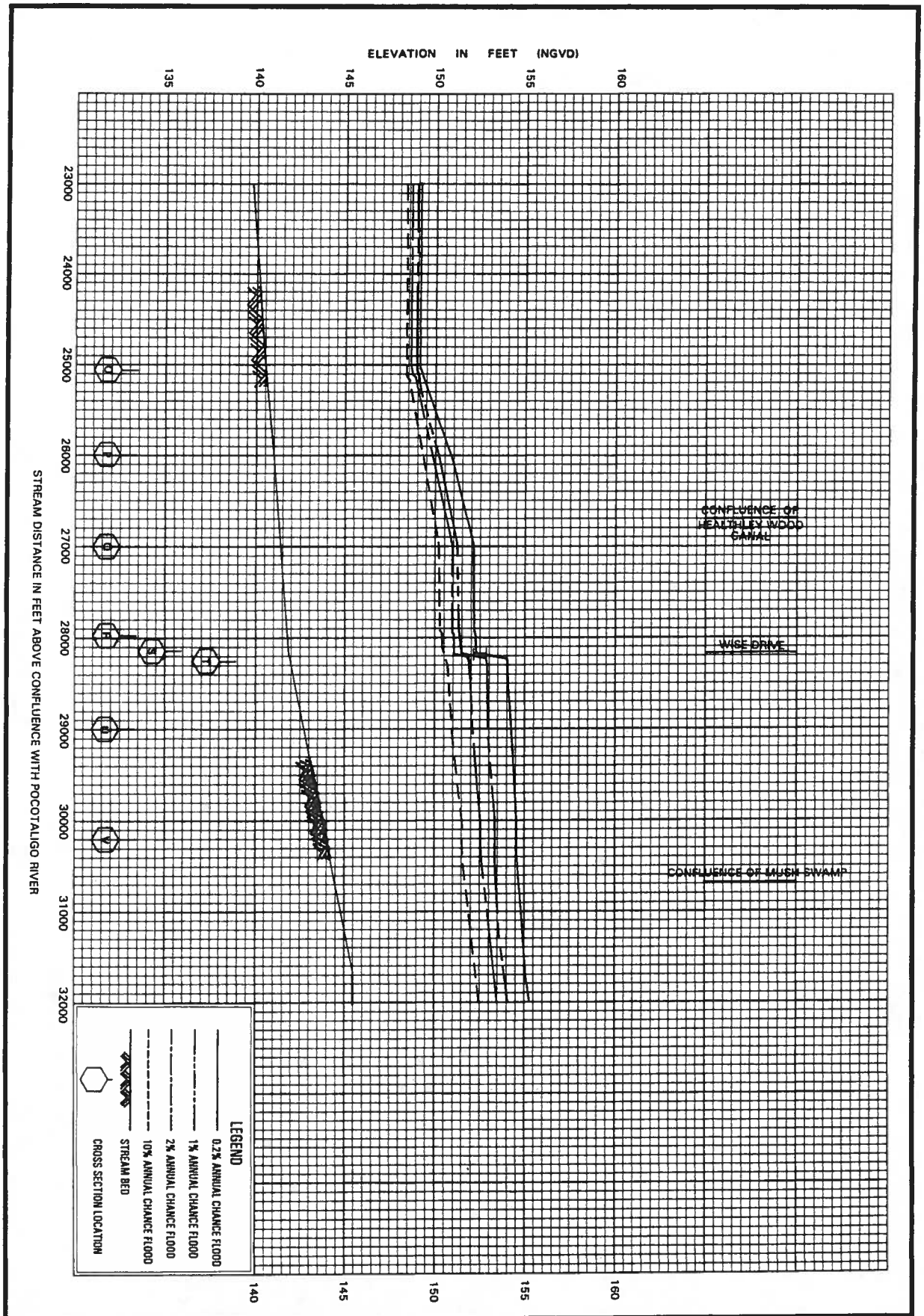
FEDERAL EMERGENCY MANAGEMENT AGENCY

SUMTER COUNTY, SC
AND INCORPORATED AREAS

FLOOD PROFILES

GREEN SWAMP

N342456



19P

FEDERAL EMERGENCY MANAGEMENT AGENCY

SUMTER COUNTY, SC AND INCORPORATED AREAS

FLOOD PROFILES

GREEN SWAMP

NOTES TO USERS

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

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

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

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

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

The projection used in the preparation of this map was South Carolina State Plane. The horizontal datum was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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

Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3191

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

Base map information shown on the FIRM was provided in digital format by Sumter City-County Planning Commission. This information was photogrammetrically compiled at a scale of 1 :4,800 from aerial photography dated 1999.

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

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

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

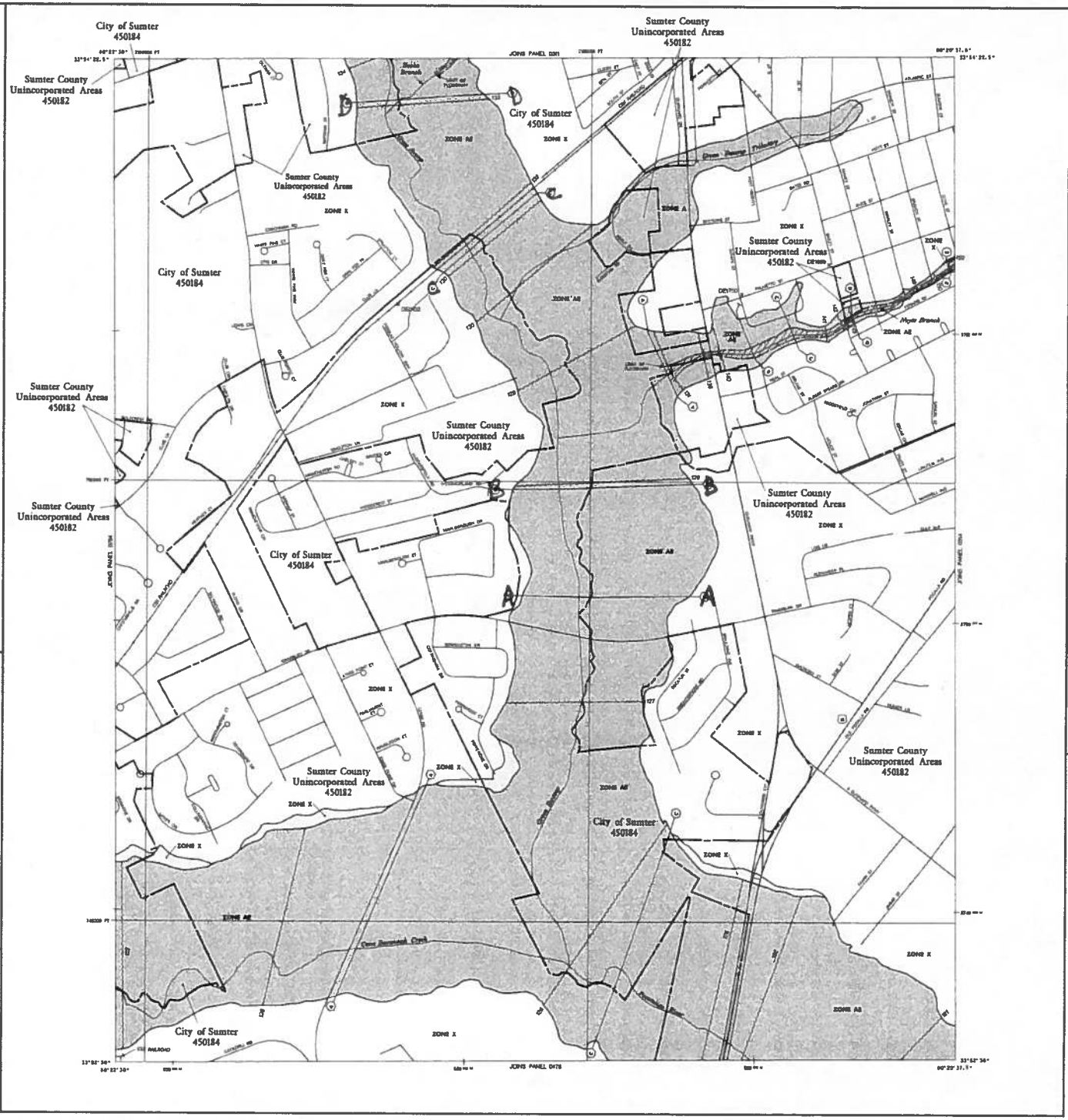
Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached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

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

DNR

This digital Flood Insurance Rate Map (FIRM) was produced through a unique cooperative partnership between the State of South Carolina and the Federal Emergency Management Agency (FEMA). The State of South Carolina has implemented a long term approach of floodplain management to decrease the costs associated with flooding. This is demonstrated by the State's commitment to map floodplain areas at the local level. As a part of this effort, the state of South Carolina has joined in a Cooperating Technical State agreement with FEMA to produce and maintain the digital FIRM.

http://www.dnr.state.sc.us/



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A — No Base Flood Elevations determined.

ZONE AE — Base Flood Elevations determined.

ZONE AH — Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO — Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR — Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 — Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V — Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE — Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

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

OTHER FLOOD AREAS

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

OTHER AREAS

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

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

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

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

- Floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL. 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the National Geodetic Vertical Datum of 1929

- A — A — Cross section line
- 23 — 23 — Transect line
- 97°07'30", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
- 4276 m N — 1000-meter Universal Transverse Mercator grid values, zone 17
- 600000 FT — 5000-foot grid values: South Carolina State Plane coordinate system (SPCS), Lambert Conformal Conic projection
- DX540 X — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- MLS — River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
FEBRUARY 16, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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

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

MAP SCALE 1" = 800'

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0313D

FIRM
FLOOD INSURANCE RATE MAP
SUMTER COUNTY
SOUTH CAROLINA
AND INCORPORATED AREAS

PANEL 313 OF 625

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SUMTER COUNTY	450182	0313	D
SUMTER, CITY OF	450184	0313	D

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

MAP NUMBER
45085C0313D

EFFECTIVE DATE
FEBRUARY 16, 2007

Federal Emergency Management Agency

You created this PDF from an application that is not licensed to print to novaPDF printer (http://www.novapdf.com)

NOTES TO USERS

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

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

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

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

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

The projection used in the preparation of this map was South Carolina State Plane. The horizontal datum was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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

Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3191

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

Base map information shown on this FIRM was provided in digital format by Sumter City-County Planning Commission. This information was photogrammetrically compiled at a scale of 1" = 4,800 from aerial photography dated 1999.

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

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

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

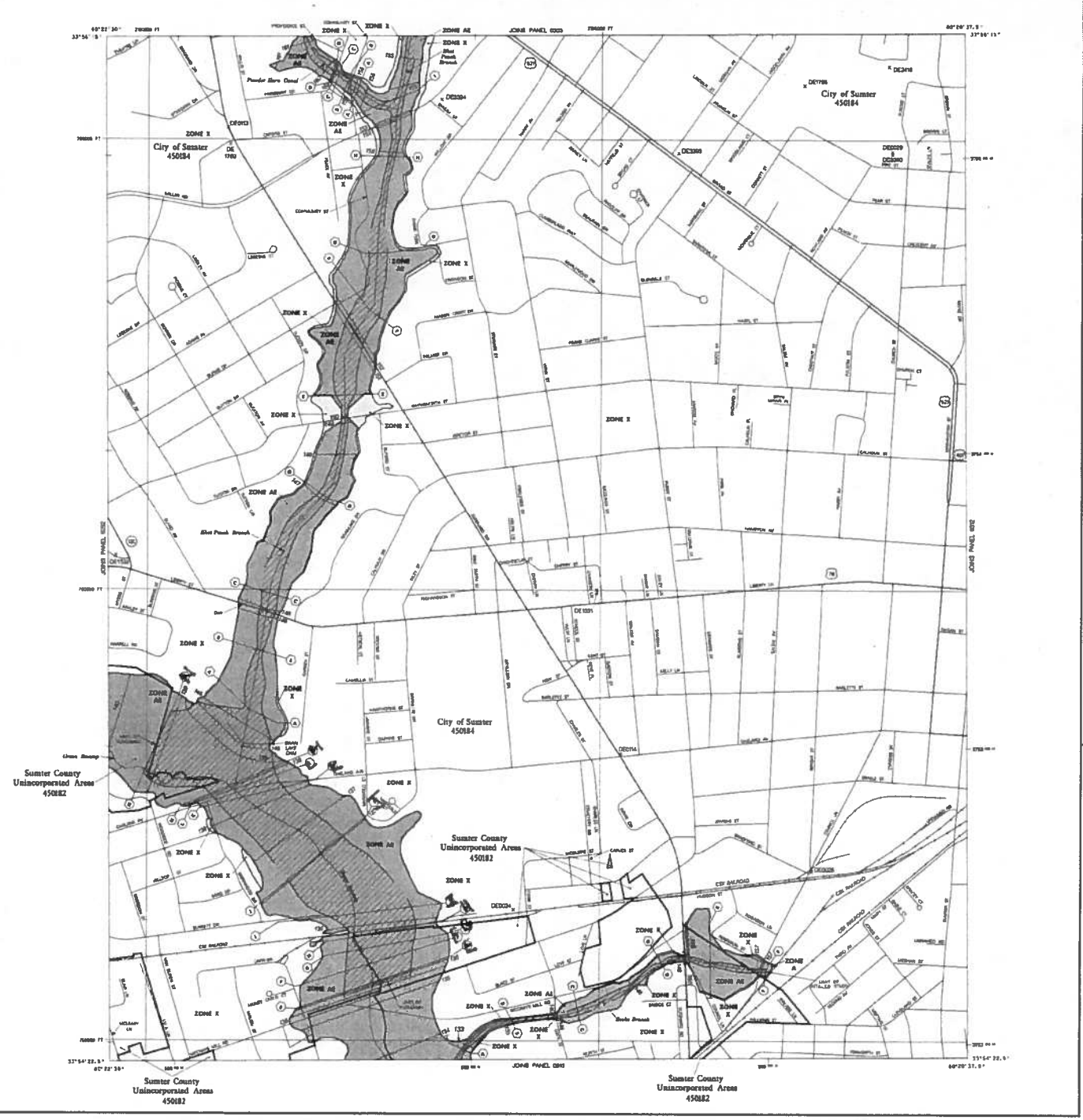
Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached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

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

DNR

The digital Flood Insurance Rate Map (FIRM) was produced through a unique cooperative partnership between the State of South Carolina and the Federal Emergency Management Agency (FEMA). The State of South Carolina has implemented a long term approach to floodplain management to decrease the costs associated with flooding. This is demonstrated by the state's commitment to map floodprone areas at the local level. As a part of this effort, the state of South Carolina has joined in a Cooperating Technical State agreement with FEMA to produce and maintain this digital FIRM.

http://www.dnr.state.sc.us/



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A — No Base Flood Elevations determined.

ZONE AE — Base Flood Elevations determined.

ZONE AH — Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO — Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR — Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently de-certified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 — Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V — Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE — Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

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

OTHER FLOOD AREAS

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

OTHER AREAS

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

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

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

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

- Floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the National Geodetic Vertical Datum of 1929

- A — A — Cross section line
- 23 — 23 — Transect line
- 97°07'30", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) West Longitude/Latitude
- 4276 000 m — 1000-meter Universal Transverse Mercator grid values, zone 17
- 2000 FT — 5000-foot grid values: South Carolina State Plane coordinate system, SOUTH ZONE (FIPS), Lambert Conformal Conic projection
- X — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
FEBRUARY 16, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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

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

SCALE 1" = 500'

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0311D

FIRM
FLOOD INSURANCE RATE MAP
SUMTER COUNTY
SOUTH CAROLINA
AND INCORPORATED AREAS

PANEL 311 OF 825

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SUMTER, CITY OF	450184	0311	D
SUMTER COUNTY	450182	0311	D

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

MAP NUMBER
45085C0311D

EFFECTIVE DATE
FEBRUARY 16, 2007

Federal Emergency Management Agency

You created this PDF from an application that is not licensed to print to novaPDF printer (http://www.novapdf.com)

NOTES TO USERS

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

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

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

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

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

The projection used in the preparation of the map was South Carolina State Plane. The horizontal datum was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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

Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3191

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

Base map information shown on the FIRM was provided in digital format by Sumter City-County Planning Commission. This information was photogrammetrically compiled at a scale of 1" = 4,800' from aerial photography dated 1999.

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

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

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

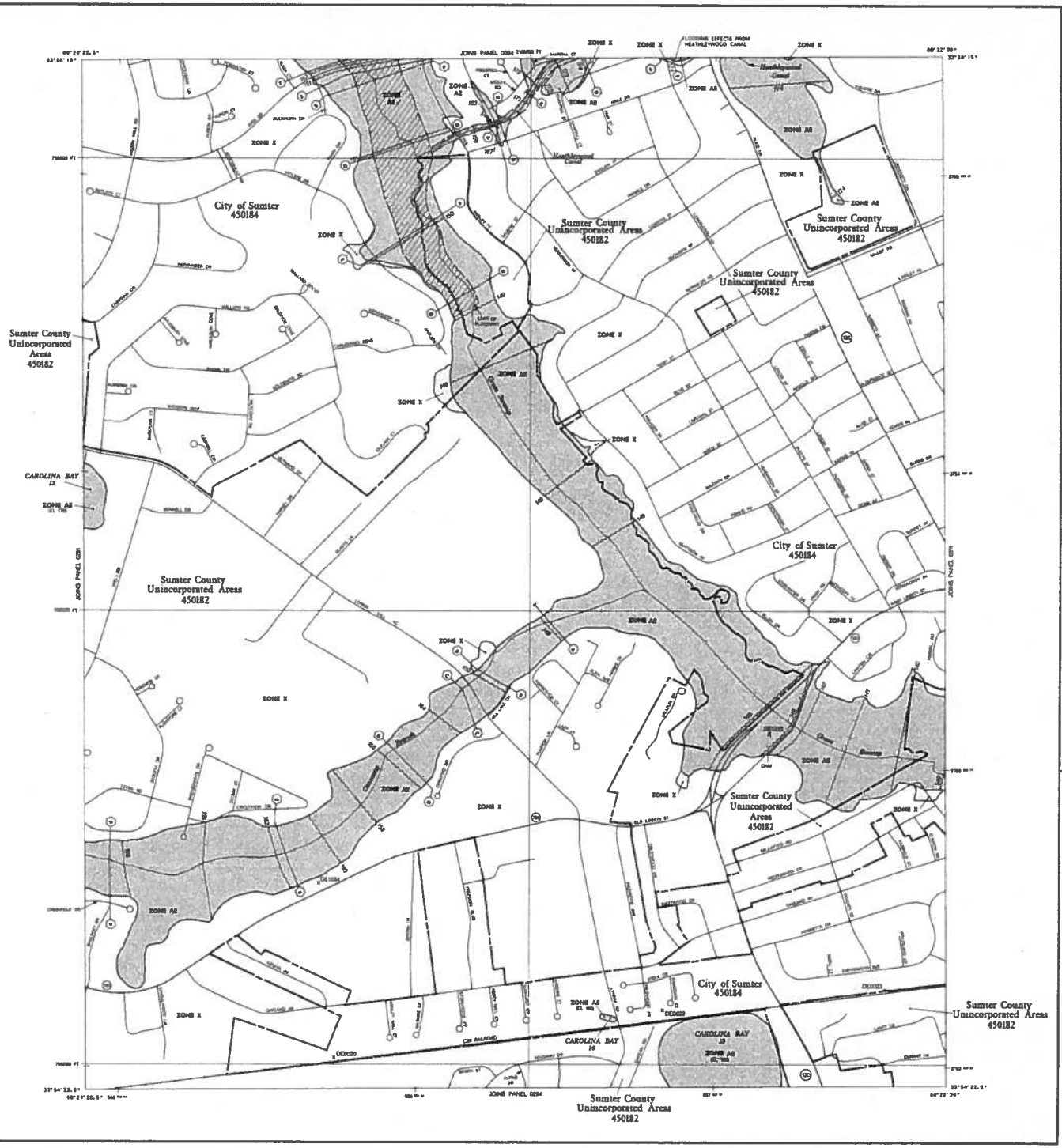
Contact the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached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

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

DNR

This digital Flood Insurance Rate Map (FIRM) was produced through a unique cooperative partnership between the State of South Carolina and the Federal Emergency Management Agency (FEMA). The State of South Carolina has implemented a long term approach to floodplain management to decrease the costs associated with flooding. This is demonstrated by the State's commitment to map floodplain areas at the local level. As a part of this effort, the state of South Carolina has joined in a Cooperating Technical State agreement with FEMA to produce and maintain this digital FIRM.

http://www.dnr.state.sc.us/



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, A1-A30, AH, AO, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A — No Base Flood Elevations determined.

ZONE AE — Base Flood Elevations determined.

ZONE AH — Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO — Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR — Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 — Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V — Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE — Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

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

OTHER FLOOD AREAS

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

OTHER AREAS

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

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

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

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

- Floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL. 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the National Geodetic Vertical Datum of 1929

- A — A — Cross section line
- 23 — 23 — Transect line
- 97° 07' 30", 32° 22' 30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) Western Hemisphere
- 4275 m — 1000-meter Universal Transverse Mercator grid values, zone 17
- 3000000 FT — 5000-foot grid values: South Carolina State Plane coordinate system (SPCS) zone 3900, Lambert Conformal Conic projection
- DX510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
FEBRUARY 18, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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

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

MAP SCALE 1" = 600'
300 0 300 600 FEET
150 0 150 300 METERS

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0292D

FIRM
FLOOD INSURANCE RATE MAP
SUMTER COUNTY
SOUTH CAROLINA
AND INCORPORATED AREAS

PANEL 292 OF 625
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SUMTER COUNTY	450182	0292	D
SUMTER, CITY OF	450184	0292	D

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

MAP NUMBER
45085C0292D

EFFECTIVE DATE
FEBRUARY 18, 2007

Federal Emergency Management Agency

You created this PDF from an application that is not licensed to print to novaPDF printer (http://www.novapdf.com)

```
**************************************************
HEC2 VERSION UPDATED JAN 1976
ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09
MODIFICATIONS 52,53,54,55,56,57,58,59
**************************************************


T1      SUMTER SOUTH CAROLINA
T2      10 YEAR
T3      GREEN SWAMP ABOVE SECOND MILL POND

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

        -0        2.        -0        -0        -0        -0        -0        -0   148.400        -0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

      1.000       -0        -0        -0        -0        -0        -0        -0        -0        -0

NC      .120      .120      .080        -0        -0        -0        -0        -0        -0        -0
QT     5.000  2600.000  3600.000  4200.000  4200.000  5750.000        -0        -0        -0        -0
ET        -0        -0        -0        -0    10.406        -0        -0        -0        -0        -0

X1   250.750    20.000   240.000   254.000         0         0         0        -0        -0        -0
GR   156.000         0   154.000    35.000   152.000    60.000   150.000    90.000   148.000   115.000
GR   146.000   135.000   144.000   215.000   142.000   220.000   142.000   240.000   140.000   242.000
GR   140.000   252.000   142.000   254.000   142.000   405.000   144.000   500.000   146.000   600.000
GR   148.000   670.000   150.000   700.000   152.000   740.000   154.000   770.000   156.000   810.000

X1   251.000         0         0         0    25.000    25.000    25.000        -0        -0        -0

X1   251.250         0         0         0    25.000    25.000    25.000        -0        -0        -0

X1   251.750         0         0         0    50.000    50.000    50.000     1.000      .030        -0

X1   253.000         0         0         0   125.000   125.000   125.000     1.000      .030        -0

X1   260.000    20.000   385.000   408.000   700.000   700.000   700.000        -0        -0        -0
GR   156.000         0   154.000    50.000   152.000   120.000   150.000   150.000   148.000   170.000
GR   146.000   245.000   144.000   340.000   143.000   385.000   141.000   387.000   141.000   406.000
GR   143.000   408.000   144.000   470.000   146.000   565.000   148.000   810.000   150.000   950.000
GR   152.000  1050.000   154.000  1080.000   156.000  1105.000   158.000  1150.000   160.000  1200.000

X1   270.000    18.000   700.000   724.000  1000.000  1000.000  1000.000        -0        -0        -0
GR   160.000         0   158.000    80.000   156.000   100.000   154.000   150.000   152.000   300.000
GR   150.000   310.000   148.000   460.000   146.000   700.000   141.500   702.000   141.500   722.000
GR   146.000   724.000   148.000  1310.000   150.000  1515.000   152.000  1535.000   154.000  1560.000
GR   156.000  1575.000   158.000  1600.000   160.000  1635.000        -0        -0        -0        -0

X1   278.200    17.000   843.000   890.000    20.000    20.000    20.000        -0        -0        -0
GR   160.000         0   155.000   200.000   152.300   300.000   148.600   400.000   147.000   500.000
GR   146.300   600.000   145.000   700.000   145.700   800.000   146.200   843.000   142.000   850.000
GR   142.000   880.000   146.600   890.000   147.200  1000.000   147.300  1100.000   148.600  1200.000
GR   156.500  1460.000   160.000  1600.000        -0        -0        -0        -0        -0        -0

X1   279.200         0         0         0   100.000   100.000   100.000        -0        -0        -0

X1   279.700         0         0         0    50.000    50.000    50.000        -0        -0        -0

X1   279.950         0         0         0    25.000    25.000    25.000        -0        -0        -0
```

X1	280,100	0	0	0	15,000	15,000	15,000	-0	-0	-0
X1	281,200	14,000	837,000	897,000	10,000	10,000	10,000	-0	-0	-0
X3	10,000	-0	-0	-0	-0	-0	-0	152,000	152,700	-0
GR	160,000	0	155,300	200,000	152,800	400,000	152,000	700,000	152,800	837,000
GR	149,600	839,000	142,000	850,000	142,000	880,000	149,600	895,000	152,800	897,000
GR	152,700	1100,000	153,000	1200,000	156,500	1460,000	160,000	1600,000	-0	-0
SB	1,250	1,500	3,000	0	30,000	3,000	500,000	2,000	-0	-0
X1	281,800	0	0	0	60,000	60,000	60,000	-0	-0	-0
X2	-0	-0	1,000	152,100	152,000	-0	-0	-0	-0	-0
X3	10,000	-0	-0	-0	-0	-0	-0	152,000	152,700	-0
BT	10,000	0	160,000	160,000	200,000	155,300	155,300	400,000	152,800	152,800
BT	700,000	152,000	152,000	837,000	152,800	152,100	897,000	152,800	152,100	1100,000
BT	152,700	152,700	1200,000	153,000	153,000	1460,000	156,500	156,500	1600,000	160,000
BT	160,000	-0	-0	-0	-0	-0	-0	-0	-0	-0
X1	281,900	17,000	843,000	890,000	10,000	10,000	10,000	-0	-0	-0
GR	160,000	0	155,000	200,000	152,300	300,000	148,600	400,000	147,000	500,000
GR	146,300	600,000	145,000	700,000	145,700	800,000	146,200	843,000	142,500	850,000
GR	142,500	880,000	146,600	890,000	147,200	1000,000	147,300	1100,000	148,600	1200,000
GR	156,500	1460,000	160,000	1600,000	-0	-0	-0	-0	-0	-0
X1	282,050	0	0	0	15,000	15,000	15,000	-0	-0	-0
X1	282,300	0	0	0	25,000	25,000	25,000	-0	-0	-0
X1	282,800	0	0	0	50,000	50,000	50,000	-0	-0	-0
X1	283,800	0	0	0	100,000	100,000	100,000	-0	-0	-0
X1	290,000	18,000	800,000	820,000	620,000	620,000	620,000	-0	-0	-0
GR	160,000	0	158,000	10,000	156,000	25,000	154,000	100,000	152,000	115,000
GR	150,000	135,000	148,000	215,000	146,000	800,000	143,000	802,000	143,000	817,000
GR	146,000	820,000	148,000	1120,000	150,000	1590,000	152,000	1620,000	154,000	1650,000
GR	156,000	1660,000	158,000	1680,000	160,000	1710,000	-0	-0	-0	0
X1	302,000	18,000	440,000	460,000	1200,000	1200,000	1200,000	-0	-0	-0
GR	160,000	0	158,000	20,000	156,000	30,000	154,000	60,000	152,000	70,000
GR	150,000	90,000	148,000	130,000	147,500	440,000	144,000	442,000	144,000	457,000
GR	147,500	460,000	148,000	860,000	150,000	1070,000	152,000	1100,000	154,000	1140,000
GR	156,000	1210,000	158,000	1315,000	160,000	1380,000	-0	-0	-0	-0
QT	5,000	1900,000	2700,000	3090,000	3090,000	4200,000	-0	-0	-0	-0
X1	312,000	0	0	0	1000,000	1000,000	1000,000	1,000	,700	-0
X1	322,000	16,000	535,000	557,000	1000,000	1000,000	1000,000	-0	-0	-0
GR	160,000	0	158,000	40,000	156,000	80,000	154,000	160,000	152,000	270,000
GR	150,000	340,000	149,000	535,000	146,000	537,000	146,000	552,000	149,000	557,000
GR	150,000	920,000	152,000	980,000	154,000	1020,000	156,000	1050,000	158,000	1120,000
GR	160,000	1225,000	-0	-0	-0	-0	-0	-0	-0	-0
X1	332,000	20,000	690,000	710,000	1000,000	1000,000	1000,000	-0	-0	-0
GR	166,000	0	164,000	40,000	162,000	60,000	160,000	95,000	158,000	150,000
GR	156,000	200,000	154,000	340,000	152,000	445,000	151,000	690,000	147,500	692,000
GR	147,500	707,000	151,000	710,000	152,000	1080,000	154,000	1081,000	156,000	1110,000
GR	158,000	1130,000	160,000	1160,000	162,000	1190,000	164,000	1230,000	166,000	1260,000
X1	342,000	0	0	0	1000,000	1000,000	1000,000	1,000	,700	-0
X1	352,000	18,000	700,000	725,000	1000,000	1000,000	1000,000	-0	-0	-0
GR	166,000	0	164,000	45,000	162,000	95,000	160,000	155,000	158,000	220,000
GR	156,000	350,000	154,000	440,000	153,000	700,000	149,200	702,000	149,200	722,000
GR	153,000	725,000	154,000	975,000	156,000	1000,000	158,000	1020,000	160,000	1040,000
GR	162,000	1070,000	164,000	1095,000	166,000	1125,000	-0	-0	-0	-0

45705

X1	355,650	22,000	600,000	625,000	365,000	365,000	365,000	-0	-0	-0
GR	170,000	0	168,000	50,000	166,000	100,000	164,000	160,000	162,000	230,000
GR	160,000	300,000	158,000	360,000	156,000	500,000	154,000	540,000	154,000	600,000
GR	150,000	602,000	150,000	622,000	154,000	625,000	154,000	890,000	156,000	1050,000
GR	158,000	1080,000	160,000	1110,000	162,000	1120,000	164,000	1140,000	166,000	1165,000
GR	168,000	1190,000	170,000	1210,000	-0	-0	-0	-0	-0	-0
X1	356,650	0	0	0	100,000	100,000	100,000	1,000	,070	-0
X1	357,150	0	0	0	50,000	50,000	50,000	-0	-0	-0
X1	357,400	18,000	310,000	329,000	25,000	25,000	25,000	-0	-0	-0
GR	170,000	0	158,000	70,000	158,000	240,000	156,000	270,000	154,500	310,000
GR	147,800	312,000	146,300	318,000	147,800	324,000	154,600	329,000	154,000	360,000
GR	156,000	570,000	158,000	700,000	160,000	740,000	162,000	775,000	164,000	790,000
GR	166,000	830,000	168,000	870,000	170,000	915,000	-0	-0	-0	-0
X1	357,550	0	0	0	15,000	15,000	15,000	-0	-0	-0
X1	357,650	10,000	825,000	868,000	10,000	10,000	10,000	-0	-0	-0
X3	10,000	-0	-0	-0	-0	-0	-0	163,900	163,700	-0
GR	170,000	0	164,000	350,000	163,900	825,000	149,800	826,000	149,800	868,000
GR	163,900	869,000	163,700	1000,000	164,000	1200,000	166,000	1350,000	170,000	1550,000
SB	,900	2,030	3,000	0	43,000	3,000	360,000	0	-0	-0
X1	358,650	0	0	0	100,000	100,000	100,000	-0	-0	-0
X2	-0	-0	1,000	158,900	163,700	-0	-0	-0	-0	-0
X3	10,000	-0	-0	-0	-0	-0	-0	163,900	163,700	-0
BT	8,000	0	170,000	170,000	350,000	164,000	164,000	825,000	163,900	158,900
BT	868,000	163,900	158,900	1000,000	163,700	163,700	1200,000	164,000	164,000	1350,000
BT	166,000	166,000	1550,000	170,000	170,000	-0	-0	-0	-0	-0
X1	358,750	18,000	800,000	885,000	10,000	10,000	10,000	-0	-0	-0
GR	170,000	200,000	168,000	270,000	166,000	310,000	160,000	500,000	156,000	700,000
GR	155,000	800,000	152,200	830,000	150,300	838,000	150,400	855,000	152,200	858,000
GR	152,800	875,000	154,500	885,000	154,300	900,000	157,800	1000,000	159,300	1100,000
GR	159,300	1200,000	161,500	1450,000	170,000	1550,000	-0	-0	-0	-0
X1	358,900	0	0	0	15,000	15,000	15,000	-0	-0	-0
X1	359,150	0	0	0	25,000	25,000	25,000	-0	-0	-0
X1	359,650	0	0	0	50,000	50,000	50,000	1,000	,100	-0
X1	360,650	0	0	0	100,000	100,000	100,000	1,000	,200	-0
X1	361,650	19,000	800,000	885,000	100,000	100,000	100,000	-0	-0	-0
GR	170,000	200,000	168,000	270,000	166,000	310,000	160,000	500,000	156,000	700,000
GR	155,000	800,000	152,300	830,000	150,600	838,000	150,600	855,000	152,200	858,000
GR	152,800	875,000	154,500	885,000	154,300	900,000	155,700	1000,000	155,000	1100,000
GR	155,300	1200,000	157,200	1350,000	157,600	1400,000	170,000	1550,000	-0	-0
X1	366,650	18,000	710,000	735,000	500,000	500,000	500,000	-0	-0	-0
GR	168,000	0	166,000	85,000	164,000	165,000	162,000	210,000	160,000	240,000
GR	158,000	300,000	156,000	490,000	155,000	710,000	151,600	712,000	151,600	732,000
GR	155,000	735,000	156,000	1155,000	158,000	1210,000	160,000	1250,000	162,000	1275,000
GR	164,000	1285,000	166,000	1330,000	168,000	1380,000	-0	-0	-0	-0
X1	377,200	18,000	870,000	895,000	1055,000	1055,000	1055,000	-0	-0	-0
GR	170,000	0	168,000	20,000	166,000	120,000	164,000	230,000	162,000	280,000
GR	160,000	315,000	158,000	520,000	156,000	870,000	153,800	872,000	153,800	892,000
GR	156,000	895,000	158,000	1480,000	160,000	1520,000	162,000	1535,000	164,000	1550,000
GR	166,000	1580,000	168,000	1620,000	170,000	1640,000	-0	-0	-0	-0
X1	390,000	0	0	0	1280,000	1280,000	1280,000	1,000	2,000	-0

X1	397.000	0	0	0	700,000	700,000	700,000	1,000	1,000	-0
X1	402,000	18,000	370,000	395,000	500,000	500,000	500,000	-0	-0	-0
GR	170,000	0	168,000	55,000	166,000	100,000	164,000	135,000	162,000	175,000
GR	160,000	320,000	160,000	370,000	157,500	372,000	157,500	392,000	160,000	395,000
GR	160,000	450,000	162,000	650,000	164,000	705,000	166,000	740,000	168,000	770,000
GR	170,000	785,000	172,000	835,000	174,000	870,000	-0	-0	-0	-0
X1	412,000	0	0	0	1000,000	1000,000	1000,000	1,000	4,000	-0
X1	416,000	12,000	620,000	660,000	400,000	400,000	400,000	-0	-0	-0
GR	176,000	40,000	172,000	120,000	171,200	290,000	165,000	500,000	165,000	620,000
GR	163,000	625,000	163,000	645,000	164,800	660,000	164,300	800,000	166,300	1000,000
GR	169,000	1075,000	176,000	1130,000	-0	-0	-0	-0	-0	-0
X1	417,000	0	0	0	100,000	100,000	100,000	1,000	.400	-0
X1	417,500	0	0	0	50,000	50,000	50,000	1,000	.100	-0
X1	417,750	0	0	0	25,000	25,000	25,000	-0	-0	-0
X1	417,900	0	0	0	15,000	15,000	15,000	1,000	.100	-0
X1	418,000	16,000	620,000	668,000	10,000	10,000	10,000	-0	-0	-0
X3	10,000	-0	-0	-0	-0	-0	-0	169,300	169,800	-0
GR	178,000	0	172,000	120,000	171,300	300,000	169,500	400,000	169,300	500,000
GR	170,100	620,000	165,000	621,000	163,300	628,000	163,300	645,000	644,800	660,000
GR	167,200	665,000	170,100	668,000	169,800	700,000	170,000	800,000	172,300	1100,000
GR	178,000	1150,000	-0	-0	-0	-0	-0	-0	-0	-0
SB	1,250	1,500	3,000	0	40,000	2,000	220,000	1,000	-0	-0
X1	418,600	0	0	0	60,000	60,000	60,000	-0	-0	-0
X2	-0	-0	1,000	169,300	169,300	-0	-0	-0	-0	-0
X3	10,000	-0	-0	-0	-0	-0	-0	169,300	169,800	-0
BT	11,000	0	178,000	178,000	120,000	172,000	172,000	300,000	171,300	171,300
BT	400,000	169,500	169,500	500,000	169,300	169,300	620,000	170,100	169,300	668,000
BT	170,100	169,300	700,000	169,800	169,800	800,000	170,000	170,000	1100,000	172,300
BT	172,300	1150,000	178,000	178,000	-0	-0	-0	-0	-0	-0
X1	418,700	18,000	740,000	765,000	10,000	10,000	10,000	-0	-0	-0
GR	178,000	0	176,000	140,000	174,000	240,000	172,000	315,000	170,000	420,000
GR	168,000	450,000	166,000	490,000	165,000	740,000	163,000	742,000	163,000	762,000
GR	165,000	765,000	166,000	1010,000	168,000	1070,000	170,000	1130,000	172,000	1155,000
GR	174,000	1180,000	176,000	1210,000	178,000	1275,000	-0	-0	-0	-0
X1	418,850	0	0	0	15,000	15,000	15,000	-0	-0	-0
X1	419,100	0	0	0	25,000	25,000	25,000	-0	-0	-0
X1	419,600	0	0	0	50,000	50,000	50,000	1,000	.200	-0
X1	420,600	0	0	0	100,000	100,000	100,000	1,000	.150	-0
X1	425,000	0	0	0	440,000	440,000	440,000	1,000	.700	-0
X1	430,000	0	0	0	500,000	500,000	500,000	1,000	.800	-0
EJ	-0	-0	-0	-0	-0	-0	-0	-0	-0	-0

45706

```
**************************************************
HEC2 VERSION UPDATED JAN 1976
ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09
MODIFICATIONS 52,53,54,55,56,57,58,59
**************************************************


T1      SUMTER SOUTH CAROLINA
T2      50 YEAR
T3      GREEN SWAMP ABOVE SECOND MILL POND

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

        .0        3.        .0        .0        .0        .0        .0        .0   148.700        .0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

      2.000       .0        .0        .0        .0        .0        .0        .0        .0        .0
```

```
**************************************************
HEC2 VERSION UPDATED JAN 1976
ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09
MODIFICATIONS 52,53,54,55,56,57,58,59
**************************************************


T1      SUMTER SOUTH CAROLINA
T2      100 YEAR
T3      GREEN SWAMP ABOVE SECOND MILL POND

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

        0         4.        0         0         0         0         0         0    148.800        0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

        3.000     0         0         0         0         0         0         0         0         0
```

45721

```
**************************************************
HEC2 VERSION UPDATED JAN 1976
ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09
MODIFICATIONS 52,53,54,55,56,57,58,59
**************************************************


T1      SUMTER SOUTH CAROLINA
T2      500 YEAR
T3      GREEN SWAMP ABOVE SECOND MILL POND

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

        =0        6.        =0        =0        =0        =0        =0        =0   149.100        =0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

       15.000        =0        =0        =0        =0        =0        =0        =0        =0        =0
```

```
**************************************************
HEC2 VERSION UPDATED JAN 1976
ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09
MODIFICATIONS 52,53,54,55,56,57,58,59
**************************************************


T1      SUMTER SOUTH CAROLINA
T2      500 YEAR
T3      GREEN SWAMP ABOVE SECOND MILL POND

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

        =0        6.        =0        =0        =0        =0        =0        =0   149.100       =0

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     15.000        =0        =0        =0        =0        =0        =0        =0        =0        =0
```

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

GREEN SWAMP ABOVE SECOND

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWID	10K*S	TIME	VOL
250.75	0	0	0	140.00	2600.00	148.40	0	148.42	566.00	7.61	0	0
250.75	0	0	0	140.00	3600.00	148.70	0	148.73	574.25	12.04	0	0
250.75	0	0	0	140.00	4200.00	148.80	0	148.84	577.00	15.40	0	0
250.75	0	0	0	140.00	5750.00	149.10	0	149.17	585.25	24.09	0	0
251.00	25.00	0	0	140.00	2600.00	148.42	0	148.44	566.52	7.52	.01	1.43
251.00	25.00	0	0	140.00	3600.00	148.73	0	148.76	575.08	11.81	.00	1.53
251.00	25.00	0	0	140.00	4200.00	148.84	0	148.88	578.06	15.04	.00	1.57
251.00	25.00	0	0	140.00	5750.00	149.16	0	149.23	586.91	23.25	.00	1.69
251.25	25.00	0	0	140.00	2600.00	148.44	0	148.46	567.04	7.42	.01	2.89
251.25	25.00	0	0	140.00	3600.00	148.76	0	148.79	575.90	11.60	.01	3.07
251.25	25.00	0	0	140.00	4200.00	148.88	0	148.92	579.10	14.69	.01	3.14
251.25	25.00	0	0	140.00	5750.00	149.22	0	149.29	588.53	22.46	.01	3.36
251.75	50.00	0	0	140.03	2600.00	148.48	0	148.49	567.24	7.39	.03	5.75
251.75	50.00	0	0	140.03	3600.00	148.82	0	148.85	576.68	11.39	.02	6.17
251.75	50.00	0	0	140.03	4200.00	148.95	0	148.99	580.32	14.30	.02	6.33
251.75	50.00	0	0	140.03	5750.00	149.33	0	149.39	590.85	21.40	.01	6.79
253.00	125.00	0	0	140.06	2600.00	148.57	0	148.58	568.97	7.09	.06	13.02
253.00	125.00	0	0	140.06	3600.00	148.96	0	148.99	579.81	10.63	.05	14.04
253.00	125.00	0	0	140.06	4200.00	149.12	0	149.16	584.48	13.07	.04	14.45
253.00	125.00	0	0	140.06	5750.00	149.59	0	149.64	597.28	18.76	.03	15.63
260.00	700.00	0	0	141.00	2600.00	149.17	0	149.20	733.95	11.29	.22	52.26
260.00	700.00	0	0	141.00	3600.00	149.78	0	149.82	782.65	13.41	.18	58.82
260.00	700.00	0	0	141.00	4200.00	150.09	0	150.13	805.84	14.57	.17	61.98
260.00	700.00	0	0	141.00	5750.00	150.83	0	150.88	853.65	16.52	.15	70.27
270.00	1000.00	0	0	141.50	2600.00	150.17	0	150.18	1207.51	8.60	.52	116.14
270.00	1000.00	0	0	141.50	3600.00	150.85	0	150.87	1217.76	8.43	.47	137.51
270.00	1000.00	0	0	141.50	4200.00	151.20	0	151.22	1222.97	8.50	.44	148.33
270.00	1000.00	0	0	141.50	5750.00	152.02	0	152.04	1235.58	8.60	.40	175.03
278.20	20.00	0	0	142.00	2600.00	150.18	0	150.20	895.15	6.69	.53	117.58
278.20	20.00	0	0	142.00	3600.00	150.86	0	150.88	935.87	7.55	.48	139.27
278.20	20.00	0	0	142.00	4200.00	151.21	0	151.23	956.76	8.03	.45	150.27
278.20	20.00	0	0	142.00	5750.00	152.02	0	152.05	1005.69	8.90	.40	177.38
279.20	100.00	0	0	142.00	2600.00	150.25	0	150.26	899.19	6.33	.56	124.57
279.20	100.00	0	0	142.00	3600.00	150.94	0	150.96	940.32	7.16	.50	147.70
279.20	100.00	0	0	142.00	4200.00	151.29	0	151.31	961.71	7.59	.47	159.46
279.20	100.00	0	0	142.00	5750.00	152.11	0	152.14	1010.94	8.45	.42	188.43
279.70	50.00	0	0	142.00	2600.00	150.28	0	150.29	901.14	6.16	.57	128.11
279.70	50.00	0	0	142.00	3600.00	150.97	0	150.99	942.53	6.97	.51	151.97
279.70	50.00	0	0	142.00	4200.00	151.33	0	151.35	963.75	7.42	.49	164.13
279.70	50.00	0	0	142.00	5750.00	152.15	0	152.18	1013.54	8.24	.43	194.03

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWID	10K*S	TIME	VOL
279,95	25,00	0	0	142,00	2600,00	150,29	0	150,31	902,08	6,08	,58	129,90
279,95	25,00	0	0	142,00	3600,00	150,99	0	151,01	943,59	6,88	,52	154,12
279,95	25,00	0	0	142,00	4200,00	151,35	0	151,37	964,87	7,33	,49	166,47
279,95	25,00	0	0	142,00	5750,00	152,17	0	152,20	1014,79	8,13	,44	196,84
280,10	15,00	0	0	142,00	2600,00	150,30	0	150,32	902,63	6,04	,58	130,97
280,10	15,00	0	0	142,00	3600,00	151,00	0	151,02	944,21	6,83	,52	155,42
280,10	15,00	0	0	142,00	4200,00	151,36	0	151,38	965,53	7,27	,50	167,88
280,10	15,00	0	0	142,00	5750,00	152,19	0	152,22	1015,52	8,08	,44	198,58
281,20	10,00	0	0	142,00	2600,00	149,21	0	150,34	54,69	232,22	,58	131,37
281,20	10,00	0	0	142,00	3600,00	148,67	148,67	151,31	52,81	594,39	,52	155,88
281,20	10,00	0	0	142,00	4200,00	149,30	149,30	152,15	54,97	581,25	,50	168,39
281,20	10,00	0	0	142,00	5750,00	150,67	150,67	154,09	57,34	562,14	,44	199,15
281,80	60,00	152,00	152,10	142,00	2600,00	149,63	0	150,61	56,04	188,85	,58	131,80
281,80	60,00	152,00	152,10	142,00	3600,00	150,33	0	151,82	56,91	257,63	,53	156,33
281,80	60,00	152,00	152,10	142,00	4200,00	151,13	0	152,73	57,92	245,88	,50	168,89
281,80	60,00	152,00	152,10	142,00	5750,00	150,84	0	154,09	57,55	522,14	,44	199,69
281,90	10,00	0	0	142,50	2600,00	150,61	0	150,62	920,29	4,96	,59	132,23
281,90	10,00	0	0	142,50	3600,00	151,82	0	151,83	992,70	4,09	,53	156,89
281,90	10,00	0	0	142,50	4200,00	152,73	0	152,74	1051,67	3,25	,50	169,56
281,90	10,00	0	0	142,50	5750,00	154,09	0	154,10	1146,72	3,04	,45	200,58
282,05	15,00	0	0	142,50	2600,00	150,61	0	150,63	920,74	4,93	,59	133,39
282,05	15,00	0	0	142,50	3600,00	151,82	0	151,83	993,08	4,07	,53	158,45
282,05	15,00	0	0	142,50	4200,00	152,73	0	152,74	1052,01	3,24	,51	171,45
282,05	15,00	0	0	142,50	5750,00	154,09	0	154,11	1147,13	3,04	,45	202,93
282,30	25,00	0	0	142,50	2600,00	150,63	0	150,64	921,48	4,88	,60	135,34
282,30	25,00	0	0	142,50	3600,00	151,83	0	151,84	993,69	4,05	,54	161,06
282,30	25,00	0	0	142,50	4200,00	152,74	0	152,75	1052,58	3,22	,51	174,59
282,30	25,00	0	0	142,50	5750,00	154,10	0	154,11	1147,66	3,02	,46	206,93
282,80	50,00	0	0	142,50	2600,00	150,65	0	150,66	922,95	4,79	,62	139,25
282,80	50,00	0	0	142,50	3600,00	151,85	0	151,86	994,91	4,00	,56	166,29
282,80	50,00	0	0	142,50	4200,00	152,76	0	152,77	1053,71	3,19	,53	180,88
282,80	50,00	0	0	142,50	5750,00	154,11	0	154,13	1148,72	3,00	,48	214,94
283,80	100,00	0	0	142,50	2600,00	150,70	0	150,71	925,84	4,62	,65	147,14
283,80	100,00	0	0	142,50	3600,00	151,89	0	151,90	997,32	3,90	,59	176,82
283,80	100,00	0	0	142,50	4200,00	152,79	0	152,80	1055,96	3,14	,56	193,53
283,80	100,00	0	0	142,50	5750,00	154,14	0	154,16	1150,83	2,96	,51	231,03
290,00	620,00	0	0	143,00	2600,00	150,95	0	150,96	1478,83	3,49	,95	205,47
290,00	620,00	0	0	143,00	3600,00	152,09	0	152,10	1507,11	2,60	,89	255,43
290,00	620,00	0	0	143,00	4200,00	152,95	0	152,95	1526,33	1,99	,87	287,91
290,00	620,00	0	0	143,00	5750,00	154,29	0	154,30	1562,37	1,76	,80	350,79

45737

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWID	10K*S	TIME	VOL
302.00	1200.00	0	0	144.00	2600.00	151.50	0	151.51	1017.56	6.39	1.37	318.35
302.00	1200.00	0	0	144.00	3600.00	152.52	0	152.53	1043.01	5.31	1.29	406.22
302.00	1200.00	0	0	144.00	4200.00	153.28	0	153.29	1062.02	4.31	1.28	467.56
302.00	1200.00	0	0	144.00	5750.00	154.59	0	154.60	1100.00	3.85	1.18	578.33
312.00	1000.00	0	0	144.70	1900.00	152.03	0	152.03	1013.14	4.03	1.83	395.70
312.00	1000.00	0	0	144.70	2700.00	152.97	0	152.98	1036.76	3.61	1.71	506.73
312.00	1000.00	0	0	144.70	3090.00	153.65	0	153.65	1053.65	2.90	1.72	585.36
312.00	1000.00	0	0	144.70	4200.00	154.91	0	154.92	1090.40	2.51	1.59	727.76
322.00	1000.00	0	0	146.00	1900.00	152.63	0	152.65	757.59	10.73	2.11	457.59
322.00	1000.00	0	0	146.00	2700.00	153.51	0	153.53	823.22	9.39	1.99	587.67
322.00	1000.00	0	0	146.00	3090.00	154.08	0	154.10	864.55	7.72	2.00	679.97
322.00	1000.00	0	0	146.00	4200.00	155.27	0	155.29	930.05	6.21	1.86	850.12
332.00	1000.00	0	0	147.50	1900.00	154.02	0	154.05	742.58	19.00	2.34	502.25
332.00	1000.00	0	0	147.50	2700.00	154.74	0	154.77	802.88	17.08	2.21	646.60
332.00	1000.00	0	0	147.50	3090.00	155.13	0	155.15	835.92	15.29	2.22	748.13
332.00	1000.00	0	0	147.50	4200.00	156.11	0	156.14	913.95	12.34	2.08	940.52
342.00	1000.00	0	0	148.20	1900.00	155.33	0	155.35	794.28	9.40	2.65	548.48
342.00	1000.00	0	0	148.20	2700.00	156.02	0	156.03	852.28	9.79	2.48	705.64
342.00	1000.00	0	0	148.20	3090.00	156.34	0	156.36	879.53	9.73	2.48	814.06
342.00	1000.00	0	0	148.20	4200.00	157.19	0	157.21	927.07	9.35	2.33	1025.26
352.00	1000.00	0	0	149.20	1900.00	156.45	0	156.47	683.31	13.74	2.88	595.49
352.00	1000.00	0	0	149.20	2700.00	157.16	0	157.19	736.90	13.80	2.70	764.96
352.00	1000.00	0	0	149.20	3090.00	157.48	0	157.51	760.62	13.73	2.70	879.30
352.00	1000.00	0	0	149.20	4200.00	158.29	0	158.32	812.03	13.49	2.53	1106.66
355.65	365.00	0	0	150.00	1900.00	157.02	0	157.06	636.99	19.05	2.96	609.92
355.65	365.00	0	0	150.00	2700.00	157.73	0	157.77	697.34	18.75	2.77	783.50
355.65	365.00	0	0	150.00	3090.00	158.04	0	158.08	722.01	18.54	2.76	899.76
355.65	365.00	0	0	150.00	4200.00	158.84	0	158.89	757.92	17.77	2.59	1132.27
356.65	100.00	0	0	150.07	1900.00	157.21	0	157.24	648.84	17.01	2.98	613.66
356.65	100.00	0	0	150.07	2700.00	157.92	0	157.95	706.06	17.06	2.79	788.34
356.65	100.00	0	0	150.07	3090.00	158.22	0	158.26	726.55	16.96	2.78	905.10
356.65	100.00	0	0	150.07	4200.00	159.02	0	159.06	762.20	16.54	2.61	1138.97
357.15	50.00	0	0	150.07	1900.00	157.29	0	157.32	653.51	15.46	2.99	615.60
357.15	50.00	0	0	150.07	2700.00	158.00	0	158.03	713.67	15.74	2.80	790.83
357.15	50.00	0	0	150.07	3090.00	158.31	0	158.34	730.54	15.71	2.79	907.86
357.15	50.00	0	0	150.07	4200.00	159.10	0	159.14	766.06	15.52	2.62	1142.40
357.40	25.00	0	0	146.30	1900.00	157.22	0	157.39	397.60	61.89	2.99	616.34
357.40	25.00	0	0	146.30	2700.00	157.94	0	158.10	455.26	60.17	2.80	791.80
357.40	25.00	0	0	146.30	3090.00	158.26	0	158.41	636.70	57.55	2.80	908.94
357.40	25.00	0	0	146.30	4200.00	159.07	0	159.20	657.66	49.45	2.62	1143.80

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWID	10K*S	TIME	VOL
357.55	15.00	0	0	146.30	1900.00	157.33	0	157.48	406.09	55.24	2.99	616.65
357.55	15.00	0	0	146.30	2700.00	158.04	0	158.19	631.09	54.56	2.80	792.21
357.55	15.00	0	0	146.30	3090.00	158.36	0	158.49	639.19	52.33	2.80	909.42
357.55	15.00	0	0	146.30	4200.00	159.15	0	159.27	659.73	46.10	2.62	1144.46
357.65	10.00	0	0	149.80	1900.00	156.93	0	157.55	42.51	102.42	2.99	616.79
357.65	10.00	0	0	149.80	2700.00	157.09	0	158.28	42.52	193.51	2.80	792.39
357.65	10.00	0	0	149.80	3090.00	156.99	0	158.59	42.51	263.67	2.80	909.62
357.65	10.00	0	0	149.80	4200.00	156.53	156.53	159.92	42.48	601.56	2.62	1144.72
358.65	100.00	163.70	158.90	149.80	1900.00	157.02	0	157.63	42.51	98.57	3.00	617.48
358.65	100.00	163.70	158.90	149.80	2700.00	157.38	0	158.48	42.54	171.10	2.81	793.11
358.65	100.00	163.70	158.90	149.80	3090.00	158.12	0	159.31	42.59	167.39	2.80	910.37
358.65	100.00	163.70	158.90	149.80	4200.00	159.03	0	160.82	42.66	222.43	2.63	1145.49
358.75	10.00	0	0	150.30	1900.00	157.56	0	157.68	371.38	34.05	3.00	617.62
358.75	10.00	0	0	150.30	2700.00	158.42	0	158.55	461.82	32.37	2.81	793.29
358.75	10.00	0	0	150.30	3090.00	159.27	0	159.36	560.96	21.67	2.80	910.61
358.75	10.00	0	0	150.30	4200.00	160.80	0	160.86	895.11	12.92	2.63	1145.89
358.90	15.00	0	0	150.30	1900.00	157.61	0	157.73	375.30	32.53	3.00	617.94
358.90	15.00	0	0	150.30	2700.00	158.47	0	158.59	467.97	30.98	2.81	793.73
358.90	15.00	0	0	150.30	3090.00	159.30	0	159.39	564.97	21.12	2.80	911.19
358.90	15.00	0	0	150.30	4200.00	160.82	0	160.88	898.06	12.73	2.63	1146.06
359.15	25.00	0	0	150.30	1900.00	157.70	0	157.81	381.84	30.16	3.00	618.47
359.15	25.00	0	0	150.30	2700.00	158.55	0	158.67	477.21	29.02	2.81	794.47
359.15	25.00	0	0	150.30	3090.00	159.35	0	159.44	673.71	20.28	2.81	912.18
359.15	25.00	0	0	150.30	4200.00	160.85	0	160.91	902.72	12.45	2.63	1148.58
359.65	50.00	0	0	150.40	1900.00	157.85	0	157.96	386.29	28.66	3.01	619.58
359.65	50.00	0	0	150.40	2700.00	158.70	0	158.81	483.04	27.86	2.82	796.00
359.65	50.00	0	0	150.40	3090.00	159.46	0	159.55	674.28	20.23	2.81	914.19
359.65	50.00	0	0	150.40	4200.00	160.91	0	160.97	897.34	12.78	2.64	1151.88
360.65	100.00	0	0	150.60	1900.00	158.13	0	158.23	394.59	26.51	3.02	621.84
360.65	100.00	0	0	150.60	2700.00	158.97	0	159.08	492.30	26.12	2.83	799.12
360.65	100.00	0	0	150.60	3090.00	159.66	0	159.75	674.69	20.19	2.83	918.20
360.65	100.00	0	0	150.60	4200.00	161.04	0	161.10	886.61	13.46	2.66	1158.45
361.65	100.00	0	0	150.60	1900.00	158.33	0	158.35	825.47	6.89	3.05	625.64
361.65	100.00	0	0	150.60	2700.00	159.18	0	159.20	877.86	6.61	2.86	804.15
361.65	100.00	0	0	150.60	3090.00	159.82	0	159.84	917.98	5.30	2.85	924.32
361.65	100.00	0	0	150.60	4200.00	161.15	0	161.17	979.84	4.09	2.69	1167.27
366.65	500.00	0	0	151.60	1900.00	158.69	0	158.70	944.08	6.95	3.22	633.83
366.65	500.00	0	0	151.60	2700.00	159.51	0	159.52	985.27	6.36	3.02	841.03
366.65	500.00	0	0	151.60	3090.00	160.09	0	160.10	1012.47	5.18	3.02	967.88
366.65	500.00	0	0	151.60	4200.00	161.36	0	161.37	1047.45	4.01	2.85	1225.68

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWID	10K*S	TIME	VOL
377.20	1055.00	0	0	153.80	1900.00	159.52	0	159.53	1146.13	9.07	3.59	717.56
377.20	1055.00	0	0	153.80	2700.00	160.25	0	160.26	1211.29	7.84	3.38	924.91
377.20	1055.00	0	0	153.80	3090.00	160.70	0	160.71	1222.59	6.56	3.39	1068.50
377.20	1055.00	0	0	153.80	4200.00	161.83	0	161.84	1250.67	4.84	3.22	1355.98
390.00	1280.00	0	0	155.80	1900.00	161.06	0	161.08	1090.82	17.03	3.95	787.56
390.00	1280.00	0	0	155.80	2700.00	161.63	0	161.65	1159.36	15.98	3.71	1016.92
390.00	1280.00	0	0	155.80	3090.00	161.91	0	161.93	1193.66	15.00	3.72	1170.43
390.00	1280.00	0	0	155.80	4200.00	162.74	0	162.76	1223.39	11.77	3.55	1496.04
397.00	700.00	0	0	156.80	1900.00	162.17	0	162.19	1103.28	14.64	4.15	822.68
397.00	700.00	0	0	156.80	2700.00	162.70	0	162.72	1168.26	14.62	3.90	1061.98
397.00	700.00	0	0	156.80	3090.00	162.94	0	162.96	1197.68	14.45	3.90	1220.38
397.00	700.00	0	0	156.80	4200.00	163.61	0	163.63	1220.19	13.28	3.72	1560.55
402.00	500.00	0	0	157.50	1900.00	163.20	0	163.25	551.87	33.95	4.23	842.79
402.00	500.00	0	0	157.50	2700.00	163.75	0	163.82	568.30	36.89	3.97	1087.88
402.00	500.00	0	0	157.50	3090.00	164.00	0	164.07	569.76	37.97	3.97	1240.10
402.00	500.00	0	0	157.50	4200.00	164.61	0	164.70	591.45	39.87	3.78	1594.98
412.00	1000.00	0	0	161.50	1900.00	167.00	0	167.07	522.65	43.22	4.38	870.64
412.00	1000.00	0	0	161.50	2700.00	167.64	0	167.72	553.25	41.22	4.11	1122.59
412.00	1000.00	0	0	161.50	3090.00	167.92	0	168.00	566.36	40.72	4.11	1286.78
412.00	1000.00	0	0	161.50	4200.00	168.61	0	168.69	591.29	40.02	3.91	1642.29
416.00	400.00	0	0	163.00	1900.00	168.01	0	168.04	649.75	15.43	4.47	884.08
416.00	400.00	0	0	163.00	2700.00	168.67	0	168.70	690.16	16.26	4.19	1139.61
416.00	400.00	0	0	163.00	3090.00	168.95	0	168.99	707.69	16.56	4.19	1305.48
416.00	400.00	0	0	163.00	4200.00	169.67	0	169.71	737.88	17.40	3.98	1665.11
417.00	100.00	0	0	163.40	1900.00	168.18	0	168.21	635.54	19.96	4.49	887.97
417.00	100.00	0	0	163.40	2700.00	168.85	0	168.88	676.30	20.09	4.21	1144.49
417.00	100.00	0	0	163.40	3090.00	169.13	0	169.17	695.95	20.15	4.20	1310.76
417.00	100.00	0	0	163.40	4200.00	169.85	0	169.89	729.21	20.39	4.00	1671.62
417.50	50.00	0	0	163.50	1900.00	168.28	0	168.31	635.19	20.09	4.51	889.82
417.50	50.00	0	0	163.50	2700.00	168.95	0	168.98	675.73	20.26	4.22	1146.85
417.50	50.00	0	0	163.50	3090.00	169.23	0	169.27	695.44	20.30	4.21	1313.33
417.50	50.00	0	0	163.50	4200.00	169.95	0	170.00	728.98	20.48	4.01	1674.79
417.75	25.00	0	0	163.50	1900.00	168.33	0	168.36	638.28	18.97	4.51	890.76
417.75	25.00	0	0	163.50	2700.00	169.00	0	169.03	679.15	19.21	4.23	1148.03
417.75	25.00	0	0	163.50	3090.00	169.28	0	169.32	696.56	19.40	4.22	1314.63
417.75	25.00	0	0	163.50	4200.00	170.00	0	170.05	731.11	19.69	4.01	1676.38
417.90	15.00	0	0	163.60	1900.00	168.36	0	168.39	633.92	20.58	4.51	891.38
417.90	15.00	0	0	163.60	2700.00	169.02	0	169.06	674.81	20.56	4.23	1148.74
417.90	15.00	0	0	163.60	3090.00	169.31	0	169.35	692.23	20.66	4.22	1315.41
417.90	15.00	0	0	163.60	4200.00	170.03	0	170.08	728.20	20.79	4.01	1677.38

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWID	10K*S	TIME	VOL
418.00	10.00	0	0	163.30	1900.00	170.59	170.59	171.14	517.00	230.60	4.51	891.57
418.00	10.00	0	0	163.30	2700.00	170.95	170.95	171.51	584.44	264.27	4.23	1149.06
418.00	10.00	0	0	163.30	3090.00	171.07	171.07	171.66	607.55	286.52	4.22	1315.76
418.00	10.00	0	0	163.30	4200.00	171.41	171.41	172.02	690.64	324.12	4.02	1677.77
418.60	60.00	169.30	169.30	163.30	1900.00	170.69	0	171.14	537.27	194.20	4.52	892.36
418.60	60.00	169.30	169.30	163.30	2700.00	171.05	0	171.51	605.23	222.91	4.23	1150.13
418.60	60.00	169.30	169.30	163.30	3090.00	171.19	0	171.66	630.44	238.50	4.23	1316.94
418.60	60.00	169.30	169.30	163.30	4200.00	171.49	0	172.02	727.50	282.58	4.02	1679.24
418.70	10.00	0	0	163.00	1900.00	171.14	0	171.14	783.87	1.81	4.52	892.85
418.70	10.00	0	0	163.00	2700.00	171.51	0	171.52	808.25	2.91	4.24	1150.60
418.70	10.00	0	0	163.00	3090.00	171.66	0	171.67	818.05	3.49	4.23	1317.51
418.70	10.00	0	0	163.00	4200.00	172.02	0	172.04	841.01	5.25	4.02	1679.87
418.85	15.00	0	0	163.00	1900.00	171.14	0	171.14	784.05	1.81	4.53	894.10
418.85	15.00	0	0	163.00	2700.00	171.52	0	171.52	808.54	2.90	4.24	1152.03
418.85	15.00	0	0	163.00	3090.00	171.67	0	171.68	818.39	3.48	4.23	1318.91
418.85	15.00	0	0	163.00	4200.00	172.03	0	172.04	841.41	5.23	4.03	1681.37
419.10	25.00	0	0	163.00	1900.00	171.14	0	171.15	784.34	1.81	4.54	896.19
419.10	25.00	0	0	163.00	2700.00	171.52	0	171.53	809.01	2.89	4.25	1154.30
419.10	25.00	0	0	163.00	3090.00	171.68	0	171.69	818.96	3.46	4.24	1321.28
419.10	25.00	0	0	163.00	4200.00	172.04	0	172.06	842.07	5.19	4.03	1683.87
419.60	50.00	0	0	163.20	1900.00	171.15	0	171.16	771.93	2.04	4.57	900.28
419.60	50.00	0	0	163.20	2700.00	171.54	0	171.55	796.95	3.23	4.27	1158.74
419.60	50.00	0	0	163.20	3090.00	171.69	0	171.70	807.09	3.85	4.26	1325.83
419.60	50.00	0	0	163.20	4200.00	172.07	0	172.08	831.38	5.72	4.05	1688.81
420.60	100.00	0	0	163.35	1900.00	171.17	0	171.18	763.43	2.22	4.62	908.19
420.60	100.00	0	0	163.35	2700.00	171.57	0	171.58	789.19	3.48	4.31	1167.34
420.60	100.00	0	0	163.35	3090.00	171.73	0	171.74	799.71	4.13	4.29	1334.72
420.60	100.00	0	0	163.35	4200.00	172.13	0	172.14	825.18	6.05	4.07	1698.42
425.00	440.00	0	0	164.05	1900.00	171.29	0	171.30	725.64	3.34	4.80	940.28
425.00	440.00	0	0	164.05	2700.00	171.75	0	171.76	755.39	4.88	4.45	1202.70
425.00	440.00	0	0	164.05	3090.00	171.94	0	171.96	767.90	5.62	4.42	1371.46
425.00	440.00	0	0	164.05	4200.00	172.42	0	172.44	799.09	7.67	4.18	1738.67
430.00	500.00	0	0	164.85	1900.00	171.50	0	171.51	694.04	5.31	4.97	971.83
430.00	500.00	0	0	164.85	2700.00	172.04	0	172.05	722.03	7.03	4.60	1238.39
430.00	500.00	0	0	164.85	3090.00	172.27	0	172.28	737.00	7.78	4.56	1408.96
430.00	500.00	0	0	164.85	4200.00	172.85	0	172.87	774.75	9.70	4.29	1780.85

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
START → 250.750	2600.000	148.400	0	0	0	566.000	0	0
250.750	3600.000	148.700	.300	0	0	574.250	-8.250	0
250.750	4200.000	148.800	.100	0	0	577.000	-11.000	0
250.750	5750.000	149.100	.300	0	0	585.250	-19.250	0
251.000	2600.000	148.419	0	.019	0	566.523	0	25.000
251.000	3600.000	148.730	.311	.030	0	575.078	-8.554	25.000
251.000	4200.000	148.839	.109	.039	0	578.059	-11.535	25.000
251.000	5750.000	149.161	.322	.061	0	586.906	-20.383	25.000
251.250	2600.000	148.438	0	.019	0	567.043	0	25.000
251.250	3600.000	148.760	.322	.030	0	575.897	-8.854	25.000
251.250	4200.000	148.877	.117	.038	0	579.105	-12.062	25.000

45739

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWID	10K*8	TIME	VOL
418.00	10.00	0	0	163.30	1900.00	170.59	170.59	171.14	517.00	230.60	4.51	891.57
418.00	10.00	0	0	163.30	2700.00	170.95	170.95	171.51	584.44	264.27	4.23	1149.06
418.00	10.00	0	0	163.30	3090.00	171.07	171.07	171.66	607.55	286.52	4.22	1315.76
418.00	10.00	0	0	163.30	4200.00	171.41	171.41	172.02	690.64	324.12	4.02	1677.77
418.60	60.00	169.30	169.30	163.30	1900.00	170.69	0	171.14	537.27	194.20	4.52	892.36
418.60	60.00	169.30	169.30	163.30	2700.00	171.05	0	171.51	608.23	222.91	4.23	1150.13
418.60	60.00	169.30	169.30	163.30	3090.00	171.19	0	171.66	630.44	238.50	4.23	1316.94
418.60	60.00	169.30	169.30	163.30	4200.00	171.49	0	172.02	727.50	282.58	4.02	1679.24
418.70	10.00	0	0	163.00	1900.00	171.14	0	171.14	783.87	1.81	4.52	892.85
418.70	10.00	0	0	163.00	2700.00	171.51	0	171.52	808.25	2.91	4.24	1150.68
418.70	10.00	0	0	163.00	3090.00	171.66	0	171.67	818.05	3.49	4.23	1317.51
418.70	10.00	0	0	163.00	4200.00	172.02	0	172.04	841.01	5.25	4.02	1679.87
418.85	15.00	0	0	163.00	1900.00	171.14	0	171.14	784.05	1.81	4.53	894.10
418.85	15.00	0	0	163.00	2700.00	171.52	0	171.52	808.54	2.90	4.24	1152.03
418.85	15.00	0	0	163.00	3090.00	171.67	0	171.68	818.39	3.48	4.23	1318.91
418.85	15.00	0	0	163.00	4200.00	172.03	0	172.04	841.41	5.23	4.03	1681.37
419.10	25.00	0	0	163.00	1900.00	171.14	0	171.15	784.34	1.81	4.54	896.19
419.10	25.00	0	0	163.00	2700.00	171.52	0	171.53	809.01	2.89	4.25	1154.30
419.10	25.00	0	0	163.00	3090.00	171.68	0	171.69	818.96	3.46	4.24	1321.28
419.10	25.00	0	0	163.00	4200.00	172.04	0	172.06	842.07	5.19	4.03	1683.87
419.60	50.00	0	0	163.20	1900.00	171.15	0	171.16	771.93	2.04	4.57	900.28
419.60	50.00	0	0	163.20	2700.00	171.54	0	171.55	796.95	3.23	4.27	1158.74
419.60	50.00	0	0	163.20	3090.00	171.69	0	171.70	807.09	3.85	4.26	1325.83
419.60	50.00	0	0	163.20	4200.00	172.07	0	172.08	831.38	5.72	4.05	1688.81
420.60	100.00	0	0	163.35	1900.00	171.17	0	171.18	763.43	2.22	4.62	908.19
420.60	100.00	0	0	163.35	2700.00	171.57	0	171.58	789.19	3.48	4.31	1167.34
420.60	100.00	0	0	163.35	3090.00	171.73	0	171.74	799.71	4.13	4.29	1334.78
420.60	100.00	0	0	163.35	4200.00	172.13	0	172.14	825.18	6.05	4.07	1698.48
425.00	440.00	0	0	164.05	1900.00	171.29	0	171.30	725.64	3.34	4.80	940.28
425.00	440.00	0	0	164.05	2700.00	171.75	0	171.76	755.39	4.88	4.85	1202.70
425.00	440.00	0	0	164.05	3090.00	171.94	0	171.96	767.90	5.62	4.82	1371.46
425.00	440.00	0	0	164.05	4200.00	172.42	0	172.44	799.09	7.67	4.18	1738.67
430.00	500.00	0	0	164.85	1900.00	171.50	0	171.51	694.04	5.31	4.97	971.83
430.00	500.00	0	0	164.85	2700.00	172.04	0	172.05	722.03	7.03	4.60	1238.39
430.00	500.00	0	0	164.85	3090.00	172.27	0	172.28	737.00	7.78	4.56	1408.96
430.00	500.00	0	0	164.85	4200.00	172.85	0	172.87	774.75	9.70	4.29	1780.85

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
START → 250.750	2600.000	148.400	0	0	0	566.000	0	0
250.750	3600.000	148.700	.300	0	0	574.250	-8.250	0
250.750	4200.000	148.800	.100	0	0	577.000	-11.000	0
250.750	5750.000	149.100	.300	0	0	585.250	-19.250	0
251.000	2600.000	148.419	0	.019	0	566.523	0	25.000
251.000	3600.000	148.730	.311	.030	0	575.078	-8.554	25.000
251.000	4200.000	148.839	.109	.039	0	578.059	-11.535	25.000
251.000	5750.000	149.161	.322	.061	0	586.906	-20.383	25.000
251.250	2600.000	148.438	0	.019	0	567.043	0	25.000
251.250	3600.000	148.760	.322	.030	0	575.897	-8.854	25.000
251.250	4200.000	148.877	.117	.038	0	579.105	-12.062	25.000

45739

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWID	10K*S	TIME	VOL
418.00	10.00	0	0	163.30	1900.00	170.59	170.59	171.14	517.00	230.60	4.51	891.57
418.00	10.00	0	0	163.30	2700.00	170.95	170.95	171.51	584.44	264.27	4.23	1149.06
418.00	10.00	0	0	163.30	3090.00	171.07	171.07	171.66	607.55	286.52	4.22	1315.76
418.00	10.00	0	0	163.30	4200.00	171.41	171.41	172.02	690.64	324.12	4.02	1677.77
418.60	60.00	169.30	169.30	163.30	1900.00	170.69	0	171.14	537.27	194.20	4.52	892.36
418.60	60.00	169.30	169.30	163.30	2700.00	171.05	0	171.51	605.23	222.91	4.23	1150.13
418.60	60.00	169.30	169.30	163.30	3090.00	171.19	0	171.66	630.44	238.50	4.23	1316.94
418.60	60.00	169.30	169.30	163.30	4200.00	171.49	0	172.02	729.50	282.58	4.02	1679.24
418.70	10.00	0	0	163.00	1900.00	171.14	0	171.14	783.87	1.81	4.52	892.85
418.70	10.00	0	0	163.00	2700.00	171.51	0	171.52	808.25	2.91	4.24	1150.68
418.70	10.00	0	0	163.00	3090.00	171.66	0	171.67	818.05	3.49	4.23	1317.51
418.70	10.00	0	0	163.00	4200.00	172.02	0	172.04	841.01	5.25	4.02	1679.87
418.85	15.00	0	0	163.00	1900.00	171.14	0	171.14	784.05	1.81	4.53	894.10
418.85	15.00	0	0	163.00	2700.00	171.52	0	171.52	808.54	2.90	4.24	1152.03
418.85	15.00	0	0	163.00	3090.00	171.67	0	171.68	818.39	3.48	4.23	1318.91
418.85	15.00	0	0	163.00	4200.00	172.03	0	172.04	841.41	5.23	4.03	1681.37
419.10	25.00	0	0	163.00	1900.00	171.14	0	171.15	784.34	1.81	4.54	896.19
419.10	25.00	0	0	163.00	2700.00	171.52	0	171.53	809.01	2.89	4.25	1154.30
419.10	25.00	0	0	163.00	3090.00	171.68	0	171.69	818.96	3.46	4.24	1321.28
419.10	25.00	0	0	163.00	4200.00	172.04	0	172.06	842.07	5.19	4.03	1683.87
419.60	50.00	0	0	163.20	1900.00	171.15	0	171.16	771.93	2.04	4.57	900.28
419.60	50.00	0	0	163.20	2700.00	171.54	0	171.55	796.95	3.23	4.27	1158.76
419.60	50.00	0	0	163.20	3090.00	171.69	0	171.70	807.09	3.85	4.26	1325.83
419.60	50.00	0	0	163.20	4200.00	172.07	0	172.08	831.38	5.72	4.05	1688.81
420.60	100.00	0	0	163.35	1900.00	171.17	0	171.18	763.43	2.22	4.62	908.19
420.60	100.00	0	0	163.35	2700.00	171.57	0	171.58	789.19	3.48	4.31	1167.38
420.60	100.00	0	0	163.35	3090.00	171.73	0	171.74	799.71	4.13	4.29	1334.78
420.60	100.00	0	0	163.35	4200.00	172.13	0	172.14	825.18	6.05	4.07	1698.48
425.00	440.00	0	0	164.05	1900.00	171.29	0	171.30	725.64	3.34	4.80	940.28
425.00	440.00	0	0	164.05	2700.00	171.75	0	171.76	755.39	4.88	4.45	1202.70
425.00	440.00	0	0	164.05	3090.00	171.94	0	171.96	767.90	5.62	4.42	1371.46
425.00	440.00	0	0	164.05	4200.00	172.42	0	172.44	799.09	7.67	4.18	1738.67
430.00	500.00	0	0	164.85	1900.00	171.50	0	171.51	694.04	5.31	4.97	971.83
430.00	500.00	0	0	164.85	2700.00	172.04	0	172.05	722.03	7.03	4.60	1238.39
430.00	500.00	0	0	164.85	3090.00	172.27	0	172.28	737.00	7.78	4.56	1408.96
430.00	500.00	0	0	164.85	4200.00	172.85	0	172.87	774.75	9.70	4.29	1780.85

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
START → 250.750	2600.000	148.400	0	0	0	566.000	0	0
250.750	3600.000	148.700	.300	0	0	574.250	-8.250	0
250.750	4200.000	148.800	.100	0	0	577.000	-11.000	0
250.750	5750.000	149.100	.300	0	0	585.250	-19.250	0
251.000	2600.000	148.419	0	.019	0	566.523	0	25.000
251.000	3600.000	148.730	.311	.030	0	575.078	-8.554	25.000
251.000	4200.000	148.839	.109	.039	0	578.059	-11.535	25.000
251.000	5750.000	149.161	.322	.061	0	586.906	-20.383	25.000
251.250	2600.000	148.438	0	.019	0	567.043	0	25.000
251.250	3600.000	148.760	.322	.030	0	575.897	-8.854	25.000
251.250	4200.000	148.877	.117	.038	0	579.105	-12.062	25.000

45739

251.250	5750.000	149.220	.343	.059	0	588.533	-21.490	25.000
251.750	2600.000	148.475	0	.037	0	567.245	0	50.000
251.750	3600.000	148.818	.343	.058	0	576.682	-9.437	50.000
251.750	4200.000	148.950	.132	.073	0	580.324	-13.079	50.000
251.750	5750.000	149.332	.382	.112	0	590.851	-23.606	50.000
253.000	2600.000	148.566	0	.091	0	568.965	0	125.000
253.000	3600.000	148.957	.391	.139	0	579.808	-10.843	125.000
253.000	4200.000	149.123	.166	.173	0	584.482	-15.516	125.000
253.000	5750.000	149.587	.464	.256	0	597.277	-28.311	125.000
260.000	2600.000	149.174	0	.608	0	733.950	0	700.000
260.000	3600.000	149.783	.609	.826	0	782.650	-48.700	700.000
260.000	4200.000	150.085	.302	.962	0	805.840	-71.890	700.000
260.000	5750.000	150.826	.741	1.239	0	853.648	-119.698	700.000
270.000	2600.000	150.168	0	.993	0	1207.512	0	1000.000
270.000	3600.000	150.851	.683	1.068	0	1217.755	-10.243	1000.000
270.000	4200.000	151.200	.349	1.115	0	1222.967	-15.455	1000.000
270.000	5750.000	152.016	.816	1.190	0	1235.576	-28.064	1000.000
278.200	2600.000	150.180	0	.012	0	895.145	0	20.000
278.200	3600.000	150.861	.681	.010	0	935.865	-40.720	20.000
278.200	4200.000	151.210	.348	.009	0	956.758	-61.613	20.000
278.200	5750.000	152.024	.814	.008	0	1005.691	-110.546	20.000
279.200	2600.000	150.246	0	.066	0	899.190	0	100.000
279.200	3600.000	150.936	.690	.074	0	940.325	-41.135	100.000
279.200	4200.000	151.289	.353	.079	0	961.711	-62.521	100.000
279.200	5750.000	152.112	.823	.088	0	1010.937	-111.747	100.000
279.700	2600.000	150.278	0	.032	0	901.140	0	50.000
279.700	3600.000	150.971	.694	.036	0	942.529	-41.389	50.000
279.700	4200.000	151.327	.355	.038	0	963.747	-62.607	50.000
279.700	5750.000	152.154	.827	.042	0	1013.537	-112.397	50.000
279.950	2600.000	150.293	0	.015	0	902.075	0	25.000
279.950	3600.000	150.989	.696	.018	0	943.587	-41.512	25.000
279.950	4200.000	151.346	.356	.019	0	964.871	-62.796	25.000
279.950	5750.000	152.175	.829	.021	0	1014.787	-112.711	25.000
280.100	2600.000	150.302	0	.009	0	902.626	0	15.000
280.100	3600.000	150.999	.697	.010	0	944.210	-41.584	15.000
280.100	4200.000	151.357	.357	.011	0	965.534	-62.908	15.000
280.100	5750.000	152.187	.830	.012	0	1015.523	-112.897	15.000
* 281.200	2600.000	149.213	0	-1.089	0	54.691	0	10.000
281.200	3600.000	148.667	-.547	-2.333	0	52.807	1.885	10.000
281.200	4200.000	149.300	.634	-2.056	0	54.974	-.283	10.000
281.200	5750.000	150.674	1.373	-1.513	0	57.342	-2.651	10.000
* 281.800	2600.000	149.634	0	.421	0	56.043	0	60.000
* 281.800	3600.000	150.329	.695	1.662	0	56.911	-.869	60.000
281.800	4200.000	151.133	.804	1.833	0	57.920	-1.878	60.000
281.800	5750.000	150.838	-.295	.165	0	57.553	-1.510	60.000
* 281.900	2600.000	150.607	0	.973	0	920.286	0	10.000
281.900	3600.000	151.815	1.208	1.486	0	992.700	-72.415	10.000
281.900	4200.000	152.727	.912	1.594	0	1051.666	-131.380	10.000
281.900	5750.000	154.087	1.360	3.249	0	1146.720	-226.435	10.000
282.050	2600.000	150.614	0	.007	0	920.735	0	15.000
282.050	3600.000	151.821	1.207	.006	0	993.081	-72.346	15.000
282.050	4200.000	152.732	.911	.005	0	1052.015	-131.280	15.000
282.050	5750.000	154.092	1.360	.005	0	1147.128	-226.393	15.000

282,300	2600,000	150,627	0	.012	0	921,476	0	25,000
282,300	3600,000	151,832	1,205	.010	0	993,692	-72,216	25,000
282,300	4200,000	152,740	,909	.008	0	1052,582	-131,106	25,000
282,300	5750,000	154,100	1,359	.008	0	1147,660	-226,184	25,000
282,800	2600,000	150,651	0	.024	0	922,946	0	50,000
282,800	3600,000	151,852	1,201	.020	0	994,909	-71,963	50,000
282,800	4200,000	152,757	,905	.016	0	1053,712	-130,765	50,000
282,800	5750,000	154,115	1,358	.015	0	1148,719	-225,773	50,000
283,800	2600,000	150,698	0	.047	0	925,845	0	100,000
283,800	3600,000	151,891	1,193	.040	0	997,319	-71,474	100,000
283,800	4200,000	152,788	,897	.032	0	1055,956	-130,111	100,000
283,800	5750,000	154,145	1,356	.030	0	1150,827	-224,983	100,000
290,000	2600,000	150,953	0	.255	0	1478,827	0	620,000
290,000	3600,000	152,094	1,141	.202	0	1507,113	-28,286	620,000
290,000	4200,000	152,948	,854	.159	0	1526,326	-47,499	620,000
290,000	5750,000	154,291	1,343	.146	0	1562,371	-83,544	620,000
302,000	2600,000	151,502	0	.549	0	1017,559	0	1200,000
302,000	3600,000	152,520	1,018	.426	0	1043,008	-25,449	1200,000
302,000	4200,000	153,281	,761	.333	0	1062,022	-44,463	1200,000
302,000	5750,000	154,585	1,305	.294	0	1109,001	-91,442	1200,000
312,000	1900,000	152,026	0	.523	0	1013,140	0	1000,000
312,000	2700,000	152,970	,945	.450	0	1036,759	-23,618	1000,000
312,000	3090,000	153,646	,676	.365	0	1053,653	-40,513	1000,000
312,000	4200,000	154,908	1,262	.323	0	1090,395	-77,255	1000,000
322,000	1900,000	152,635	0	.609	0	757,592	0	1000,000
322,000	2700,000	153,510	,875	.539	0	823,217	-65,625	1000,000
322,000	3090,000	154,083	,573	.437	0	864,546	-106,954	1000,000
322,000	4200,000	155,274	1,191	.366	0	930,047	-172,455	1000,000
332,000	1900,000	154,024	0	1,389	0	742,575	0	1000,000
332,000	2700,000	154,739	,715	1,229	0	802,876	-60,301	1000,000
332,000	3090,000	155,128	,389	1,045	0	835,923	-93,348	1000,000
332,000	4200,000	156,114	,986	,841	0	913,948	-171,373	1000,000
342,000	1900,000	155,331	0	1,307	0	794,277	0	1000,000
342,000	2700,000	156,017	,686	1,278	0	852,285	-58,008	1000,000
342,000	3090,000	156,340	,323	1,212	0	879,534	-85,257	1000,000
342,000	4200,000	157,188	,849	1,074	0	927,071	-132,794	1000,000
352,000	1900,000	156,447	0	1,115	0	683,310	0	1000,000
352,000	2700,000	157,160	,713	1,143	0	736,900	-53,590	1000,000
352,000	3090,000	157,475	,316	1,136	0	760,620	-77,310	1000,000
352,000	4200,000	158,290	,815	1,102	0	812,026	-128,716	1000,000
355,650	1900,000	157,024	0	,577	0	636,991	0	365,000
355,650	2700,000	157,734	,710	,574	0	697,338	-60,347	365,000
355,650	3090,000	158,045	,311	,569	0	722,007	-85,016	365,000
355,650	4200,000	158,843	,798	,553	0	757,915	-120,924	365,000
356,650	1900,000	157,207	0	,183	0	645,844	0	100,000
356,650	2700,000	157,915	,708	,182	0	706,062	-60,218	100,000
356,650	3090,000	158,225	,309	,180	0	726,549	-80,705	100,000
356,650	4200,000	159,017	,792	,174	0	762,204	-116,360	100,000
357,150	1900,000	157,291	0	,084	0	653,506	0	50,000
357,150	2700,000	158,000	,709	,084	0	713,671	-60,165	50,000
357,150	3090,000	158,308	,309	,084	0	730,542	-77,036	50,000
357,150	4200,000	159,099	,790	,082	0	766,063	-112,558	50,000

STOP

45740

357,400	1900,000	157,219	0	-,072	0	397,598	0	25,000
357,400	2700,000	157,941	,722	-,059	0	455,260	-57,662	25,000
357,400	3090,000	158,259	,318	-,049	0	636,704	-239,106	25,000
357,400	4200,000	159,071	,811	-,028	0	657,660	-260,062	25,000
357,550	1900,000	157,326	0	,107	0	406,095	0	15,000
357,550	2700,000	158,042	,716	,101	0	631,094	-225,000	15,000
357,550	3090,000	158,356	,313	,096	0	639,187	-233,093	15,000
357,550	4200,000	159,151	,795	,080	0	659,728	-253,633	15,000
357,650	1900,000	156,934	0	-,392	0	42,506	0	10,000
357,650	2700,000	157,088	,154	-,954	0	42,517	-,011	10,000
357,650	3090,000	156,991	-,097	-1,364	0	42,511	-,004	10,000
357,650	4200,000	156,534	-,457	-2,617	0	42,478	,029	10,000
358,650	1900,000	157,024	0	,091	0	42,512	0	100,000
358,650	2700,000	157,380	,355	,292	0	42,538	-,025	100,000
358,650	3090,000	158,115	,736	1,124	0	42,590	-,077	100,000
358,650	4200,000	159,034	,919	2,500	0	42,655	-,143	100,000
358,750	1900,000	157,558	0	,534	0	371,384	0	10,000
358,750	2700,000	158,416	,858	1,036	0	461,818	-90,433	10,000
358,750	3090,000	159,265	,850	1,150	0	560,957	-189,573	10,000
358,750	4200,000	160,795	1,530	1,761	0	895,108	-523,724	10,000
358,900	1900,000	157,613	0	,054	0	375,298	0	15,000
358,900	2700,000	158,468	,855	,052	0	467,974	-92,676	15,000
358,900	3090,000	159,300	,831	,034	0	564,972	-189,674	15,000
358,900	4200,000	160,816	1,516	,020	0	898,065	-522,766	15,000
359,150	1900,000	157,698	0	,085	0	381,837	0	25,000
359,150	2700,000	158,550	,852	,082	0	477,212	-95,375	25,000
359,150	3090,000	159,355	,805	,055	0	673,711	-291,874	25,000
359,150	4200,000	160,848	1,494	,033	0	902,723	-520,886	25,000
359,650	1900,000	157,850	0	,152	0	386,294	0	50,000
359,650	2700,000	158,696	,846	,146	0	483,044	-96,751	50,000
359,650	3090,000	159,456	,760	,101	0	674,281	-287,987	50,000
359,650	4200,000	160,910	1,454	,062	0	897,342	-511,048	50,000
360,650	1900,000	158,132	0	,282	0	394,591	0	100,000
360,650	2700,000	158,972	,840	,276	0	492,299	-97,708	100,000
360,650	3090,000	159,658	,686	,202	0	674,690	-280,099	100,000
360,650	4200,000	161,038	1,380	,128	0	886,612	-492,021	100,000
361,650	1900,000	158,332	0	,200	0	825,472	0	100,000
361,650	2700,000	159,176	,844	,204	0	877,858	-52,386	100,000
361,650	3090,000	159,822	,646	,164	0	917,985	-92,513	100,000
361,650	4200,000	161,154	1,332	,116	0	979,842	-154,370	100,000
366,650	1900,000	158,686	0	,353	0	944,083	0	500,000
366,650	2700,000	159,508	,822	,332	0	985,272	-41,189	500,000
366,650	3090,000	160,091	,583	,269	0	1012,467	-68,383	500,000
366,650	4200,000	161,362	1,271	,208	0	1047,454	-103,371	500,000
377,200	1900,000	159,520	0	,834	0	1146,131	0	1055,000
377,200	2700,000	160,252	,732	,743	0	1211,290	-65,159	1055,000
377,200	3090,000	160,704	,452	,613	0	1222,593	-76,462	1055,000
377,200	4200,000	161,827	1,123	,464	0	1250,665	-104,534	1055,000
390,000	1900,000	161,064	0	1,544	0	1090,823	0	1280,000
390,000	2700,000	161,631	,567	1,379	0	1159,356	-68,533	1280,000
390,000	3090,000	161,912	,280	1,208	0	1193,661	-102,838	1280,000
390,000	4200,000	162,737	,826	,911	0	1223,389	-132,565	1280,000
397,000	1900,000	162,170	0	1,106	0	1103,280	0	700,000

397.000	2700.000	162.702	.531	1.071	0	1168.257	-64.977	700.000
397.000	3090.000	162.943	.241	1.031	0	1197.682	-94.401	700.000
397.000	4200.000	163.610	.667	.873	0	1220.192	-116.912	700.000
402.000	1900.000	163.198	0	1.028	0	531.872	0	500.000
402.000	2700.000	163.755	.556	1.053	0	558.300	-26.427	500.000
402.000	3090.000	163.996	.241	1.053	0	569.756	-37.883	500.000
402.000	4200.000	164.614	.618	1.004	0	591.453	-59.581	500.000
412.000	1900.000	167.002	0	3.804	0	522.652	0	1000.000
412.000	2700.000	167.644	.643	3.890	0	553.254	-30.601	1000.000
412.000	3090.000	167.922	.278	3.926	0	566.361	-43.709	1000.000
412.000	4200.000	168.608	.686	3.994	0	591.294	-68.641	1000.000
416.000	1900.000	168.015	0	1.013	0	649.753	0	400.000
416.000	2700.000	168.670	.656	1.026	0	690.163	-40.410	400.000
416.000	3090.000	168.955	.284	1.032	0	707.689	-57.935	400.000
416.000	4200.000	169.665	.711	1.058	0	737.876	-88.123	400.000
417.000	1900.000	168.184	0	.170	0	635.540	0	100.000
417.000	2700.000	168.846	.661	.175	0	676.297	-40.758	100.000
417.000	3090.000	169.132	.286	.177	0	693.950	-58.410	100.000
417.000	4200.000	169.849	.717	.183	0	729.211	-93.672	100.000
417.500	1900.000	168.284	0	.100	0	635.192	0	50.000
417.500	2700.000	168.946	.662	.101	0	675.734	-40.542	50.000
417.500	3090.000	169.233	.287	.101	0	693.442	-58.250	50.000
417.500	4200.000	169.951	.718	.102	0	728.981	-93.789	50.000
417.750	1900.000	168.334	0	.050	0	638.278	0	25.000
417.750	2700.000	168.997	.662	.051	0	679.153	-40.874	25.000
417.750	3090.000	169.284	.287	.051	0	696.559	-58.280	25.000
417.750	4200.000	170.002	.719	.051	0	731.113	-92.835	25.000
417.900	1900.000	168.362	0	.028	0	633.919	0	15.000
417.900	2700.000	169.025	.663	.028	0	674.813	-40.894	15.000
417.900	3090.000	169.312	.287	.028	0	692.229	-58.310	15.000
417.900	4200.000	170.031	.719	.029	0	728.197	-94.278	15.000
418.000	1900.000	170.586	0	2.224	0	517.002	0	10.000
418.000	2700.000	170.948	.362	1.923	0	584.437	-67.436	10.000
418.000	3090.000	171.073	.124	1.761	0	607.552	-90.550	10.000
418.000	4200.000	171.405	.333	1.374	0	690.644	-173.642	10.000
418.600	1900.000	170.689	0	.103	0	537.267	0	60.000
418.600	2700.000	171.051	.362	.103	0	605.231	-67.964	60.000
418.600	3090.000	171.187	.136	.114	0	630.436	-93.169	60.000
418.600	4200.000	171.495	.308	.090	0	727.498	-190.231	60.000
418.700	1900.000	171.136	0	.448	0	783.867	0	10.000
418.700	2700.000	171.512	.375	.461	0	808.253	-24.386	10.000
418.700	3090.000	171.662	.151	.476	0	818.050	-34.184	10.000
418.700	4200.000	172.020	.358	.526	0	841.014	-57.147	10.000
418.850	1900.000	171.139	0	.003	0	784.045	0	15.000
418.850	2700.000	171.516	.377	.004	0	808.539	-24.494	15.000
418.850	3090.000	171.668	.152	.005	0	818.393	-34.348	15.000
418.850	4200.000	172.028	.361	.008	0	841.412	-57.367	15.000
419.100	1900.000	171.144	0	.005	0	784.340	0	25.000
419.100	2700.000	171.523	.380	.007	0	809.011	-24.672	25.000
419.100	3090.000	171.676	.153	.009	0	818.959	-34.619	25.000
419.100	4200.000	172.041	.365	.013	0	842.067	-57.727	25.000
419.600	1900.000	171.153	0	.009	0	771.927	0	50.000
419.600	2700.000	171.538	.385	.015	0	796.952	-25.025	50.000

397.000	2700.000	162.702	.531	1.071	0	1168.257	-64.977	700.000	
397.000	3090.000	162.943	.241	1.031	0	1197.682	-94.401	700.000	
397.000	4200.000	163.610	.667	.873	0	1220.192	-116.912	700.000	
402.000	1900.000	163.198	0	1.028	0	531.872	0	500.000	
402.000	2700.000	163.755	.556	1.053	0	558.300	-26.427	500.000	
402.000	3090.000	163.996	.241	1.053	0	569.756	-37.883	500.000	
402.000	4200.000	164.614	.613	1.004	0	591.453	-59.581	500.000	
412.000	1900.000	167.002	0	3.804	0	522.652	0	1000.000	
412.000	2700.000	167.644	.643	3.890	0	553.254	-30.601	1000.000	
412.000	3090.000	167.922	.278	3.926	0	566.361	-43.709	1000.000	
412.000	4200.000	168.608	.686	3.994	0	591.294	-68.641	1000.000	
416.000	1900.000	168.015	0	1.013	0	649.753	0	400.000	
416.000	2700.000	168.670	.656	1.026	0	690.163	-40.410	400.000	
416.000	3090.000	168.955	.284	1.032	0	707.689	-57.935	400.000	
416.000	4200.000	169.665	.711	1.058	0	737.876	-88.123	400.000	
417.000	1900.000	168.184	0	.170	0	635.540	0	100.000	
417.000	2700.000	168.846	.661	.175	0	676.297	-40.758	100.000	
417.000	3090.000	169.132	.286	.177	0	693.950	-58.410	100.000	
417.000	4200.000	169.849	.717	.183	0	729.211	-93.672	100.000	
417.500	1900.000	168.284	0	.100	0	635.192	0	50.000	
417.500	2700.000	168.946	.662	.101	0	675.734	-40.542	50.000	
417.500	3090.000	169.233	.287	.101	0	693.442	-58.250	50.000	
417.500	4200.000	169.951	.718	.102	0	728.981	-93.789	50.000	
417.750	1900.000	168.334	0	.050	0	638.278	0	25.000	
417.750	2700.000	168.997	.662	.051	0	679.153	-40.874	25.000	
417.750	3090.000	169.284	.287	.051	0	696.559	-58.280	25.000	
417.750	4200.000	170.002	.719	.051	0	731.113	-92.835	25.000	
417.900	1900.000	168.362	0	.028	0	633.919	0	15.000	
417.900	2700.000	169.025	.663	.028	0	674.813	-40.894	15.000	
417.900	3090.000	169.312	.287	.028	0	692.229	-58.310	15.000	
417.900	4200.000	170.031	.719	.029	0	728.197	-94.278	15.000	
418.000	1900.000	170.586	0	2.224	0	517.002	0	10.000	
418.000	2700.000	170.948	.362	1.923	0	584.437	-67.436	10.000	
418.000	3090.000	171.073	.124	1.761	0	607.552	-90.550	10.000	
418.000	4200.000	171.405	.333	1.374	0	690.644	-173.642	10.000	
418.600	1900.000	170.689	0	.103	0	537.267	0	60.000	
418.600	2700.000	171.051	.362	.103	0	605.231	-67.964	60.000	
418.600	3090.000	171.187	.136	.114	0	630.436	-93.169	60.000	
418.600	4200.000	171.495	.308	.090	0	727.498	-190.231	60.000	
418.700	1900.000	171.136	0	.448	0	783.867	0	10.000	
418.700	2700.000	171.512	.375	.461	0	808.253	-24.386	10.000	
418.700	3090.000	171.662	.151	.476	0	818.050	-34.184	10.000	
418.700	4200.000	172.020	.358	.526	0	841.014	-57.147	10.000	
418.850	1900.000	171.139	0	.003	0	784.045	0	15.000	
418.850	2700.000	171.516	.377	.004	0	808.539	-24.494	15.000	
418.850	3090.000	171.668	.152	.005	0	818.393	-34.348	15.000	
418.850	4200.000	172.028	.361	.008	0	841.412	-57.367	15.000	
419.100	1900.000	171.144	0	.005	0	784.340	0	25.000	
419.100	2700.000	171.523	.380	.007	0	809.011	-24.672	25.000	
419.100	3090.000	171.676	.153	.009	0	818.959	-34.619	25.000	
419.100	4200.000	172.041	.365	.013	0	842.067	-57.727	25.000	
419.600	1900.000	171.153	0	.009	0	771.927	0	50.000	
419.600	2700.000	171.538	.385	.015	0	796.952	-25.025	50.000	

419.600	3090.000	171.694	.156	.017	0	807.086	-35.158	50.000
419.600	4200.000	172.067	.374	.026	0	831.380	-59.453	50.000
420.600	1900.000	171.174	0	.021	0	763.428	0	100.000
420.600	2700.000	171.571	.397	.033	0	789.192	-25.764	100.000
420.600	3090.000	171.733	.162	.039	0	799.712	-36.284	100.000
420.600	4200.000	172.125	.392	.058	0	825.177	-61.749	100.000
425.000	1900.000	171.291	0	.117	0	725.637	0	440.000
425.000	2700.000	171.748	.458	.177	0	755.389	-29.752	440.000
425.000	3090.000	171.941	.192	.208	0	767.898	-42.261	440.000
425.000	4200.000	172.421	.480	.295	0	799.088	-73.451	440.000
430.000	1900.000	171.495	0	.205	0	694.036	0	500.000
430.000	2700.000	172.035	.540	.287	0	722.028	-27.992	500.000
430.000	3090.000	172.265	.230	.325	0	737.004	-42.967	500.000
430.000	4200.000	172.846	.581	.426	0	774.754	-80.718	500.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0	0	338.515	0
2	0	0	356.135	17.620
3	0	0	365.895	27.380
4	0	0	382.846	44.331

GREEN
SWAMP BELOW
SECOND MILL
POND

```
*****************************************
HEC2 VERSION UPDATED JULY 1975
ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09
MODIFICATIONS 52,53,54,55,56,57,58
*****************************************
```

T1 SUMTER SOUTH CAROLINA
T2 10 YEAR
T3 GREEN SWAMP BELOW SECOND MILL POND

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
.	-0.	2.	-0.	-0.	.000100	-0.00	-0.0	-0.	125.500	-0.000

J2	NPROF	IPLOT	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	1.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000

NC	.120	.120	.080	.060	.080	-0.000	-0.000	-0.000	-0.000	-0.000
QT	5.000	3200.000	4500.000	5200.000	5200.000	7200.000	-0.000	-0.000	-0.000	-0.000
ET	-0.000	-0.000	-0.000	-0.000	10.400	-0.000	-0.000	-0.000	-0.000	-0.000
X1	25.000	18.000	945.000	975.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
GR	140.000	0.000	136.000	70.000	130.000	160.000	124.000	250.000	122.000	280.000
GR	121.300	450.000	121.300	945.000	119.300	948.000	119.300	972.000	121.300	975.000
GR	121.300	1500.000	122.000	1650.000	126.000	1715.000	128.000	1825.000	130.000	1970.000
GR	132.000	2215.000	134.000	2400.000	140.000	2800.000	-0.000	-0.000	-0.000	-0.000
X1	25.250	0.000	0.000	0.000	25.000	25.000	25.000	1.000	.020	-0.000
X1	25.500	0.000	0.000	0.000	25.000	25.000	25.000	1.000	.020	-0.000
X1	26.000	0.000	0.000	0.000	500.000	50.000	50.000	1.000	.040	-0.000
X1	27.000	0.000	0.000	0.000	100.000	100.000	100.000	1.000	.080	-0.000
X1	40.000	22.000	1760.000	1785.000	1300.000	1300.000	1300.000	-0.000	-0.000	-0.000
GR	138.500	400.000	136.300	500.000	129.500	750.000	125.200	800.000	124.200	900.000
GR	123.900	1000.000	124.000	1100.000	123.500	1200.000	122.700	1300.000	122.500	1600.000
GR	122.900	1700.000	122.800	1760.000	120.200	1765.000	119.500	1770.000	119.500	1780.000
GR	122.700	1785.000	122.600	1900.000	123.000	2000.000	124.200	2200.000	124.000	2400.000
GR	129.800	2600.000	140.000	2700.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
X1	55.000	18.000	1300.000	1330.000	1500.000	1500.000	1500.000	-0.000	-0.000	-0.000
GR	140.000	0.000	132.000	80.000	130.000	95.000	126.000	110.000	124.000	200.000
GR	124.000	1300.000	120.000	1305.000	120.000	1325.000	124.000	1330.000	124.000	1400.000
GR	126.000	2150.000	128.000	2235.000	130.000	2285.000	132.000	2335.000	134.000	2375.000
GR	136.000	2440.000	138.000	2465.000	140.000	2500.000	-0.000	-0.000	-0.000	-0.000
X1	64.000	22.000	1100.000	1145.000	900.000	900.000	900.000	-0.000	-0.000	-0.000
GR	140.000	0.000	138.000	50.000	136.000	75.000	134.000	95.000	132.000	110.000
GR	130.000	120.000	128.000	140.000	125.000	200.000	125.000	1100.000	120.000	1115.000
GR	120.000	1120.000	120.000	1140.000	125.000	1145.000	125.000	1400.000	126.000	1430.000
GR	128.000	1460.000	130.000	1475.000	132.000	1500.000	134.000	1530.000	136.000	1580.000
GR	138.000	1640.000	140.000	1780.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
X1	80.000	0.000	0.000	0.000	1600.000	1600.000	1600.000	-0.000	-0.000	-0.000
X1	87.900	23.000	1310.000	1400.000	790.000	790.000	790.000	-0.000	-0.000	-0.000

33744

	152.000	0.000	144.000	200.000	129.800	500.000	126.500	1000.000	126.500	1200.000
GR	128.000	1300.000	128.000	1310.000	121.000	1330.000	120.500	1350.000	123.000	1360.000
GR	126.000	1368.000	128.500	1400.000	128.000	1430.000	127.000	1600.000	127.300	1790.000
GR	131.000	1815.000	132.000	1830.000	131.000	1832.000	131.000	1885.000	133.000	1890.000
GR	133.000	1920.000	139.200	2120.000	145.000	2140.000	-0.000	-0.000	-0.000	-0.000
X1	88.900	0.000	0.000	0.000	100.000	100.000	100.000	-0.000	-0.000	-0.000
X1	89.400	0.000	0.000	0.000	50.000	50.000	50.000	-0.000	-0.000	-0.000
X1	89.650	0.000	0.000	0.000	25.000	25.000	25.000	-0.000	-0.000	-0.000
X1	89.800	0.000	0.000	0.000	15.000	15.000	15.000	-0.000	-0.000	-0.000
X1	89.900	14.000	1280.000	1400.000	10.000	10.000	10.000	-0.000	-0.000	-0.000
X3	10.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	142.200	142.600	-0.000
GR	149.500	0.000	143.600	700.000	142.500	1000.000	142.200	1280.000	139.500	1281.000
GR	135.500	1305.000	127.700	1312.000	119.000	1350.000	119.500	1360.000	121.500	1370.000
GR	128.000	1380.000	139.500	1399.000	142.600	1400.000	147.800	2200.000	-0.000	-0.000
SB	1.250	1.500	3.000	0.000	40.000	10.000	1234.000	1.200	-0.000	-0.000
X1	90.100	0.000	0.000	0.000	20.000	20.000	20.000	-0.000	-0.000	-0.000
X2	0.000	0.000	1.000	139.500	142.200	-0.000	-0.000	-0.000	-0.000	-0.000
X3	10.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	142.200	142.600	-0.000
BT	6.000	0.000	149.500	149.500	700.000	143.600	143.600	1000.000	142.500	142.500
BT	1280.000	142.200	139.500	1400.000	142.600	139.500	2200.000	147.800	147.800	-0.000
X1	90.200	23.000	1310.000	1400.000	10.000	10.000	10.000	-0.000	-0.000	-0.000
GR	152.000	0.000	144.000	200.000	129.800	500.000	126.500	1000.000	126.500	1200.000
GR	128.000	1300.000	128.000	1310.000	121.000	1330.000	120.500	1350.000	123.000	1360.000
GR	126.000	1368.000	128.500	1400.000	128.000	1430.000	127.000	1600.000	127.300	1790.000
GR	131.000	1815.000	132.000	1830.000	131.000	1832.000	131.000	1885.000	133.000	1890.000
GR	133.000	1920.000	139.200	2120.000	145.000	2140.000	-0.000	-0.000	-0.000	-0.000
X1	90.350	0.000	0.000	0.000	15.000	15.000	15.000	-0.000	-0.000	-0.000
X1	90.600	0.000	0.000	0.000	25.000	25.000	25.000	-0.000	-0.000	-0.000
X1	91.100	0.000	0.000	0.000	50.000	50.000	50.000	-0.000	-0.000	-0.000
X1	92.100	0.000	0.000	0.000	100.000	100.000	100.000	-0.000	-0.000	-0.000
X1	107.000	0.000	0.000	0.000	1490.000	1490.000	1490.000	1.000	1.200	-0.000
X1	109.000	14.000	1148.000	1198.000	200.000	200.000	200.000	-0.000	-0.000	-0.000
GR	146.000	0.000	140.000	50.000	140.000	285.000	138.000	550.000	136.000	590.000
GR	134.000	870.000	128.000	1120.000	126.400	1148.000	121.700	1155.000	121.700	1195.000
GR	126.500	1198.000	128.000	1240.000	130.000	1630.000	146.000	1800.000	-0.000	-0.000
X1	117.600	12.000	685.000	740.000	860.000	860.000	860.000	-0.000	-0.000	-0.000
GR	144.000	0.000	142.000	80.000	135.800	210.000	134.000	355.000	130.000	380.000
GR	128.000	550.000	128.000	685.000	122.000	700.000	122.000	730.000	128.000	740.000
GR	130.000	1185.000	146.000	1320.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
X1	118.400	0.000	0.000	0.000	80.000	80.000	80.000	-0.000	-0.000	-0.000
X1	121.400	18.000	1520.000	1560.000	300.000	300.000	300.000	-0.000	-0.000	-0.000
GR	145.000	660.000	136.000	830.000	132.000	1010.000	131.200	1200.000	130.000	1350.000
GR	130.500	1400.000	131.500	1500.000	129.700	1520.000	128.500	1525.000	122.500	1555.000
GR	130.100	1560.000	132.000	1570.000	133.500	1600.000	134.500	2170.000	138.000	2457.000
GR	140.000	2655.000	142.000	2785.000	145.000	2970.000	-0.000	-0.000	-0.000	-0.000
X1	122.400	0.000	0.000	0.000	100.000	100.000	100.000	-0.000	-0.000	-0.000
X1	122.900	0.000	0.000	0.000	50.000	50.000	50.000	-0.000	-0.000	-0.000

[illegible]	123.150	0.000	0.000	0.000	25.000	25.000	25.000	-0.000	-0.000	-0.000
X1	123.300	0.000	0.000	0.000	15.000	15.000	15.000	-0.000	-0.000	-0.000
X1	123.400	15.000	1500.000	1590.000	10.000	10.000	10.000	-0.000	-0.000	-0.000
X3	10.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	135.100	135.100	-0.000
GR	144.000	310.000	136.000	880.000	135.100	1400.000	135.500	1500.000	132.500	1502.000
GR	128.600	1515.000	121.800	1530.000	120.400	1542.000	121.000	1560.000	126.000	1568.000
GR	133.000	1588.000	135.500	1590.000	135.100	1700.000	136.000	2175.000	145.000	2965.000
SB	1.250	1.500	3.000	0.000	30.000	5.000	652.000	1.500	-0.000	-0.000
X1	123.800	0.000	0.000	0.000	40.000	40.000	40.000	-0.000	-0.000	-0.000
X2	0.000	0.000	1.000	133.900	135.100	-0.000	-0.000	-0.000	-0.000	-0.000
X3	10.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	135.100	135.100	-0.000
BT	8.000	310.000	144.000	144.000	880.000	136.000	136.000	1400.000	135.100	135.100
BT	1500.000	135.500	133.900	1590.000	135.500	133.900	1700.000	135.100	135.100	2175.000
BT	136.000	136.000	2965.000	145.000	145.000	-0.000	-0.000	-0.000	-0.000	-0.000
X1	123.900	15.000	1520.000	1560.000	10.000	10.000	10.000	-0.000	-0.000	-0.000
GR	145.000	660.000	136.000	830.000	132.000	1010.000	131.200	1200.000	130.000	1350.000
GR	130.500	1400.000	131.500	1500.000	129.700	1520.000	122.500	1525.000	122.500	1555.000
GR	130.100	1560.000	131.000	2040.000	134.500	2170.000	140.000	2655.000	145.000	2970.000
X1	124.050	0.000	0.000	0.000	15.000	15.000	15.000	-0.000	-0.000	-0.000
X1	124.300	0.000	0.000	0.000	25.000	25.000	25.000	-0.000	-0.000	-0.000
X1	124.800	21.000	1236.000	1258.000	50.000	50.000	50.000	-0.000	-0.000	-0.000
GR	144.000	40.000	142.000	110.000	140.000	350.000	138.000	385.000	136.000	405.000
GR	134.000	430.000	132.000	490.000	130.000	700.000	130.000	1100.000	129.000	1215.000
GR	129.500	1230.000	129.500	1236.000	125.000	1245.000	125.000	1255.000	125.000	1254.000
GR	129.000	1258.000	129.500	1260.000	130.000	1485.000	140.000	1700.000	140.000	2150.000
GR	146.000	2600.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
X1	125.800	0.000	0.000	0.000	100.000	100.000	100.000	1.000	.500	-0.000
X1	127.900	0.000	0.000	0.000	210.000	210.000	210.000	11.000	.800	-0.000
X1	128.900	0.000	0.000	0.000	100.000	100.000	100.000	1.000	.500	-0.000
X1	129.400	0.000	0.000	0.000	50.000	50.000	50.000	1.000	.250	-0.000
X1	129.650	20.000	1215.000	1280.000	25.000	25.000	25.000	-0.000	-0.000	-0.000
GR	144.000	40.000	142.000	110.000	140.000	350.000	138.000	385.000	136.000	405.000
GR	134.000	430.000	132.000	490.000	130.000	700.000	130.000	1100.000	129.000	1215.000
GR	126.700	1225.000	126.500	1238.000	126.800	1248.000	125.500	1258.000	128.200	1268.000
GR	128.000	1280.000	130.000	1485.000	140.000	1700.000	140.000	2150.000	146.000	2600.000
X1	129.800	0.000	0.000	0.000	15.000	15.000	15.000	-0.000	-0.000	-0.000
X1	129.900	17.000	1200.000	1305.000	10.000	10.000	10.000	-0.000	-0.000	-0.000
X3	10.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	140.700	140.600	-0.000
GR	144.000	470.000	142.000	610.000	140.700	1200.000	138.400	1200.000	133.500	1205.000
GR	128.700	1218.000	126.700	1225.000	126.500	1238.000	126.800	1248.000	125.500	1258.000
GR	127.800	1278.000	131.500	1295.000	136.000	1303.000	138.400	1305.000	140.600	1305.000
GR	142.000	1875.000	144.000	2035.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
SB	1.250	1.500	3.000	0.000	70.000	10.000	900.000	2.000	-0.000	-0.000
X1	130.100	0.000	0.000	0.000	20.000	20.000	20.000	-0.000	-0.000	-0.000
X2	0.000	0.000	1.000	138.400	140.600	-0.000	-0.000	-0.000	-0.000	-0.000
X3	10.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	140.700	140.600	-0.000
BT	6.000	470.000	144.000	144.000	610.000	142.000	142.000	1200.000	140.700	138.400
BT	1305.000	140.600	138.400	1875.000	142.000	142.000	2035.000	144.000	144.000	-0.000
X1	130.200	20.000	1215.000	1280.000	10.000	10.000	10.000	-0.000	-0.000	-0.000
GR	144.000	40.000	142.000	110.000	140.000	350.000	138.000	385.000	136.000	405.000

33745

	134.000	430,000	132.000	490.000	130.000	700.000	130.000	1100.000	129.000	1215.000
GR	126.700	1225.000	126.500	1238.000	126.800	1248.000	125.500	1258.000	128.200	1268.000
GR	128.000	1280.000	130.000	1485.000	140.000	1700.000	140.000	2150.000	146.000	2600.000
X1	130.350	0.000	0.000	0.000	15.000	15.000	15.000	-0.000	-0.000	-0.000
X1	130.600	0.000	0.000	0.000	25.000	25.000	25.000	-0.000	-0.000	-0.000
X1	131.100	0.000	0.000	0.000	50.000	50.000	50.000	-0.000	-0.000	-0.000
X1	132.100	16.000	795.000	815.000	100.000	100.000	100.000	-0.000	-0.000	-0.000
GR	140.000	0.000	138.000	60.000	136.000	80.000	138.000	105.000	132.000	135.000
GR	130.000	370.000	128.000	795.000	126.000	800.000	126.000	815.000	128.000	820.000
GR	130.000	860.000	132.000	1110.000	134.000	1600.000	136.000	1700.000	138.000	1790.000
GR	140.000	1900.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
X1	140.000	0.000	0.000	0.000	790.000	790.000	790.000	1.000	1.600	-0.000
X1	150.050	15.000	825.000	852.000	1005.000	1005.000	1005.000	-0.000	-0.000	-0.000
GR	143.500	0.000	140.000	100.000	134.000	200.000	132.000	280.000	131.800	500.000
GR	132.600	700.000	132.000	825.000	129.900	835.000	129.900	845.000	132.300	852.000
GR	132.800	1000.000	134.300	1100.000	137.500	1125.000	140.000	1325.000	144.000	1455.000
X1	151.050	0.000	0.000	0.000	100.000	100.000	100.000	1.000	.200	-0.000
X1	151.550	0.000	0.000	0.000	50.000	50.000	50.000	1.000	.100	-0.000
X1	151.800	0.000	0.000	0.000	25.000	25.000	25.000	-0.000	-0.000	-0.000
X1	151.950	19.000	825.000	865.000	15.000	15.000	15.000	-0.000	-0.000	-0.000
GR	143.500	0.000	140.000	100.000	134.000	200.000	132.500	292.000	130.000	293.000
GR	130.000	297.000	132.500	298.000	132.500	700.000	132.200	825.000	126.200	835.000
GR	124.200	845.000	126.200	850.000	130.600	860.000	132.200	865.000	132.800	1000.000
GR	134.300	1100.000	137.500	1125.000	140.000	1325.000	144.000	1455.000	-0.000	-0.000
X1	152.050	29.000	821.000	874.000	10.000	10.000	10.000	-0.000	-0.000	-0.000
X3	10.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	132.200	132.200	-0.000
GR	143.500	0.000	140.000	100.000	137.200	200.000	136.300	292.500	132.500	292.500
GR	131.000	293.000	130.500	293.500	130.200	294.000	130.100	294.500	130.000	295.000
GR	130.100	295.500	130.200	296.000	130.500	296.500	131.000	297.000	132.500	297.500
GR	136.300	297.500	135.700	400.000	135.500	700.000	136.200	821.000	132.200	825.000
GR	126.200	835.000	124.200	845.000	126.200	850.000	130.600	870.000	135.500	872.000
GR	136.500	874.000	136.500	1000.000	140.000	1325.000	144.000	1455.000	-0.000	-0.000
SB	1.250	1.500	3.000	0.000	20.000	2.000	322.000	1.000	-0.000	-0.000
X1	152.450	0.000	0.000	0.000	40.000	40.000	40.000	-0.000	-0.000	-0.000
X2	0.000	0.000	1.000	135.500	135.500	-0.000	-0.000	-0.000	-0.000	-0.000
X3	10.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	132.200	132.200	-0.000
BT	21.000	0.000	143.500	143.500	100.000	140.000	140.000	200.000	137.200	137.200
BT	292.500	136.300	132.500	293.000	136.300	134.000	293.500	136.300	134.500	294.000
BT	136.300	134.800	294.500	136.300	134.900	295.000	136.300	135.000	295.500	136.300
BT	134.900	296.000	136.300	134.800	296.500	136.300	134.500	297.000	136.300	134.000
BT	297.500	136.300	132.500	400.000	135.700	135.700	700.000	135.500	135.500	821.000
BT	136.200	135.500	834.000	136.500	135.500	1000.000	136.500	136.500	1325.000	140.000
BT	140.000	1455.000	144.000	144.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
X1	152.550	19.000	825.000	865.000	10.000	10.000	10.000	-0.000	-0.000	-0.000
GR	143.500	0.000	140.000	100.000	134.000	200.000	132.500	292.000	130.000	293.000
GR	130.000	297.000	132.500	298.000	132.500	700.000	132.200	825.000	126.200	835.000
GR	124.200	845.000	126.200	850.000	130.600	860.000	132.200	865.000	132.800	1000.000
GR	134.300	1100.000	137.500	1125.000	140.000	1325.000	144.000	1455.000	-0.000	-0.000
X1	152.700	0.000	0.000	0.000	15.000	15.000	15.000	-0.000	-0.000	-0.000
X1	152.950	0.000	0.000	0.000	25.000	25.000	25.000	-0.000	-0.000	-0.000

	153.450	0.000	0.000	0.000	50.000	50.000	50.000	-0.000	-0.000	-0.000
X1	154.450	20,000	825.000	854.000	100.000	100.000	-0.000	-0.000	-0.000	-0.000
GR	143.500	0,000	140.000	100.000	134.000	200.000	132.000	292.000	130.000	293.000
GR	130.000	297,000	132.000	298.000	132.500	700.000	132.000	820.000	131.500	825.000
GR	128.500	828.000	127.600	830.000	127.600	846.000	131.600	854.000	132.200	856.000
GR	132.800	1000.000	134.300	1100.000	137.500	1125.000	140.000	1325.000	144.000	1455.000
QT	5.000	2800.000	4000.000	4520.000	4520.000	6400.000	-0.000	-0.000	-0.000	-0.000
X1	163.500	23,000	1020.000	1045.000	905.000	905.000	905.000	-0.000	-0.000	-0.000
GR	150.000	0.000	148.000	40.000	146.000	60.000	144.000	90.000	142.000	110.000
GR	140.000	130.000	138.000	150.000	136.000	220.000	134.000	425.000	133.500	1020.000
GR	128.800	1023,000	128.800	1042.000	133.500	1045.000	134.000	1075.000	136.000	1130.000
GR	136.000	1200,000	138.000	1220.000	140.000	1250.000	142.000	1420.000	144.000	1450.000
GR	146.000	1500.000	148.000	1590.000	150.000	1610.000	-0.000	-0.000	-0.000	-0.000
X1	173.500	23,000	845.000	873.000	1000.000	1000.000	1000.000	-0.000	-0.000	-0.000
GR	150.000	0.000	148.000	20.000	146.000	35.000	144.000	70.000	142.000	100.000
GR	140.000	145,000	138.000	200.000	136.000	530.000	134.000	750.000	134.600	845.000
GR	133.400	848,000	129.900	859.000	133.400	870.000	135.300	873.000	135.100	973.000
GR	136.000	1080,000	138.000	1110.000	140.000	1150.000	142.000	1330.000	144.000	1450.000
GR	146.000	1520.000	148.000	1570.000	150.000	1600.000	-0.000	-0.000	-0.000	-0.000
X1	183.500	22,000	730.000	780.000	1000.000	1000.000	1000.000	-0.000	-0.000	-0.000
GR	150.000	0,000	148.000	110.000	146.000	200.000	144.000	265.000	142.000	295.000
GR	140.000	330,000	138.000	415.000	136.000	595.000	135.000	730.000	130.000	735.000
GR	130.000	775,000	135.000	780.000	136.000	840.000	136.000	1120.000	136.000	1540.000
GR	138.000	1560,000	140.000	1580.000	142.000	1595.000	144.000	1610.000	146.000	1620.000
GR	148.000	1640.000	150.000	1655.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
X1	188.000	16,000	900.000	922.000	450.000	450.000	450.000	-0.000	-0.000	-0.000
GR	150.000	0.000	148.000	70.000	146.000	140.000	144.000	250.000	142.000	290.000
GR	140.000	340,000	138.000	390.000	137.800	900.000	131.900	906.000	130.000	911.000
GR	131.900	916,000	137.800	922.000	138.000	1070.000	138.000	1070.000	140.000	1215.000
GR	150.000	1270,000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
EJ	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000

33746

```
**********************************************
HEC2 VERSION UPDATED JULY 1975
ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09
MODIFICATIONS 52,53,54,55,56,57,58
**********************************************


T1      SUMTER SOUTH CAROLINA
T2      50 YEAR
T3      GREEN SWAMP BELOW SECOND MILL POND

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ
        0.        3.        0.        0.     .000100      0.00      0.0       0.   125.800      0.000
J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE
        2.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000
```

33754

```
*******************************************
HEC2 VERSION UPDATED JULY 1975
ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09
MODIFICATIONS 52,53,54,55,56,57,58
*******************************************


T1       SUMTER SOUTH CAROLINA
T2       50 YEAR
T3       GREEN SWAMP BELOW SECOND MILL POND

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      -0.       3.       -0.       -0.    .000100     -0.00      -0.0      -0.    125.800    -0.000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     2.000    -0.000    -0.000    -0.000    -0.000    -0.000    -0.000    -0.000    -0.000    -0.000
```

33754

```
*****************************************
HEC2 VERSION UPDATED JULY 1975
ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09
MODIFICATIONS 52,53,54,55,56,57,58
*****************************************


T1       SUMTER SOUTH CAROLINA
T2       100 YEAR
T3       GREEN SWAMP BELOW SECOND MILL POND

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      -0.       4.       -0.       -0.   .000100     -0.00      -0.0      -0.   126.100    -0.000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

      3.000    -0.000    -0.000    -0.000    -0.000    -0.000    -0.000    -0.000    -0.000    -0.000
```

33762

```
*******************************************
HEC2 VERSION UPDATED JULY 1975
ERROR CORRECTIONS 01,02,03,04,05,06,07,08,09
MODIFICATIONS 52,53,54,55,56,57,58
*******************************************


T1       SUMTER SOUTH CAROLINA
T2       500 YEAR
T3       GREEN SWAMP BELOW SECOND MILL POND

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

     -0.        6.       -0.       -0.    .000100    -0.00      -0.0      -0.    129.000    -0.000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    15.000    -0.000    -0.000    -0.000    -0.000    -0.000    -0.000    -0.000    -0.000    -0.000
```

33770

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

GREEN SWAMP BELOW SECOND

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWID	10K*S	TIME	VOL
25.00	-0.00	0.00	0.00	119.30	3200.00	127.00	0.00	127.00	1564.68	1.00	0.00	0.00
25.00	-0.00	0.00	0.00	119.30	4500.00	128.23	0.00	128.24	1655.52	1.00	0.00	0.00
25.00	-0.00	0.00	0.00	119.30	5200.00	128.83	0.00	128.83	1707.36	1.00	0.00	0.00
25.00	-0.00	0.00	0.00	119.30	7200.00	130.30	0.00	130.30	1850.90	1.02	0.00	0.00
25.25	25.00	0.00	0.00	119.32	3200.00	127.00	0.00	127.00	1563.46	1.01	.02	4.67
25.25	25.00	0.00	0.00	119.32	4500.00	128.24	0.00	128.24	1653.99	1.01	.02	5.82
25.25	25.00	0.00	0.00	119.32	5200.00	128.83	0.00	128.83	1705.83	1.01	.01	6.39
25.25	25.00	0.00	0.00	119.32	7200.00	130.30	0.00	130.30	1848.50	1.03	.01	7.88
25.50	25.00	0.00	0.00	119.34	3200.00	127.00	0.00	127.00	1562.23	1.02	.03	9.33
25.50	25.00	0.00	0.00	119.34	4500.00	128.24	0.00	128.24	1652.46	1.02	.03	11.61
25.50	25.00	0.00	0.00	119.34	5200.00	128.83	0.00	128.84	1704.30	1.02	.03	12.76
25.50	25.00	0.00	0.00	119.34	7200.00	130.30	0.00	130.31	1846.10	1.03	.03	15.79
26.00	50.00	0.00	0.00	119.38	3200.00	127.03	0.00	127.03	1560.86	1.03	.21	58.71
26.00	50.00	0.00	0.00	119.38	4500.00	128.27	0.00	128.27	1650.74	1.03	.19	72.86
26.00	50.00	0.00	0.00	119.38	5200.00	128.86	0.00	128.86	1702.58	1.03	.18	79.81
26.00	50.00	0.00	0.00	119.38	7200.00	130.33	0.00	130.33	1843.43	1.04	.16	97.60
27.00	100.00	0.00	0.00	119.46	3200.00	127.04	0.00	127.04	1555.98	1.08	.88	77.11
27.00	100.00	0.00	0.00	119.46	4500.00	128.28	0.00	128.28	1644.63	1.07	.85	95.82
27.00	100.00	0.00	0.00	119.46	5200.00	128.87	0.00	128.87	1696.48	1.06	.24	105.04
27.00	100.00	0.00	0.00	119.46	7200.00	130.34	0.00	130.34	1833.86	1.07	.21	128.79
40.00	1300.00	0.00	0.00	119.50	3200.00	127.24	0.00	127.24	1735.42	2.45	.99	292.58
40.00	1300.00	0.00	0.00	119.50	4500.00	128.46	0.00	128.46	1791.70	1.98	.93	372.98
40.00	1300.00	0.00	0.00	119.50	5200.00	129.05	0.00	129.05	1818.74	1.83	.90	412.77
40.00	1300.00	0.00	0.00	119.50	7200.00	130.51	0.00	130.51	1894.03	1.62	.83	515.70
55.00	1500.00	0.00	0.00	120.00	3200.00	127.63	0.00	127.64	2119.53	2.82	1.82	520.08
55.00	1500.00	0.00	0.00	120.00	4500.00	128.77	0.00	128.77	2150.51	2.10	1.75	679.22
55.00	1500.00	0.00	0.00	120.00	5200.00	129.33	0.00	129.33	2170.62	1.88	1.71	758.09
55.00	1500.00	0.00	0.00	120.00	7200.00	130.75	0.00	130.75	2214.28	1.55	1.59	961.41
64.00	900.00	0.00	0.00	120.00	3200.00	128.02	0.00	128.04	1320.35	7.88	2.10	630.93
64.00	900.00	0.00	0.00	120.00	4500.00	129.06	0.00	129.07	1338.51	6.18	2.02	829.32
64.00	900.00	0.00	0.00	120.00	5200.00	129.59	0.00	129.60	1347.78	5.58	1.98	928.06
64.00	900.00	0.00	0.00	120.00	7200.00	130.96	0.00	130.98	1371.81	4.57	1.85	1182.84
80.00	1600.00	0.00	0.00	120.00	3200.00	128.86	0.00	128.86	1335.11	3.65	2.75	798.29
80.00	1600.00	0.00	0.00	120.00	4500.00	129.80	0.00	129.81	1351.57	3.60	2.61	1045.22
80.00	1600.00	0.00	0.00	120.00	5200.00	130.29	0.00	130.30	1360.09	3.52	2.55	1169.15
80.00	1600.00	0.00	0.00	120.00	7200.00	131.58	0.00	131.59	1382.66	3.30	2.37	1490.71
87.90	790.00	0.00	0.00	120.50	3200.00	129.40	0.00	129.44	1243.56	21.02	2.89	869.18
87.90	790.00	0.00	0.00	120.50	4500.00	130.30	0.00	130.33	1320.76	15.31	2.77	1138.12
87.90	790.00	0.00	0.00	120.50	5200.00	130.75	0.00	130.79	1333.52	13.25	2.71	1273.58
87.90	790.00	0.00	0.00	120.50	7200.00	131.98	0.00	132.01	1435.20	9.68	2.54	1626.68

33728

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWID	10K*S	TIME	VOL
88,90	100,00	0,00	0.00	120,50	3200.00	129,59	0.00	129,63	1274.40	16,68	2.92	875,66
88,90	100,00	0,00	0.00	120,50	4500.00	130,44	0.00	130,47	1324.84	13,29	2.79	1147,22
88,90	100,00	0,00	0.00	120,50	5200.00	130,88	0.00	130,91	1337.09	11,84	2.73	1284,01
88,90	100,00	0,00	0.00	120.50	7200.00	132.08	0.00	132.10	1435.78	9.07	2.57	1641.04
89,40	50,00	0,00	0.00	120,50	3200.00	129,68	0.00	129,71	1288.38	15,08	2.93	879,11
89,40	50,00	0,00	0.00	120,50	4500.00	130,51	0.00	130,54	1326.83	12,38	2.81	1154,93
89,40	50,00	0,00	0.00	120,50	5200.00	130,94	0.00	130,97	1338.84	11,22	2.74	1289,38
89,40	50.00	0.00	0.00	120.50	7200.00	132.12	0.00	132.15	1436.88	8.78	2.58	1648.33
89,65	25,00	0,00	0.00	120,50	3200.00	129,72	0.00	129,75	1298.66	14,43	2.93	880,88
89,65	25,00	0,00	0.00	120,50	4500.00	130,54	0.00	130,57	1327.73	12,01	2.81	1154,33
89,65	25,00	0,00	0.00	120,50	5200.00	130,97	0.00	131,00	1339.64	10,94	2.75	1292,11
89,65	25,00	0,00	0.00	120,50	7200.00	132,14	0.00	132,17	1439,41	8,65	2,98	1652,01
89,80	15,00	0,00	0.00	120,50	3200.00	129,74	0.00	129,77	1298.16	14,08	2.94	881,96
89,80	15,00	0,00	0.00	120,50	4500.00	130,56	0.00	130,59	1328.24	11,80	2.81	1155,78
89,80	15,00	0,00	0.00	120,50	5200.00	130,99	0.00	131,01	1340.11	10,79	2.75	1293,75
89,80	15,00	0,00	0.00	120.50	7200.00	132.16	0.00	132.18	1437.72	8.58	2.59	1654.22
89,90	10,00	0,00	0.00	119,00	3200.00	129,06	0.00	129,86	70.97	138,93	2.94	882,37
89,90	10,00	0,00	0.00	119,00	4500.00	129,24	0.00	130,74	71.46	251,38	2.81	1156,31
89,90	10,00	0,00	0.00	119,00	5200.00	129,16	0.00	131,21	71.23	350,09	2.75	1294,36
89,90	10,00	0,00	0.00	119,00	7200.00	129,61	129,61	133,03	72,37	547,65	2,59	1655,02
90,10	20,00	142,20	139,50	119,00	3200.00	129,68	0.00	130,34	72,54	105,06	2.94	882,59
90,10	20,00	142,20	139,50	119,00	4500.00	130,90	0.00	131,84	73.67	125,93	2.82	1156,58
90,10	20,00	142,20	139,50	119,00	5200.00	130,72	0.00	132,03	73,21	180,29	2.75	1294,59
90.10	20.00	142.20	139.50	119.00	7200.00	133.02	0.00	134.46	81.07	155.65	2.59	1655.30
90,20	10,00	0,00	0.00	120,50	3200.00	130,38	0.00	130,39	1323.05	7,14	2.94	883,10
90,20	10,00	0,00	0.00	120,50	4500.00	131,89	0.00	131,90	1429.57	4,03	2.82	1157,31
90,20	10,00	0,00	0.00	120,50	5200.00	132,11	0.00	132,12	1436.47	4,64	2.76	1295,38
90,20	10,00	0,00	0.00	120,50	7200.00	134,55	0.00	134,56	1570,24	2,25	2,59	1656,54
90,35	15,00	0,00	0.00	120,50	3200.00	130,39	0.00	130,41	1323,33	7,07	2.94	884,49
90,35	15,00	0,00	0.00	120,50	4500.00	131,90	0.00	131,91	1429,81	4,01	2.82	1159,40
90,35	15,00	0,00	0.00	120,50	5200.00	132,11	0.00	132,13	1436,63	4,61	2.76	1297,58
90.35	15.00	0.00	0.00	120.50	7200.00	134.55	0.00	134.56	1570.42	2.25	2.60	1659.99
90,60	25,00	0,00	0.00	120,50	3200.00	130,41	0.00	130,42	1323,82	6,94	2.95	886,76
90,60	25,00	0,00	0.00	120,50	4500.00	131,91	0.00	131,92	1430,21	3,98	2.83	1162,89
90,60	25,00	0,00	0.00	120,50	5200.00	132,12	0.00	132,14	1436,91	4,58	2.77	1301,24
90,60	25,00	0,00	0.00	120,50	7200.00	134,56	0.00	134,57	1570,72	2,24	2,61	1665,75
91,10	50,00	0,00	0.00	120,50	3200.00	130,44	0.00	130,46	1324,80	6,71	2.97	891,39
91,10	50,00	0,00	0.00	120,50	4500.00	131,93	0.00	131,94	1431,03	3,93	2.85	1169,88
91,10	50,00	0,00	0.00	120,50	5200.00	132,15	0.00	132,16	1437,45	4,51	2.78	1308,60
91.10	50.00	0.00	0.00	120.50	7200.00	134.57	0.00	134.58	1571.32	2.23	2.62	1677.29

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWID	10K*S	TIME	VOL
88.90	100.00	0.00	0.00	120.50	3200.00	129.59	0.00	129.63	1274.40	16.68	2.92	875.66
88.90	100.00	0.00	0.00	120.50	4500.00	130.44	0.00	130.47	1324.84	13.25	2.79	1147.22
88.90	100.00	0.00	0.00	120.50	5200.00	130.88	0.00	130.91	1339.09	11.84	2.73	1284.01
88.90	100.00	0.00	0.00	120.50	7200.00	132.08	0.00	132.10	1439.78	9.07	2.57	1641.04
89.40	50.00	0.00	0.00	120.50	3200.00	129.68	0.00	129.71	1288.38	15.08	2.53	879.11
89.40	50.00	0.00	0.00	120.50	4500.00	130.51	0.00	130.54	1326.83	12.38	2.81	1151.93
89.40	50.00	0.00	0.00	120.50	5200.00	130.94	0.00	130.97	1339.84	11.22	2.74	1289.38
89.40	50.00	0.00	0.00	120.50	7200.00	132.12	0.00	132.15	1436.88	8.78	2.58	1648.33
89.65	25.00	0.00	0.00	120.50	3200.00	129.72	0.00	129.75	1298.66	14.43	2.93	880.88
89.65	25.00	0.00	0.00	120.50	4500.00	130.54	0.00	130.57	1327.73	12.01	2.81	1154.33
89.65	25.00	0.00	0.00	120.50	5200.00	130.97	0.00	131.00	1339.64	10.94	2.75	1292.11
89.65	25.00	0.00	0.00	120.50	7200.00	132.14	0.00	132.17	1437.41	8.65	2.58	1652.01
89.80	15.00	0.00	0.00	120.50	3200.00	129.74	0.00	129.77	1298.16	14.08	2.94	881.96
89.80	15.00	0.00	0.00	120.50	4500.00	130.56	0.00	130.59	1328.24	11.80	2.81	1155.78
89.80	15.00	0.00	0.00	120.50	5200.00	130.99	0.00	131.01	1340.11	10.79	2.75	1293.75
89.80	15.00	0.00	0.00	120.50	7200.00	132.16	0.00	132.18	1439.72	8.58	2.59	1654.28
89.90	10.00	0.00	0.00	119.00	3200.00	129.06	0.00	129.86	70.97	138.93	2.94	882.37
89.90	10.00	0.00	0.00	119.00	4500.00	129.24	0.00	130.74	71.46	251.38	2.81	1156.31
89.90	10.00	0.00	0.00	119.00	5200.00	129.14	0.00	131.21	71.23	350.09	2.75	1294.36
89.90	10.00	0.00	0.00	119.00	7200.00	129.61	129.61	133.03	72.37	547.65	2.59	1655.02
90.10	20.00	142.20	139.50	119.00	3200.00	129.68	0.00	130.34	72.54	105.06	2.94	882.59
90.10	20.00	142.20	139.50	119.00	4500.00	130.90	0.00	131.84	73.67	125.93	2.82	1156.58
90.10	20.00	142.20	139.50	119.00	5200.00	130.72	0.00	132.03	73.21	180.29	2.75	1294.59
90.10	20.00	142.20	139.50	119.00	7200.00	133.02	0.00	134.46	81.07	155.65	2.59	1655.30
90.20	10.00	0.00	0.00	120.50	3200.00	130.38	0.00	130.39	1323.05	7.14	2.94	883.10
90.20	10.00	0.00	0.00	120.50	4500.00	131.89	0.00	131.90	1429.57	4.03	2.82	1157.31
90.20	10.00	0.00	0.00	120.50	5200.00	132.11	0.00	132.12	1436.47	4.64	2.76	1295.38
90.20	10.00	0.00	0.00	120.50	7200.00	134.55	0.00	134.56	1570.24	2.25	2.59	1656.54
90.35	15.00	0.00	0.00	120.50	3200.00	130.39	0.00	130.41	1323.33	7.07	2.94	884.49
90.35	15.00	0.00	0.00	120.50	4500.00	131.90	0.00	131.91	1429.81	4.01	2.82	1159.40
90.35	15.00	0.00	0.00	120.50	5200.00	132.11	0.00	132.13	1436.63	4.61	2.76	1297.58
90.35	15.00	0.00	0.00	120.50	7200.00	134.55	0.00	134.56	1570.42	2.25	2.60	1659.99
90.60	25.00	0.00	0.00	120.50	3200.00	130.41	0.00	130.42	1323.82	6.94	2.95	886.76
90.60	25.00	0.00	0.00	120.50	4500.00	131.91	0.00	131.92	1430.21	3.98	2.83	1162.89
90.60	25.00	0.00	0.00	120.50	5200.00	132.12	0.00	132.14	1436.91	4.58	2.77	1301.24
90.60	25.00	0.00	0.00	120.50	7200.00	134.56	0.00	134.57	1570.72	2.24	2.61	1665.75
91.10	50.00	0.00	0.00	120.50	3200.00	130.44	0.00	130.46	1324.80	6.71	2.97	891.39
91.10	50.00	0.00	0.00	120.50	4500.00	131.93	0.00	131.94	1431.03	3.93	2.85	1169.88
91.10	50.00	0.00	0.00	120.50	5200.00	132.15	0.00	132.16	1437.45	4.51	2.78	1308.60
91.10	50.00	0.00	0.00	120.50	7200.00	134.57	0.00	134.58	1571.32	2.23	2.62	1677.29

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWID	10K*S	TIME	VOL
92.10	100.00	0.00	0.00	120.50	3200.00	130.51	0.00	130.52	1326.70	6.29	3.00	900.81
92.10	100.00	0.00	0.00	120.50	4500.00	131.97	0.00	131.98	1438.63	3.82	2.88	1183.97
92.10	100.00	0.00	0.00	120.50	5200.00	132.19	0.00	132.21	1438.52	4.37	2.82	1323.42
92.10	100.00	0.00	0.00	120.50	7200.00	134.59	0.00	134.60	1572.51	2.21	2.66	1700.42
107.00	1490.00	0.00	0.00	121.70	3200.00	131.53	0.00	131.54	1321.60	7.51	3.43	1038.58
107.00	1490.00	0.00	0.00	121.70	4500.00	132.65	0.00	132.66	1411.44	5.60	3.33	1382.20
107.00	1490.00	0.00	0.00	121.70	5200.00	132.95	0.00	132.96	1425.62	5.97	3.24	1534.45
107.00	1490.00	0.00	0.00	121.70	7200.00	134.98	0.00	135.00	1529.51	3.29	3.13	2024.28
109.00	200.00	0.00	0.00	121.70	3200.00	131.68	0.00	131.77	680.78	16.75	3.46	1052.36
109.00	200.00	0.00	0.00	121.70	4500.00	132.76	0.00	132.84	737.65	15.34	3.36	1401.30
109.00	200.00	0.00	0.00	121.70	5200.00	133.07	0.00	133.16	755.22	16.93	3.26	1555.04
109.00	200.00	0.00	0.00	121.70	7200.00	135.05	0.00	135.11	959.13	10.61	3.17	2055.53
117.60	860.00	0.00	0.00	122.00	3200.00	132.59	0.00	132.61	845.00	6.45	3.66	1106.71
117.60	860.00	0.00	0.00	122.00	4500.00	133.63	0.00	133.66	858.31	6.43	3.55	1472.02
117.60	860.00	0.00	0.00	122.00	5200.00	134.01	0.00	134.04	864.72	6.88	3.45	1631.19
117.60	860.00	0.00	0.00	122.00	7200.00	135.72	0.00	135.75	1017.26	5.54	3.35	2163.88
118.40	80.00	0.00	0.00	122.00	3200.00	132.64	0.00	132.66	845.77	6.21	3.68	1112.96
118.40	80.00	0.00	0.00	122.00	4500.00	133.68	0.00	133.71	859.07	6.20	3.57	1479.90
118.40	80.00	0.00	0.00	122.00	5200.00	134.07	0.00	134.10	869.62	6.67	3.46	1639.67
118.40	80.00	0.00	0.00	122.00	7200.00	135.77	0.00	135.80	1021.21	5.45	3.37	2175.38
121.40	300.00	0.00	0.00	122.50	3200.00	132.83	0.00	133.09	613.91	48.78	3.71	1129.38
121.40	300.00	0.00	0.00	122.50	4500.00	133.92	0.00	134.10	913.04	37.64	3.60	1501.96
121.40	300.00	0.00	0.00	122.50	5200.00	134.33	0.00	134.50	1166.62	35.68	3.49	1664.35
121.40	300.00	0.00	0.00	122.50	7200.00	135.99	0.00	136.07	1462.37	17.59	3.41	2213.31
122.40	100.00	0.00	0.00	122.50	3200.00	133.32	0.00	133.48	646.00	31.33	3.72	1132.81
122.40	100.00	0.00	0.00	122.50	4500.00	134.29	0.00	134.42	1144.16	27.54	3.61	1507.21
122.40	100.00	0.00	0.00	122.50	5200.00	134.68	0.00	134.81	1295.80	26.38	3.50	1670.69
122.40	100.00	0.00	0.00	122.50	7200.00	136.17	0.00	136.24	1480.13	15.45	3.43	2224.57
122.90	50.00	0.00	0.00	122.50	3200.00	133.49	0.00	133.63	656.94	27.13	3.72	1134.77
122.90	50.00	0.00	0.00	122.50	4500.00	134.44	0.00	134.55	1239.46	24.21	3.62	1510.16
122.90	50.00	0.00	0.00	122.50	5200.00	134.82	0.00	134.93	1314.56	23.24	3.51	1674.17
122.90	50.00	0.00	0.00	122.50	7200.00	136.25	0.00	136.31	1488.46	14.54	3.43	2230.48
123.15	25.00	0.00	0.00	122.50	3200.00	133.57	0.00	133.69	697.13	25.50	3.73	1135.80
123.15	25.00	0.00	0.00	122.50	4500.00	134.50	0.00	134.61	1273.89	22.93	3.62	1511.72
123.15	25.00	0.00	0.00	122.50	5200.00	134.89	0.00	134.99	1322.44	22.05	3.51	1676.01
123.15	25.00	0.00	0.00	122.50	7200.00	136.29	0.00	136.35	1492.25	14.15	3.44	2233.39
123.30	15.00	0.00	0.00	122.50	3200.00	133.61	0.00	133.73	721.41	24.67	3.73	1136.42
123.30	15.00	0.00	0.00	122.50	4500.00	134.54	0.00	134.65	1278.38	22.24	3.62	1512.67
123.30	15.00	0.00	0.00	122.50	5200.00	134.92	0.00	135.02	1326.75	21.43	3.51	1677.13
123.30	15.00	0.00	0.00	122.50	7200.00	136.31	0.00	136.37	1494.42	13.93	3.44	2235.19

6783

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWTD	10K*S	TIME	VOL
123.40	10.00	0.00	0.00	120.40	3200.00	133.45	0.00	133.78	87.00	41.06	3.73	1136.72
123.40	10.00	0.00	0.00	120.40	4500.00	134.17	0.00	134.72	88.06	62.41	3.62	1513.08
123.40	10.00	0.00	0.00	120.40	5200.00	134.42	0.00	135.10	88.42	76.50	3.52	1677.60
123.40	10.00	0.00	0.00	120.40	7200.00	135.44	130.93	136.48	648.97	104.34	3.44	2235.91
123.80	40.00	135.10	133.90	120.40	3200.00	133.53	0.00	133.85	87.11	39.92	3.73	1137.36
123.80	40.00	135.10	133.90	120.40	4500.00	134.79	0.00	135.26	88.95	50.75	3.62	1513.80
123.80	40.00	135.10	133.90	120.40	5200.00	135.07	0.00	135.66	89.37	61.76	3.52	1678.35
123.80	40.00	135.10	133.90	120.40	7200.00	135.44	0.00	136.48	645.39	104.33	3.44	2236.80
123.90	10.00	0.00	0.00	122.50	3200.00	133.85	0.00	133.88	1219.51	7.58	3.73	1137.86
123.90	10.00	0.00	0.00	122.50	4500.00	135.28	0.00	135.30	1376.32	4.91	3.63	1514.53
123.90	10.00	0.00	0.00	122.50	5200.00	135.69	0.00	135.71	1431.39	4.97	3.52	1679.14
123.90	10.00	0.00	0.00	122.50	7200.00	136.53	0.00	136.55	1529.33	5.68	3.44	2237.75
124.05	15.00	0.00	0.00	122.50	3200.00	133.87	0.00	133.89	1220.41	7.51	3.74	1139.13
124.05	15.00	0.00	0.00	122.50	4500.00	135.29	0.00	135.30	1377.25	4.89	3.63	1516.43
124.05	15.00	0.00	0.00	122.50	5200.00	135.70	0.00	135.72	1432.32	4.95	3.52	1681.28
124.05	15.00	0.00	0.00	122.50	7200.00	136.54	0.00	136.56	1530.06	5.66	3.45	2240.28
124.30	25.00	0.00	0.00	122.50	3200.00	133.88	0.00	133.91	1221.96	7.38	3.74	1141.26
124.30	25.00	0.00	0.00	122.50	4500.00	135.30	0.00	135.32	1378.89	4.85	3.64	1519.61
124.30	25.00	0.00	0.00	122.50	5200.00	135.71	0.00	135.73	1433.97	4.91	3.53	1684.79
124.30	25.00	0.00	0.00	122.50	7200.00	136.55	0.00	136.58	1531.98	5.61	3.45	2244.51
124.80	50.00	0.00	0.00	123.00	3200.00	133.93	0.00	133.94	1139.24	5.86	3.76	1145.78
124.80	50.00	0.00	0.00	123.00	4500.00	135.33	0.00	135.34	1189.99	4.22	3.66	1526.10
124.80	50.00	0.00	0.00	123.00	5200.00	135.74	0.00	135.75	1200.06	4.38	3.55	1691.87
124.80	50.00	0.00	0.00	123.00	7200.00	136.59	0.00	136.60	1227.34	5.25	3.47	2252.93
125.80	100.00	0.00	0.00	123.50	3200.00	134.00	0.00	134.01	1110.90	8.56	3.79	1154.76
125.80	100.00	0.00	0.00	123.50	4500.00	135.37	0.00	135.39	1170.93	5.69	3.69	1538.76
125.80	100.00	0.00	0.00	123.50	5200.00	135.79	0.00	135.80	1184.64	5.78	3.58	1705.69
125.80	100.00	0.00	0.00	123.50	7200.00	136.64	0.00	136.66	1213.30	6.67	3.49	2269.06
127.90	210.00	0.00	0.00	124.30	3200.00	134.02	0.00	134.03	11828.62	.15	4.27	1238.53
127.90	210.00	0.00	0.00	124.30	4500.00	135.39	0.00	135.39	12586.22	.08	4.25	1666.65
127.90	210.00	0.00	0.00	124.30	5200.00	135.81	0.00	135.81	12741.81	.08	4.13	1847.42
127.90	210.00	0.00	0.00	124.30	7200.00	136.67	0.00	136.67	13063.08	.08	3.98	2440.01
128.90	100.00	0.00	0.00	124.80	3200.00	134.03	0.00	134.03	11546.38	.27	4.45	1303.22
128.90	100.00	0.00	0.00	124.80	4500.00	135.40	0.00	135.40	12321.43	.12	4.48	1769.28
128.90	100.00	0.00	0.00	124.80	5200.00	135.81	0.00	135.81	12555.14	.12	4.35	1962.08
128.90	100.00	0.00	0.00	124.80	7200.00	136.67	0.00	136.67	12876.43	.12	4.19	2579.89
129.40	50.00	0.00	0.00	125.05	3200.00	134.03	0.00	134.03	11386.94	.38	4.52	1330.58
129.40	50.00	0.00	0.00	125.05	4500.00	135.40	0.00	135.40	12180.29	.16	4.59	1815.27
129.40	50.00	0.00	0.00	125.05	5200.00	135.81	0.00	135.81	12415.93	.14	4.46	2013.93
129.40	50.00	0.00	0.00	125.05	7200.00	136.67	0.00	136.67	12783.12	.14	4.29	2644.28

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EC	TOPWTD	10W*8	TIME	VOL
129,65	25,00	0,00	0,00	125,50	3200,00	134,02	0,00	134,03	1141,97	4,16	4,53	1338,30
129,65	25,00	0,00	0,00	125,50	4500,00	135,39	0,00	135,40	1188,46	3,29	4,59	1828,08
129,65	25,00	0,00	0,00	125,50	5200,00	135,80	0,00	135,81	1202,43	3,46	4,47	2028,35
129,65	25,00	0,00	0,00	125,50	7200,00	136,66	0,00	136,67	1229,91	4,24	4,29	2662,10
129,80	15,00	0,00	0,00	125,50	3200,00	134,03	0,00	134,04	1142,08	4,15	4,53	1339,88
129,80	15,00	0,00	0,00	125,50	4500,00	135,39	0,00	135,40	1188,55	3,28	4,60	1830,17
129,80	15,00	0,00	0,00	125,50	5200,00	135,81	0,00	135,82	1202,52	3,46	4,47	2030,61
129,80	15,00	0,00	0,00	125,50	7200,00	136,66	0,00	136,68	1230,01	4,23	4,30	2664,72
129,90	10,00	0,00	0,00	125,50	3200,00	133,48	0,00	134,10	93,52	123,77	4,54	1340,42
129,90	10,00	0,00	0,00	125,50	4500,00	134,66	0,00	135,48	96,80	133,90	4,60	1830,94
129,90	10,00	0,00	0,00	125,50	5200,00	134,89	0,00	135,91	97,46	160,21	4,47	2031,44
129,90	10,00	0,00	0,00	125,50	7200,00	134,91	0,00	136,85	99,49	305,44	4,30	2665,67
130,10	20,00	140,60	138,40	125,50	3200,00	133,74	0,00	134,30	94,24	107,69	4,54	1340,66
130,10	20,00	140,60	138,40	125,50	4500,00	135,02	0,00	135,76	99,82	113,08	4,60	1831,28
130,10	20,00	140,60	138,40	125,50	5200,00	135,40	0,00	136,28	98,87	127,94	4,47	2031,75
130,10	20,00	140,60	138,40	125,50	7200,00	136,42	0,00	137,70	101,33	161,45	4,30	2666,00
130,20	10,00	0,00	0,00	125,50	3200,00	134,34	0,00	134,35	1152,49	3,31	4,54	1341,29
130,20	10,00	0,00	0,00	125,50	4500,00	135,80	0,00	135,81	1202,15	2,61	4,60	1832,06
130,20	10,00	0,00	0,00	125,50	5200,00	136,33	0,00	136,34	1219,27	2,62	4,48	2032,69
130,20	10,00	0,00	0,00	125,50	7200,00	137,77	0,00	137,78	1264,69	2,55	4,30	2667,13
130,35	15,00	0,00	0,00	125,50	3200,00	134,34	0,00	134,35	1152,66	3,30	4,55	1342,94
130,35	15,00	0,00	0,00	125,50	4500,00	135,80	0,00	135,81	1202,28	2,60	4,61	1834,33
130,35	15,00	0,00	0,00	125,50	5200,00	136,33	0,00	136,34	1219,39	2,62	4,48	2035,13
130,35	15,00	0,00	0,00	125,50	7200,00	137,77	0,00	137,78	1264,81	2,55	4,31	2670,28
130,60	25,00	0,00	0,00	125,50	3200,00	134,35	0,00	134,36	1152,94	3,28	4,56	1345,73
130,60	25,00	0,00	0,00	125,50	4500,00	135,81	0,00	135,82	1202,50	2,59	4,62	1838,10
130,60	25,00	0,00	0,00	125,50	5200,00	136,34	0,00	136,35	1219,60	2,61	4,49	2039,27
130,60	25,00	0,00	0,00	125,50	7200,00	137,78	0,00	137,79	1265,01	2,54	4,31	2675,39
131,10	50,00	0,00	0,00	125,50	3200,00	134,37	0,00	134,38	1153,50	3,24	4,57	1351,32
131,10	50,00	0,00	0,00	125,50	4500,00	135,82	0,00	135,83	1202,94	2,57	4,64	1845,65
131,10	50,00	0,00	0,00	125,50	5200,00	136,35	0,00	136,36	1220,01	2,59	4,51	2047,56
131,10	50,00	0,00	0,00	125,50	7200,00	137,79	0,00	137,80	1265,41	2,52	4,33	2685,78
132,10	100,00	0,00	0,00	126,00	3200,00	134,40	0,00	134,41	1520,02	3,67	4,62	1362,74
132,10	100,00	0,00	0,00	126,00	4500,00	135,85	0,00	135,86	1610,48	2,55	4,68	1861,67
132,10	100,00	0,00	0,00	126,00	5200,00	136,38	0,00	136,38	1640,65	2,46	4,55	2065,30
132,10	100,00	0,00	0,00	126,00	7200,00	137,82	0,00	137,83	1719,88	2,19	4,37	2708,30
140,00	790,00	0,00	0,00	127,60	3200,00	134,85	0,00	134,87	1299,55	10,28	4,83	1440,14
140,00	790,00	0,00	0,00	127,60	4500,00	136,15	0,00	136,16	1529,17	6,45	4,92	1976,61
140,00	790,00	0,00	0,00	127,60	5200,00	136,66	0,00	136,67	1561,08	5,83	4,79	2195,17
140,00	790,00	0,00	0,00	127,60	7200,00	138,05	0,00	138,07	1644,93	4,51	4,61	2880,44

33780

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWID	10K*S	TIME	VOL
150.05	1005.00	0.00	0.00	129.90	3200.00	135.92	0.00	135.94	944.55	11.04	5.10	1517.09
150.05	1005.00	0.00	0.00	129.90	4500.00	136.92	0.00	136.94	969.17	9.56	5.18	2086.32
150.05	1005.00	0.00	0.00	129.90	5200.00	137.38	0.00	137.40	980.36	9.27	5.04	2319.12
150.05	1005.00	0.00	0.00	129.90	7200.00	138.64	0.00	138.67	1093.84	8.29	4.84	3045.28
151.05	100.00	0.00	0.00	130.10	3200.00	136.03	0.00	136.05	942.40	11.98	5.13	1524.41
151.05	100.00	0.00	0.00	130.10	4500.00	137.02	0.00	137.04	966.49	10.37	5.20	2095.82
151.05	100.00	0.00	0.00	130.10	5200.00	137.47	0.00	137.50	977.82	9.94	5.06	2329.65
151.05	100.00	0.00	0.00	130.10	7200.00	138.73	0.00	138.75	1082.72	8.83	4.86	3058.79
151.55	50.00	0.00	0.00	130.20	3200.00	136.09	0.00	136.11	941.36	12.47	5.14	1528.00
151.55	50.00	0.00	0.00	130.20	4500.00	137.07	0.00	137.10	965.41	10.72	5.21	2100.40
151.55	50.00	0.00	0.00	130.20	5200.00	137.52	0.00	137.55	976.55	10.31	5.07	2334.83
151.55	50.00	0.00	0.00	130.20	7200.00	138.77	0.00	138.80	1077.19	9.12	4.87	3065.43
151.80	25.00	0.00	0.00	130.20	3200.00	136.13	0.00	136.14	942.11	12.12	5.15	1529.79
151.80	25.00	0.00	0.00	130.20	4500.00	137.10	0.00	137.12	966.06	10.51	5.22	2102.82
151.80	25.00	0.00	0.00	130.20	5200.00	137.55	0.00	137.57	977.17	10.13	5.08	2337.41
151.80	25.00	0.00	0.00	130.20	7200.00	138.80	0.00	138.82	1079.36	9.01	4.88	3068.75
151.95	15.00	0.00	0.00	124.20	3200.00	136.14	0.00	136.16	949.91	8.48	5.15	1530.91
151.95	15.00	0.00	0.00	124.20	4500.00	137.11	0.00	137.14	973.79	7.98	5.22	2104.26
151.95	15.00	0.00	0.00	124.20	5200.00	137.56	0.00	137.59	989.47	7.90	5.08	2339.00
151.95	15.00	0.00	0.00	124.20	7200.00	138.81	0.00	138.83	1109.67	7.39	4.88	3070.78
152.05	10.00	0.00	0.00	124.20	3200.00	135.07	0.00	136.28	54.68	205.32	5.15	1531.34
152.05	10.00	0.00	0.00	124.20	4500.00	136.58	136.58	137.57	742.73	166.48	5.22	2104.86
152.05	10.00	0.00	0.00	124.20	5200.00	136.90	136.90	137.83	805.69	162.32	5.08	2339.68
152.05	10.00	0.00	0.00	124.20	7200.00	138.57	0.00	138.87	1[illegible]2.07	61.56	4.88	3071.79
152.45	40.00	135.50	135.50	124.20	3200.00	135.21	0.00	136.37	54.89	193.32	5.16	1531.69
152.45	40.00	135.50	135.50	124.20	4500.00	136.71	0.00	137.57	770.23	145.44	5.22	2105.78
152.45	40.00	135.50	135.50	124.20	5200.00	137.07	0.00	137.83	840.18	135.96	5.08	2340.81
152.45	40.00	135.50	135.50	124.20	7200.00	138.57	0.00	138.87	1041.89	61.63	4.88	3074.29
152.55	10.00	0.00	0.00	124.20	3200.00	136.44	0.00	136.46	957.36	6.60	5.16	1532.15
152.55	10.00	0.00	0.00	124.20	4500.00	137.62	0.00	137.64	994.63	5.72	5.23	2106.41
152.55	10.00	0.00	0.00	124.20	5200.00	137.87	0.00	137.90	1019.60	6.52	5.08	2341.58
152.55	10.00	0.00	0.00	124.20	7200.00	138.88	0.00	138.90	1116.36	7.13	4.89	3075.31
152.70	15.00	0.00	0.00	124.20	3200.00	136.45	0.00	136.47	957.55	6.56	5.16	1533.41
152.70	15.00	0.00	0.00	124.20	4500.00	137.63	0.00	137.64	995.42	5.69	5.23	2108.06
152.70	15.00	0.00	0.00	124.20	5200.00	137.88	0.00	137.91	1020.52	6.48	5.09	2343.29
152.70	15.00	0.00	0.00	124.20	7200.00	138.89	0.00	138.91	1117.40	7.09	4.89	3077.42
152.95	25.00	0.00	0.00	124.20	3200.00	136.46	0.00	136.48	957.95	6.47	5.17	1535.52
152.95	25.00	0.00	0.00	124.20	4500.00	137.64	0.00	137.66	996.80	5.64	5.24	2110.83
152.95	25.00	0.00	0.00	124.20	5200.00	137.90	0.00	137.92	1022.09	6.42	5.09	2346.21
152.95	25.00	0.00	0.00	124.20	7200.00	138.90	0.00	138.93	1119.12	7.02	4.89	3080.96

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWID	10W*S	TIME	VOL
153.45	50.00	0.00	0.00	124.20	3200.00	136.50	0.00	136.51	958.75	6.31	5.18	1539.76
153.45	50.00	0.00	0.00	124.20	4500.00	137.67	0.00	137.69	999.54	5.54	5.25	2116.39
153.45	50.00	0.00	0.00	124.20	5200.00	137.93	0.00	137.95	1029.21	6.29	5.11	2352.07
153.45	50.00	0.00	0.00	124.20	7200.00	138.94	0.00	138.97	1122.53	6.90	4.91	3088.09
154.45	-0.00	0.00	0.00	127.60	3200.00	136.55	0.00	136.57	959.95	6.14	5.21	1547.75
154.45	-0.00	0.00	0.00	127.60	4500.00	137.72	0.00	137.73	1003.77	5.42	5.28	2126.90
154.45	-0.00	0.00	0.00	127.60	5200.00	137.99	0.00	138.01	1030.03	6.14	5.13	2363.18
154.45	-0.00	0.00	0.00	127.60	7200.00	139.00	0.00	139.03	1129.85	6.72	4.93	3101.58
163.50	905.00	0.00	0.00	128.80	2800.00	137.23	0.00	137.25	1035.56	9.99	5.46	1619.49
163.50	905.00	0.00	0.00	128.80	4000.00	138.30	0.00	138.32	1077.50	8.02	5.52	2222.17
163.50	905.00	0.00	0.00	128.80	4520.00	138.62	0.00	138.64	1085.44	8.06	5.37	2464.90
163.50	905.00	0.00	0.00	128.80	6400.00	139.67	0.00	139.69	1111.64	8.07	5.14	3226.60
173.50	1000.00	0.00	0.00	129.90	2800.00	138.47	0.00	138.50	932.16	15.90	5.68	1683.57
173.50	1000.00	0.00	0.00	129.90	4000.00	139.34	0.00	139.37	973.38	14.22	5.74	2308.69
173.50	1000.00	0.00	0.00	129.90	4520.00	139.65	0.00	139.68	988.29	14.00	5.58	2558.89
173.50	1000.00	0.00	0.00	129.90	6400.00	140.67	0.00	140.71	1080.73	13.28	5.33	3345.89
183.50	1000.00	0.00	0.00	130.00	2800.00	139.28	0.00	139.30	1211.94	4.81	6.01	1757.84
183.50	1000.00	0.00	0.00	130.00	4000.00	140.13	0.00	140.15	1253.26	4.95	6.04	2404.57
183.50	1000.00	0.00	0.00	130.00	4520.00	140.45	0.00	140.47	1261.21	5.03	5.87	2662.89
183.50	1000.00	0.00	0.00	130.00	6400.00	141.48	0.00	141.50	1286.99	5.25	5.60	3477.06
188.00	450.00	0.00	0.00	130.00	2800.00	139.74	0.00	139.86	849.74	74.21	6.06	1786.10
188.00	450.00	0.00	0.00	130.00	4000.00	140.58	0.00	140.67	892.81	48.24	6.10	2442.10
188.00	450.00	0.00	0.00	130.00	4520.00	140.90	0.00	140.98	902.45	43.14	5.93	2703.96
188.00	450.00	0.00	0.00	130.00	6400.00	141.92	0.00	141.99	933.53	33.15	5.66	3529.74

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
25.000	3200.000	126.995	0.000	0.000	0.000	1564.682	0.000	-0.000
25.000	4500.000	128.235	1.239	0.000	0.000	1655.523	-90.841	-0.000
25.000	5200.000	128.827	.592	0.000	0.000	1707.364	-142.682	-0.000
25.000	7200.000	130.297	1.470	0.000	0.000	1850.898	-286.216	-0.000
25.250	3200.000	126.998	0.000	.002	0.000	1563.457	0.000	25.000
25.250	4500.000	128.237	1.239	.002	0.000	1653.992	-90.535	25.000
25.250	5200.000	128.830	.592	.002	0.000	1705.833	-142.376	25.000
25.250	7200.000	130.300	1.470	.003	0.000	1848.490	-285.042	25.000
25.500	3200.000	127.000	0.000	.003	0.000	1562.233	0.000	25.000
25.500	4500.000	128.240	1.239	.003	0.000	1652.462	-90.229	25.000
25.500	5200.000	128.832	.592	.003	0.000	1704.303	-142.070	25.000
25.500	7200.000	130.303	1.471	.003	0.000	1846.100	-283.867	25.000
26.000	3200.000	127.027	0.000	.027	0.000	1560.857	0.000	50.000
26.000	4500.000	128.266	1.239	.027	0.000	1650.737	-89.880	50.000
26.000	5200.000	128.859	.592	.027	0.000	1702.580	-141.722	50.000
26.000	7200.000	130.330	1.471	.027	0.000	1843.434	-282.577	50.000
27.000	3200.000	127.038	0.000	.011	0.000	1555.977	0.000	100.000
27.000	4500.000	128.277	1.239	.010	0.000	1644.633	-88.656	100.000
27.000	5200.000	128.869	.592	.010	0.000	1696.475	-140.498	100.000
27.000	7200.000	130.340	1.471	.010	0.000	1833.862	-277.884	100.000
40.000	3200.000	127.239	0.000	.202	0.000	1735.418	0.000	1300.000
40.000	4500.000	128.460	1.220	.183	0.000	1791.696	-56.277	1300.000
40.000	5200.000	129.046	.586	.177	0.000	1818.740	-83.321	1300.000

33781

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHORD	MIN EL GROUND	DISCHARGE (CFS)	CWSEL	CRIWS	EG	TOPWID	10K*S	TIME	VOL
153.45	50.00	0.00	0.00	124.20	3200.00	136.50	0.00	136.51	958.75	6.31	5.18	1539.76
153.45	50.00	0.00	0.00	124.20	4500.00	137.67	0.00	137.69	999.54	5.54	5.25	2116.39
153.45	50.00	0.00	0.00	124.20	5200.00	137.93	0.00	137.95	1029.21	6.29	5.11	2352.07
153.45	50.00	0.00	0.00	124.20	7200.00	138.94	0.00	138.97	1122.53	6.90	4.91	3088.09
154.45	-0.00	0.00	0.00	127.60	3200.00	136.55	0.00	136.57	959.95	6.14	5.21	1547.79
154.45	-0.00	0.00	0.00	127.60	4500.00	137.72	0.00	137.73	1009.77	5.42	5.28	2126.90
154.45	-0.00	0.00	0.00	127.60	5200.00	137.99	0.00	138.01	1030.03	6.14	5.13	2363.18
154.45	-0.00	0.00	0.00	127.60	7200.00	139.00	0.00	139.03	1127.85	6.72	4.93	3101.58
163.50	905.00	0.00	0.00	128.80	2800.00	137.23	0.00	137.25	1035.56	9.99	5.46	1619.49
163.50	905.00	0.00	0.00	128.80	4000.00	138.30	0.00	138.32	1077.50	8.02	5.52	2222.17
163.50	905.00	0.00	0.00	128.80	4520.00	138.62	0.00	138.64	1085.44	8.06	5.37	2464.90
163.50	905.00	0.00	0.00	128.80	6400.00	139.67	0.00	139.69	1111.64	8.07	5.14	3226.60
173.50	1000.00	0.00	0.00	129.90	2800.00	138.47	0.00	138.50	932.16	15.90	5.08	1683.57
173.50	1000.00	0.00	0.00	129.90	4000.00	139.34	0.00	139.37	973.38	14.22	5.74	2308.69
173.50	1000.00	0.00	0.00	129.90	4520.00	139.65	0.00	139.68	988.29	14.00	5.58	2558.89
173.50	1000.00	0.00	0.00	129.90	6400.00	140.67	0.00	140.71	1080.73	13.28	5.33	3345.89
183.50	1000.00	0.00	0.00	130.00	2800.00	139.28	0.00	139.30	1211.94	4.81	6.01	1757.84
183.50	1000.00	0.00	0.00	130.00	4000.00	140.13	0.00	140.15	1253.26	4.95	6.04	2404.57
183.50	1000.00	0.00	0.00	130.00	4520.00	140.45	0.00	140.47	1261.21	5.03	5.87	2662.89
183.50	1000.00	0.00	0.00	130.00	6400.00	141.48	0.00	141.50	1286.99	5.25	5.60	3477.06
188.00	450.00	0.00	0.00	130.00	2800.00	139.74	0.00	139.86	849.74	74.21	6.06	1786.10
188.00	450.00	0.00	0.00	130.00	4000.00	140.58	0.00	140.67	892.81	48.24	6.10	2442.10
188.00	450.00	0.00	0.00	130.00	4520.00	140.90	0.00	140.98	902.45	43.14	5.93	2703.96
188.00	450.00	0.00	0.00	130.00	6400.00	141.92	0.00	141.99	933.53	33.15	5.66	3529.74

SECTION NUMBER	DISCHARGE CFS	CWSEL	CWSEL DIFF EACH Q	CWSEL DIFF EACH SECTION	CWSEL-WSELK	TOPWID	T.W. DIFF	LENGTH
25.000	3200.000	126.998	0.000	0.000	0.000	1564.682	0.000	-0.000
25.000	4500.000	128.237	1.239	0.000	0.000	1655.523	-90.841	-0.000
25.000	5200.000	128.829	.592	0.000	0.000	1707.364	-142.682	-0.000
25.000	7200.000	130.299	1.470	0.000	0.000	1850.898	-286.216	-0.000
25.250	3200.000	126.998	0.000	.002	0.000	1563.457	0.000	25.000
25.250	4500.000	128.237	1.239	.002	0.000	1653.992	-90.535	25.000
25.250	5200.000	128.830	.592	.002	0.000	1705.833	-142.376	25.000
25.250	7200.000	130.300	1.470	.003	0.000	1848.490	-285.042	25.000
25.500	3200.000	127.000	0.000	.003	0.000	1562.233	0.000	25.000
25.500	4500.000	128.240	1.239	.003	0.000	1652.462	-90.229	25.000
25.500	5200.000	128.832	.592	.003	0.000	1704.303	-142.070	25.000
25.500	7200.000	130.303	1.471	.003	0.000	1846.100	-283.867	25.000
26.000	3200.000	127.027	0.000	.027	0.000	1560.857	0.000	50.000
26.000	4500.000	128.266	1.239	.027	0.000	1650.737	-89.880	50.000
26.000	5200.000	128.859	.592	.027	0.000	1702.580	-141.722	50.000
26.000	7200.000	130.330	1.471	.027	0.000	1843.434	-282.577	50.000
27.000	3200.000	127.038	0.000	.011	0.000	1555.977	0.000	100.000
27.000	4500.000	128.277	1.239	.010	0.000	1644.633	-88.656	100.000
27.000	5200.000	128.869	.592	.010	0.000	1696.475	-140.498	100.000
27.000	7200.000	130.340	1.471	.010	0.000	1833.862	-277.884	100.000
40.000	3200.000	127.239	0.000	.202	0.000	1735.418	0.000	1300.000
40.000	4500.000	128.460	1.220	.183	0.000	1791.696	-56.277	1300.000
40.000	5200.000	129.046	.586	.177	0.000	1818.740	-83.321	1300.000

40.000	7200.000	130.509	1.462	.169	0.000	1894.027	-158.609	1300.000
55.000	3200.000	127.633	0.000	.394	0.000	2115.531	0.000	1500.000
55.000	4500.000	128.766	1.132	.306	0.000	2156.513	-38.982	1500.000
55.000	5200.000	129.326	.560	.279	0.000	2170.616	-55.085	1500.000
55.000	7200.000	130.747	1.421	.239	0.000	2214.280	-98.749	1500.000
64.000	3200.000	128.020	0.000	.387	0.000	1320.354	0.000	900.000
64.000	4500.000	129.058	1.038	.292	0.000	1338.513	-18.159	900.000
64.000	5200.000	129.588	.530	.262	0.000	1347.783	-27.429	900.000
64.000	7200.000	130.961	1.373	.213	0.000	1371.810	-51.456	900.000
80.000	3200.000	128.856	0.000	.835	0.000	1335.109	0.000	1600.000
80.000	4500.000	129.804	.949	.746	0.000	1351.571	-16.462	1600.000
80.000	5200.000	130.291	.487	.703	0.000	1360.091	-24.982	1600.000
80.000	7200.000	131.581	1.290	.620	0.000	1382.661	-47.552	1600.000
87.900	3200.000	129.400	0.000	.544	0.000	1243.557	0.000	790.000
87.900	4500.000	130.297	.898	.493	0.000	1320.758	-77.201	790.000
87.900	5200.000	130.755	.458	.468	0.000	1333.518	-89.961	790.000
87.900	7200.000	131.981	1.226	.400	0.000	1433.203	-189.646	790.000
88.900	3200.000	129.595	0.000	.195	0.000	1274.404	0.000	100.000
88.900	4500.000	130.444	.849	.144	0.000	1324.841	-50.437	100.000
88.900	5200.000	130.883	.439	.128	0.000	1339.091	-62.687	100.000
88.900	7200.000	132.076	1.193	.095	0.000	1435.777	-161.373	100.000
89.400	3200.000	129.677	0.000	.082	0.000	1288.375	0.000	50.000
89.400	4500.000	130.510	.833	.066	0.000	1326.832	-38.457	50.000
89.400	5200.000	130.942	.432	.059	0.000	1338.840	-50.465	50.000
89.400	7200.000	132.121	1.179	.045	0.000	1436.884	-148.509	50.000
89.650	3200.000	129.715	0.000	.038	0.000	1294.659	0.000	25.000
89.650	4500.000	130.541	.826	.031	0.000	1327.726	-33.067	25.000
89.650	5200.000	130.970	.429	.028	0.000	1339.644	-44.984	25.000
89.650	7200.000	132.144	1.173	.022	0.000	1437.412	-142.752	25.000
89.800	3200.000	129.737	0.000	.022	0.000	1298.162	0.000	15.000
89.800	4500.000	130.559	.822	.018	0.000	1328.236	-30.074	15.000
89.800	5200.000	130.987	.428	.017	0.000	1340.107	-41.945	15.000
89.800	7200.000	132.157	1.170	.013	0.000	1437.720	-139.559	15.000
89.900	3200.000	129.060	0.000	-.678	0.000	70.972	0.000	10.000
89.900	4500.000	129.244	.184	-1.315	0.000	71.457	-.485	10.000
89.900	5200.000	129.158	-.084	-1.829	0.000	71.226	-.254	10.000
89.900	7200.000	129.608	.450	-2.548	0.000	72.370	-1.398	10.000
90.100	3200.000	129.675	0.000	.615	0.000	72.540	0.000	20.000
90.100	4500.000	130.904	1.229	1.660	0.000	75.673	-3.133	20.000
90.100	5200.000	130.722	-.181	1.565	0.000	75.211	-2.671	20.000
90.100	7200.000	133.021	2.298	3.412	0.000	81.070	-8.530	20.000
90.200	3200.000	130.379	0.000	.704	0.000	1323.045	0.000	10.000
90.200	4500.000	131.891	1.513	.987	0.000	1429.566	-106.520	10.000
90.200	5200.000	132.105	.214	1.383	0.000	1436.475	-113.429	10.000
90.200	7200.000	134.548	2.443	1.527	0.000	1570.243	-247.197	10.000
90.350	3200.000	130.389	0.000	.011	0.000	1323.326	0.000	15.000
90.350	4500.000	131.897	1.508	.006	0.000	1429.807	-106.480	15.000
90.350	5200.000	132.112	.215	.007	0.000	1436.634	-113.308	15.000
90.350	7200.000	134.551	2.439	.003	0.000	1570.420	-247.094	15.000
90.600	3200.000	130.407	0.000	.018	0.000	1323.821	0.000	25.000
90.600	4500.000	131.907	1.500	.010	0.000	1430.215	-106.393	25.000
90.600	5200.000	132.124	.217	.012	0.000	1436.907	-113.086	25.000
90.600	7200.000	134.557	2.433	.004	0.000	1570.721	-246.899	25.000

91.100	3200.000	130.442	0.000	.035	0.000	1324.798	0.000	50.000
91.100	4500.000	131.927	1.486	.020	0.000	1431.026	-106.229	50.000
91.100	5200.000	132.147	.220	.023	0.000	1437.450	-112.652	50.000
91.100	7200.000	134.568	2.421	.011	0.000	1571.320	-246.522	50.000
92.100	3200.000	130.508	0.000	.066	0.000	1326.702	0.000	100.000
92.100	4500.000	131.966	1.459	.039	0.000	1432.633	-105.931	100.000
92.100	5200.000	132.192	.225	.045	0.000	1438.523	-111.822	100.000
92.100	7200.000	134.590	2.399	.022	0.000	1572.515	-245.813	100.000
107.000	3200.000	131.527	0.000	1.020	0.000	1321.595	0.000	1490.000
107.000	4500.000	132.645	1.118	.679	0.000	1411.440	-89.845	1490.000
107.000	5200.000	132.945	.300	.753	0.000	1423.615	-102.020	1490.000
107.000	7200.000	134.985	2.040	.395	0.000	1529.508	-207.913	1490.000
109.000	3200.000	131.679	0.000	.152	0.000	680.781	0.000	200.000
109.000	4500.000	132.760	1.081	.114	0.000	737.647	-56.867	200.000
109.000	5200.000	133.067	.307	.122	0.000	755.216	-72.435	200.000
109.000	7200.000	135.049	1.982	.064	0.000	959.129	-276.348	200.000
117.600	3200.000	132.588	0.000	.909	0.000	843.004	0.000	860.000
117.600	4500.000	133.630	1.042	.870	0.000	858.312	-15.308	860.000
117.600	5200.000	134.011	.381	.944	0.000	864.722	-21.717	860.000
117.600	7200.000	135.725	1.714	.676	0.000	1017.255	-174.251	860.000
118.400	3200.000	132.640	0.000	.052	0.000	843.768	0.000	80.000
118.400	4500.000	133.681	1.042	.051	0.000	859.068	-15.300	80.000
118.400	5200.000	134.066	.385	.055	0.000	869.623	-25.855	80.000
118.400	7200.000	135.769	1.703	.044	0.000	1021.214	-177.446	80.000
121.400	3200.000	132.831	0.000	.192	0.000	613.913	0.000	300.000
121.400	4500.000	133.915	1.084	.234	0.000	913.044	-299.132	300.000
121.400	5200.000	134.328	.412	.262	0.000	1166.623	-552.710	300.000
121.400	7200.000	135.995	1.667	.226	0.000	1462.368	-848.455	300.000
122.400	3200.000	133.322	0.000	.491	0.000	646.004	0.000	100.000
122.400	4500.000	134.291	.969	.375	0.000	1144.156	-498.152	100.000
122.400	5200.000	134.683	.392	.355	0.000	1295.802	-649.798	100.000
122.400	7200.000	136.170	1.487	.175	0.000	1480.131	-834.128	100.000
122.900	3200.000	133.491	0.000	.170	0.000	656.940	0.000	50.000
122.900	4500.000	134.438	.947	.147	0.000	1239.455	-582.515	50.000
122.900	5200.000	134.823	.386	.140	0.000	1314.560	-657.621	50.000
122.900	7200.000	136.249	1.426	.079	0.000	1488.468	-831.524	50.000
123.150	3200.000	133.566	0.000	.075	0.000	697.134	0.000	25.000
123.150	4500.000	134.504	.937	.066	0.000	1273.891	-576.756	25.000
123.150	5200.000	134.886	.383	.063	0.000	1322.437	-625.303	25.000
123.150	7200.000	136.287	1.400	.038	0.000	1492.245	-795.111	25.000
123.300	3200.000	133.609	0.000	.042	0.000	721.409	0.000	15.000
123.300	4500.000	134.541	.933	.038	0.000	1278.380	-556.971	15.000
123.300	5200.000	134.922	.381	.036	0.000	1326.751	-605.342	15.000
123.300	7200.000	136.309	1.387	.022	0.000	1494.416	-773.008	15.000
123.400	3200.000	133.453	0.000	-.156	0.000	86.998	0.000	10.000
123.400	4500.000	134.174	.721	-.368	0.000	88.057	-1.059	10.000
123.400	5200.000	134.420	.246	-.502	0.000	88.420	-1.422	10.000
123.400	7200.000	135.440	1.020	-.869	0.000	644.972	-557.974	10.000
123.800	3200.000	133.528	0.000	.075	0.000	87.108	0.000	40.000
123.800	4500.000	134.785	1.257	.612	0.000	88.953	-1.845	40.000
123.800	5200.000	135.071	.285	.651	0.000	89.371	-2.263	40.000
123.800	7200.000	135.440	.370	.000	0.000	645.386	-558.278	40.000

33782

123.900	3200.000	133.858	0.000	.326	0.000	1219.509	0.000	10.000	
123.900	4500.000	135.279	1.425	.494	0.000	1376.320	-156.811	10.000	
123.900	5200.000	135.692	.413	.622	0.000	1431.390	-211.882	10.000	
123.900	7200.000	136.531	.839	1.091	0.000	1929.334	-309.825	10.000	
124.050	3200.000	133.866	0.000	.012	0.000	1220.408	0.000	15.000	
124.050	4500.000	135.287	1.421	.007	0.000	1377.254	-156.846	15.000	
124.050	5200.000	135.700	.413	.008	0.000	1432.315	-211.907	15.000	
124.050	7200.000	136.540	.840	.009	0.000	1530.063	-309.655	15.000	
124.300	3200.000	133.885	0.000	.019	0.000	1221.957	0.000	25.000	
124.300	4500.000	135.299	1.414	.012	0.000	1378.886	-156.929	25.000	
124.300	5200.000	135.712	.414	.012	0.000	1433.967	-212.010	25.000	
124.300	7200.000	136.554	.842	.014	0.000	1531.581	-309.624	25.000	
124.800	3200.000	133.932	0.000	.047	0.000	1137.243	0.000	50.000	
124.800	4500.000	135.328	1.396	.029	0.000	1185.987	-48.744	50.000	
124.800	5200.000	135.742	.414	.029	0.000	1200.059	-62.816	50.000	
124.800	7200.000	136.586	.845	.032	0.000	1227.336	-90.093	50.000	
125.800	3200.000	133.999	0.000	.066	0.000	1114.904	0.000	100.000	
125.800	4500.000	135.374	1.376	.046	0.000	1170.528	-55.624	100.000	
125.800	5200.000	135.789	.415	.048	0.000	1184.637	-69.734	100.000	
125.800	7200.000	136.643	.853	.056	0.000	1213.297	-98.393	100.000	
127.900	3200.000	134.025	0.000	.026	0.000	11828.623	0.000	210.000	
127.900	4500.000	135.394	1.369	.020	0.000	12586.224	-757.601	210.000	
127.900	5200.000	135.810	.416	.021	0.000	12741.813	-913.190	210.000	
127.900	7200.000	136.669	.859	.027	0.000	13063.081	-1234.458	210.000	
128.900	3200.000	134.027	0.000	.002	0.000	11546.385	0.000	100.000	
128.900	4500.000	135.395	1.368	.001	0.000	12321.627	-775.242	100.000	
128.900	5200.000	135.811	.416	.001	0.000	12555.145	-1008.760	100.000	
128.900	7200.000	136.670	.859	.001	0.000	12876.430	-1330.045	100.000	
129.400	3200.000	134.028	0.000	.001	0.000	11386.939	0.000	50.000	
129.400	4500.000	135.396	1.368	.001	0.000	12180.292	-793.353	50.000	
129.400	5200.000	135.812	.416	.001	0.000	12415.929	-1028.990	50.000	
129.400	7200.000	136.671	.859	.001	0.000	12783.119	-1396.180	50.000	
129.650	3200.000	134.021	0.000	-.009	0.000	1141.969	0.000	25.000	
129.650	4500.000	135.387	1.366	-.009	0.000	1188.463	-46.494	25.000	
129.650	5200.000	135.802	.415	-.010	0.000	1202.432	-60.463	25.000	
129.650	7200.000	136.656	.855	-.014	0.000	1229.907	-87.939	25.000	
129.800	3200.000	134.027	0.000	.006	0.000	1142.085	0.000	15.000	
129.800	4500.000	135.392	1.365	.005	0.000	1188.551	-46.466	15.000	
129.800	5200.000	135.807	.415	.005	0.000	1202.524	-60.440	15.000	
129.800	7200.000	136.663	.856	.006	0.000	1230.011	-87.926	15.000	
129.900	3200.000	133.484	0.000	-.548	0.000	93.518	0.000	10.000	
129.900	4500.000	134.659	1.175	-.733	0.000	96.799	-3.282	10.000	
129.900	5200.000	134.893	.235	-.914	0.000	97.457	-3.940	10.000	
129.900	7200.000	134.906	.012	-1.757	0.000	97.491	-3.973	10.000	
130.100	3200.000	133.743	0.000	.260	0.000	94.237	0.000	20.000	
130.100	4500.000	135.024	1.281	.365	0.000	97.821	-3.584	20.000	
130.100	5200.000	135.400	.376	.506	0.000	98.872	-4.635	20.000	
130.100	7200.000	136.421	1.021	1.516	0.000	101.332	-7.095	20.000	
130.200	3200.000	134.338	0.000	.595	0.000	1152.495	0.000	10.000	
130.200	4500.000	135.798	1.460	.774	0.000	1202.148	-49.655	10.000	
130.200	5200.000	136.326	.527	.926	0.000	1219.267	-66.774	10.000	
130.200	7200.000	137.768	1.442	1.347	0.000	1264.688	-112.195	10.000	
130.350	3200.000	134.343	0.000	.005	0.000	1152.663	0.000	15.000	

130.350	4500.000	135.802	1.459	.004	0.000	1202.281	-49.618	15.000
130.350	5200.000	136.330	.528	.004	0.000	1219.391	-66.728	15.000
130.350	7200.000	137.772	1.442	.004	0.000	1264.807	-112.144	15.000
130.600	3200.000	134.351	0.000	.008	0.000	1152.944	0.000	25.000
130.600	4500.000	135.809	1.458	.007	0.000	1202.502	-49.559	25.000
130.600	5200.000	136.336	.528	.007	0.000	1219.597	-66.654	25.000
130.600	7200.000	137.778	1.442	.006	0.000	1265.007	-112.064	25.000
131.100	3200.000	134.368	0.000	.016	0.000	1153.502	0.000	50.000
131.100	4500.000	135.822	1.454	.013	0.000	1202.943	-49.441	50.000
131.100	5200.000	136.349	.528	.013	0.000	1220.009	-66.507	50.000
131.100	7200.000	137.791	1.441	.013	0.000	1265.407	-111.905	50.000
132.100	3200.000	134.403	0.000	.036	0.000	1520.019	0.000	100.000
132.100	4500.000	135.850	1.446	.028	0.000	1610.480	-90.461	100.000
132.100	5200.000	136.377	.528	.028	0.000	1640.651	-120.632	100.000
132.100	7200.000	137.818	1.441	.027	0.000	1719.882	-199.863	100.000
140.000	3200.000	134.848	0.000	.445	0.000	1299.549	0.000	790.000
140.000	4500.000	136.147	1.298	.297	0.000	1529.172	-229.624	790.000
140.000	5200.000	136.657	.510	.280	0.000	1561.076	-261.527	790.000
140.000	7200.000	138.053	1.396	.235	0.000	1644.929	-345.380	790.000
150.050	3200.000	135.919	0.000	1.071	0.000	944.547	0.000	1005.000
150.050	4500.000	136.923	1.004	.776	0.000	969.175	-24.628	1005.000
150.050	5200.000	137.380	.457	.723	0.000	980.363	-35.816	1005.000
150.050	7200.000	138.644	1.264	.590	0.000	1093.841	-149.294	1005.000
151.050	3200.000	136.033	0.000	.114	0.000	942.402	0.000	100.000
151.050	4500.000	137.022	.988	.098	0.000	966.487	-24.085	100.000
151.050	5200.000	137.475	.453	.095	0.000	977.821	-35.419	100.000
151.050	7200.000	138.728	1.253	.085	0.000	1082.715	-140.313	100.000
151.550	3200.000	136.094	0.000	.061	0.000	941.362	0.000	50.000
151.550	4500.000	137.074	.980	.052	0.000	965.410	-24.048	50.000
151.550	5200.000	137.525	.451	.050	0.000	976.549	-35.187	50.000
151.550	7200.000	138.772	1.248	.044	0.000	1077.184	-135.820	50.000
151.800	3200.000	136.125	0.000	.031	0.000	942.110	0.000	25.000
151.800	4500.000	137.101	.976	.027	0.000	966.055	-23.945	25.000
151.800	5200.000	137.551	.450	.026	0.000	977.169	-35.058	25.000
151.800	7200.000	138.795	1.245	.023	0.000	1079.355	-137.245	25.000
151.950	3200.000	136.134	0.000	.011	0.000	949.906	0.000	15.000
151.950	4500.000	137.111	.975	.010	0.000	973.788	-23.883	15.000
151.950	5200.000	137.561	.450	.010	0.000	989.470	-39.565	15.000
151.950	7200.000	138.805	1.244	.010	0.000	1109.669	-159.764	15.000
152.050	3200.000	135.066	0.000	-1.070	0.000	54.684	0.000	10.000
152.050	4500.000	136.575	1.509	-.536	0.000	742.733	-688.048	10.000
152.050	5200.000	136.897	.322	-.664	0.000	805.695	-751.010	10.000
152.050	7200.000	138.573	1.676	-.232	0.000	1042.071	-987.387	10.000
152.450	3200.000	135.206	0.000	.140	0.000	54.886	0.000	40.000
152.450	4500.000	136.712	1.505	.137	0.000	770.234	-715.348	40.000
152.450	5200.000	137.066	.354	.169	0.000	840.178	-785.292	40.000
152.450	7200.000	138.573	1.507	-.000	0.000	1041.891	-987.005	40.000
152.550	3200.000	136.437	0.000	1.230	0.000	957.365	0.000	10.000
152.550	4500.000	137.616	1.180	.905	0.000	994.625	-37.261	10.000
152.550	5200.000	137.875	.258	.809	0.000	1019.600	-62.235	10.000
152.550	7200.000	138.876	1.001	.303	0.000	1116.360	-158.995	10.000
152.700	3200.000	136.447	0.000	.010	0.000	957.548	0.000	15.000
152.700	4500.000	137.625	1.178	.009	0.000	995.419	-37.871	15.000

33783

152.700	5200.000	137.885	.260	.010	0.000	1020.518	-62.971	15.000
152.700	7200.000	138.887	1.002	.011	0.000	1117.397	-159.849	15.000
152.950	3200.000	136.463	0.000	.017	0.000	957.950	0.000	25.000
152.950	4500.000	137.639	1.176	.014	0.000	996.798	-38.848	25.000
152.950	5200.000	137.901	.262	.016	0.000	1022.089	-64.139	25.000
152.950	7200.000	138.905	1.004	.018	0.000	1119.115	-161.165	25.000
153.450	3200.000	136.495	0.000	.032	0.000	958.748	0.000	50.000
153.450	4500.000	137.668	1.172	.028	0.000	999.536	-40.789	50.000
153.450	5200.000	137.933	.266	.032	0.000	1025.205	-66.458	50.000
153.450	7200.000	138.940	1.007	.035	0.000	1122.525	-163.778	50.000
154.450	3200.000	136.551	0.000	.056	0.000	959.952	0.000	-0.000
154.450	4500.000	137.718	1.167	.050	0.000	1003.772	-43.820	-0.000
154.450	5200.000	137.991	.273	.057	0.000	1030.028	-70.076	-0.000
154.450	7200.000	139.004	1.013	.064	0.000	1127.853	-167.901	-0.000
163.500	2800.000	137.235	0.000	.684	0.000	1035.561	0.000	905.000
163.500	4000.000	138.300	1.065	.582	0.000	1077.502	-41.941	905.000
163.500	4520.000	138.618	.317	.627	0.000	1085.439	-49.878	905.000
163.500	6400.000	139.666	1.048	.662	0.000	1111.640	-76.079	905.000
173.500	2800.000	138.470	0.000	1.235	0.000	932.160	0.000	1000.000
173.500	4000.000	139.337	.866	1.037	0.000	973.383	-41.223	1000.000
173.500	4520.000	139.650	.313	1.032	0.000	988.289	-56.129	1000.000
173.500	6400.000	140.674	1.024	1.008	0.000	1080.728	-148.568	1000.000
183.500	2800.000	139.284	0.000	.814	0.000	1211.940	0.000	1000.000
183.500	4000.000	140.133	.849	.797	0.000	1253.258	-41.318	1000.000
183.500	4520.000	140.451	.318	.801	0.000	1261.211	-49.271	1000.000
183.500	6400.000	141.481	1.030	.807	0.000	1286.993	-75.053	1000.000
188.000	2800.000	139.735	0.000	.451	0.000	849.738	0.000	450.000
188.000	4000.000	140.584	.849	.451	0.000	892.809	-43.071	450.000
188.000	4520.000	140.900	.316	.449	0.000	902.446	-52.708	450.000
188.000	6400.000	141.919	1.019	.438	0.000	933.532	-83.794	450.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE END	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0.000	0.000	548.744	0.000
2	0.000	0.000	579.286	30.542
3	0.000	0.000	588.264	39.523
4	0.000	0.000	621.620	72.876

	117.700	160.000	163.985	0	3.037	0	499.330	0	20.000
	117.700	160.000	164.829	.844	3.036	.844	183.082	316.248	20.000
J	118.100	160.000	163.985	0	-.000	0	428.125	0	40.000
	118.100	160.000	164.829	.844	-.000	.844	120.261	307.864	40.000
K	124.800	160.000	164.006	0	.021	0	134.395	0	670.000
	124.800	160.000	164.847	.842	.019	.842	28.001	106.394	670.000
L	131.000	160.000	164.252	0	.246	0	108.790	0	620.000
	131.000	160.000	165.071	.819	.224	.819	17.317	91.473	620.000

DATA FOR LAST CROSS SECTION

PROFILE	TYPE ENC	TARGET	TOP WIDTH AREA-ACRES	TOP WIDTH AREA-DIFF
1	0	0	30.950	0
2	4.000	.556	10.796	-20.154

47633

APPENDIX F

Topographic Map

Legend

- Existing Conditions 1% Floodplain
- Existing Conditions 0.2% Floodplain
- DESIGN CROSS SECTION
- Parcels
- FEMA_Floodway
- Floodway_Existing
- FEMA - 1% Annual Chance Flood (100-year flood)
- Existing 2 Ft. Contours

Second Mill Pond Dam

18045 - Begin Study

15460 - FEMA N

14500 - FEMA M

14370 - FEMA L

12500 - FEMA K

13165 - FEMA J

12400 - FEMA I

12148 - FEMA H

11988 - FEMA G

11795 - FEMA F

11585 - FEMA E

10220 - FEMA D

8305 - FEMA C

5220 - FEMA B

3985 - FEMA A

2500 - End Study

TIE INS:
Station 18045 - FEMA 1% Floodplain WSE = 147.8';
Existing 1% Floodplain WSE = 149.1'
Station 2500 - FEMA 1% Floodplain WSE = 128.8';
Existing 1% Floodplain WSE = 128.8'

Station 15460 - FEMA Floodway WSE = 139.6';
Existing Floodway WSE = 144.46'
Station 11570 - FEMA Floodway WSE = 136.6';
Existing Floodway WSE = 142.22'

SOUTH CAROLINA PROFESSIONAL ENGINEER
No. 29724
GEOFFREY ANDREW SMITH
7/24/18

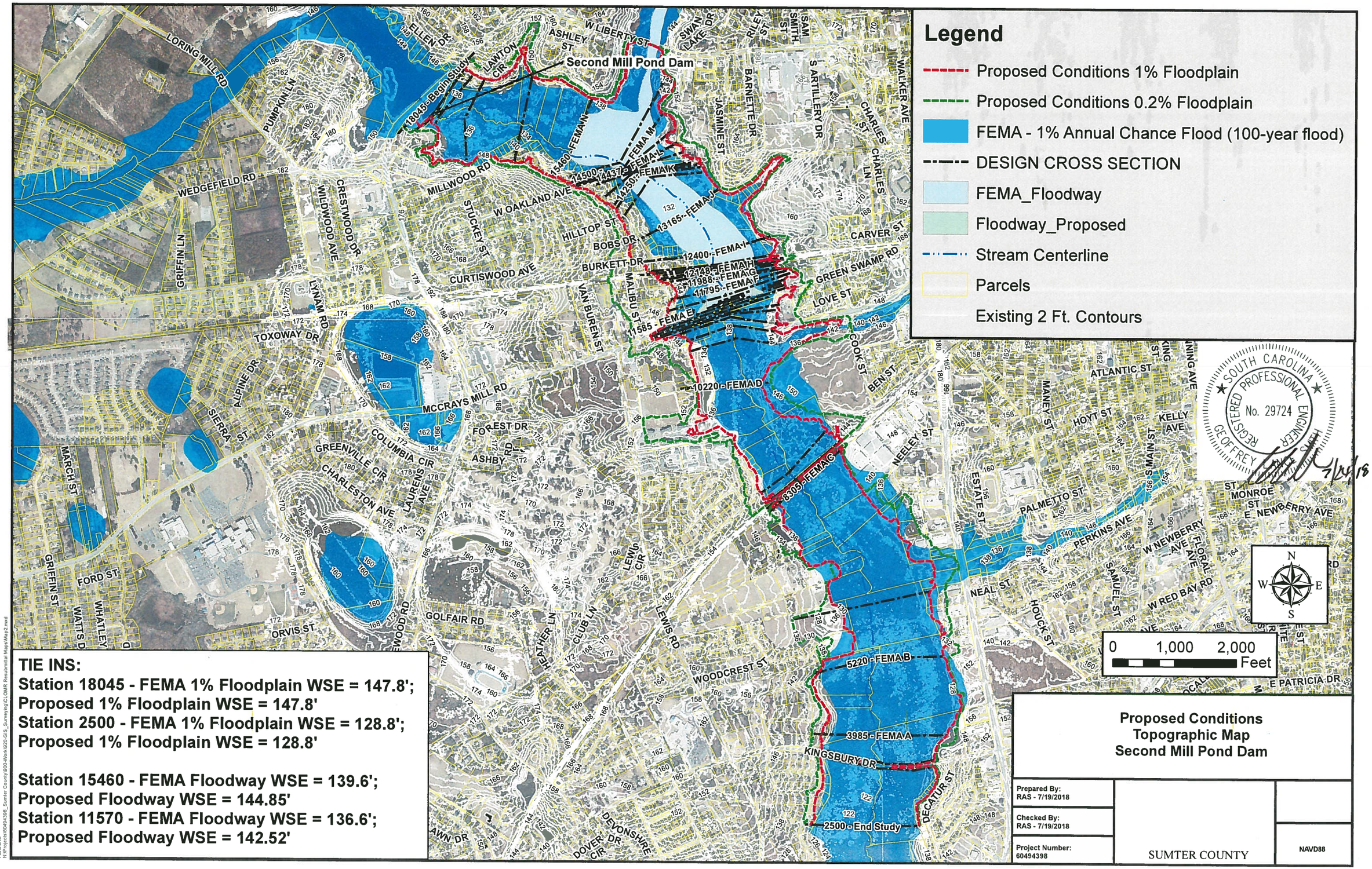
N
W E
S

0 1,000 2,000 Feet

Existing Conditions
Topographic Map
Second Mill Pond Dam

Prepared By: RAS - 7/23/2018		
Checked By: RAS - 7/23/2018		
Project Number: 60494398	SUMTER COUNTY	NAVD88

AECOM
N:\Projects\60494398_Sumter County\900-Work\920-GIS_Surveying\CLOMR Resubmittal Maps\Map1.mxd



TIE INS:
Station 18045 - FEMA 1% Floodplain WSE = 147.8';
Proposed 1% Floodplain WSE = 147.8'
Station 2500 - FEMA 1% Floodplain WSE = 128.8';
Proposed 1% Floodplain WSE = 128.8'

Station 15460 - FEMA Floodway WSE = 139.6';
Proposed Floodway WSE = 144.85'
Station 11570 - FEMA Floodway WSE = 136.6';
Proposed Floodway WSE = 142.52'

Proposed Conditions
Topographic Map
Second Mill Pond Dam

Prepared By: RAS - 7/19/2018		
Checked By: RAS - 7/19/2018		
Project Number: 60494398	SUMTER COUNTY	NAVD88

AECOM
N:\Projects\60494398_Sumter County\900-Work\920-GIS_Surveying\CLOMR Resubmittal Maps\Map2.mxd

APPENDIX G

Revised FIRM

NOTES TO USERS

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

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

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

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

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

The **projection** used in the preparation of this map was South Carolina State Plane. The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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

Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3191

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

Base map information shown on this FIRM was provided in digital format by Sumter City-County Planning Commission. This information was photogrammetrically compiled at a scale of 1 : 4,800 from aerial photography dated 1988.

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

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

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

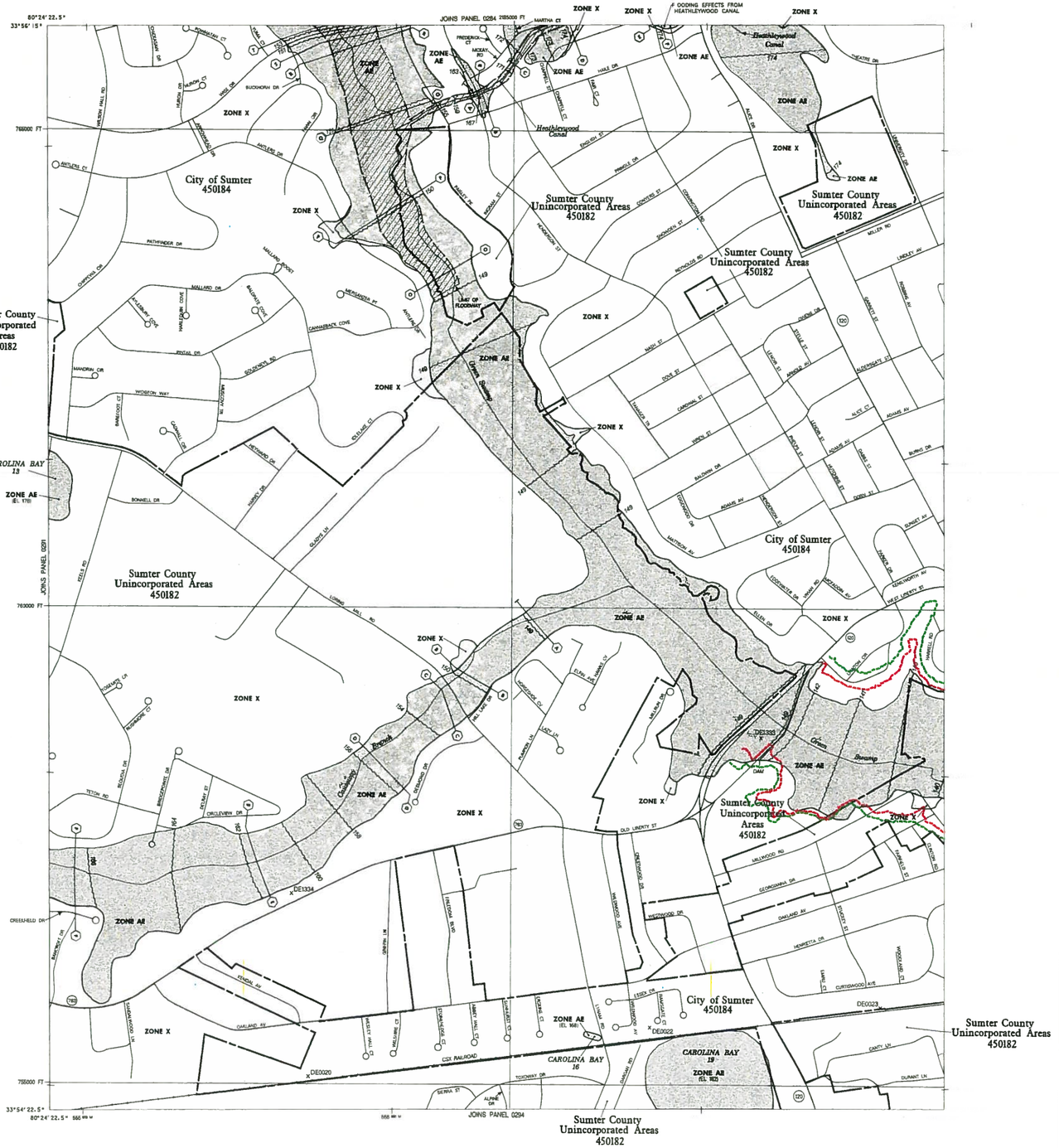
Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also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

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

DNR

This digital Flood Insurance Rate Map (FIRM) was produced through a unique cooperative partnership between the State of South Carolina and the Federal Emergency Management Agency (FEMA). The State of South Carolina has implemented a long term approach of floodplain management to decrease the costs associated with flooding. This is demonstrated by the State's commitment to map floodplain areas at the local level. As a part of this effort, the state of South Carolina has joined in a Cooperating Technical State agreement with FEMA to produce and maintain this digital FIRM.

http://www.dnr.state.sc.us/



NOTES TO USERS

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

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

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

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

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

The **projection** used in the preparation of this map was South Carolina State Plane. The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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

Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3191

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

Base map information shown on this FIRM was provided in digital format by Sumter City-County Planning Commission. This information was photogrammetrically compiled at a scale of 1 : 4,800 from aerial photography dated 1989.

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

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

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

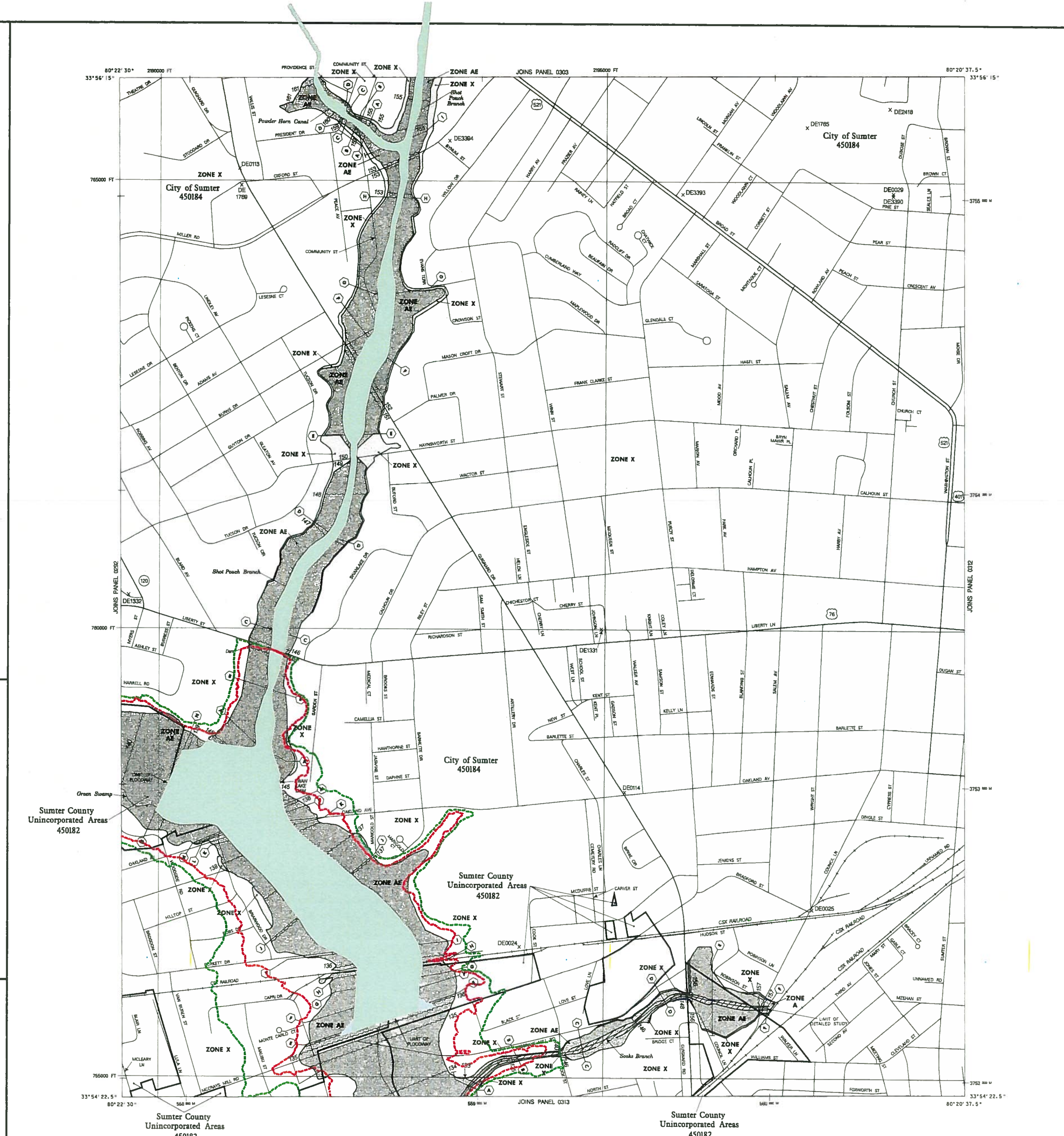
Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also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

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

DNR

This digital Flood Insurance Rate Map (FIRM) was produced through a unique cooperative partnership between the State of South Carolina and the Federal Emergency Management Agency (FEMA). The State of South Carolina has implemented a long term approach of floodplain management to decrease the costs associated with flooding. This is demonstrated by the State's commitment to map floodplain areas at the local level. As a part of this effort, the state of South Carolina has joined in a Cooperating Technical State agreement with FEMA to produce and maintain this digital FIRM.

http://www.dnr.state.sc.us/



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

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

FLOODWAY AREAS IN ZONE AE

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

OTHER FLOOD AREAS

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

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

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

	Floodplain boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
~~513~~~	Base Flood Elevation line and value; elevation in feet*
(EL 987)	Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the National Geodetic Vertical Datum of 1929

(A)———(A)	Cross section line
(23)- - - -(23)	Transect line
97°07' 30", 32°22' 30"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
4276 000 M	1000-meter Universal Transverse Mercator grid values, zone 17
600000 FT	5000-foot grid values: South Carolina State Plane coordinate system, (FIPSZONE 3900), Lambert Conformal Conic projection.
DX5510 x	Bench mark (see explanation in Notes to Users section of this FIRM panel)
● M1.5	River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
FEBRUARY 16, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

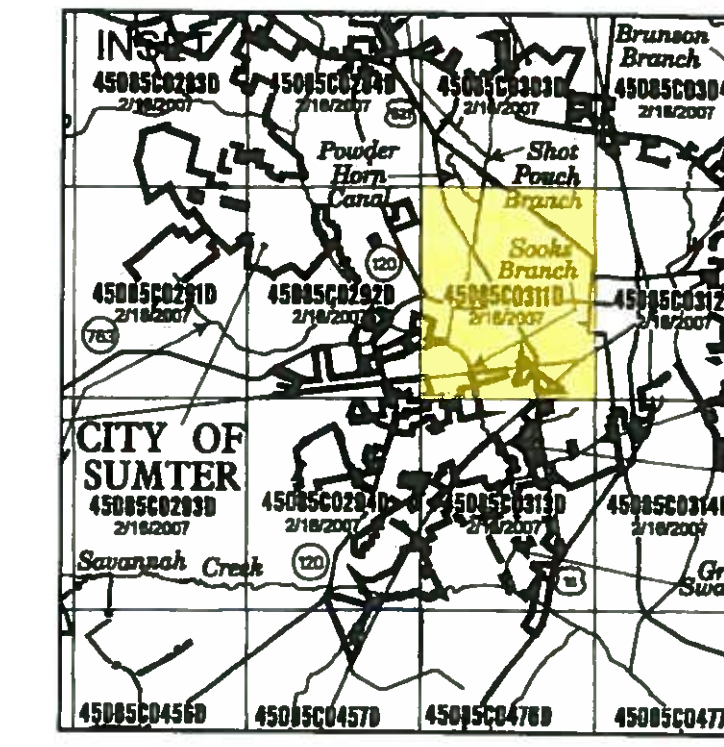
For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

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

MAP SCALE 1" = 500'

250 0 500 1000 FEET

150 0 150 300 METERS



Legend

- Proposed Conditions 1% Floodplain
- Proposed Conditions 0.2% Floodplain
- Effective Floodway
- Proposed Floodway

TIE INS:
Floodplain
Station 18045 - FEMA 1% Floodplain WSE = 147.8';

Proposed 1% Floodplain WSE = 147.8'

Station 2500 - FEMA 1% Floodplain WSE = 128.8';
Proposed 1% Floodplain WSE = 128.8'

Floodway
Station 15460 -
FEMA Effective Floodway WSE = 139.6'; Proposed Floodway WSE = 144.85'

Station 11570 -
FEMA Effective Floodway WSE = 136.6'; Proposed Floodway WSE = 142.22'

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0311D

FIRM
FLOOD INSURANCE RATE MAP
SUMTER COUNTY
SOUTH CAROLINA
AND INCORPORATED AREAS

PANEL 311 OF 625

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SUMTER, CITY OF	450184	0311	D
SUMTER COUNTY	450182	0311	D

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

MAP NUMBER
45085C0311D

EFFECTIVE DATE
FEBRUARY 16, 2007

Federal Emergency Management Agency

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 29724
GEOFFREY LANCE SMITH

7/24/18

Panel 311
Revised Flood Insurance Rate Maps
Second Mill Pond Dam

Prepared By: RAS - 7/23/2018		
Checked By: RAS - 7/23/2018		NAVD 88
Project Number: 66494388	SUMTER COUNTY	

NOTES TO USERS

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

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

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

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

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

The **projection** used in the preparation of this map was South Carolina State Plane. The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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

Spatial Reference System Division
National Geodetic Survey, NOAA
Silver Spring Metro Center
1315 East-West Highway
Silver Spring, Maryland 20910
(301) 713-3191

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

Base map information shown on this FIRM was provided in digital format by Sumter City-County Planning Commission. This information was photogrammetrically compiled at a scale of 1 : 4,800 from aerial photography dated 1989.

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

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

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

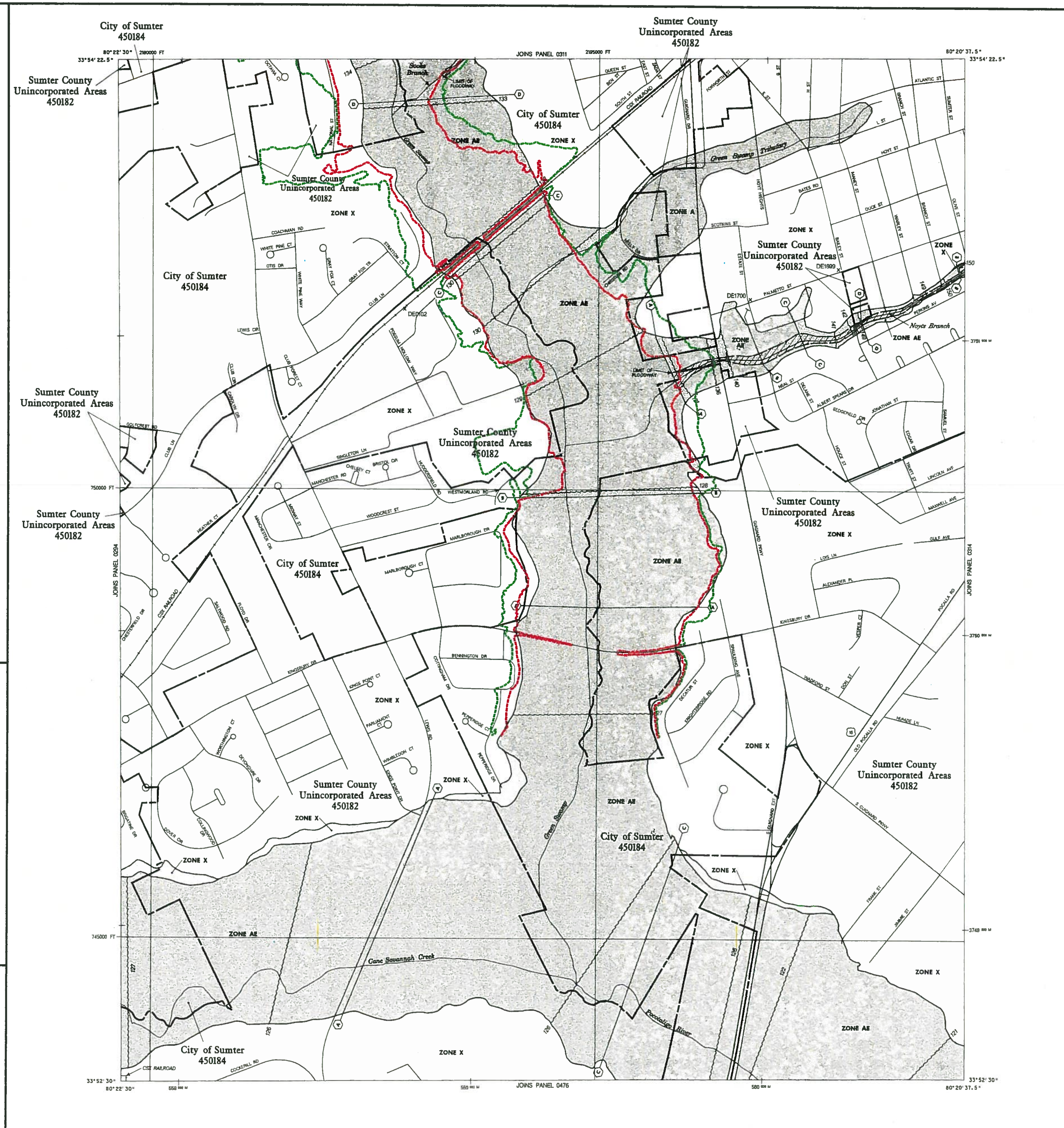
Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also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

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

DNR

This digital Flood Insurance Rate Map (FIRM) was produced through a unique cooperative partnership between the State of South Carolina and the Federal Emergency Management Agency (FEMA). The State of South Carolina has implemented a long term approach of floodplain management to decrease the costs associated with flooding. This is demonstrated by the State's commitment to map floodplain areas at the local level. As a part of this effort, the state of South Carolina has joined in a Cooperating Technical State agreement with FEMA to produce and maintain this digital FIRM.

http://www.dnr.state.sc.us/



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

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

FLOODWAY AREAS IN ZONE AE

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

OTHER FLOOD AREAS

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

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

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

	Floodplain boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
~~513~~~	Base Flood Elevation line and value; elevation in feet*
(EL 987)	Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the National Geodetic Vertical Datum of 1929

(A)——(A)	Cross section line
(23)——(23)	Transect line
97°07'30", 32°22'30"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
4276 000 M	1000-meter Universal Transverse Mercator grid values, zone 17
600000 FT	5000-foot grid values: South Carolina State Plane coordinate system, (FIPSZONE 3900), Lambert Conformal Conic projection.
DX5510 x	Bench mark (see explanation in Notes to Users section of this FIRM panel)
• M1.5	River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index

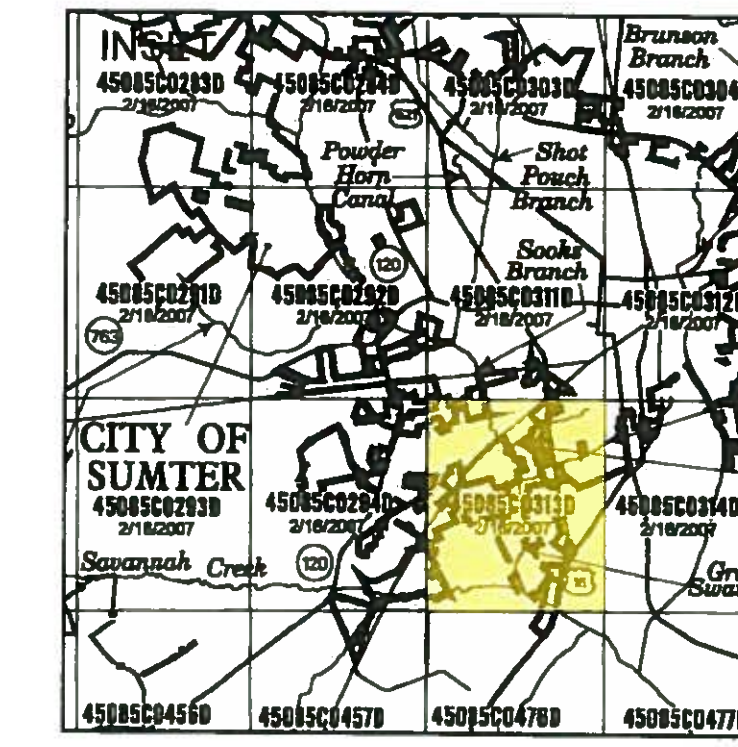
EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
FEBRUARY 16, 2007

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

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

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

MAP SCALE 1" = 500'
250 0 500 1000 FEET
150 0 150 300 METERS



Legend

Proposed Conditions 1% Floodplain

Proposed Conditions 0.2% Floodplain

NOTE:
Station 18045 - FEMA 1% Floodplain WSE = 147.8';
Proposed 1% Floodplain WSE = 147.8'

Station 2500 - FEMA 1% Floodplain WSE + 128.8';
Proposed 1% Floodplain WSE = 128.8'

NFIP — NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0313D

FIRM
FLOOD INSURANCE RATE MAP
SUMTER COUNTY
SOUTH CAROLINA
AND INCORPORATED AREAS

PANEL 313 OF 625

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SUMTER COUNTY	450182	0313	D
SUMTER, CITY OF	450184	0313	D

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

MAP NUMBER
45085C0313D

EFFECTIVE DATE
FEBRUARY 16, 2007

Federal Emergency Management Agency

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 29724
GEOFFREY L. SMITH
7/24/18

Panel 313 Revised Flood Insurance Rate Maps Second Mill Pond Dam		
Prepared By: RAS - 7/23/2018		
Checked By: RAS - 7/23/2018		NAVD 88
Project Number:	SUMTER COUNTY	

APPENDIX H

Property Owner Notification

Sumter City-County

Planning Department

DERON L. MCCORMICK
GARY M. MIXON
CITY MANAGER
COUNTY ADMINISTRATOR

GEORGE K. MCGREGOR
PLANNING DIRECTOR

Date

Property owner name
Property owner mailing address

RE: Notification of Increases in 1% (100-year) Annual Chance Water-Surface Elevations and/or Future Flood Hazard

Dear Property Owner,

The Flood Insurance Rate Map (FIRM) for a community depicts the Special Flood Hazard Area (SFHA). The area which has been determined to be subject to a 1% (100-year) or greater chance of flooding in any given year. The FIRM is used to determine flood insurance rates and to help the community with floodplain management.

As an effort to update the current floodplain downstream of the Second Mill Dam, Sumter County has undertaken a detailed study of the floodplain associated with Green Swamp. As a result of this study, Sumter County is applying for a Conditional Letter of Map Revision (CLOMR) from the Federal Emergency Management Agency (FEMA) to revise FIRM Map Number 45085C; Panel Numbers 0292D, 0311d, and 0313D for the communities of the City of Sumter and Sumter County, South Carolina along Green Swamp.

As a result of updated hydrologic modeling information, the flood study has shown an increase in the 1% annual chance (base) water-surface elevations for a portion of Green Swamp. Base Flood Elevations will increase along Green Swamp.

This letter is to inform you of that the map revision may affect flood elevations on your property at **INSERT ADDRESS HERE.** This letter is also to inform you of the potential changes to the effective flood hazard information that would result after the project is completed and a LOMR request is submitted to FEMA.

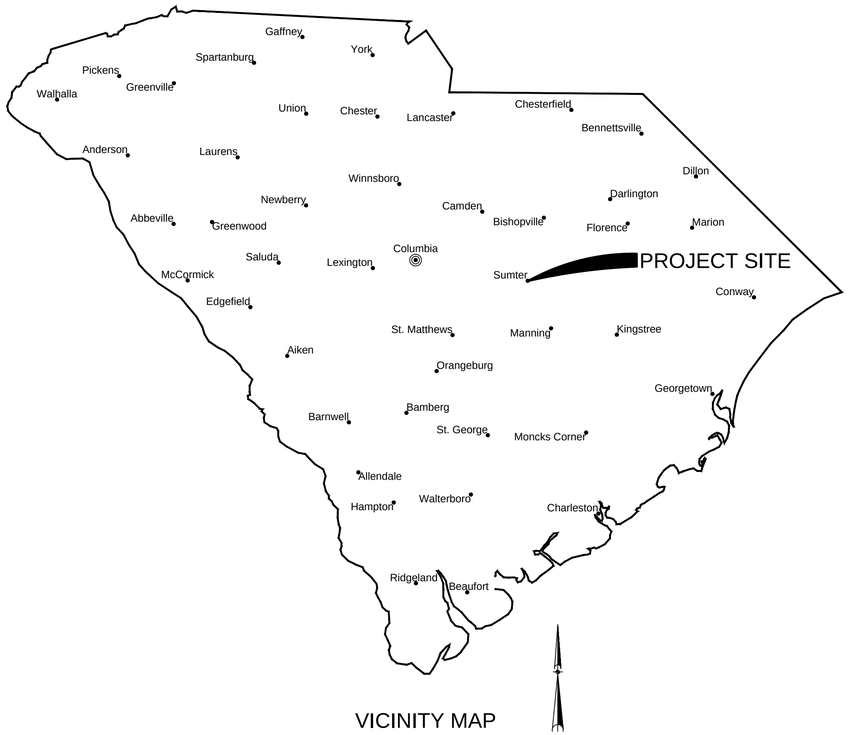
Maps and detailed analysis of the proposed hazard revisions can be reviewed at the Sumter City-County Planning Department at 12 W. Liberty St., Sumter SC or online at (INSERT URL HERE). If you have any questions or concerns about the project or its effects on your property, please contact Helen Roodman at (803)774-1636 or via e-mail at hroodman@sumtersc..gov.

Sincerely,

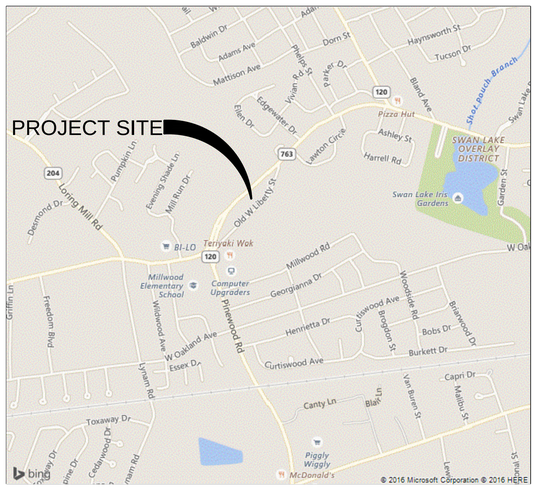
APPENDIX I

Project Plans

Project Management Initials: ____ Designer: ____ Checked: ____ Approved: ____ ANSI D 22" x 34"



VICINITY MAP



LOCATION MAP

SCALE: NONE

SECOND MILL POND DAM REHABILITATION

FOR

SUMTER COUNTY, SOUTH CAROLINA

DRAWING INDEX:

C1	GENERAL SYMBOLS, DETAILS AND GENERAL NOTES
C2	OVERALL SITE LOCATION
C3	EXISTING CONDITIONS AND DEMOLITION PLAN
C4	OVERALL MASTER PLAN
C5	OLD WEST LIBERTY STREET PLAN & PROFILE STA 0+00 -10+43
C6	AUTOMATION PLAN
C7	GRADING PLAN
C8	SEDIMENT AND EROSION CONTROL PLAN
C9	STABILIZATION PLAN
C10	CROSS SECTIONS
C11	ROADWAY DETAILS
C12	STORMWATER DETAILS
C13	AUTOMATED GATE CONTROL DETAILS
C14	AUTOMATED GATE CONTROL AND SLUICE GATE ACTUATOR DETAILS
C15	DAM AND CULVERT DETAILS
C16	STABILIZATION DETAILS
C17	STORMWATER POLLUTION PREVENTION PLAN NOTES
C18	STORMWATER POLLUTION PREVENTION PLAN NOTES
C19	STORMWATER POLLUTION PREVENTION PLAN DETAILS
C20	STORMWATER POLLUTION PREVENTION PLAN DETAILS
C21	STORMWATER POLLUTION PREVENTION PLAN DETAILS
C22	STORMWATER POLLUTION PREVENTION PLAN DETAILS
C23	STORMWATER POLLUTION PREVENTION PLAN DETAILS
C24	STORMWATER POLLUTION PREVENTION PLAN DETAILS
E1	ELECTRICAL SITE PLAN
E2	ONE-LINE DIAGRAM, SCHEDULE AND DETAIL
E3	ELECTRICAL LEGEND AND GENERAL NOTES

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

Second Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. — No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 29724 — GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION
	YYYY-MM-DD	

KEY PLAN

PROJECT NUMBER

60494398

FILE NUMBER

C1-32-4

Last saved by: MICHAEL.FEDORENKO(2017-06-13) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500\DELIVERABLES\12-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-COV.DWG
Printed on ___% Post-Consumer

ANSI D 22" X 34"
Approved:___
Checked:___
Designer:___
Project Management Initials:
Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\S12-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C1.DWG
Printed on ___% Post-Consumer

GENERAL SYMBOLS (CIVIL)

DESCRIPTION	EXISTING	EXISTING (SHADED)	NEW
PAVED ROAD			
CURB & GUTTER			
GUARD RAIL			
RIGHT-OF-WAY	R/W		
STORM DRAIN	18SD		
CATCH BASIN	CB		
JUNCTION BOX	JB		
DROP INLET	DI		
GAS LINE	-2G-		
GAS VALVE	G		
FORCE MAIN	4FM		
SEWER MANHOLE	MH		
POWER POLE	PP		
LIGHT POLE	LP		
BUILDING			
BENCHMARK	BM		
FENCE LINE (LINK)	X X X X X	X X X X X	XX XX XX XX
TOP OF BANK (TB)	TB		
BOTTOM OF BANK (BB)	BB		
SIFT FENCE			SF SF
SIFT FENCE (DOUBLE ROW)			DSF DSF
SOIL BORE/HAND AUGER	SB/HA		
CONTOURS	145		145
TREE LINE			

MATERIALS

	EXISTING	NEW
EARTH OR GRADE		
RIP-RAP		
CONCRETE		
ASPHALTIC PAVEMENT		
TURF REINFORCED MATTING (TRM)		
ARMORING		
GRASSING		
RIP-RAP		
GROUT		
GRATING		
STEEL		

GENERAL NOTES:

1. THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE FACILITIES SHOWN ON THE PLANS ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE UTILITIES INFORMATION SHOWN ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATION OF ALL UTILITIES BEFORE CONSTRUCTION. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE VARIOUS UTILITY OWNERS. CONTACT BILL ROZIER WITH THE CITY OF SUMTER AT 803-436-2551 WITH QUESTIONS REGARDING UTILITY LOCATES.
2. THE LOCATION OF UTILITIES SHOWN IN THE PLANS SHOULD BE CONSIDERED APPROXIMATE ONLY.
3. STAKE THE LIMITS OF DISTURBANCE PRIOR TO ANY DEMOLITION, CLEARING, GRUBBING, STRIPPING, OR EXCAVATION HAS STARTED. ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE AND THAT SUCH WORK HAS BEEN APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ROUTINELY INSPECT AND MAINTAIN THESE DEVICES IN ACCORDANCE WITH THE PERMIT. NO CLEARING OR GRUBBING SHALL BE PERMITTED PRIOR TO APPROVAL OF CLEARING LIMITS AND IDENTIFICATION OF SPECIMEN TREES TO BE REMOVED/SAVED.
4. THE CONTRACTOR IS TO COORDINATE WITH THE ENGINEER TO STAKE THE LIMITS OF THE STAGING/LAYDOWN AREA LOCATED ON THE SOUTWEST PORTION OF THE PROJECT AREA. PROVIDE STAGING/LAYDOWN AREA. SILT FENCE SHOULD BE UTILIZED IN ACCORDANCE WITH THE SCDHEC BMP MANUAL.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, STORM DRAINS, UTILITIES AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES DUE TO CONSTRUCTION ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.
6. THE CONTRACTOR SHALL NOT STORE ANY MATERIALS OR EQUIPMENT WITHIN 15 FT OF THE EDGE OF TRAVEL WAY WHICH INCLUDES W. LIBERTY STREET AND THE ELKS LODGE ENTRANCE.
7. LIMIT THE TOTAL CLEARING AND GRADING; EXCAVATIONS; AND OTHER DISTURBANCE TO ONLY THOSE AREAS NECESSARY FOR THE ORDERLY FLOW OF WORK.
8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES THROUGHOUT THE DURATION OF THE PROJECT. THESE PROPERTIES INCLUDE THE ELKS LODGE TO THE SOUTHWEST OF THE PROJECT AREA AND THE PRIVATE RESIDENCE TO THE NORTHEAST OF THE PROJECT AREA.
9. CLEARING AND GRUBBING LIMITS SHALL BE LIMITED TO THE AREAS WITHIN THE LIMITS OF DISTURBANCE NECESSARY TO FACILITATE ORDERLY FLOW OF WORK.
10. REMOVE ALL DEBRIS AND CLEARING AND GRUBBING MATERIALS TO A DEPTH OF ONE FOOT BELOW ORIGINAL GROUND WHERE GRADING ACTIVITIES ARE TO OCCUR.
11. CLEARING AND GRUBBING MATERIALS SHALL BE DISPOSED OF OFF SITE AT THE EXPENSE OF THE CONTRACTOR OR AS DIRECTED BY THE CLIENT.
12. SUSPEND EARTHWORK WHEN SATISFACTORY RESULTS CANNOT BE OBTAINED BECAUSE OF RAIN, FREEZING WEATHER, OR OTHER UNSATISFACTORY CONDITIONS.
13. ROUTE HAULING EQUIPMENT AROUND OR AWAY FROM AREAS OF SOFT OR YIELDING SUBGRADE.
14. THE CONTRACTOR SHALL PRESERVE AND PROTECT FROM INJURY ALL TREES NOT INDICATED TO BE REMOVED. REASONABLE CARE SHALL BE TAKEN DURING CONSTRUCTION TO AVOID DAMAGE TO VEGETATION. TREES WHICH RECEIVE DAMAGE TO BRANCHES SHALL BE TRIMMED OF THOSE BRANCHES TO IMPROVE THE APPEARANCE OF THE TREE. TREE TRUNKS RECEIVING DAMAGE FROM EQUIPMENT SHALL BE TREATED WITH A TREE DRESSING. ALL TREE DRESSING AND REPAIRS SHALL BE PERFORMED BY OR UNDER THE DIRECT SUPERVISION OF A TREE ARBORIST. CONTRACTOR, AS REQUIRED FOR CONSTRUCTION, MAY LIMB ALL TREES BEYOND FACE OF CURB LINES. ADDITIONAL LIMBING MAY BE PERFORMED UPON DEMONSTRATION OF NEED AND APPROVAL FROM ENGINEER. ALL LIMBING PRACTICES SHALL CONFORM TO INDUSTRY STANDARDS FOR QUALIFIED ARBORISTS AND ARE SUBJECT TO THE APPROVAL BY THE CITY OR THEIR DESIGNATED REPRESENTATIVE."
15. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN PROPER DEWATERING PROCEDURES TO PREVENT THE FLOW AND ACCUMULATION OF SURFACE AND GROUND WATER IN EXCAVATED AREAS. THIS INCLUDES THE AREA BETWEEN THE COFFERDAM AND THE PRIMARY SPILLWAY. ALL OF THE WATER PUMPED OR DRAINED SHALL BE DISPOSED OF WITHOUT UNDUE INTERFERENCE WITH OTHER WORK OR DAMAGE TO PAVEMENTS AND OTHER SURFACES OR PROPERTY. DISCHARGED WATER FROM ALL DEWATERING OPERATIONS SHALL BE FILTERED IN ACCORDANCE WITH SCDHEC REGULATIONS OR AS APPROVED BY THE ENGINEER.
16. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS WHEN TRAVELING ON WEST LIBERTY STREET. APPROPRIATE TEMPORARY TRAFFIC SIGNS AND/OR FLAGGER SHOULD BE UTILIZED WHENEVER TRAVEL ON WEST LIBERTY STREET IS REQUIRED.
17. PROJECT IMPROVEMENTS SHOULD BE MADE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, AND AS INDICATED BY THE PROJECT ENGINEER.
18. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS SHOWN ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING CONSTRUCTION.
19. THE ENGINEER RESERVES THE RIGHT TO ADJUST THE LOCATION OF ALL PROPOSED IMPROVEMENTS TO MEET FIELD CONDITIONS IF NECESSARY.
20. CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE SHOWING SEQUENCE OF WORK ACTIVITIES IN ACCORDANCE WITH SPECIFICATIONS SECTION 01310 IN PROJECT MANUAL.
21. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS WHEN TRAVELING ON WEST LIBERTY STREET. APPROPRIATE TEMPORARY SIGNS AND/OR FLAGGER SHOULD BE UTILIZED WHENEVER TRAVEL OB WEST LIBERTY STREET IS REQUIRED.

CONSTRUCTION SEQUENCE:

THE FOLLOWING SEQUENCE OF CONSTRUCTION IS PROVIDED AS GUIDANCE FOR COMPLETION OF CONSTRUCTION ACTIVITIES. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH A DETAILED SEQUENCE OF CONSTRUCTION AS PART OF SHOP DRAWING SUBMITTALS.

1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY PROVIDERS FOR THE IDENTIFICATION AND MARKING OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. UTILITIES LOCATED ON THESE PLANS ARE FOR PLANNING PURPOSES ONLY.
2. CONTRACTOR SHALL STAKE OUT LIMITS OF DISTURBANCE PRIOR TO PRECONSTRUCTION MEETING
3. CONTRACTOR SHALL SCHEDULE AN ON-SITE PRECONSTRUCTION MEETING WITH THE CLIENT AND ENGINEER.
4. INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES ACCORDING TO STANDARDS SET FORTH BY THE SOUTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK AND IN ACCORDANCE WITH THE DESIGN PLANS HEREIN.
5. COMPLETE CLEARING, GRUBBING AND DEMOLITION AS INDICATED ON THESE PLANS.
6. INSTALL COFFERDAM AS INDICATED ON THESE PLANS.
7. COMPLETE GRADING AS INDICATED ON THESE PLANS.
8. PERFORM PRIMARY SPILLWAY IMPROVEMENTS INCLUDING FLOWABLE FILL REPAIR OF EXISTING VOID UNDER SPILLWAY, REPLACING DAMAGED CONCRETE SCOUR PAD, EPOXY GROUT OF CRACK IN WING-WALL, REPLACING DAMAGED TRASH RACK AND REPLACING DAMAGED CONCRETE HEADWALL.
9. RAISE EXISTING INLET STRUCTURES AS INDICATED ON THESE PLANS.
10. REPLACE 4 ACTUATORS AND INSTALL SENSOR CONTROL PANEL PER MANUFACTURERS INSTRUCTIONS AND AS INDICATED ON THESE PLANS.
11. PLACE SUBGRADE AND SURFACE ON ROAD AS INDICATED IN THESE PLANS.
12. INSTALL FENCE AND GUARD RAIL AS INDICATED ON THESE PLANS.
13. INSTALL HIGH WATER LEVEL SENSORS AND GATE ARM/WARNING LIGHTS PER MANUFACTURERS INSTRUCTIONS AND AS INDICATED ON THESE PLANS.
14. INSTALL ARTICULATED CONCRETE BLOCK LINER WITHIN CHANNEL OF EMERGENCY SPILLWAY PER MANUFACTURERS INSTRUCTIONS AND AS INDICATED ON THESE PLANS.
15. INSTALL AJACKS WITHIN EMERGENCY SPILLWAY PER MANUFACTURERS INSTRUCTIONS AND AS INDICATED ON THESE PLANS.
16. COMPLETE FINAL STABILIZATION AS INDICATED ON THESE PLANS.
17. REMOVE SEDIMENT EROSION CONTROL MEASURES ONCE FINAL STABILIZATION HAS BEEN ACHIEVED.
18. REMOVE ALL CONSTRUCTION DEBRIS AND CLEAN UP.

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA AECOM TECHNICAL SERVICES, INC. No. 1473 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 29724 GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

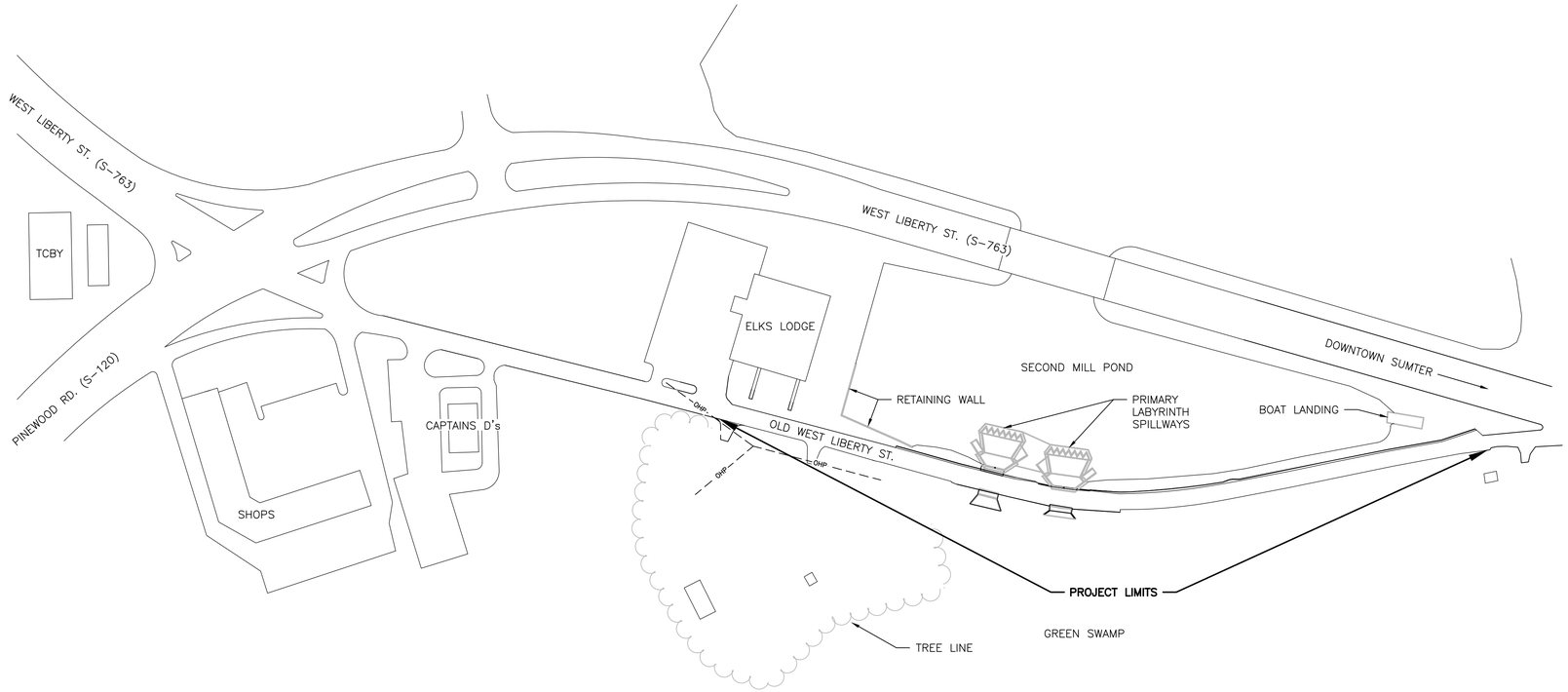
60494398

SHEET TITLE

GENERAL SYMBOLS, DETAILS AND GENERAL NOTES

SHEET NUMBER

C1



PLAN

0 100' 200'

1" = 100'



BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA AECOM TECHNICAL SERVICES, INC. No. 1473 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 29724 GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

OVERALL SITE LOCATION

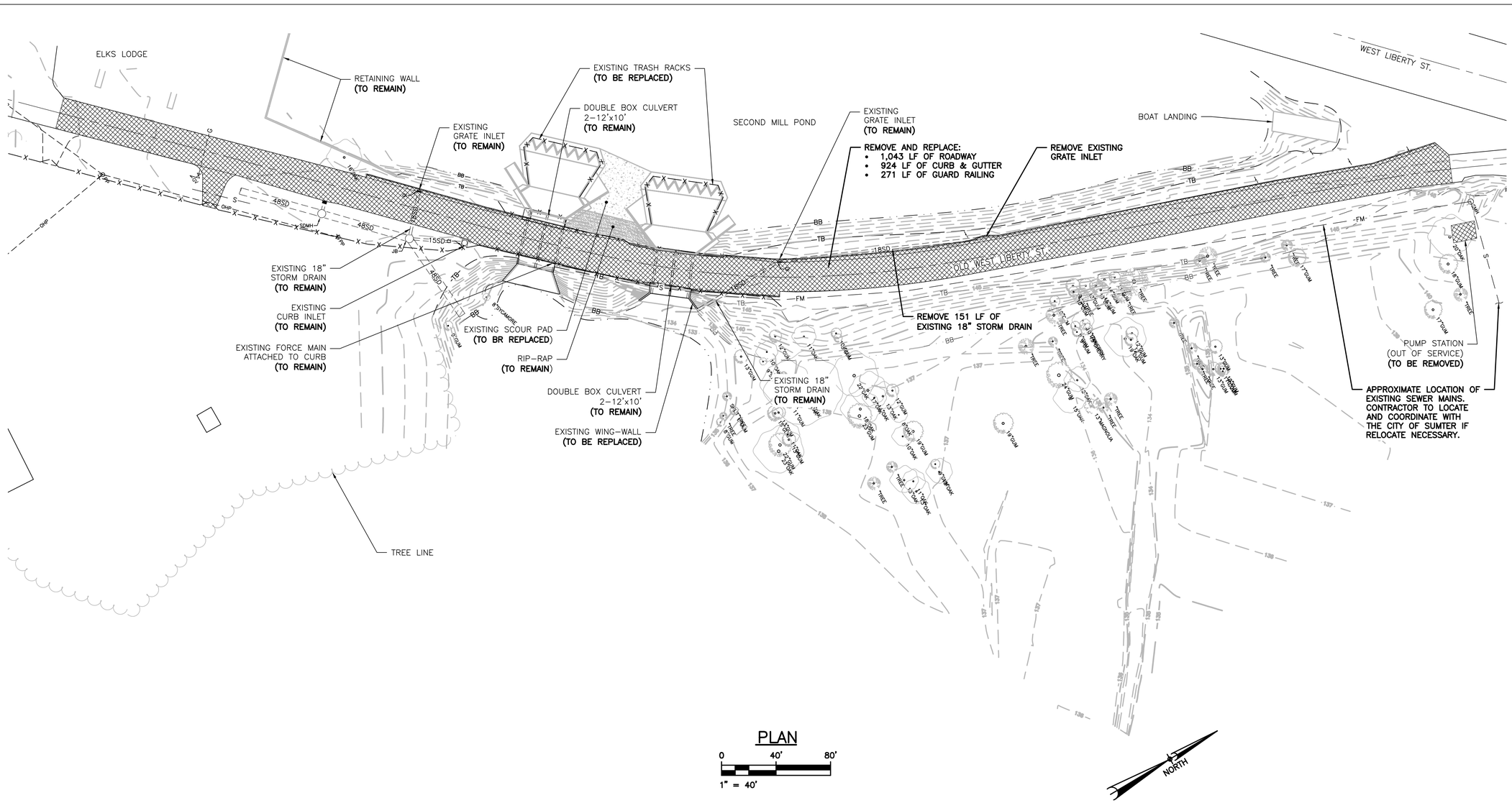
SHEET NUMBER

C2

Project Management Initials: Designer:____ Checked:____ Approved:____ ANSI D 22" x 34"

Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C2.DWG

Printed on ___% Post-Consumer



PLAN

0 40' 80'

1" = 40'

NORTH

NOTES:

1. REMOVE ALL TREES WITHIN LIMITS OF GRADING AND IMMEDIATELY DOWNSTREAM OF EMERGENCY SPILLWAY AS DIRECTED BY THE ENGINEER.

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam
Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA
AECOM TECHNICAL SERVICES, INC.
No. 1473
CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 29724
GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

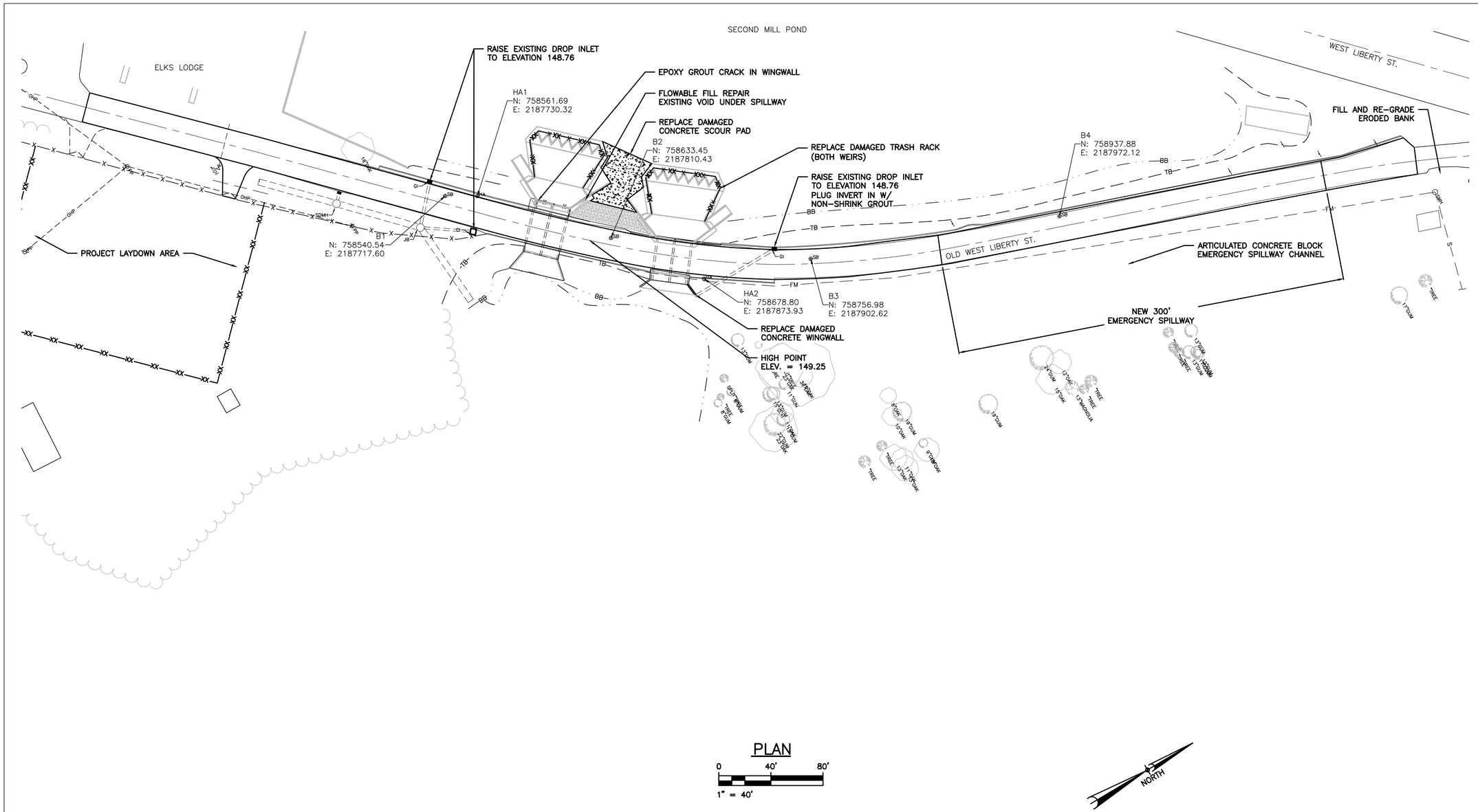
SHEET TITLE

EXISTING CONDITIONS AND DEMOLITION PLAN

SHEET NUMBER

C3

Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"
Last saved by: ROSS.ST.CLAIR (2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C2.DWG
Printed on ___% Post-Consumer



PLAN

0 40' 80'

1" = 40'

NORTH

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY

1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. — No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 29724 — GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

OVERALL MASTER PLAN

SHEET NUMBER

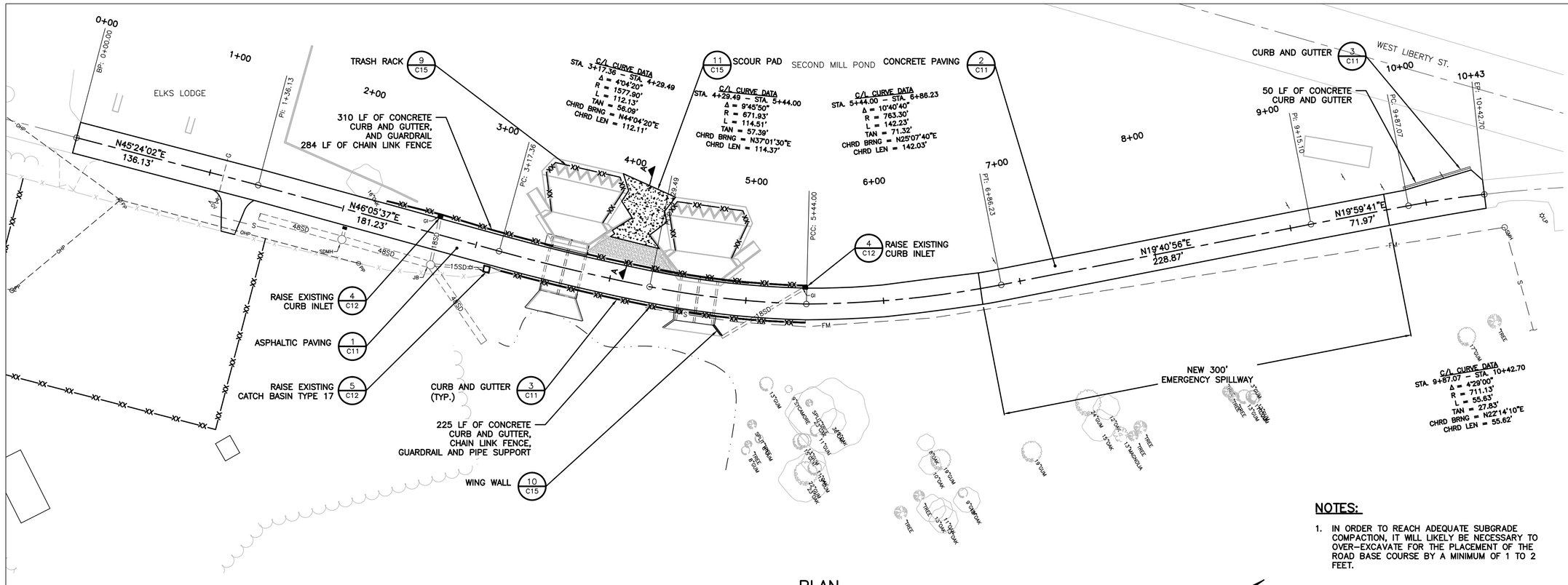
C4

Project Management Initials: Designer:____ Checked:____ Approved:____ ANSI D 22" X 34"

Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C2.DWG

Printed on ___% Post-Consumer

Project Management Initials: Designer:____ Checked:____ Approved:____ ANSI D 22" x 34"

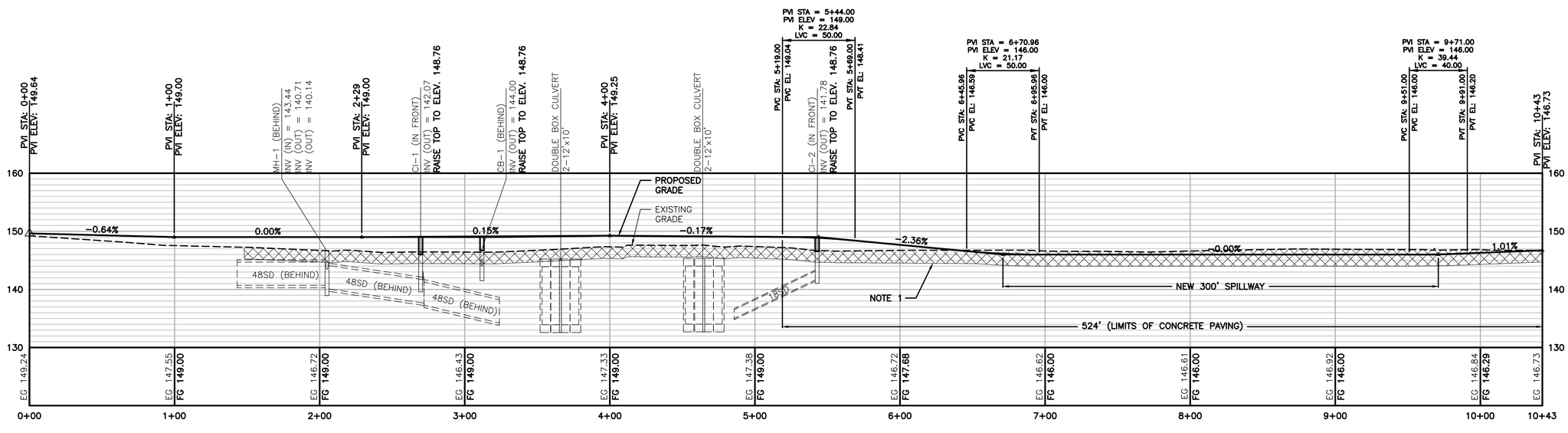


PLAN

0 40' 80'

1" = 40'

NORTH



PROFILE

SCALE: HOR.: 1"=40
VERT.: 1"=10

NOTES:

1. IN ORDER TO REACH ADEQUATE SUBGRADE COMPACTION, IT WILL LIKELY BE NECESSARY TO OVER-EXCAVATE FOR THE PLACEMENT OF THE ROAD BASE COURSE BY A MINIMUM OF 1 TO 2 FEET.

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION AECOM TECHNICAL SERVICES, INC. No. 1473

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 29724 GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

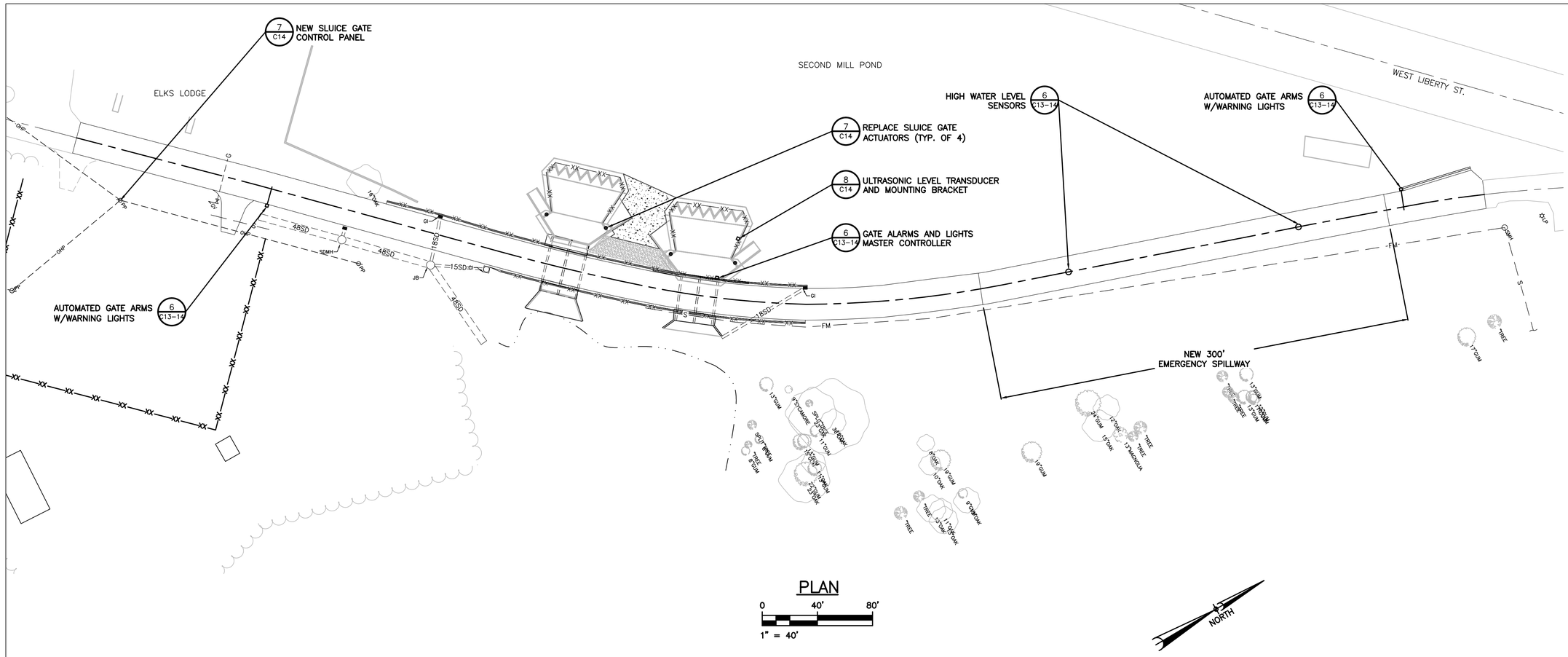
OLD WEST LIBERTY STREET
PLAN & PROFILE
STA 0+00 – 10+43

SHEET NUMBER

C5

Last saved by: ROSS.ST.CLAIR (2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C2.DWG
Printed on ___% Post-Consumer

Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"



PLAN

0 40' 80'

1" = 40'

NORTH

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. — No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 29724 — GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

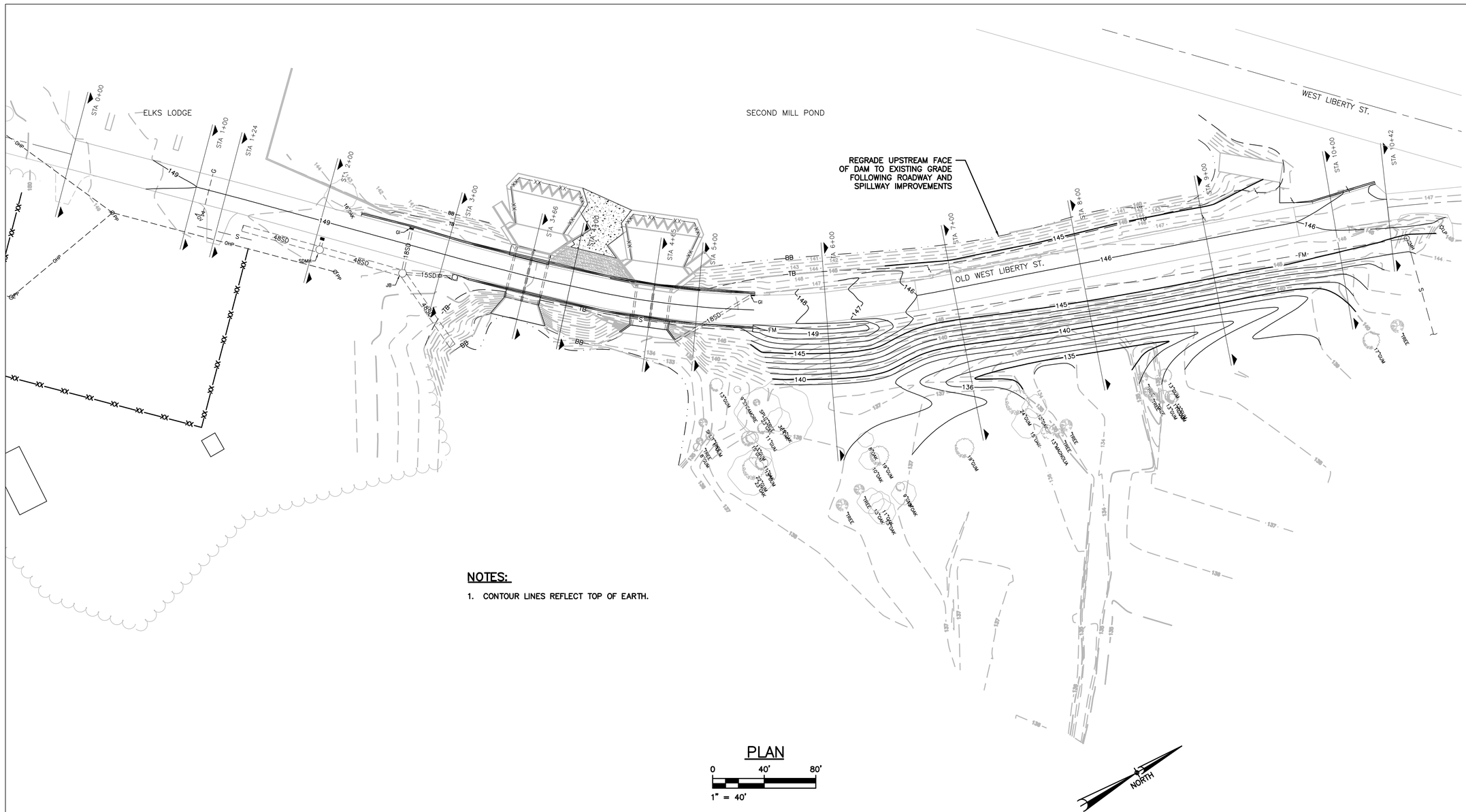
AUTOMATION PLAN

SHEET NUMBER

C6

Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C2.DWG
Printed on ___% Post-Consumer

Project Management Initials: Designer:____ Checked:____ Approved:____ ANSI D 22" x 34"



NOTES:

1. CONTOUR LINES REFLECT TOP OF EARTH.

PLAN

0 40' 80'

1" = 40'

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C2.DWG
Printed on ___% Post-Consumer

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. — No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 29724 — GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

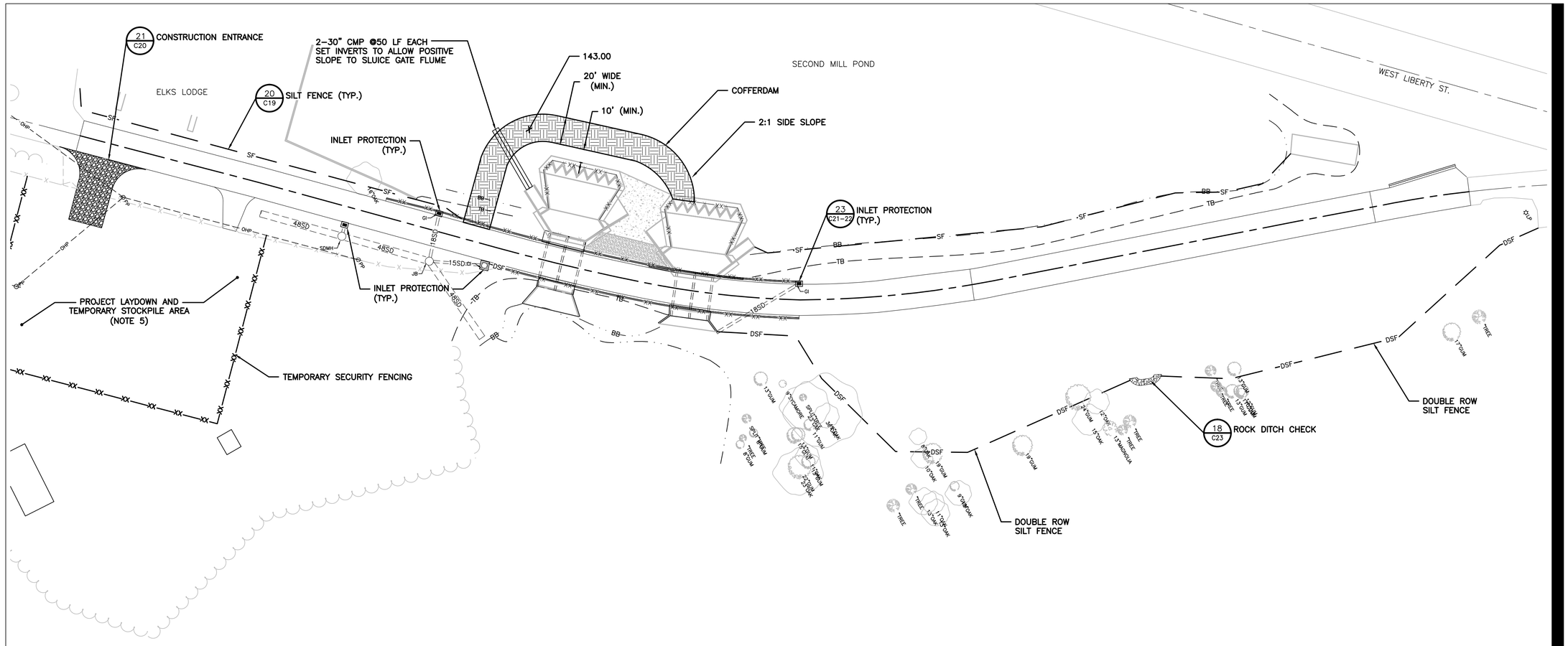
60494398

SHEET TITLE

GRADING PLAN

SHEET NUMBER

C7



PLAN

0 40' 80'

1" = 40'

NORTH

NOTES:

1. SILT FENCE TO BE INSTALLED ON THE CONTOUR WHERE PRACTICAL WITH THE ENDS PROPERLY TERMINATED TO ACCOMMODATE WATER PONDING BEHIND THE SILT FENCE. WHEN THIS IS NOT PRACTICAL, A SERIES OF "J" TRAPS OR "TIE BACKS" SHALL BE INSTALLED.
2. IF DUE TO INLET CONTROLS, STORMWATER BYPASSES DROP INLETS AND EXITS SITE UNFILTERED, THEN ADDITIONAL CONTROLS SHALL BE INSTALLED AS REQUIRED.
3. A SUMMARY REPORT BY THE QUALIFIED PERSON(S) PERFORMING THE STORMWATER INSPECTIONS SHALL BE SUBMITTED TO THE SCSWU MONTHLY. THIS REPORT MUST CONTAIN AT A MINIMUM A CERTIFICATION THAT INSPECTIONS ARE BEING PERFORMED AND OFFSITE AREAS HAVE NOT BEEN IMPACTED. ITEMS WITH SIGNIFICANT POTENTIAL FOR IMPACTING OFFSITE AREAS, WATER-OF-THE-STATE, WETLANDS, AND STORMWATER CONVEYANCE DEVISES SHALL BE LISTED IF THEY HAVE NOT BEEN CORRECTED. REPORT CAN BE HARD COPY AND MAILED TO THE SCSWU OR EMAILED TO ACONYES@SUMTERCOUNTYSC.ORG.
4. BMP'S AND STRUCTURES WITHIN LAY-DOWN AREA TO INCLUDE:
   - CONCRETE WASHOUT (DETAIL 26/C24)
   - STOCK PILE AREA (DETAIL 27/C24)
   - COVERED MATERIALS AND WASTE STORAGE
   - SPILL KIT
   - FUELING AREA
   - RESTROOM FACILITIES
   - CONTRACTOR TRAILER
5. STREET SWEEPING TO BE PERFORMED AT MINIMUM OF ONCE DAILY TO REMOVE EXCESS SOIL OR STONE THAT HAVE BEEN TRACKED INTO NEARBY PAVEMENTS BY EQUIPMENT EXITING THE SITE. HEAVY DUTY STEEL ENTRANCE/EXIT BMP'S ARE AVAILABLE TO AID IN KEEPING SEDIMENT ON SITE.
6. ALL WORK ASSOCIATED WITH THIS CONSTRUCTION PROJECT SHALL BE COMPLETED WITHIN THE LIMITS OF DISTURBANCE (LOD) AS IDENTIFIED ON THE PLAN, UNLESS EXEMPTION IS APPROVED BY THE SUMTER COUNTY STORMWATER UTILITY.
7. OVER EXCAVATE UPSTREAM SIDE ROCK DITCH CHECK TO PROVIDE ADDED SEDIMENT STORAGE AND CLEAN-OUT AREA.

CONTACT INFORMATION:

CONTRACTOR WILL PROVIDE NOTIFICATION TO SUMTER COUNTY STORMWATER UTILITY, A MINIMUM OF 48 HOURS PRIOR TO START OF LAND DISTURBING ACTIVITIES.

CONTACT: ALFRED CONYERS
PHONE: (803) 436-2114
EMAIL: ACONYERS@SUMTERCOUNTYSC.ORG.

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. — No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL — No. 29724 — GEOFFREY LANCE SMITH — ENGINEER

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

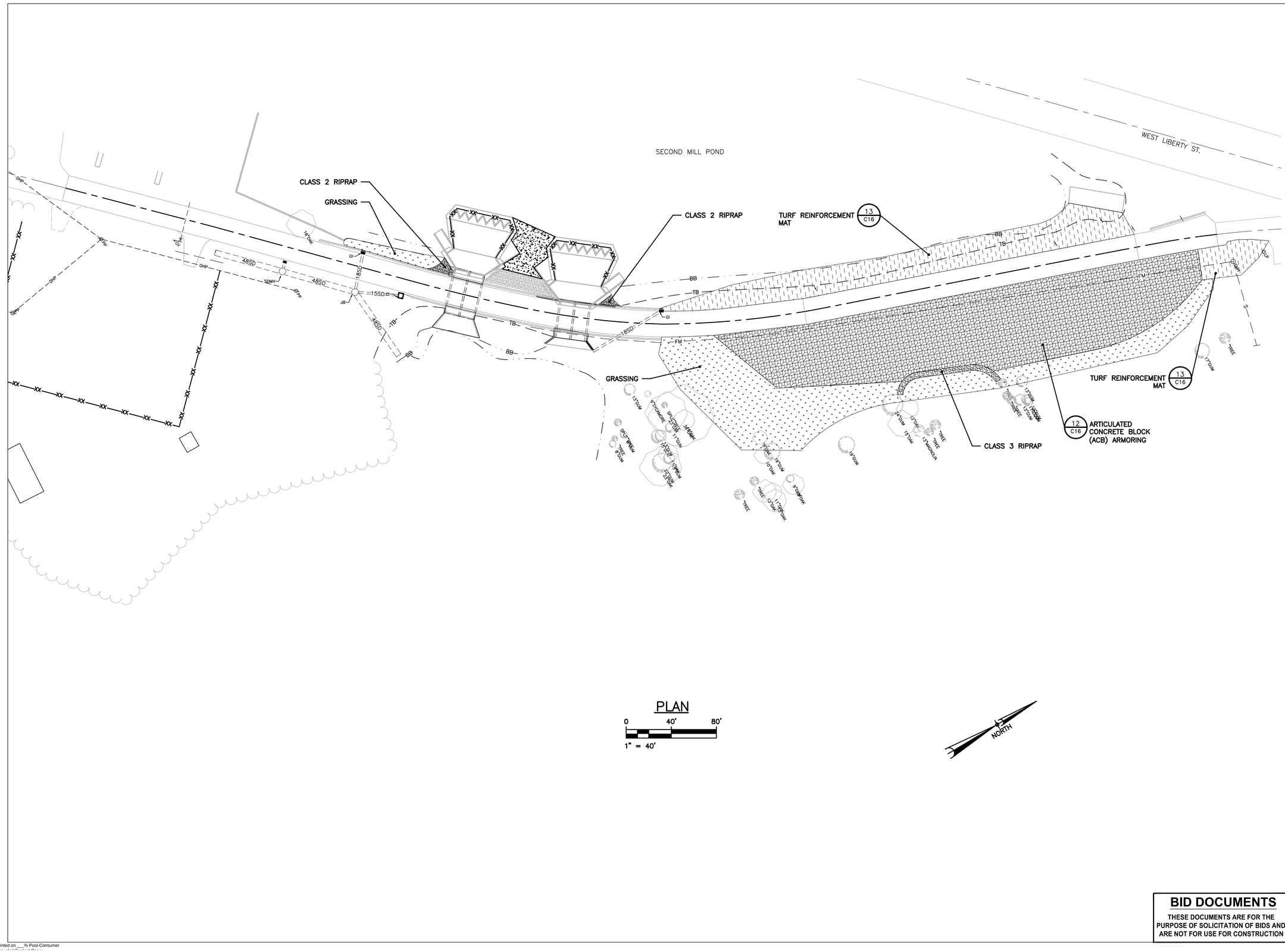
SEDIMENT AND EROSION CONTROL PLAN

SHEET NUMBER

C8

Project Management Initials: Designer: Checked: Approved: ANSI D 22" X 34"
Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C2.DWG
Printed on ___% Post-Consumer

Project Management Initials: Designer:____ Checked:____ Approved:____ ANSI D 22" x 34"



PLAN

0 40' 80'

1" = 40'

NORTH

Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C2.DWG

Printed on ___% Post-Consumer

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. — No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 29724 — GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

STABILIZATION PLAN

SHEET NUMBER

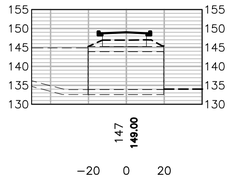
C9

BID DOCUMENTS

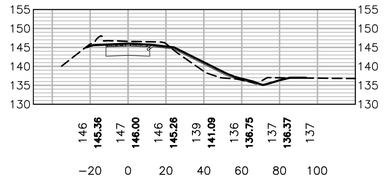
THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

Project Management Initials: Designer:____ Checked:____ Approved:____ ANSI D 22" x 34"
Last saved by: ROSS.ST.CLAIR\(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\1500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C2.DWG
Printed on ___% Post-Consumer

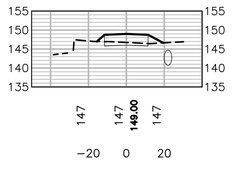
STA 3+66



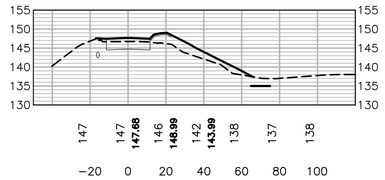
STA 7+00



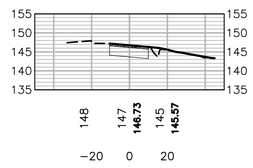
STA 2+00



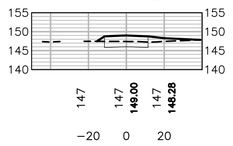
STA 6+00



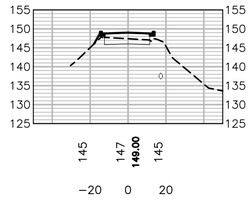
STA 10+42



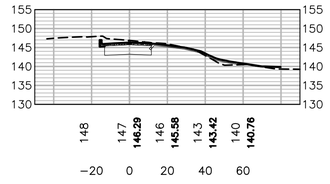
STA 1+24



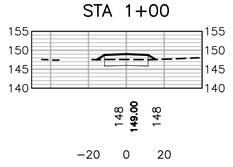
STA 5+00



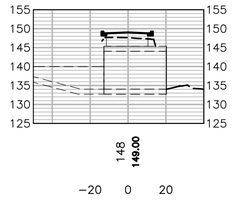
STA 10+00



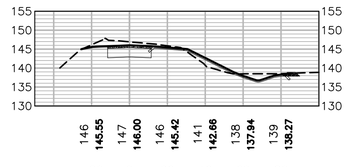
STA 1+00



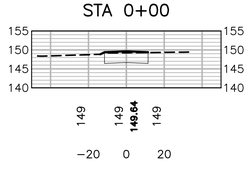
STA 4+65



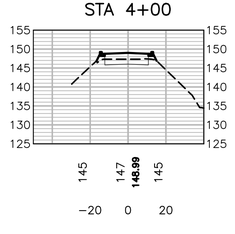
STA 9+00



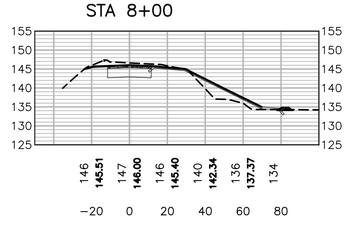
STA 0+00



STA 4+00



STA 8+00



SECTION LEGEND	
EXISTING GRADE	146
FINISH GRADE	146.50

HOR. 0 40' 80'
VER. 0 20' 40'

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION AECOM TECHNICAL SERVICES, INC. No. 1473

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 29724 GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

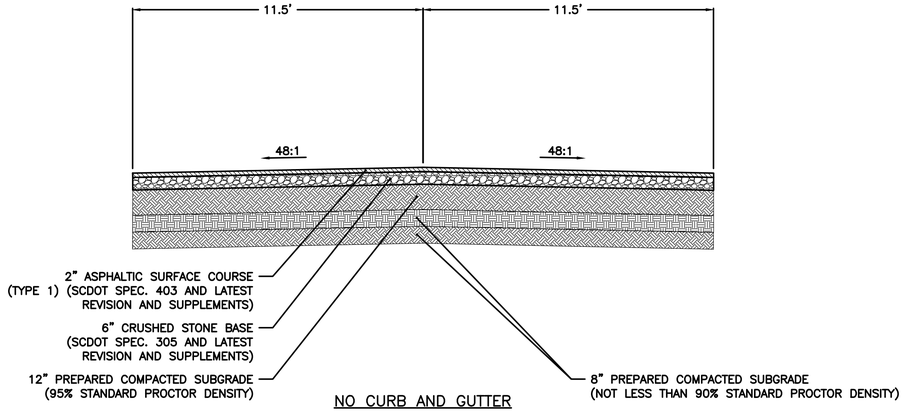
SHEET TITLE

CROSS SECTIONS

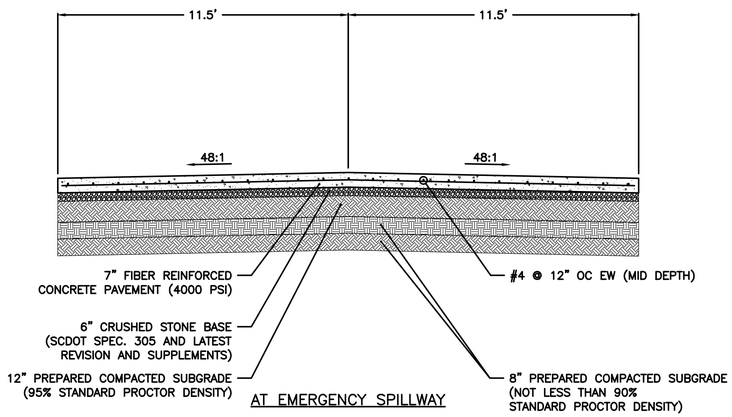
SHEET NUMBER

C10

Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"



NO CURB AND GUTTER

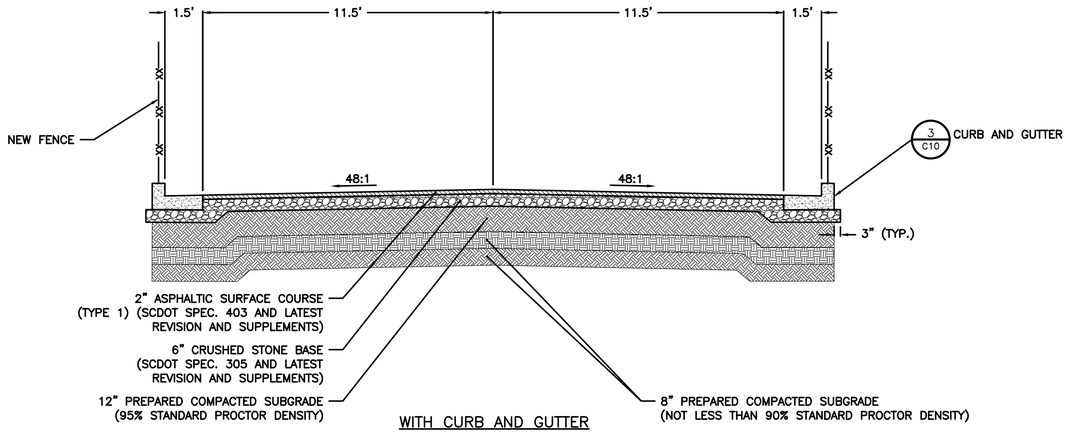


AT EMERGENCY SPILLWAY

CONCRETE PAVING DETAIL

SCALE: NONE

2 / C5

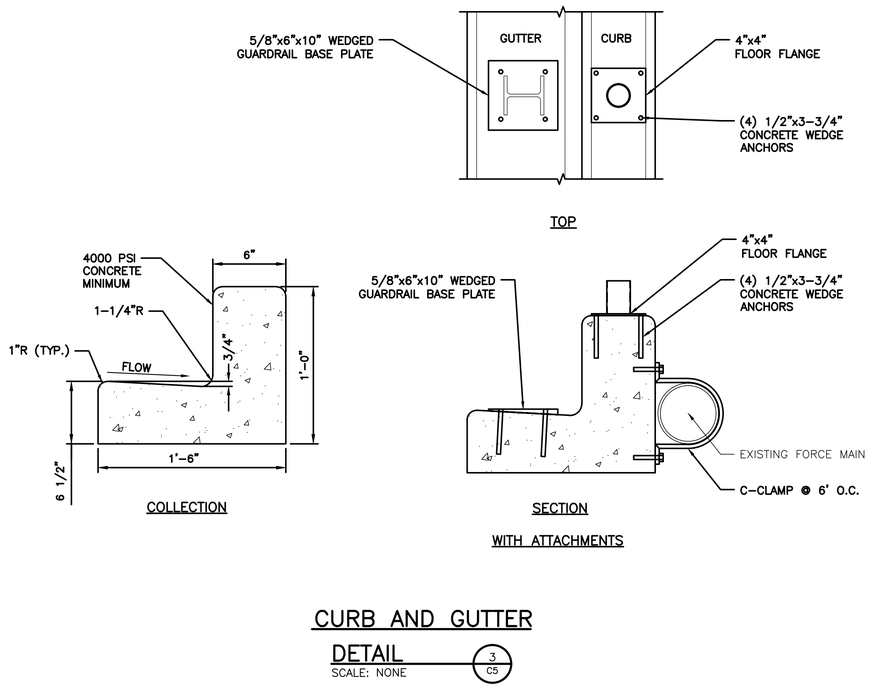


WITH CURB AND GUTTER

ASPHALTIC PAVING DETAIL

SCALE: NONE

1 / C5



CURB AND GUTTER DETAIL

SCALE: NONE

3 / C5

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. — No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 29724 — GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

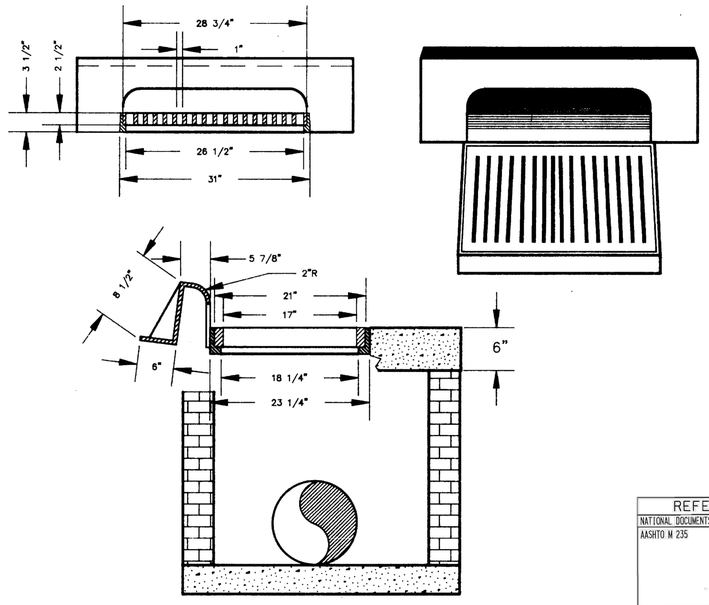
ROADWAY DETAILS

SHEET NUMBER

C11

Last saved by: ROSS.ST.CLAIR (2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C2.DWG
Printed on ___% Post-Consumer

Project Management Initials: Designer:____ Checked:____ Approved:____ ANSI D 22" x 34"



EXISTING CURB INLET DETAIL

SCALE: NONE (4 / C5)

NOTE:

1. CONTRACTOR TO RAISE EXISTING CURB INLET AND INLET COVER TO ELEVATION 148.76. CONTRACTOR TO SUBMIT SHOP DRAWINGS DETAILING MEANS OF RAISING AND REINFORCING THE CURB INLET AND INLET COVER TO PROPOSED GRADE.

DETAILS FOR REFERENCE ONLY

REFERENCES	
NATIONAL DOCUMENTS	AASHTO M 235
SCDOT DOCUMENTS	QUALIFIED PRODUCT LIST 14
RELATED DRAWINGS & KEYWORDS	719-017-01 TO 719-017-02, 719-305-00, 719-310-00

PRECONSTRUCTION SUPPORT ENGINEER

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER — NO. 8858 — EDWIN SYLVESTER EARGLE, III

SIGNATURE

MARCH 2, 2009
DATE

#	DATE	CHK	DESCRIPTION
6			
5			
4			
3			
2			
1	3/2009	SDW	TEMP OPENING NOTE
0	3/2008	DSQ	GENERAL REVISIONS

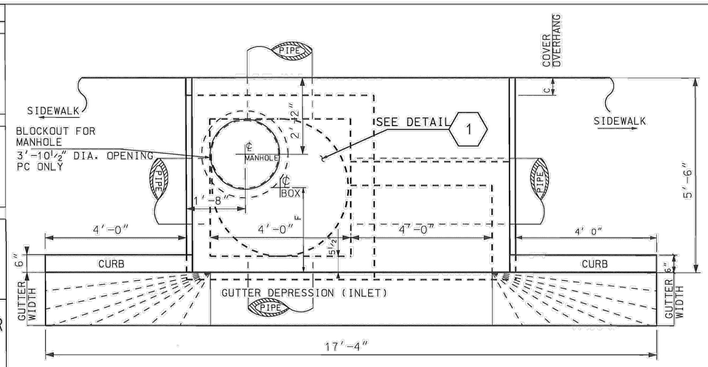
SCDOT
SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
DESIGN STANDARDS OFFICE
955 PARK STREET
ROOM 405
COLUMBIA, SC 29201

STANDARD DRAWING

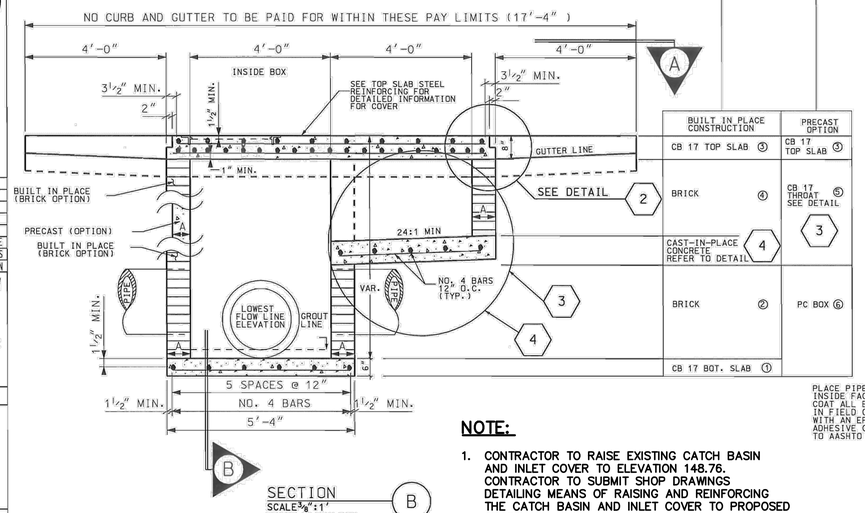
CATCH BASIN TYPE 17

719-017-01

EFFECTIVE LETTING DATE: MAY 2009



SECTION A
SCALE 3/8":1'
PLAN



SECTION B
SCALE 3/8":1'
FRONT ELEVATION
CATCH BASIN TYPE 17

BUILT IN PLACE CONSTRUCTION	PRECAST OPTION
CB 17 TOP SLAB ③	CB 17 TOP SLAB ③
BRICK ④	CB 17 THROAT ⑤ SEE DETAIL 3
CAST-IN-PLACE CONCRETE REFER TO DETAIL 4	
BRICK ②	PC BOX ⑥
CB 17 BOT. SLAB ①	

NOTE:

1. CONTRACTOR TO RAISE EXISTING CATCH BASIN AND INLET COVER TO ELEVATION 148.76. CONTRACTOR TO SUBMIT SHOP DRAWINGS DETAILING MEANS OF RAISING AND REINFORCING THE CATCH BASIN AND INLET COVER TO PROPOSED GRADE.

TABLE 719-017A		
DIMENSION LABEL	BUILT IN PLACE CONSTRUCTION	PRECAST CONSTRUCTION
A	8"	6"
B	3'-10 1/2"	4'-0"
C	6"	6 1/2"
D	1'-0"	1'-1 1/2"
E	3/4"	SEE 4X4 PC BOX
F	2'-4 3/4"	2'-5 1/2"

DESCRIPTION	ADA	NON ADA BICYCLE	VEHICLE
CB TYPE 17	YES	YES	YES-GUTTER LINE

USE WITH SIDEWALK/CURB & GUTTER

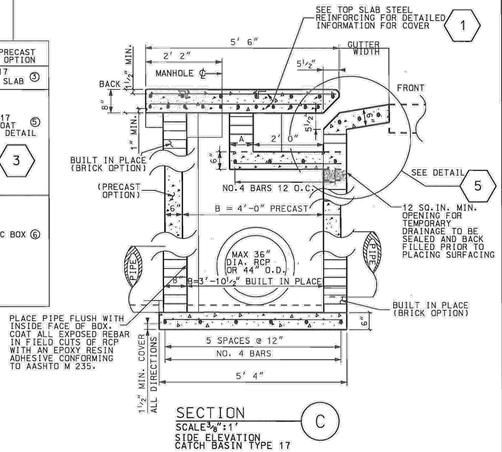
CONTRACTOR MAY USE A COMBINATION OF BUILT IN PLACE AND PRECAST COMPONENTS AS APPROVED BY THE RESIDENT.

SEE QUALIFIED PRODUCT LIST 14 FOR MANUFACTURERS OF PRECAST ITEMS.

BUILT IN PLACE:
① BOTTOM SLAB (PC OR CIP CONCRETE 64"x64"x6")
AND
② BRICK WALLS (8") (MAX 12' DEPTH)
AND
③ PC CB 17 TOP SLAB (66"x112"x8")
AND
④ THROAT (BUILT-IN-PLACE)

PRECAST:
③ PC CB 17 TOP SLAB 66"x112"x8"
AND
⑤ PC CB 17 THROAT
AND
⑥ PC DRAINAGE BOX CONFORMING TO 719-305-00 OR 719-310-00 (4'x4'x__)

THROAT WILL BE RIGHT (AS SHOWN) OR LEFT (OPPOSITE HAND) DEPENDING ON LOCATION OF CB 17



PLACE PIPE FLUSH WITH INSIDE FACE OF BOX. COAT ALL EXPOSED REBAR IN FIELD CUTS OF RCP WITH AN EPOXY RESIN ADHESIVE CONFORMING TO AASHTO M 235.

SECTION C
SCALE 3/8":1'
SIDE ELEVATION
CATCH BASIN TYPE 17

EXISTING CATCH BASIN TYPE 17 DETAIL

SCALE: NONE (5 / C5)

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. — No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER — No. 29724 — GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

STORMWATER DETAILS

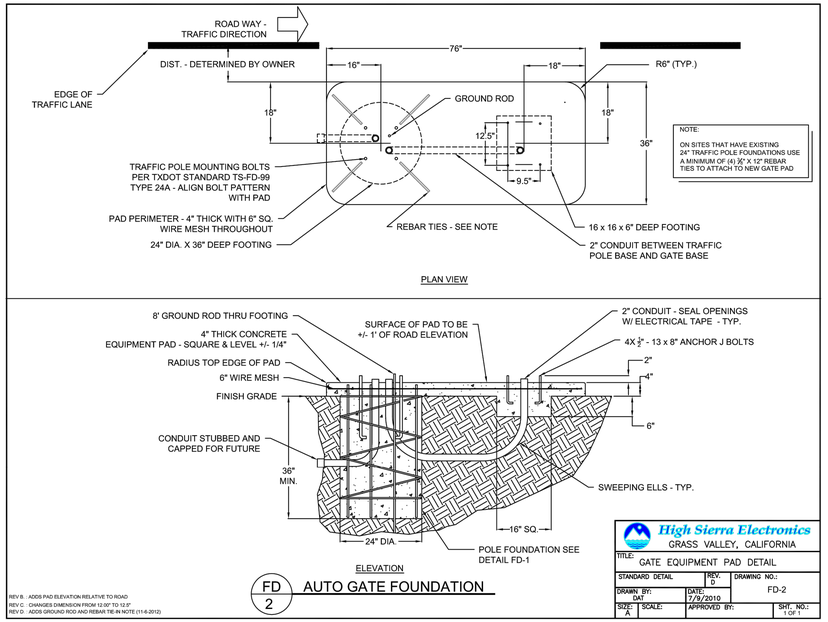
SHEET NUMBER

C12

Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C2.DWG

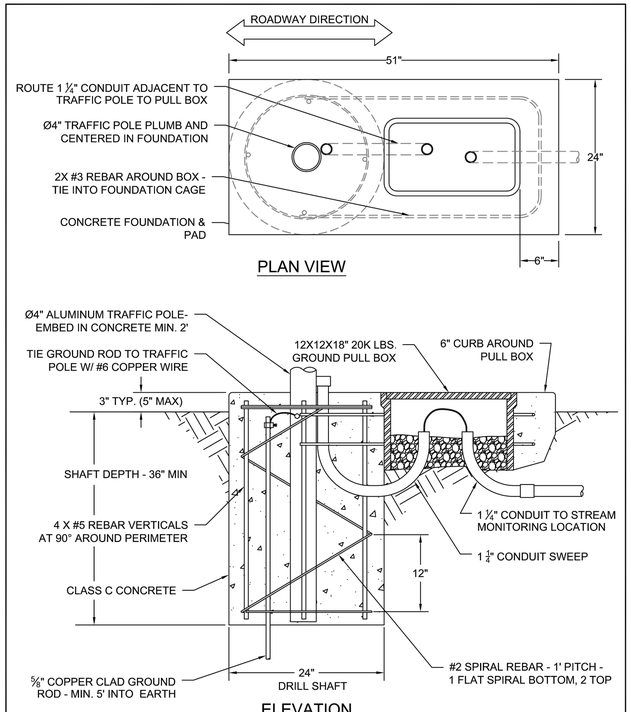
Printed on ___% Post-Consumer Recycled Content Paper

Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"

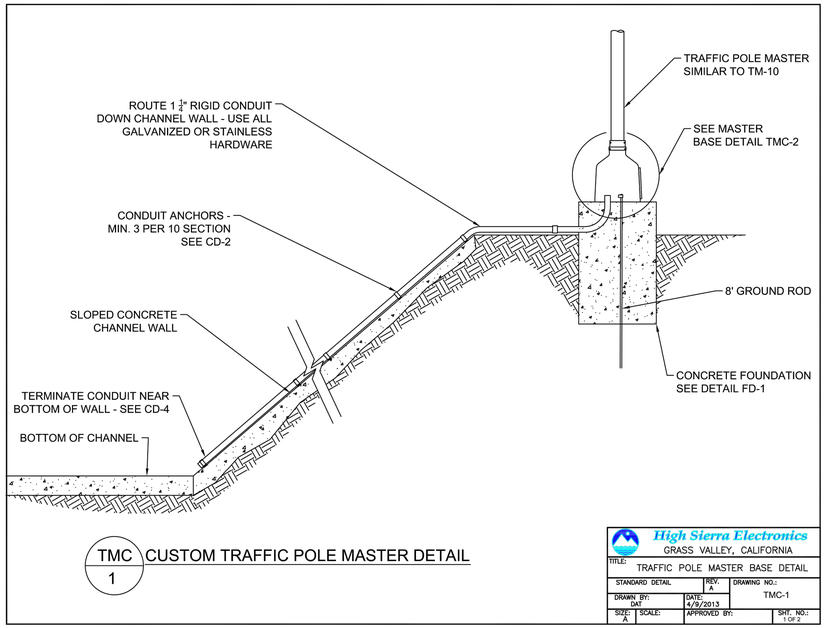


REV B. - ADDS PAD ELEVATION RELATIVE TO ROAD
REV C. - CHANGES DIMENSION FROM 12.00" TO 12.5"
REV D. - ADDS GROUND ROD AND REBAR TIE IN NOTE (11-6-2012)

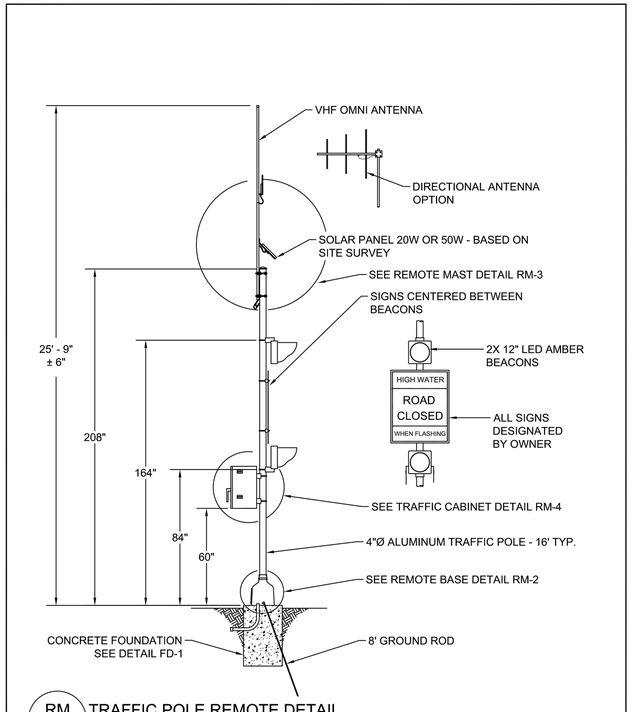
High Sierra Electronics GRASS VALLEY, CALIFORNIA			
TITLE: GATE EQUIPMENT PAD DETAIL			
STANDARD DETAIL	REV. D	DRAWING NO.: FD-2	
DRAWN BY: DAT	DATE: 7/9/2010		
SIZE: A	SCALE:	APPROVED BY:	SHT. NO.: 1 OF 1



High Sierra Electronics GRASS VALLEY, CALIFORNIA			
TITLE: TRAFFIC POLE FOUNDATION & PULL BOX			
STANDARD DETAIL	REV. A	DRAWING NO.: FD-4	
DRAWN BY: DAT	DATE: 9/13/2013		
SIZE: A	SCALE:	APPROVED BY:	SHT. NO.: 1 OF 1



High Sierra Electronics GRASS VALLEY, CALIFORNIA			
TITLE: TRAFFIC POLE MASTER BASE DETAIL			
STANDARD DETAIL	REV. A	DRAWING NO.: TMC-1	
DRAWN BY: DAT	DATE: 4/9/2013		
SIZE: A	SCALE:	APPROVED BY:	SHT. NO.: 1 OF 2



High Sierra Electronics GRASS VALLEY, CALIFORNIA			
TITLE: TRAFFIC POLE REMOTE DETAIL			
STANDARD DETAIL	REV. A	DRAWING NO.: RM-1	
DRAWN BY: DAT	DATE: 11/28/2012		
SIZE: A	SCALE:	APPROVED BY:	SHT. NO.: 1 OF 1

AUTOMATED GATE/WARNING LIGHTS CONTROLS DETAIL

SCALE: NONE — 6 / C6

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 29724 — GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

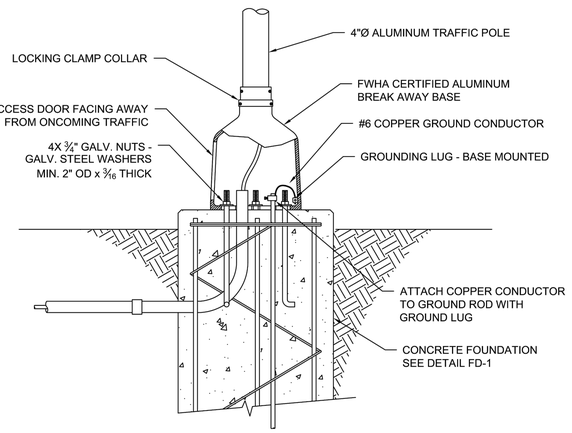
AUTOMATED GATE CONTROL DETAILS

SHEET NUMBER

C13

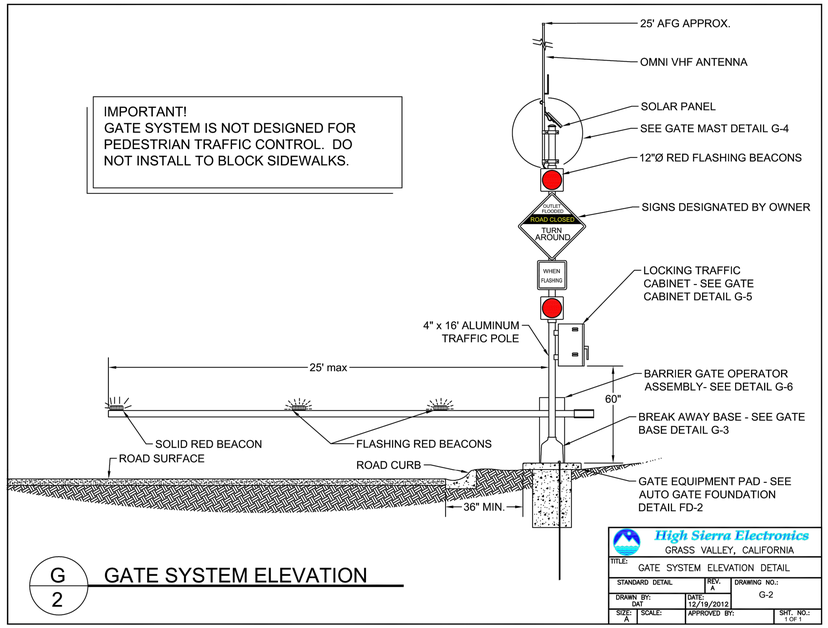
Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C2.DWG
Printed on ___% Post-Consumer

Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"
Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398.C2.DWG
Printed on ___% Post-Consumer



RM 2 TRAFFIC POLE REMOTE BASE

High Sierra Electronics GRASS VALLEY, CALIFORNIA			
TITLE: TRAFFIC POLE REMOTE BASE DETAIL			
STANDARD DETAIL		REV. A	DRAWING NO.: RM-2
DRAWN BY: DAT	DATE: 11/28/2012		
SIZE: A	SCALE:	APPROVED BY:	SHT. NO.: 1 OF 1

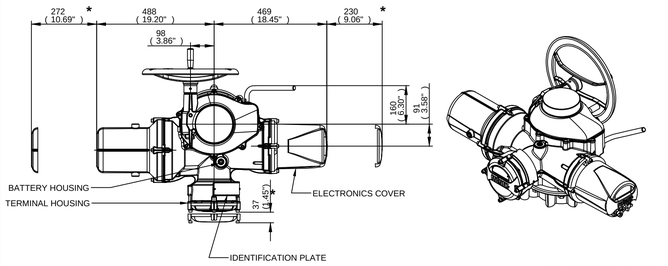


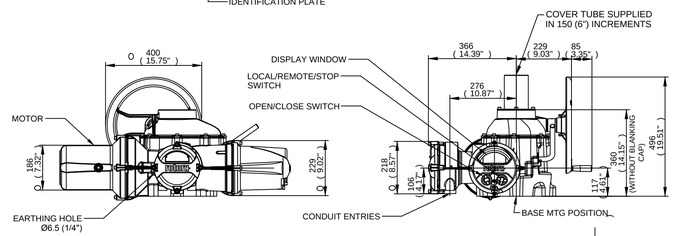
G 2 GATE SYSTEM ELEVATION

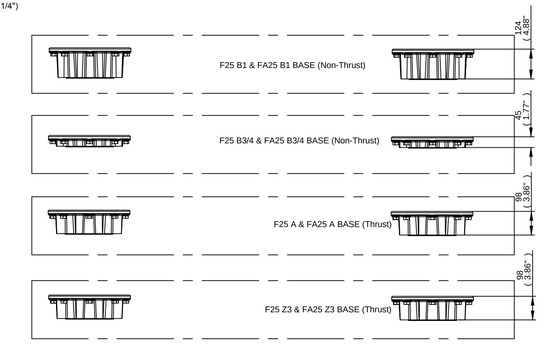
High Sierra Electronics GRASS VALLEY, CALIFORNIA			
TITLE: GATE SYSTEM ELEVATION DETAIL			
STANDARD DETAIL		REV. A	DRAWING NO.: G-2
DRAWN BY: DAT	DATE: 12/19/2012		
SIZE: A	SCALE:	APPROVED BY:	SHT. NO.: 1 OF 1

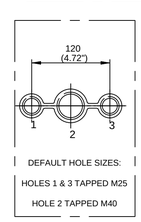
NOTES:

1. CONTRACTOR TO INSTALL PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

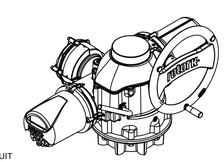








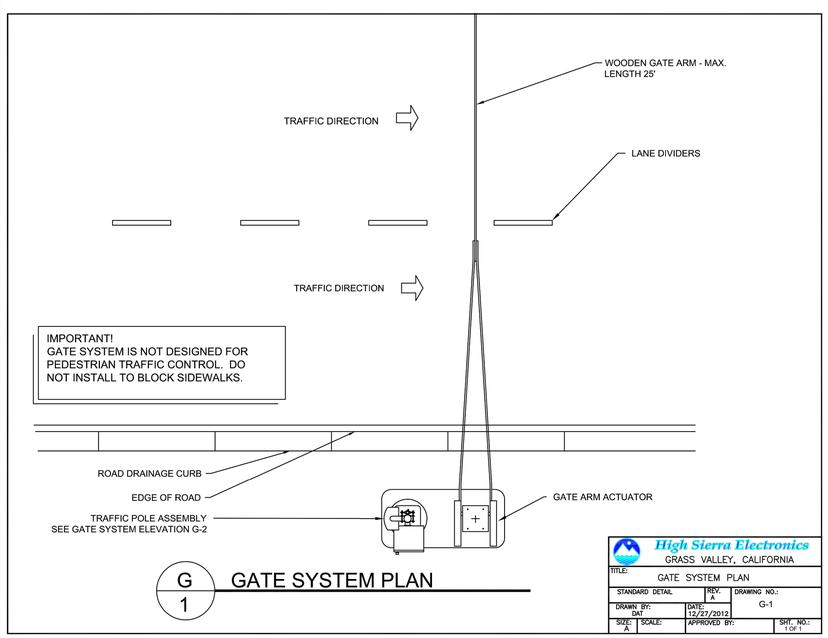
DEFAULT HOLE SIZES:
HOLES 1 & 3 TAPPED M25
HOLE 2 TAPPED M40



NOTES
1. FOUR BASE OPTIONS ARE DETAILED TO SUIT THE RELEVANT COUPLING ARRANGEMENT.
2. THE REQUIRED BASE FOR THE SIDE & END VIEWS SHOULD BE LOADED TO MTG POSITION INDICATED.
3. '*' REMOVAL ALLOWANCE REQUIRED.
4. CONTRACTOR TO INSTALL PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

SLUICE GATE ACTUATORS

DETAIL 7 C6
SCALE: NONE

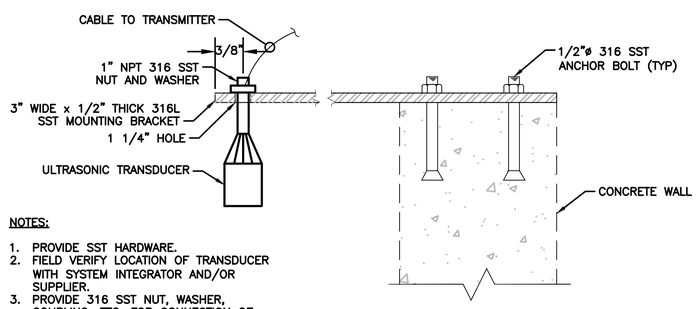


G 1 GATE SYSTEM PLAN

High Sierra Electronics GRASS VALLEY, CALIFORNIA			
TITLE: GATE SYSTEM PLAN			
STANDARD DETAIL		REV. A	DRAWING NO.: G-1
DRAWN BY: DAT	DATE: 12/27/2012		
SIZE: A	SCALE:	APPROVED BY:	SHT. NO.: 1 OF 1

AUTOMATED GATE/WARNING LIGHTS CONTROLS

DETAIL 6 C6
SCALE: NONE



NOTES:

1. PROVIDE SST HARDWARE.
2. FIELD VERIFY LOCATION OF TRANSDUCER WITH SYSTEM INTEGRATOR AND/OR SUPPLIER.
3. PROVIDE 316 SST NUT, WASHER, COUPLING, ETC. FOR CONNECTION OF TRANSDUCER AND WFC.
4. CONTRACTOR TO INSTALL PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

ULTRASONIC TRANSDUCER

DETAIL 8 C6
SCALE: NONE

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION AECOM TECHNICAL SERVICES, INC. No. 1473

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 29724 GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

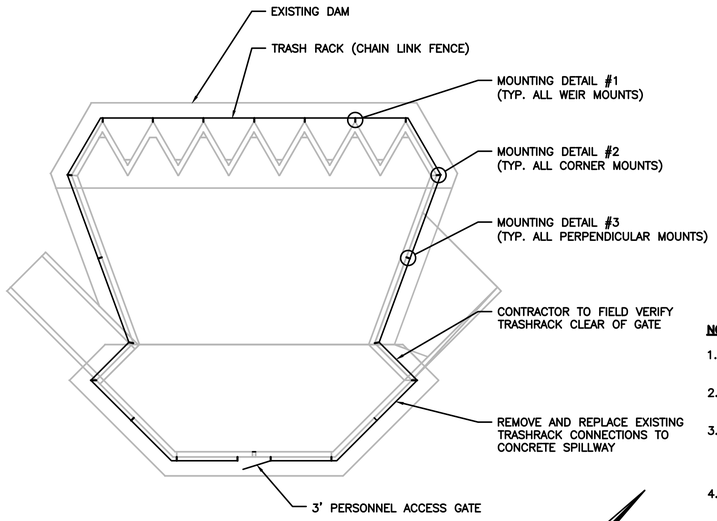
60494398

SHEET TITLE

AUTOMATED GATE CONTROL AND SLUICE GATE ACTUATOR DETAILS

SHEET NUMBER

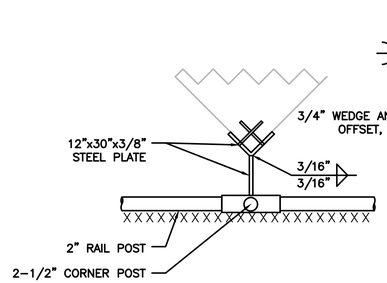
C14



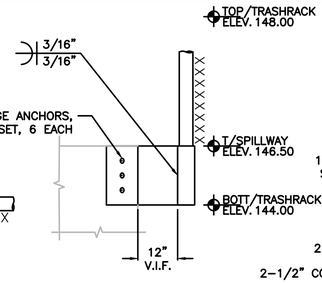
PLAN (TYP. OF 2)

NOTES:

1. THE CONTRACTOR SHALL REMOVE AND REPLACE THE DAMAGED 4-FOOT TALL TRASHRACKS ON BOTH SPILLWAYS.
2. SUBMIT SHOP DRAWINGS AND PRODUCT MATERIALS OF THE GALVANIZED STEEL TRASHRACK, FENCING AND SWING GATES FOR APPROVAL.
3. PRIOR TO PREPARING SHOP DRAWINGS AND FABRICATION, THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING DIMENSIONS OF THE SPILLWAY AND DAMAGED TRASHRACKS. IT IS THE INTENT THAT THE TRASHRACK BE REPLACED IN KIND WITH NEW GALVANIZED MATERIALS.
4. THE GALVANIZED STEEL FENCING MESH SHALL BE INSTALLED ON THE UPSTREAM SIDE OF THE GALVANIZED LATERAL AND VERTICAL SUPPORT POSTS.
5. WEDGE ANCHORS SHALL BE GALVANIZED HILTI KWIK BOLT 3 OR APPROVED EQUIVALENT.

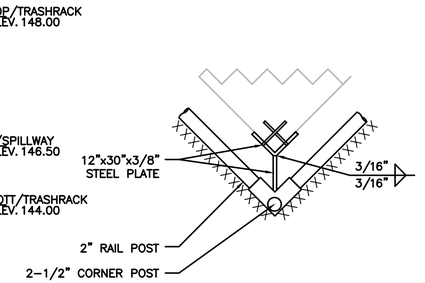


PLAN

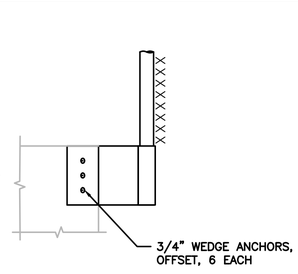


SIDE

DETAIL #1
NOT TO SCALE

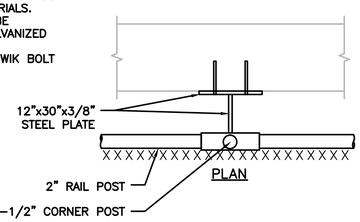


PLAN

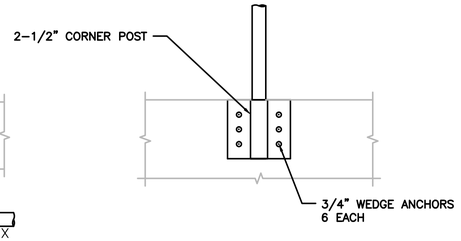


SIDE

DETAIL #2
NOT TO SCALE



PLAN

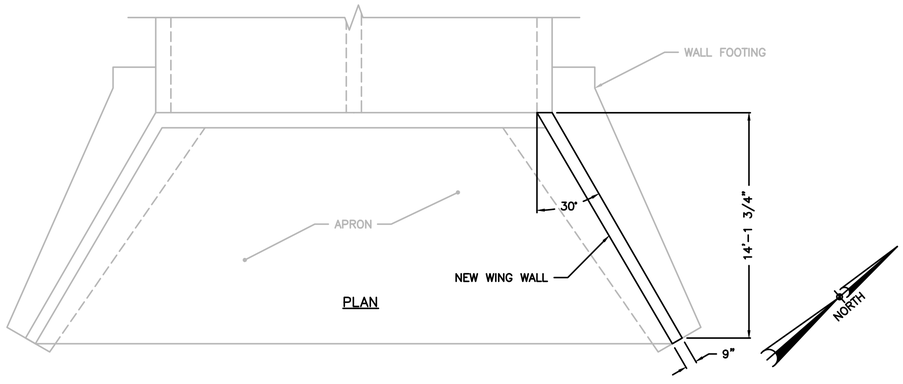


FRONT

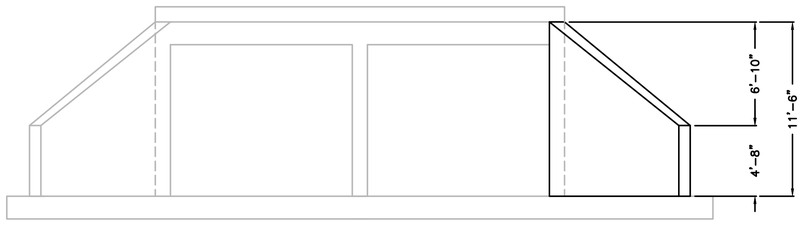
DETAIL #3
NOT TO SCALE

TRASH RACK DETAIL

SCALE: NONE — 9 / C5



PLAN



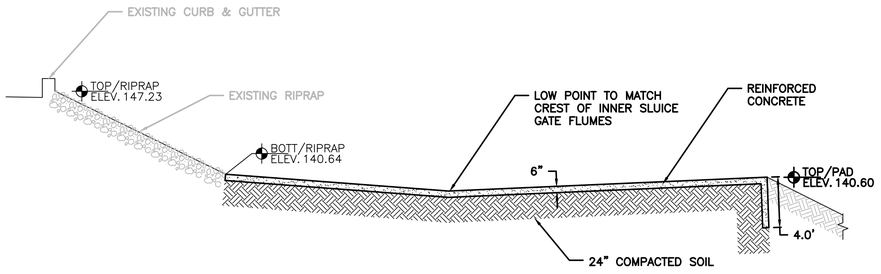
ELEVATION

NOTE:

1. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF WING WALL PRIOR TO CONSTRUCTION.

WING WALL DETAIL

SCALE: NONE — 10 / C5



SECTION A-A

NOTE:

1. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF SCOUR PAD PRIOR TO CONSTRUCTION.

SCOUR PAD DETAIL

SCALE: NONE — 11 / C5

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. — No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 29724 — GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

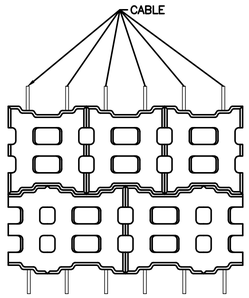
DAM AND CULVERT DETAILS

SHEET NUMBER

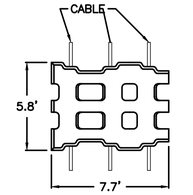
C15

Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"
Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C2.DWG
Printed on ___% Post-Consumer

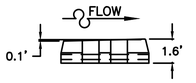
Project Management Initials: Designer:____ Checked:____ Approved:____ ANSI D 22" x 34"
Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C2.DWG
Printed on ___% Post-Consumer



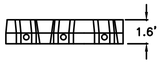
PLAN



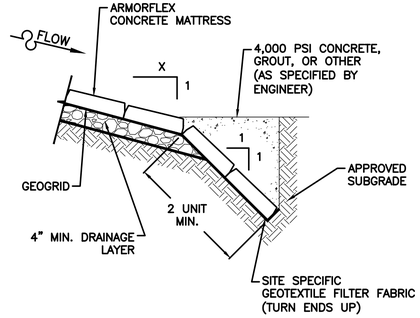
TOP



SIDE

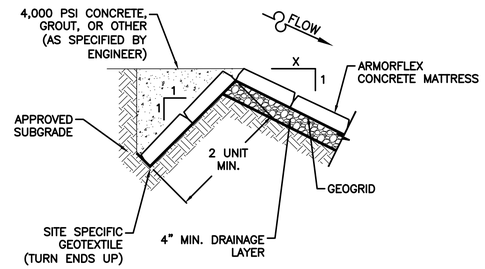


END



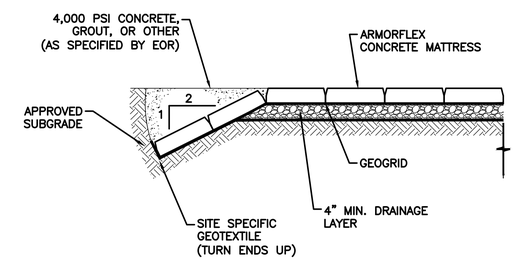
TOE TERMINATION

N.T.S.



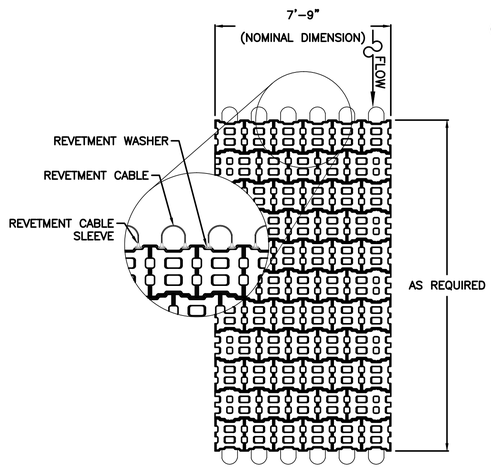
TOP TERMINATION

N.T.S.



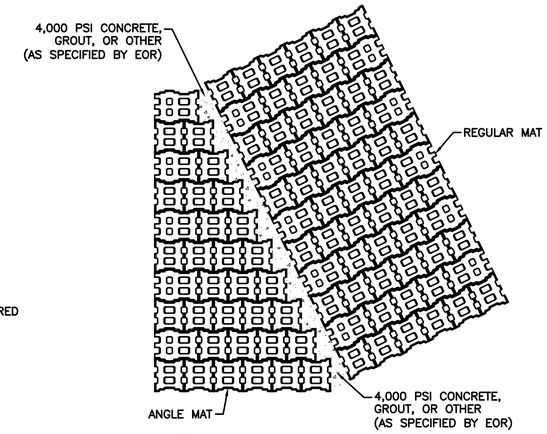
FLANK TERMINATION

N.T.S.



TYP. 40T BLOCK 1.5 MAT

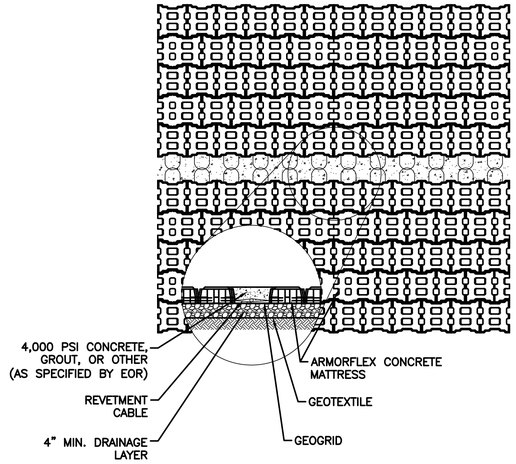
N.T.S.



NOTE:
1. CONTRACTOR TO INSTALL PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
2. ANGLE MATS WILL BE CONSTRUCTED BY OMITTING THE REQUIRED UNITS SO THE REQUIRED MAT DIMENSIONS CAN BE OBTAINED.

TYP. ANGLE MAT

N.T.S.

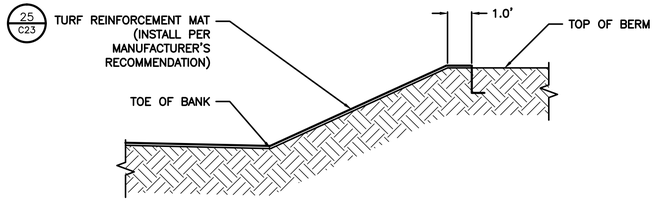


TYP. MAT TO MAT

N.T.S.

ARTICULATED CONCRETE BLOCK (ACB) ARMORING DETAIL

SCALE: NONE (12 / C9)



TURF REINFORCED MATTING DETAIL

SCALE: NONE (13 / C9)

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION AECOM TECHNICAL SERVICES, INC. No. 1473

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 29724 GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

STABILIZATION DETAILS

SHEET NUMBER

C16

ANSI D 22" x 34"
Approved:____
Checked:____
Designer:____
Project Management Initials:

I. RESPONSIBLE PARTIES:

1. OWNER (PRIMARY PERMITTEE):
   COMPANY: SUMTER COUNTY
   CONTACT: EDDIE NEWMAN
   ADDRESS: 1289 NORTH MAIN STREET
   TELEPHONE: 803.436.2241

II. PROJECT NARRATIVE:

1. EXISTING SITE CONDITIONS:
   1.1. TOTAL PROPERTY AREA: 3.01 AC
   1.2. USE: CLASS II DAM (D-1444) AND COUNTY ROAD
   1.3. VEGETATIVE COVER: GRASS, SHRUBS AND SMALL TREES
   1.4. PERCENT OF AREA IMPERVIOUS: 29%
   1.5. SLOPES: 2:1 AND 3:1
   1.6. SOILS: SILTY SAND EMBANKMENT FILL OVERLAYING NATIVE MARINE SEDIMENT.
   1.7. DISCHARGE INFORMATION:
   1.7.1. NEAREST RECEIVING WATER BODY (NRWB): GREEN SWAMP.
   1.7.2. DISTANCE TO NRWB: 0.0 FT; ADJACENT
   1.7.3. IS THE NRWB IMPAIRED? YES; FOR DISSOLVED OXYGEN.
   1.7.4. (COASTAL ZONE ONLY) ARE THERE CRITICAL AREAS ONSITE? N/A
   1.7.5. DOES THE PROJECT DISCHARGE STORMWATER TO AN MS4? SUMTER COUNTY
   1.7.6. ARE THERE ANY EXISTING FLOODING PROBLEMS NEAR THE SITE? YES; PURPOSE OF PROJECT IS FLOOD CONTROL.
   1.7.7. IS ANY PART OF THE SITE WITHIN A FLOODPLAIN? YES; ENTIRE PROJECT;
   MAP NUMBER: 45085C0292D; 2/16/2007

2. PROPOSED SITE CONDITIONS:
   2.1. TOTAL DISTURBED AREA: 3.01 AC
   2.2. USE: CLASS II DAM (D-1444) AND COUNTY ROAD
   2.3. VEGETATIVE COVER: GRASS
   2.4. PERCENT OF AREA IMPERVIOUS: 49%
   2.5. SLOPES: 2:1 AND 3:1
   2.6. SOILS:
   2.7. DISCHARGE INFORMATION:
   2.7.1. ARE THERE ANY SURFACE WATERS WITHIN 50 FEET OF YOUR CONSTRUCTION DISTURBANCES? YES
   2.7.2. IF YES, WHAT IS THE REQUIRED BUFFER ZONE? LINEAR EXEMPTION BUFFER NOT REQUIRED
   2.7.3. WHICH BUFFER COMPLIANCE OPTION IS PROPOSED FOR THE SITE? EXEMPTION 3.2.4.C.IV
   2.7.4. ARE THERE WETLAND IMPACTS AS PART OF THE PROPOSED SITE PLAN? NO WORK IS TO BE PERFORMED UNTIL ALL NECESSARY PERMITS HAVE BEEN OBTAINED. YES. NATIONWIDE PERMIT.
3. ARE THERE ANY ONSITE SUPPORT FACILITIES (BATCH PLANTS, ETC.) THAT WILL BE USED DURING CONSTRUCTION ACTIVITIES? NO.
4. ARE THERE KNOWN POTENTIAL SOURCES OF POLLUTION AS THE RESULT OF THE PRIOR USES OF THE PROPERTY? IF SO, EXPLAIN. NO; DAM CONSTRUCTED AROUND 1900. CONTAMINATED SOIL ENCOUNTERED DURING 1992 DAM REPAIR PROJECT WAS REMOVED.

III. STORMWATER MANAGEMENT AND SEDIMENT CONTROLS

1. ARE THERE ANY STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY OTHER THAN FOR CONSTRUCTION ACTIVITIES? IF SO, EXPLAIN. NO.

2. PERIMETER CONTROLS:
   PERIMETER CONTROLS ARE CRUCIAL TO THE SWPPP. THESE BMPS SHALL BE INSTALLED PRIOR TO DEMOLITION, CLEARING, OR GRADING ACTIVITIES ON THE SITE. IF MINOR DEMOLITION IS REQUIRED FOR THE INSTALLATION OF THESE PERIMETER CONTROLS, THE DEMOLITION SHOULD BE LIMITED ONLY TO THE PORTIONS OF THE SITE REQUIRED FOR INSTALLATION OF THESE MEASURES.
   2.1. SILT FENCE –
   SILT FENCE CONSISTS OF GEOTEXTILE FABRIC STRETCHED ACROSS STEEL POSTS. THE LOWER EDGE OF THE FENCE IS VERTICALLY TRENCHED INTO THE GROUND AND COVERED BY COMPACTED BACKFILL. STANDARD DETAIL FOR SILT FENCE CAN BE FOUND IN THE APPROVED CONSTRUCTION PLAN. ALL MATERIALS MUST CONFORM TO SCDOT SPECIFICATIONS.
   LOCATION: AS INDICATED ON THE APPROVED CONSTRUCTION PLANS. SILT FENCE SHALL BE CONSTRUCTED PERPENDICULAR TO FLOW DIRECTION. A DOUBLE ROW OF SILT FENCE IS REQUIRED IN DISTURBED AREAS THAT ARE WITHIN 50' OF A WETLAND. SILT FENCE MUST BE LOCATED AT LEAST TEN (10) FEET FROM ANY WETLANDS OF BODIES OF WATER. SILT FENCE PROTECTING WETLANDS SHALL BE WIRE BACKED.
   INSTALLATION SCHEDULE: PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRADING, OR DEMOLITION ACTIVITIES COMMENCE ON THE SITE.
   INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION.
   MAINTENANCE: REPAIRS SHALL BE MADE IMMEDIATELY IF ANY TEARS, GAPS, OR DECOMPOSED AREAS ARE NOTED DURING INSPECTION. SEDIMENTS SHALL BE REMOVED WHEN ACCUMULATION HEIGHTS REACH ONE-THIRD (1/3) THE FENCE HEIGHT.
   2.2. SILT FENCE OUTLET–
   SILT FENCE SHALL HAVE A STABILIZED OUTLET TO PREVENT FAILURE DUE TO PONDING WATER IN LOWER AREAS OF THE PROJECT SITE.
   LOCATION: AS NEEDED.
   INSTALLATION SCHEDULE: SHALL BE INSTALLED IN CONJUNCTION WITH THE SILT FENCE.
   INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION.
   MAINTENANCE: SEDIMENTS SHALL BE REMOVED WHEN ACCUMULATION HEIGHTS REACH ONE-HALF (1/2) THE STONE DAM HEIGHT. STONE THAT HAVE BEEN CLOGGED OR DISLODGED SHALL BE REPLACED IMMEDIATELY.

3. SEDIMENT TRACKING
   DEPOSITING OF SOILS ONTO ADJACENT ROADWAYS SHALL BE REDUCED BY THE USE OF PERIMETER CONTROLS.
   3.1. CONSTRUCTION ENTRANCE AND EXIT –
   A STABILIZED CONSTRUCTION ENTRANCE IS A TEMPORARY STONE-STABILIZED PAD OR STEEL SHAKER PLATES. LOCATED AT ALL POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE TO REDUCE THE AMOUNT OF MUD, DIRT, AND ROCKS TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES EQUIPMENT AND RUNOFF.
   LOCATION: AT ALL LOCATIONS WERE CONSTRUCTION TRAFFIC WILL BE ENTERING AND EXITING THE PROJECT SITE.
   INSTALLATION SCHEDULE: PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRADING, OR DEMOLITION ACTIVITIES COMMENCE ON THE SITE.
   INSPECTION: DAILY
   MAINTENANCE: RESHAPE THE STONE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. RINSE OR REPLACE STONES AS NEEDED WHENEVER THE ENTRANCE FAILS TO REDUCE MUD BEING CARRIED OFF SITE BY VEHICLES. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. FREQUENT RINSING WILL EXTEND THE USEFUL LIFE OF STONE. IMMEDIATELY REMOVE ANY MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.
   3.2. STREET SWEEPING –
   STREET SWEEPING IS THE REMOVAL OF SEDIMENTS THAT HAVE BEEN TRACKED ONTO NEARBY PAVEMENTS BY EQUIPMENT EXITING THE SITE.
   LOCATION: AT ALL AREAS WHERE CONSTRUCTION TRAFFIC EXITS THE DISTURBED AREAS OF THE PROJECT SITE.
   INSTALLATION SCHEDULE: BEGIN SWEEPING OPERATIONS AT ON-SET OF ANY CONSTRUCTION ACTIVITIES.
   INSPECTION: DAILY.
   MAINTENANCE: SWEEP AS NECESSARY TO REMOVE TRACKING OF SEDIMENTS ON PAVEMENT.

4. STOCKPILED SEDIMENT, MATERIALS OR DEMOLITION DEBRIS
   ALL STOCKPILES SHALL BE PROTECTED FROM EROSION WITH TEMPORARY STABILIZATION AND PERIMETER SILT FENCING PER THE APPROVED CONSTRUCTION PLANS.
   LOCATION: AS INDICATED ON THE APPROVED CONSTRUCTION PLANS. SELECT STOCKPILE LOCATION TO AVOID SLOPES, NATURAL DRAINAGE WAYS, AND TRAFFIC ROUTES.
   INSTALLATION SCHEDULE: MATERIAL STOCKPILES MAY NOT BE INITIATED UNTIL AFTER ALL PERIMETER CONTROLS AND SEDIMENT TRAPS/BASINS ARE IN PLACE.
   INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION
   MAINTENANCE: IF RILLS APPEAR, RE-GRADE AND RE-STABILIZE IMMEDIATELY. STOCKPILES MAY BE COVERED WITH MATTING, SHEETING, OR OTHER MATERIALS TO MINIMIZE EROSION. MAINTAIN SILT FENCE IN ACCORDANCE WITH STANDARD SCDHEC NOTES AND DETAILS FROM CONSTRUCTION PLANS.

5. MINIMIZE DUST
   DUST CONTROL WILL BE IMPLEMENTED BY APPLYING WATER AS NEEDED ONCE SITE GRADING HAS BEGUN AND DURING WINDY CONDITIONS (FORECASTED OR ACTUAL WIND CONDITIONS OF 20 MPH OR GREATER) WHILE SITE GRADING IS OCCURRING, AND IN AREAS OF EXPOSED SOIL.
   5.1. DUST CONTROL –
   LOCATION: ON DISTURBED AREAS THAT HAVE NOT BEEN STABILIZED WITH VEGETATION.
   INSTALLATION SCHEDULE: AS REQUIRED BY WEATHER CONDITIONS. DUST CONTROL SHALL BE CONTINUED UNTIL FINAL STABILIZATION IS ACHIEVED.
   INSPECTION: DAILY OBSERVATION OF CONDITIONS.

6. DISTURBANCE OF STEEP SLOPES
   STEEP SLOPES ARE ANY SLOPE EXCEEDING 30% OR 3:1. STABILIZATION MEASURES MUST BE INITIATED ON ANY EXPOSED STEEP SLOPE AREA WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 14 CALENDAR DAYS.
   6.1. EROSION CONTROL BLANKETS –
   TEMPORARY EROSION CONTROL BLANKETS (ECBS) ARE PRODUCTS COMPOSED PRIMARILY OF BIOLOGICALLY, PHOTOCHEMICALLY OR OTHERWISE DEGRADABLE CONSTITUENTS SUCH AS WHEAT STRAW, COCONUT FIBER, OR AGED CURLED EXCELSIOR WOOD PRODUCT WITH LONGEVITY OF APPROXIMATELY 1- TO 3-YEARS. REFER TO APPROVED TECHNICAL SPECIFICATION AND CONSTRUCTION PLANS FOR INFORMATION ON MATERIALS. MATERIALS SHOULD COMPLY WITH LATEST SCDOT REQUIREMENTS.
   LOCATION: AS NEEDED.
   INSTALLATION SCHEDULE: USE ECBS FOR TEMPORARY STABILIZATION OF SOIL IMMEDIATELY FOLLOWING SEEDING UNTIL THE VEGETATIVE COVER HAS GROWN AND BECOMES ESTABLISHED. INSTALL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.
   INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION.
   MAINTENANCE: IF WASHOUT OR BREAKAGE OCCURS, REPAIR ALL DAMAGED AREAS IMMEDIATELY BY RESTORING THE SOIL ON SLOPES OR CHANNELS TO ITS FINISHED GRADE, REAPPLY SEED, AND REPLACING THE APPROPRIATE ECB MATERIAL AS NEEDED. VERIFY MATTING MAINTAINS GOOD CONTACT WITH THE SLOPE SURFACE. EROSION SHOULD NOT BE OCCURRING BELOW THE MATTING. IS CONTACT IS LOST BETWEEN MAT AND SLOPE, THE AREA SHOULD BE REPAIRED AND RESTAPLED.
   6.2. TEMPORARY SLOPE DRAINS –
   USE PIPE SLOPE DRAINS WHEN IT IS NECESSARY FOR WATER TO FLOW DOWN A SLOPE WITHOUT CAUSING EROSION, ESPECIALLY BEFORE A SLOPE HAS BEEN STABILIZED OR BEFORE PERMANENT DRAINAGE STRUCTURES ARE INSTALLED. DETAILS FOR SLOPE DRAINS CAN BE FOUND ON THE APPROVED CONSTRUCTION PLANS.
   LOCATION: CONTRACTOR MAY ELECT TO ADD ADDITIONAL SLOPE DRAINS TO ENABLE SLOPE STABILIZATION IN AREAS WITH ON-GOING EROSION ISSUES.
   INSTALLATION SCHEDULE: INSTALL TEMPORARY PIPE SLOPE DRAINS AFTER FINAL SLOPE GRADES HAVE BEEN ATTAINED, BUT PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES.
   INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION
   MAINTENANCE: INSPECT THE INLET FOR UNDERCUTTING, AND WATER BYPASSING THE POINT OF ENTRY. IF THERE ARE PROBLEMS, REINFORCE THE HEADWALL WITH COMPACTED EARTH OR SANDBAGS. INSPECT THE OUTLET POINT FOR EROSION AND APPROPRIATE OUTLET PROTECTION.
   6.3. DIVERSION CHANNELS / BERMS –
   USE DIVERSION CHANNELS WHEN IT IS NECESSARY TO DIRECT STORMWATER AWAY FROM CRITICAL CONSTRUCTION AREAS. A DIVERSION CAN BE CREATED BY USING A RIDGE, AN EXCAVATION, OR A COMBINATION. DETAILS FOR DIVERSION CHANNELS CAN BE FOUND ON THE APPROVED CONSTRUCTION PLANS.
   LOCATION: CONTRACTOR MAY ELECT TO ADD DIVERSION CHANNELS OR BERMS AS REQUIRED FOR CONSTRUCTION ACTIVITIES. ALL TEMPORARY CHANNELS OR BERMS SHALL BE DIRECTED TO THE APPROPRIATE SEDIMENT CONTROL MEASURE.
   INSTALLATION SCHEDULE: INSTALL DIVERSION CHANNELS AS INDICATED BY THE CONSTRUCTION SCHEDULE.
   INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION
   MAINTENANCE: IN THE EVENT OF A WASHOUT, RE-GRADE, COMPACT AND STABILIZE THE SOIL USED TO BUILD EARTHEN DIKES. IF EROSION IN CHANNELS IS EVIDENT, STABILIZE THE DITCH WITH CHECK DAMS, TRM, BAFFLES, OR SEDIMENT TUBES. MAINTAIN DISCHARGE LOCATION TO REDUCE EROSION.

7. TOPSOIL
   PRESERVING AND USING TOPSOIL TO ENHANCE FINAL SITE STABILIZATION WITH VEGETATION.
   LOCATION: STRIP TOPSOIL ONLY FROM THOSE AREAS THAT WILL BE DISTURBED BY EXCAVATION, FILLING, ROAD BUILDING, OR COMPACTION BY EQUIPMENT. A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT DEPTH VARIES DEPENDING ON THE SITE. ALL TOPSOIL STOCKPILES MUST BE PROTECTED FROM EROSION AS DETAILED IN THE STANDARD STOCKPILE DETAIL INCLUDED IN THE APPROVED CONSTRUCTION PLANS.
   INSTALLATION SCHEDULE: TOPSOILING MUST BEGIN ONLY AFTER PERIMETER CONTROLS, DIVERSION SWALES, AND SEDIMENT TRAPS ARE IN PLACE.
   INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION
   MAINTENANCE: INSPECT STOCKPILE FOR SIGNS OF EROSION. STOCKPILE MAY BE COVERED IF STORM EVENTS ARE ANTICIPATED.

8. SOIL COMPACTION
   CONTRACTOR SHALL MINIMIZE THE COMPACTION OF SOILS IN AREAS OUTSIDE OF THE PERMANENT IMPROVEMENTS. LIMIT THE USE OF HEAVY MACHINERY AND EQUIPMENT TO AREA OF PARKING AREAS AND STRUCTURAL PADS. DO NOT OPERATE COMPACTION EQUIPMENT IN LANDSCAPE OR BUFFER AREAS UNTIL PERMANENT IMPROVEMENTS ARE REQUIRED IN THAT AREA.

9. STORM DRAIN INLETS
   STORM DRAIN INLET PROTECTION IS ACHIEVED BY PLACING A TEMPORARY FILTERING DEVICE AROUND AN INLET TO TRAP SEDIMENT. THIS MECHANISM PREVENTS SEDIMENT FROM ENTERING INLET STRUCTURES. ADDITIONALLY, IT SERVES TO PREVENT THE SILTING-IN OF INLETS, STORM DRAINAGE SYSTEMS, OR RECEIVING CHANNELS. THE TYPE OF INLET PROTECTION IS DEPENDENT ON THE AMOUNT OF STORMWATER RUN-OFF ANTICIPATED AT THE INLET LOCATION, AS WELL AS THE LOCATION OF THE INLET. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO SCDOT AND SCDHEC STANDARDS. IF, DUE TO INLET CONTROLS, STORMWATER BYPASSES INLETS AND EXITS SITE UNFILTERED, THEN THE ADDITIONAL CONTROLS SHALL BE ADDED AS REQUIRED.
   9.1. TYPE A INLET PROTECTION –
   LOCATION: AS INDICATED ON THE APPROVED CONSTRUCTION PLANS
   INSTALLATION SCHEDULE: EXISTING INLETS WITHIN OR ADJACENT TO THE PROJECT SITE SHOULD BE PROTECTED PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES ON SITE. NEW INLETS CONSTRUCTED ON THE SITE SHALL BE FITTED WITH THE APPROPRIATE INLET PROTECTION AS SOON AS THE STRUCTURE IS INSTALLED.
   INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION
   MAINTENANCE: INSPECT AFTER INSTALLATION FOR GAPS THAT MAY PERMIT SEDIMENT TO ENTER THE STORM DRAINAGE SYSTEM. REMOVE ACCUMULATED SEDIMENT AND DEBRIS FROM THE SURFACE AND VICINITY OF INLET FILTERS WHEN SEDIMENT ACCUMULATION REACHED 1/3 THE HEIGHT OF THE SILT FENCE OR AS DIRECTED BY THE ENGINEER. REPAIR ANY DAMAGE TO INLET PROTECTION WITHIN 48 HOURS.
   9.2. TYPE E INLET PROTECTION –
   LOCATION: AS INDICATED ON THE APPROVED CONSTRUCTION PLANS
   INSTALLATION SCHEDULE: EXISTING INLETS WITHIN OR ADJACENT TO THE PROJECT SITE SHOULD BE PROTECTED PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES ON SITE. ALL OTHER INLETS SHALL HAVE INLET PROTECTION INSTALLED AS SOON AS THE STRUCTURE HAS BEEN PLACED AND BACKFILLED.
   INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION
   MAINTENANCE: INSPECT AFTER INSTALLATION TO INSURE THAT NO GAPS EXIST THAT MAY PERMIT SEDIMENT TO ENTER THE STORM DRAIN SYSTEM. CLEAN THE RIGID INLET PROTECTION FILTER MATERIAL WHEN IT BECOMES COVERED OR CLOGGED WITH DEPOSITED SEDIMENT. REPLACE THE RIGID INLET PROTECTION FILTER MATERIAL AS DIRECTED BY THE ENGINEER.
   9.3. TYPE F INLET PROTECTION –
   LOCATION: AS INDICATED ON THE APPROVED CONSTRUCTION PLANS
   INSTALLATION SCHEDULE: EXISTING INLETS WITHIN OR ADJACENT TO THE PROJECT SITE SHOULD BE PROTECTED PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES ON SITE. TYPE F INLET PROTECTION SHOULD BE INSTALLED AFTER BASE COURSE IS INSTALLED. ONCE THE STONE BASE HAS BEEN PLACED AND COMPACTED, INLET PROTECTION SHOULD BE RETURNED TO ALL INLETS AS INDICATED BY THE APPROVED CONSTRUCTION PLANS.
   INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION
   MAINTENANCE: CLEAN THE SURFACE COURSE CURB INLET FILTER IF A VISUAL INSPECTION SHOWS SILT AND DEBRIS BUILDING UP AROUND THE FILTER. RELOCATE TUBES THAT HAVE BEEN MOVED DURING CONSTRUCTION ACTIVITIES.

10. ROCK DITCH CHECK
    A ROCK DITCH CHECK IS A TEMPORARY ROCK FILL DAM CONSTRUCTED ACROSS A DRAINAGE DITCH, SWALES, OR CHANNEL TO LOWER THE SPEED OF CONCENTRATED FLOW AND REMOVE SUSPENDED SOLIDS. REFER TO THE TECHNICAL SPECIFICATIONS AND CONSTRUCTION PLANS FOR INFORMATION ON MATERIALS. MATERIALS SHOULD COMPLY WITH LATEST SCDHEC REQUIREMENTS.
    LOCATION: AS INDICATED IN THE APPROVED CONSTRUCTION PLANS.
    INSTALLATION: INSTALL PRIOR TO LAND DISTURBING ACTIVITIES.
    INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION.
    MAINTENANCE: SEDIMENTS SHALL BE REMOVED WHEN ACCUMULATION HEIGHTS REACH ONE-HALF (1/2) THE STONE DAM HEIGHT. STONE THAT HAVE BEEN CLOGGED OR DISLODGED SHALL BE REPLACED IMMEDIATELY.

11. DEWATERING PRACTICES
    CONSTRUCTION DEWATERING INVOLVES REMOVING STORM WATER OR GROUNDWATER FROM BORE PITS, TRENCHES, COFFER DAMS AND OTHER EXCAVATIONS ON A CONSTRUCTION SITE. MAY ALSO INCLUDE REMOVING SURFACE WATER FROM A COFFERDAM IMPOUNDMENT. TYPICALLY, THIS REMOVAL OF WATER INVOLVES THE PUMPING OF THE WATER TO AN APPROPRIATE RECEIVING AREA. DIRECT PUMPING TO LAKES, RIVERS, AND STREAMS IS ILLEGAL AND MUST BE AVOIDED. ALL DISCHARGES MUST BE TO AN ADEQUATELY SIZE SEDIMENT TRAP, DETENTION BASIN, OR THROUGH A DEWATERING BAG. CONTRACT SHALL REFERENCE TECHNICAL SPECIFICATION FOR DEWATERING AS INCLUDED IN THE CONSTRUCTION DOCUMENTS.
    LOCATION: AT ALL EXCAVATIONS OR COFFERDAM IMPOUNDMENTS THAT REQUIRE DEWATERING.
    INSTALLATION SCHEDULE: AS REQUIRED, BUT NOT PRIOR TO INSTALLATION OF PERIMETER CONTROLS.
    INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION.
    MAINTENANCE: ENSURE THAT EROSION DOES NOT OCCUR AT THE OUTLET OF THE HOSE FROM THE PUMP DUE TO HIGH CONCENTRATED FLOWS.

12. OTHER STORMWATER CONTROLS –
    LOCATION: AS INDICATED ON THE PLANS OR DIRECTED BY ENGINEER
    INSPECTION: AS REQUIRED
    MAINTENANCE: AS REQUIRED
    12.1. FUELING AREAS –
    LOCATION: AS INDICATED ON THE PLANS OR DIRECTED BY ENGINEER.
    INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION.
    MAINTENANCE: INSPECT FUELING AREAS FOR SIGNS OF SPILLED FUEL. CLEAN AND MAINTAIN AS NECESSARY.
    12.2. MATERIAL AND WASTE STORAGE –
    LOCATION: AS INDICATED ON THE PLANS OR DIRECTED BY ENGINEER.
    INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION.
    MAINTENANCE: INSPECT MATERIAL AND WASTE STORAGE AREA FOR SIGNS OF EROSION OR PRECIPITATION MAKING CONTACT WITH MATERIALS OR WASTE WITHIN. CLEAN AND MAINTAIN AS REQUIRED TO ENSURE PROPER STORAGE.
    12.3. PORTABLE TOILETS –
    LOCATION: AS INDICATED ON THE PLANS OR DIRECTED BY ENGINEER.
    INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION.
    MAINTENANCE: INSPECT PORTABLE TOILETS FOR LEAKS OR DAMAGE. HAVE PORTABLE TOILETS CLEANED AND EMPTIED REGULARLY TO MAINTAIN NORMAL USE.
    12.4. CONCRETE WASHOUT –
    LOCATION: AS INDICATED ON THE PLANS OR DIRECTED BY ENGINEER.
    INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½-INCHES OR MORE OF PRECIPITATION.
    MAINTENANCE: INSPECT CONCRETE WASHOUT FOR LEAKS OR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES. WHEN THE CONCRETE WASHOUT IS FILLED TO OVER 75 PERCENT CAPACITY THE WASHWATER SHOULD BE VACUUMED OFF. THE REMAINING CEMENTITIOUS SOLIDS SHOULD BE REMOVED AND RECYCLED AFTER HARDENING.

13. SITE STABILIZATION
    SITE STABILIZATION CAN BE EITHER TEMPORARY OR PERMANENT DEPENDING ON THE NEED FOR FURTHER CONSTRUCTION ACTIVITIES WITHIN THE AREA. SELECTION OF STABILIZATION METHOD SHALL BE CONSISTENT WITH THE APPROVED CONSTRUCTION PLANS. ALL STABILIZATION MEASURES SHALL BE RECORDED IN THE GRADING AND STABILIZATION LOG FOUND IN APPENDIX H OF THE APPROVED SWPPP. IT IS THE OPERATORS RESPONSIBILITY TO UPDATE THIS LOG AND MAINTAIN IT AS PART OF THE SWPPP.
    13.1. TEMPORARY STABILIZATION
    TEMPORARY STABILIZATION IS REQUIRED AS SOON AS PRACTICAL BUT NO MORE THAN 14 DAYS AFTER LAND DISTURBING ACTIVITIES HAVE CEASED. COVER SEEDED AREAS WITH AN APPROPRIATE MULCH TO PROVIDE PROTECTION FROM THE WEATHER. WHEN THE TEMPORARY VEGETATION DOES NOT GROW QUICKLY OR THICK ENOUGH TO PREVENT EROSION, RE-SEED AS SOON AS POSSIBLE. KEEP SEEDED AREAS ADEQUATELY MOIST. IRRIGATE THE SEEDED AREA IF NORMAL RAINFALL IS NOT ADEQUATE FOR THE GERMINATION AND GROWTH OF SEEDLINGS. WATER SEEDED AREAS AT CONTROLLED RATES THAT ARE

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. — No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 29724 — GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

STORMWATER POLLUTION PREVENTION PLAN NOTES

SHEET NUMBER

C17

Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C17.DWG
Printed on ___% Post-Consumer

Project Management Initials: Designer:____ Checked:____ Approved:____ ANSI D 22" x 34"

LESS THAN THE RATE AT WHICH THE SOIL CAN ABSORB WATER TO PREVENT RUNOFF. RUNOFF OF IRRIGATION WATER WASTES WATER AND CAN CAUSE EROSION. SEED SELECTION IS BASED ON GEOGRAPHICAL LOCATION, SOIL TYPE AND THE SEASON OF THE YEAR IN WHICH THE PLANTING IS TO BE DONE. SEEDING SHALL BE COMPLETED IN ACCORDANCE WITH THE SEEDING AND PLANTING SCHEDULE INCLUDED ON THE APPROVED CONSTRUCTION PLANS.

INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24–HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½–INCHES OR MORE OF PRECIPITATION.

MAINTENANCE: SUPPLY TEMPORARY SEEDING WITH ADEQUATE MOISTURE. SUPPLY WATER AS NEEDED, ESPECIALLY IN ABNORMALLY HOT OR DRY WEATHER OR ON ADVERSE SITES. RE–SEED AREAS WHERE THE PLANTS DO NOT GROW QUICK ENOUGH, THICK ENOUGH, OR ADEQUATELY ENOUGH TO PREVENT EROSION SHOULD BE RESEEDED.

13.2. PERMANENT STABILIZATION

ONCE ALL LAND–DISTURBING ACTIVITIES AT THE CONSTRUCTION SITE HAVE BEEN COMPLETED, ALL AREAS NOT COVERED BY PERMANENT STRUCTURES, MUST ESTABLISH FINAL STABILIZATION. FINAL STABILIZATION INCLUDES EITHER:

- A UNIFORM (E.G., EVENLY DISTRIBUTED, WITHOUT LARGE BARE AREAS) VEGETATIVE COVER WITH A DENSITY OF 70 PERCENT OF THE NATURAL BACKGROUND VEGETATIVE COVER HAS BEEN ESTABLISHED EXCLUDING AREAS WHERE NO NATURAL BACKGROUND VEGETATIVE COVER IS POSSIBLE (E.G., ON A BEACH), OR
- EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF LANDSCAPING MULCH, RIPRAP, PAVEMENT, AND GRAVEL).

THE PERMANENT STABILIZATION SHALL BE COMPLETED IN ACCORDANCE WITH THE STABILIZATION PLAN INCLUDED IN THE APPROVED CONSTRUCTION DRAWINGS. PERMANENT VEGETATION SHALL BE COMPLETED IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLANS AND SPECIFICATIONS OR SEEDING SCHEDULE AND TECHNICAL SPECIFICATIONS.

PERMANENT SEEDING WILL BE APPLIED IMMEDIATELY AFTER THE FINAL DESIGN GRADES ARE ACHIEVED ON PORTIONS OF THE SITE BUT NO LATER THAN 14 DAYS AFTER CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED. AFTER THE ENTIRE SITE IS STABILIZED, ANY SEDIMENT THAT HAS ACCUMULATED WILL BE REMOVED AND HAULED OFF–SITE FOR DISPOSAL. CONSTRUCTION DEBRIS, TRASH AND TEMPORARY BMPS (INCLUDING SILT FENCES, MATERIAL STORAGE AREAS, SANITARY TOILETS, AND INLET PROTECTION) WILL ALSO BE REMOVED AND ANY AREAS DISTURBED DURING REMOVAL WILL BE SEEDED IMMEDIATELY.

- IN AREAS WHERE DISTURBANCE RESULTS IN SUBSOIL BEING THE FINAL GRADE SURFACE, TOPSOIL WILL BE SPREAD OVER THE FINISHED AREA AT MINIMUM DEPTH OF 2 TO 6 INCHES.
- THE SEEDBED WILL BE FREE OF LARGE CLODS, ROCKS, WOODY DEBRIS AND OTHER OBJECTIONABLE MATERIALS.
- THE TOP LAYER OF SOIL WILL BE LOOSENED
- GRASS SELECTION SHALL COMPLY WITH THE APPROVED PLANS AND SPECIFICATIONS
- HYDROMULCH SHALL BE APPLIED IMMEDIATELY FOLLOWING SEEDING AT THE PUBLISHED APPLICATION RATE.
- IF VEGETATIVE COVER IS NOT ATTAINED, THE AREA SHALL BE RESEEDED, AND MULCHED IMMEDIATELY

13.3. TURF REINFORCEMENT MATS (TRMS)–

USE TRMS WHERE VEGETATION ALONE WILL NOT HOLD A SLOPE OR STREAMBANK. TRMS ENABLE THE USE OF "GREEN" SOLUTIONS IN AREAS WHERE ONLY "HARD" SOLUTIONS SUCH AS RIPRAP OR CONCRETE LININGS WERE VIABLE IN THE PAST.

LOCATION: AS INDICATED ON THE APPROVED CONSTRUCTION PLANS

INSTALLATION SCHEDULE: APPLY MATTING AS SOON AS SURFACE HAS BEEN PREPARED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.

INSPECTION: INSPECT EVERY 7 CALENDAR DAYS AND WITHIN 24–HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES ½–INCHES OR MORE OF PRECIPITATION.

MAINTENANCE: IF WASHOUT OR BREAKAGE OCCURS, REPAIR ALL DAMAGED AREAS IMMEDIATELY BY RESTORING THE SOIL ON SLOPES OR CHANNELS TO ITS FINISHED GRADE, REAPPLY FERTILIZER AND SEED, AND REPLACING THE APPROPRIATE ECB MATERIAL AS NEEDED. VERIFY MATTING MAINTAINS GOOD CONTACT WITH THE SLOPE SURFACE. EROSION SHOULD NOT BE OCCURRING BELOW THE MATTING. IS CONTACT IS LOST BETWEEN MAT AND SLOPE, THE AREA SHOULD BE REPAIRED AND RESTAPLED.

13.4 ARTICULATED CONCRETE BLOCK (ACB)–

ACB WILL BE INSTALLED WITHIN THE CHANNEL OF THE EMERGENCY SPILLWAY TO PREVENT SOIL EROSION AND UNDERCUTTING OF THE SPILLWAY. RIP–RAP TO BE INSTALLED NEAR THE BASE OF THE EMERGENCY SPILLWAY TO DISSIPATE ENERGY AND SPEED OF DISCHARGING WATER. EXIT VELOCITIES OF RUNOFF FOR THE 25 YEAR STORM WILL BE NON EROSIVE (LESS THAN 5 FT/S)

LOCATION: AS INDICATED IN THE APPROVED CONSTRUCTION PLANS.

INSTALLATION/INSPECTION/MAINTENANCE: IN ACCORDANCE WITH THE APPROVED TECHNICAL STANDARDS AND PER MANUFACTURER'S RECOMMENDATIONS.

V. CONSTRUCTION–RELATED POLLUTANTS:

1. THE FOLLOWING CONSTRUCTION–RELATED EQUIPMENT OR ACTIVITIES HAVE THE POTENTIAL TO BECOME POLLUTANT SOURCES:
   - 1.1. CONSTRUCTION EQUIPMENT THAT CONTAIN FLUIDS, FUELS, ETC;
   - 1.2. CONSTRUCTION MATERIALS, INCLUDING PAINTS, LUBRICANTS, FERTILIZERS, ETC. THAT ARE KEPT IN STOCKPILES, OR GENERALLY ONSITE;
   - 1.3. CONCRETE FORMS, ADMIXTURES, FORM LUBRICANTS, ETC.;
   - 1.4. SANITARY OR DOMESTIC WASTE FROM WORKERS;
   - 1.5. LANDSCAPING MATERIALS SUCH AS FERTILIZERS AND HERBICIDES.
2. THE CONTRACTOR SHALL HAVE A PROJECT SPECIFIC SPILL PLAN AS PART OF THE APPROVED SWPPP PRIOR TO CONSTRUCTION ACTIVITY. ANY SPILL MUST BE REPORTED TO THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE THE NECESSARY ACTIONS BASED ON THE SPCC.
3. REFER TO 40 CFR 302.4, 40 CFR 117.21 AND 40 CFR 110.10 FOR QUANTITIES RELATING TO SPILLS OR RELEASES WHICH REQUIRE REPORTING. IF A REPORTABLE QUANTITY IS RELEASED, IMMEDIATELY NOTIFY:
   - NATIONAL RESPONSE CENTER: PHONE: 1–800–424–8802
   - SCDHEC EMERGENCY REPONSE SECTION: PHONE: 803–253–6488
4. A RELEASE INCIDENT WILL BE IMMEDIATELY EVALUATED BY THE CONTRACTOR TO DETERMINE IF NOTIFICATION UNDER OTHER REGULATIONS (CERCLA, SARA, RIGHT–TO–KNOW, RCRA, ETC.) WILL NEED TO BE MADE TO THE APPROPRIATE FEDERAL, STATE, OR LOCAL AGENCIES.
5. THE SPILLS AND RELEASES LOG, A PART OF THIS SWPPP, SHALL BE UPDATED WITHIN 24–HOURS OF AN EVENT. THE SWPP MUST BE REVIEWED TO IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES. THE SWPPP MUST BE MODIFIED WITHIN 14 DAYS OF THE EVENT.

VI. PRE–CONSTRUCTION, INSPECTION, AND CORRECTIVE ACTION

1. PRE–CONSTRUCTION CONFERENCE:

   A PRE–CONSTRUCTION CONFERENCE WILL BE HELD [IF NON–LINEAR AND LESS THAN 10–ACRES MEETING MAY BE HELD OFFSITE UNLESS OTHERWISE REQUIRED BY SCDHEC] PRIOR TO CONSTRUCTION. ALL CONTRACTORS AND SUBCONTRACTORS THAT ARE RESPONSIBLE FOR LAND DISTURBING ACTIVITIES MUST BE IN ATTENDANCE.

2. INSPECTION PERSONNEL AND PROCEDURES:

   THE CONSTRUCTION SITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS BY [IF < 2 AC, INSPECTOR MAY BE THE PERMITTEE OR HIS DESIGNEE SO LONG AS THE SWPPP PREPARER OR SOMEONE WITH AN EQUIVALENT REGISTRATION EXPLAINS THE OS–SWPPP AND ITS IMPLEMENTATION; IF > 2 AC, INSPECTIONS MUST BE CARRIED OUT BY: A) THE PREPARER OF THE SWPPP; B) AN INDIVIDUAL UNDER THE DIRECT SUPERVISION OF THE PREPARER OF THE SWPPP; C) AN INDIVIDUAL WHO HAS BEEN CERTIFIED THROUGH A CONSTRUCTION SITE INSPECTOR CERTIFICATION COURSE THAT HAS BEEN APPROVED BY SCDHEC].

   INSPECTION FORMS:

   THE INSPECTOR IS RESPONSIBLE FOR COMPLETING THE APPROVED INSPECTION FORM PROVIDED BY THE SWPPP PREPARER FOR EACH INSPECTION PERFORMED. ANY CHANGES TO THE FORM MUST BE APPROVED BY THE SWPPP PREPARER PRIOR TO USING THE FORM FOR REPORTING.

   RECORD MAINTENANCE:

   A COPY OF THE INSPECTION REPORT SHALL BE MAINTAINED ON THE SITE AND MADE AVAILABLE TO SCDHEC PERSONNEL UPON REQUEST. EACH INSPECTION SHALL BE LOGGED IN THE SWPPP INSPECTION LOG THAT HAS BEEN PROVIDED BY THE SWPPP PREPARER. ALL RECORDS SHALL BE MAINTAINED FOR THREE (3) YEARS.

   RAINFALL REPORTING:

   ALL RAIN EVENTS OF 0.5" OR GREATER OF CUMULATIVE RAINFALL, AS MEASURED FROM: A) A RAIN GAUGE KEPT ONSITE; B) A CERTIFIED WEATHER RECORD FROM A PERSONAL WEATHER STATION; C) NEARBY AIRPORT, SHALL BE RECORDED IN THE RAIN LOG PROVIDED BY THE SWPPP PREPARER. RAINFALL EVENTS FROM THE WEEK PRIOR TO INSPECTION SHALL BE RECORDED ON THE INSPECTION REPORT.

3. CORRECTIVE ACTION:

   THE OPERATOR IS RESPONSIBLE FOR MAKING CORRECTIONS WITHIN 24 HOURS OF NOTIFICATION THAT CORRECTIVE ACTION IS NEEDED. CORRECTIVE ACTIONS SHOULD BE EXECUTED PRIOR TO THE NEXT RAINFALL EVENT IF PRACTICABLE. THE CORRECTIVE ACTION LOG PROVIDED BY THE SWPPP PREPARER SHALL BE USED TO DOCUMENT CORRECTIVE ACTIONS AND SHALL BE MAINTAINED AS PART OF THE SWPPP.

4. SWPPP MODIFICATIONS:

   NOTIFY THE SWPPP PREPARER IF SITE CONDITIONS WARRANT THE MODIFICATION OF THE SWPPP. MODIFICATIONS WILL BE AT THE DIRECTION OF THE SWPPP PREPARER. ALL MODIFICATIONS ARE TO BE RECORDED IN THE SWPPP MODIFICATION LOG. MODIFICATIONS INCLUDE, BUT ARE NOT LIMITED TO: THE ADDITION OF BMPS, REPLACEMENT OF FAILED BMPS, SIGNIFICANT CHANGES IN ACTIVITIES OR SCHEDULING, CHANGES IN PERSONNEL, CHANGES IN DESIGN OF THE SITE, ETC. MAJOR MODIFICATIONS MUST BE SUBMITTED TO THE REGULATED MS4 OR SCDHEC FOR APPROVAL. MINOR MODIFICATIONS MAY BE MADE TO THE ON–SITE SWPPP.

VII. STANDARD NOTES:

1. IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW:
   - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
   - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH–DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
3. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INSTALLED INAPPROPRIATELY, OR INCORRECTLY, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF NOTIFICATION.
4. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY IS RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
5. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
6. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAYS S AND THE GENERATION OF DUST FROM CONSTRUCTION AREA.
7. TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT–LADEN WATER TO APPROPRIATE STRAPS OR STABLE OUTLETS.
8. ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50–FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10–FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS. MATERIALS AND WASTE WHICH COULD CONTRIBUTE TO STORMWATER POLLUTION SHOULD BE MINIMIZED ON–SITE. THIS MAY BE ACCOMPLISHED BY COVERING THE MATERIALS OR STORING THEM IN A SHED OR OTHER WATER–TIGHT CONTAINER.
9. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORMWATER DISCHARGES.
10. A COPY OF THE SWPPP, INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
11. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED FOR 14 DAYS, AND WILL NOT RESUME FOR A PERIOD OF MORE THAN 14 CALENDAR DAYS.
12. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
13. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (FILTER BAG).
14. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
    - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY APPROPRIATE CONTROL;
    - EQUIPMENT AND VEHICLE WASHING AND WHEEL WASHING IS PROHIBITED ON–SITE. THESE ACTIVITES MUST BE COMPLETED OFF–SITE AT AN AREA THAT PROVIDES TREATMENT PRIOR TO DISCHRAGE;
    - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS;
    - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATIONS AND MAINTENANCE; AND
    - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
17. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
18. ALL WORK ASSOCIATED THE CONTRUCTION PROJECT SHALL BE WITHIN THE LIMITS OF DISTURBANCE (LOD) IDENTIFIED IN THE APPROVED CONSTRUCTION PLANS.

VIII. GROUND PREPARATION FOR GRASSING:

A. BRING ALL AREAS TO PROPER LINE, GRADE AND CROSS–SECTION INDICATED ON THE PLANS.

B. REPAIR EROSION DAMAGE PRIOR TO COMMENCING SEED OPERATION.

C. LOOSEN SEED BED TO A MINIMUM DEPTH OF 3."

D. REMOVE ALL ROOTS, CLODS, STONES LARGER THAN 1" IN ANY DIMENSION AND OTHER TEST.

E. CONDUCT SOIL TEST TO DETERMINE pH FACTOR. IF pH IS NOT IN RANGE OF 6.0 TO 6.5, ADJUST.

IX. SEEDING SCHEDULE/APPLICATION RATE/FERTILIZER APPLICATION:

A. MIXTURES OF DIFFERENT TYPES OF SEED FOR THE VARIOUS SCHEDULES SHALL BE WEIGHED AND MIXED IN THE PROPER PROPORTIONS IN THE PRESENCE OF THE OWNERS' REPRESENTATIVES. APPLY UNIFORMLY OVER AREAS TO BE SEEDED AT THE BELOW APPLICATION RATES:

B. SCHEDULE NO. 1 – MARCH 1 TO AUGUST 15:
   - 1 POUND RYE GRASS
   - 1.5 POUNDS COMMON BERMUDA (HULLED)
   - 25 POUNDS 10–10–10 FERTILIZER
   - 75 POUNDS LIMESTONE

C. SCHEDULE NO. 2 – AUGUST 15 TO FEBRUARY 28:
   - 1 POUNDS RYE GRAIN
   - 1.5 POUNDS COMMON BERMUDA (HULLED)
   - 1 POUNDS CENTIPEDE
   - 25 POUNDS 10–10–10 FERTILIZER
   - 75 POUNDS OF LIMESTONE

D. DOUBLE SEED ALL GRASSED SWALES AND WATER WAYS FROM TOP TO TOP OF BANK

E. FILL, COVER, AND TEMPORARILY SEED AT THE END OF EACH DAY DURING UTILITY LINE CONSTRUCTION.

F. APPLY STRAW MULCH OR EXCELSIOR FIBER MULCH PER PROJECT TECHNICAL SPECIFICATIONS IN ORDER TO RETAIN MOISTURE AND PREVENT SEED FROM WASHING AWAY.

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C17.DWG
Printed on ___% Post-Consumer Recycled Content Paper

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA – AECOM TECHNICAL SERVICES, INC. – No. 1473 – CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA – REGISTERED PROFESSIONAL ENGINEER – No. 29724 – GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

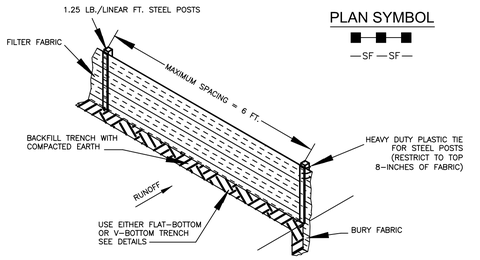
STORMWATER POLLUTION PREVENTION PLAN NOTES

SHEET NUMBER

C18

Project Management Initials: Designer: Checked: Approved: ANSI D 22" X 34"

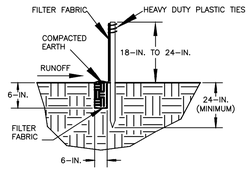
SILT FENCE INSTALLATION



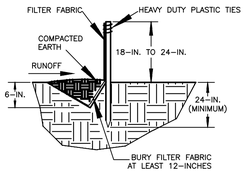
PLAN SYMBOL

—SF —SF—

FLAT-BOTTOM TRENCH DETAIL



V-SHAPED TRENCH DETAIL



SILT FENCE – GENERAL NOTES

1. Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
2. Maximum sheet or overland flow path length to the silt fence shall be 100–feet.
3. Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
4. Silt fence joints, when necessary, shall be completed by one of the following options:
   - Wrap each fabric together at a support post with both ends fastened to the post, with a 1–foot minimum overlap;
   - Overlap silt fence by installing 3–feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy–duty plastic ties; or,
   - Overlap entire width of each silt fence roll from one support post to the next support post.
5. Attach filter fabric to the steel posts using heavy–duty plastic ties that are evenly spaced within the top 8–inches of the fabric.
6. Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.
7. Install Silt Fence Checks (Tie–Backs) every 50–100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt fence.

South Carolina Department of Health and Environmental Control

SILT FENCE

STANDARD DRAWING NO. SC–03 Page 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

SILT FENCE – POST REQUIREMENTS

1. Silt Fence posts must be 48–inch long steel posts that meet, at a minimum, the following physical characteristics.
   - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
   - Include a standard "T" section with a nominal face width of 1.38–inches and a nominal "T" length of 1.48–inches.
   - Weigh 1.25 pounds per foot (± 8%)
2. Posts shall be equipped with projections to aid in fastening of filter fabric.
3. Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17–square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.
4. Install posts to a minimum of 24–inches. A minimum height of 1– to 2–inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
5. Post spacing shall be at a maximum of 6–feet on center.

SILT FENCE – FABRIC REQUIREMENTS

1. Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
   - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other;
   - Free of any treatment or coating which might adversely alter its physical properties after installation;
   - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
   - Have a minimum width of 36–inches.
2. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
3. 12–inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
4. Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
5. Filter Fabric shall be installed at a minimum of 24–inches above the ground.

SILT FENCE – INSPECTION & MAINTENANCE

1. The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24–hours after each rainfall even that produces 1/2–inch or more of precipitation.
3. Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the silt fence.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie–backs and/or reinstall silt fence, as necessary.
7. Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence immediately.
8. Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

South Carolina Department of Health and Environmental Control

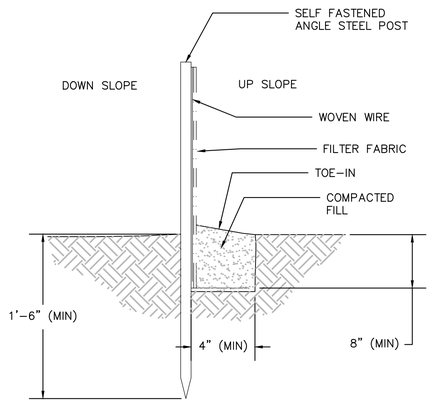
SILT FENCE

STANDARD DRAWING NO. SC–03 PAGE 2 of 2

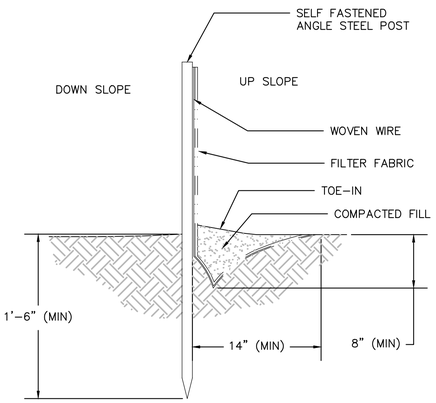
GENERAL NOTES FEBRUARY 2014 DATE

SILT FENCE DETAIL

SCALE: NONE — 20 / C8



TYPE 1



TYPE 2

NOTES:

1. USE TYPE 1 IN ALL OTHER CASES. USE TYPE 2 IN AREAS WHERE TOE–IN CUT TRENCH IS DIFFICULT TO EXCAVATE.
2. INSTALL POSTS AT 10' MAXIMUM SPACING WHEN WOVEN WIRE IS USED.
3. WOVEN WIRE MESH BACKING MAY BE OMITTED IF POSTS ARE INSTALLED MAXIMUM 6' CENTER.
4. USE WOVEN WIRE WHEN WETLANDS ARE WITHIN 50' OF FENCE.

SILT FENCE WITH WIRE FABRIC DETAIL

SCALE: NONE — 20A / C8

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER No. 29724 — GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

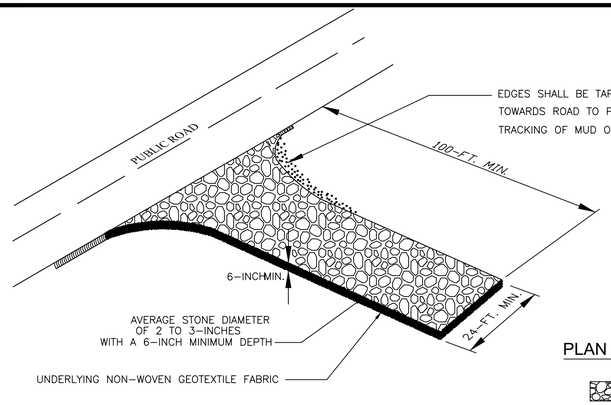
STORMWATER POLLUTION PREVENTION PLAN DETAILS

SHEET NUMBER

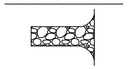
C19

Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C17.DWG
Printed on ___% Post-Consumer Recycled Content Paper

Project Management Initials: Designer:____ Checked:____ Approved:____ ANSI D 22" x 34"



PLAN SYMBOL



SPECIFICATION	SIZE
ROCK PAD THICKNESS	6 INCHES
ROCK PAD WIDTH	24 FEET
ROCK PAD LENGTH	100 FEET
ROCK PAD STONE SIZE	D = 2-3 INCHES

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

CONSTRUCTION ENTRANCE – GENERAL NOTES

1. Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
2. Install a non-woven geotextile fabric prior to placing any stone.
3. Install a culvert pipe across the entrance when needed to provide positive drainage.
4. The entrance shall consist of 2-inch to 3-inch D50 stone placed at a minimum depth of 6-inches.
5. Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.
6. The edges of the entrance shall be tapered out towards the road to prevent tracking at the edge of the entrance.
7. Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
8. Limestone may not be used for the stone pad.

CONSTR. ENTRANCE – INSPECTION & MAINTENANCE

1. The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during long periods of wet weather.
4. Reshape the stone pad as necessary for drainage and runoff control.
5. Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.
6. Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
7. During maintenance activities, any broken pavement should be repaired immediately.
8. Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

South Carolina Department of Health and Environmental Control

CONSTRUCTION ENTRANCE

STANDARD DRAWING NO. SC-06 PAGE 2 of 2

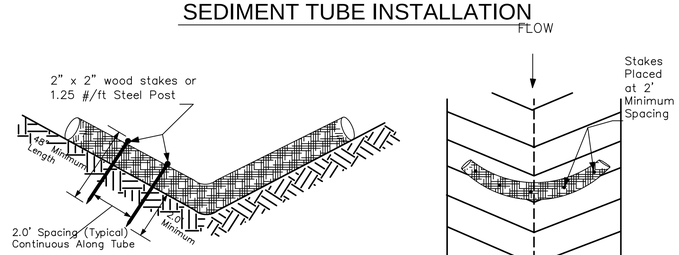
GENERAL NOTES FEBRUARY 2014 DATE

CONSTRUCTION ENTRANCE DETAIL

SCALE: NONE

21 C8

SEDIMENT TUBE INSTALLATION



SEDIMENT TUBE SPACING

SLOPE	MAX. SEDIMENT TUBE SPACING
LESS THAN 2%	150-FEET
2%	100-FEET
3%	75-FEET
4%	50-FEET
5%	40-FEET
6%	30-FEET
GREATER THAN 6%	25-FEET

PLAN SYMBOL



South Carolina Department of Health and Environmental Control

SEDIMENT TUBES

STANDARD DRAWING NO. SC-05 PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

SEDIMENT TUBES – GENERAL NOTES

1. Sediment tubes may be installed along contours, in drainage conveyance channels, and around inlets to help prevent off-site discharge of sediment-laden stormwater runoff.
2. Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pine needle, and leaf mulch-filled sediment tubes are not permitted.
3. The outer netting of the sediment tube should consist of seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable material.
4. Sediment tubes, when used as checks within channels, should range between 18-inches and 24-inches depending on channel dimensions. Diameters outside this range may be allowed where necessary when approved.
5. Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed.
6. Sediment tubes should be staked using wooden stakes (2-inch X 2-inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) at a minimum of 48-inches in length placed on 2-foot centers.
7. Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufacturer's recommendations should always be consulted before installation.
8. The ends of adjacent sediment tubes should be overlapped 6-inches to prevent flow and sediment from passing through the field joint.
9. Sediment tubes should not be stacked on top of one another, unless recommended by manufacturer.
10. Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube.
11. Sediment tubes should continue up the side slopes a minimum of 1-foot above the design flow depth of the channel.
12. Install stakes at a diagonal facing incoming runoff.

SEDIMENT TUBES – INSPECTION & MAINTENANCE

1. The key to functional sediment tubes is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of sediment tubes shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations in front of the sediment tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the sediment tube.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Large debris, trash, and leaves should be removed from in front of tubes when found.
7. If erosion causes the edges to fall to a height equal to or below the height of the sediment tube, repairs should be made immediately to prevent runoff from bypassing tube.
8. Sediment tubes should be removed after the contributing drainage area has been completely stabilized. Permanent vegetation should replace areas from which sediment tubes have been removed.

South Carolina Department of Health and Environmental Control

SEDIMENT TUBES

STANDARD DRAWING NO. SC-05 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

SEDIMENT TUBES DETAIL

SCALE: NONE

22 TYP.

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA AECOM TECHNICAL SERVICES, INC. No. 1473 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 29724 GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

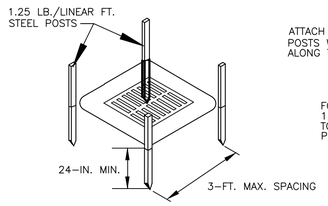
STORMWATER POLLUTION PREVENTION PLAN DETAILS

SHEET NUMBER

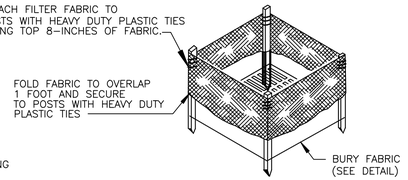
C20

Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C17.DWG

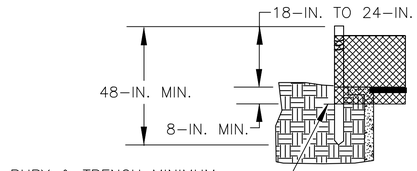
Printed on ___% Post-Consumer



POST INSTALLATION DETAIL



FILTER FABRIC INSTALLATION DETAIL



FILTER FABRIC BURIAL DETAIL

PLAN SYMBOL

A

South Carolina Department of Health and Environmental Control

Type A

FILTER FABIC INLET PROTECTION

STANDARD DRAWING NO. SC–07 PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

TYPE A – FILTER FABRIC REQUIREMENTS

1. Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
   - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other;
   - Free of any treatment or coating which might adversely alter its physical properties after installation;
   - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
   - Have a minimum width of 36–inches.
2. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
3. 12–inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.
4. Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
5. Filter Fabric shall be installed at a minimum of 24–inches above the ground.

TYPE A – POST REQUIREMENTS

1. Silt Fence posts must be 48–inch long steel posts that meet, at a minimum, the following physical characteristics.
   - Composed of a high strength steel with a minimum yield strength of 50,000 psi.
   - Include a standard "T" section with a nominal face width of 1.38–inches and a nominal "T" length of 1.48–inches.
   - Weigh 1.25 pounds per foot (± 8%)
2. Posts shall be equipped with projections to aid in fastening of filter fabric.
3. Install posts to a minimum of 24–inches. A minimum height of 1– to 2– inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.
4. Post spacing shall be at a maximum of 3–feet on center.

TYPE A – INSPECTION & MAINTENANCE

1. The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of inlet protection shall be conducted once every calendar week and, as recommended, within 24–hours after each rainfall even that produces 1/2–inch or more of precipitation.
3. Attention to sediment accumulations along the filter fabric is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the filter fabric. When a sump is installed in front of the fabric, sediment should be removed when it fills approximately 1/3 the depth of the sump.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Check for areas where stormwater runoff has eroded a channel beneath the filter fabric, or where the fabric has sagged or collapsed due to runoff overtopping the inlet protection.
7. Check for tears within the filter fabric, areas where fabric has begun to decompose, and for any other circumstance that may render the inlet protection ineffective. Removed damaged fabric and reinstall new filter fabric immediately.
8. Inlet protection structures should be removed after all the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

South Carolina Department of Health and Environmental Control

Type A

FILTER FABIC INLET PROTECTION

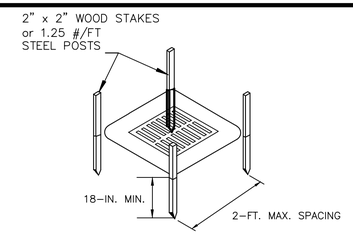
STANDARD DRAWING NO. SC–07 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

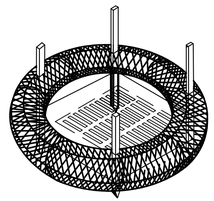
TYPE A INLET PROTECTION DETAIL

SCALE: NONE

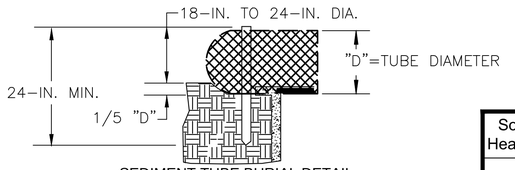
23 / C8



POST INSTALLATION DETAIL



SEDIMENT TUBE INSTALLATION DETAIL



SEDIMENT TUBE BURIAL DETAIL

PLAN SYMBOL

A

South Carolina Department of Health and Environmental Control

Type A

SEDIMENT TUBE INLET PROTECTION

STANDARD DRAWING NO. SC–07A PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

TYPE A – SEDIMENT TUBE INLET PROTECTION

GENERAL NOTES

1. Sediment tubes are elongated tubes of compacted geotextiles, curled excelsior wood, natural coconut fiber, or hardwood mulch. Straw, pine needle, and leaf mulch–filled sediment tubes are not permitted.
2. The outer netting of the sediment tube should consist of seamless, high–density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high–density polyethylene non–degradable material.
3. Sediment tube diameters shall range from 18–inches to 24–inches. Sediment tunes with smaller diameters are prohibited when used as inlet protection.
4. Curled excelsior wood, or natural coconut products that are rolled up to create a sediment tube are not allowed.
5. Sediment tubes should be staked using wooden oak stakes (2–inch X 2–inch) or steel posts (standard "U" or "T" sections with a minimum weight of 1.25 pounds per foot) at a minimum of 48–inches in length placed on 2–foot centers.
6. Install all sediment tubes to ensure that no gaps exist between the soil and the bottom of the tube. Manufactuer's recommendations should always be consulted before installation.
7. The ends of adjacent sediment tubes should be overlapped 6–inches to prevent flow and sediment from passing through the field joint.
8. Sediment tubes should not be stacked on top of one another.
9. Each sediment tube should be installed in a trench with a depth equal to 1/5 the diameter of the sediment tube.
10. Install stakes at a diagonal facing incoming runoff.

INSPECTION & MAINTENANCE

1. The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of sediment tube inlet protection shall be conducted once every calendar week and, as recommended, within 24–hours after each rainfall even that produces 1/2–inch or more of precipitation.
3. Attention to sediment accumulations in front of the sediment tube is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the sediment tube. When a sump is installed in front of the inlet protection, sediment shall be removed when if fills approximately 1/3 the depth of the sump.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Large debris, trash, and leaves should be removed from in front of tubes when found.
7. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

South Carolina Department of Health and Environmental Control

Type A

SEDIMENT TUBE INLET PROTECTION

STANDARD DRAWING NO. SC–07A PAGE 2 of 2

NOT TO SCALE FEBRUARY 2014 DATE

TYPE A INLET PROTECTION DETAIL

SCALE: NONE

23A / C8

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY

1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA – AECOM TECHNICAL SERVICES, INC. – No. 1473 – CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA – REGISTERED PROFESSIONAL ENGINEER – No. 29724 – GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

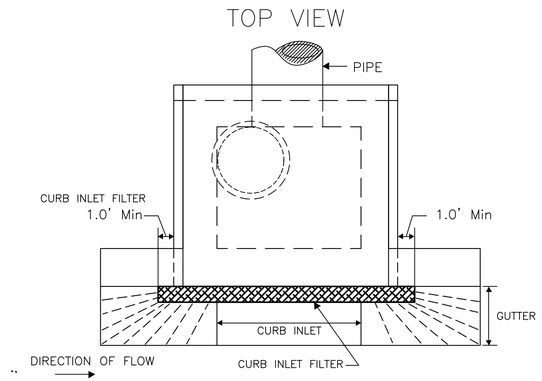
SHEET TITLE

STORMWATER POLLUTION PREVENTION PLAN DETAILS

SHEET NUMBER

C21

Project Management Initials: Designer:____ Checked:____ Approved:____ ANSI D 22" x 34"
Last saved by: ROSS.ST.CLAIR (2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\S12-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C17.DWG
Printed on ___% Post-Consumer Recycled Content Paper



PLAN SYMBOL

E

South Carolina Department of Health and Environmental Control

Type E

SURFACE COURSE CURB INLET FILTERS

STANDARD DRAWING NO. SC-10 PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

SURFACE COURSE CURB INLET PROTECTION

GENEARL NOTES

1. Only use surface curb inlet filters that have a minimum height or diameter of 9-inches and have a minimum length that is 2-feet longer than the length of the curb opening.

2. Surface course inlets filters that are designed to completely block the inlet opening are prohibited. Acceptable inlet filters should allow for overflows to enter the catch basin.

3. Surface course inlet filters should be constructed with a synthetic material that will allow stormwater to freely flow through while trapping sediment and debris.

4. Straw, straw fiber, straw bales, pine needles and leaf mulch are not permissible filter materials.

5. Each filter should have aggregate compartments for stone, sand, and other weighted materials or mechanisms to hold the unit in place. Fill aggregate compartments to a level (at least 1/2 full) to hold the filter in place and create a seal between the filter and the road surface.

6. Use only Type E inlet filters appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #58, or filters that meeting the most current edition of the SC DOT Standard Specifications for Highway Construction.

INSPECTION AND MAINTENANCE

1. The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.

2. Regular inspections of all inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.

3. Attention to sediment accumulations in front of the inlet protection is extremely important. Accumulated sediment should be continually monitored and removed when necessary.

4. Remove accumulated sediment when silt and/or debris has built up around the filter preventing stormwater to flow through the filter.

5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.

6. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

South Carolina Department of Health and Environmental Control

Type E

SURFACE COURSE CURB INLET FILTERS

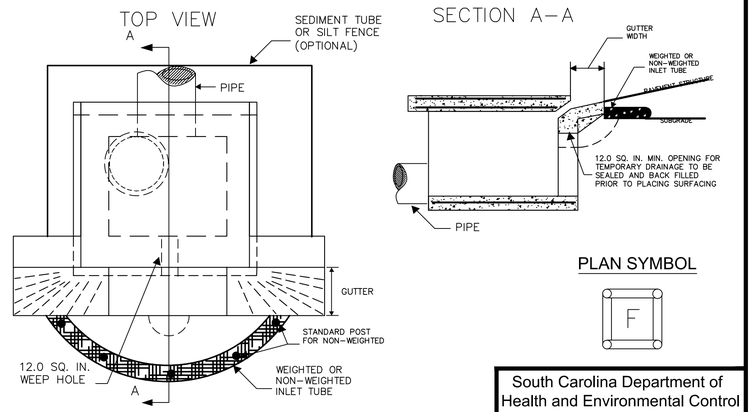
STANDARD DRAWING NO. SC-10 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

TYPE E INLET PROTECTION

DETAIL 23B C8

SCALE: NONE



PLAN SYMBOL

F

South Carolina Department of Health and Environmental Control

Type F

INLET TUBES

STANDARD DRAWING NO. SC-11 PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

TYPE F - INLET TUBES INLET PROTECTION

GENERAL NOTES

1. Inlets tubes should be composed of compacted geotextiles, curled excelsior wood, natural coconut fibers, a hardwood mulch, or a mix of these materials enclosed by a flexible netting material.

2. Inlets tubes should utilize an outer netting that consists of seamless, high-density polyethylene photodegradable materials treated with ultraviolet stabilizers or a seamless, high-density polyethylene non-degradable material. Curled wood excelsior fiber, or natural coconut fiber rolled erosion control products rolled up to create an inlet tube device are not allowed.

3. Do not use straw, straw fiber, straw bales, pine needles, or leaf mulch as fill material within inlet tubes.

4. Weighted inlet tubes must be capable of staying in place without external stabilization measures and may have a weighted inner core or other weighted mechanism to keep them in place.

5. Install weighted tubes lying flat on the ground, with no gaps between the underlying surface and the inlet tube. Do not stack inlet tubes. Do not completely block inlet with tube.

6. Non-weighted inlet tubes require staking or other stabilization methods to keep them safely in place.

7. Overflow or overtopping of inlet tubes must be allowed to flow into inlet unobstructed.

8. To avoid possible flooding, two or three concrete cinder blocks may be placed between the tube and the inlet.

INSPECTION AND MAINTENANCE

1. The key to functional inlet protection is weekly inspection, routine maintenance, and regular sediment removal.

2. Regular inspections of all inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.

3. Attention to sediment accumulations in front of the inlet protection is extremely important. Accumulated sediment should be continually monitored and removed when necessary.

4. Remove accumulated sediment when it reaches 1/3 the height of the blocks. If a sump is used, sediment should be removed when it fills approximately 1/3 the depth of the hole.

5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.

6. Large debris, trash, and leaves should be removed from in front of tubes when found.

7. Replace inlet tube when damaged or as recommended by manufacturer's specifications.

8. Inlet protection structures should be removed after the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

South Carolina Department of Health and Environmental Control

Type F

INLET TUBES

STANDARD DRAWING NO. SC-11 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

TYPE F INLET PROTECTION

DETAIL 23C C8

SCALE: NONE

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY

1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA AECOM TECHNICAL SERVICES, INC. No. 1473 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 29724 GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

STORMWATER POLLUTION PREVENTION PLAN DETAILS

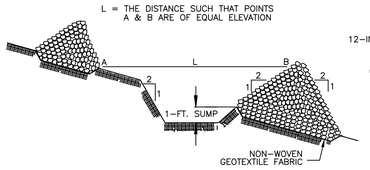
SHEET NUMBER

C22

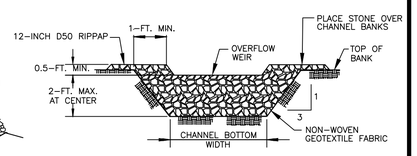
Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"
Last saved by: ROSS.ST.CLAIR (2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\S12-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C17.DWG
Printed on ___% Post-Consumer Recycled Content Paper

Project Management Initials: Designer:____ Checked:____ Approved:____ ANSI D 22" x 34"

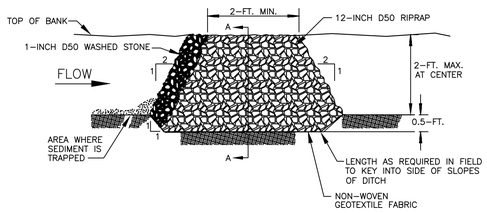
SPACING BETWEEN DITCH CHECK



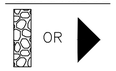
CROSS SECTION A-A THRU STONE DITCH CHECK



TYPICAL DITCH CHECK SECTION



PLAN SYMBOL



South Carolina Department of Health and Environmental Control

ROCK DITCH CHECK

STANDARD DRAWING NO. SC-04 PAGE 1 of 2

NOT TO SCALE FEBRUARY 2014 DATE

ROCK DITCH CHECK – GENERAL NOTES

1. Rock Ditch Checks should not be placed in Waters of the State or USGS blue-line streams (unless approved by Federal Authorities).
2. Rock Ditch Checks should be installed in steeply sloped channels where adequate vegetation cannot be established. This BMP measure should only be used in small open channels.
3. A non-woven geotextile fabric shall be installed over the soil surface where the rock ditch check is to be placed.
4. The body of the rock ditch check shall be composed of 12-inch D50 Riprap. The upstream face may be composed of 1-inch D50 washed stone.
5. Rock Ditch Checks should not exceed a height of 2-feet at the centerline of the channel.
6. Rock Ditch Checks should have a minimum top flow length of 2-feet.
7. Riprap should be placed over channel banks to prevent water from cutting around the ditch check.
8. The riprap should be placed by hand or mechanical placement (no dumping of rock to form dam) to achieve complete coverage of the channel. Doing so will also ensure that the center of the check is lower than the edges.
9. The maximum spacing between the dams should be such that the toe of the upstream check is at the same elevation as the top of the downstream check.

ROCK DITCH CHECK – INSPECTION & MAINTENANCE

1. The key to functional rock ditch check is weekly inspections, routine maintenance, and regular sediment removal.
2. Regular inspections of rock ditch checks shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2-inch or more of precipitation.
3. Attention to sediment accumulations in front of the rock ditch check is extremely important. Accumulated sediment should be continually monitored and removed when necessary.
4. Remove accumulated sediment when it reaches 1/3 the height of the rock ditch check.
5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
6. Inspect Rock Ditch Checks' edges for erosion and evidence of runoff bypassing the installed check. If evident repair promptly as necessary to prevent erosion and bypassing.
7. In the case of grass-lined ditches, channels, and swales, rock ditch checks should be removed when the grass has matured sufficiently to protect the ditch or swale unless the slope of the swale is greater than 4%.
8. After construction is completed and final stabilization is reached, the entirety of the rock ditch check should be removed if vegetation will be used for permanent erosion control measures. The area beneath the removed rock ditch check must be addressed with permanent stabilization measures.

South Carolina Department of Health and Environmental Control

ROCK DITCH CHECK

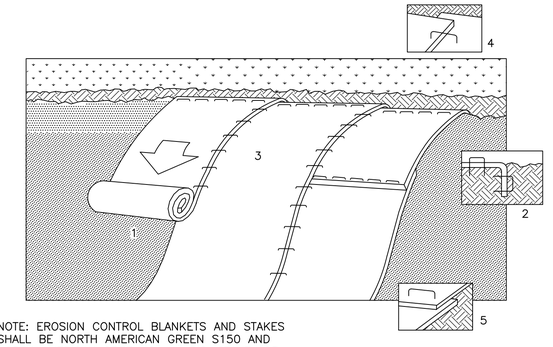
STANDARD DRAWING NO. SC-04 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014 DATE

ROCK DITCH CHECK

DETAIL 24 C8

SCALE: NONE



NOTE: EROSION CONTROL BLANKETS AND STAKES SHALL BE NORTH AMERICAN GREEN S150 AND NORTH AMERICAN GREEN 6"-4" BIO-STAKE (OR ENGINEER APPROVED EQUIVALENTS).

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS DOWN THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. ALL EROSION CONTROL BLANKET SHALL CONFORM TO SCDOT SPECIFICATIONS FOR EROSION CONTROL BLANKET.

EROSION CONTROL BLANKET

DETAIL 25 C16

SCALE: NONE

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA AECOM TECHNICAL SERVICES, INC. No. 1473 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER No. 29724 GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

STORMWATER POLLUTION PREVENTION PLAN DETAILS

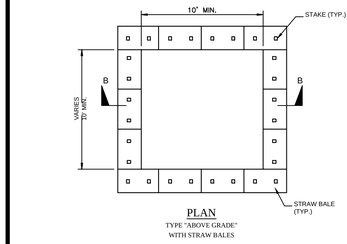
SHEET NUMBER

C23

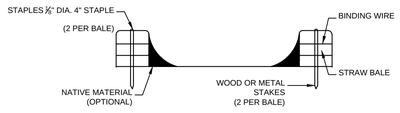
Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C17.DWG
Printed on ___% Post-Consumer

Project Management Initials: Designer:____ Checked:____ Approved:____ ANSI D 22" X 34"

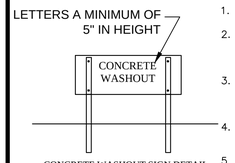
STRAW BALE BARRIER CONCRETE WASHOUT



PLAN
TYPE "ABOVE GRADE" WITH STRAW BALES



SECTION B-B



CONCRETE WASHOUT SIGN DETAIL

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

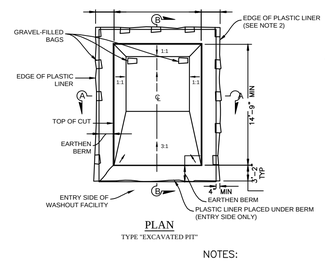
South Carolina Department of Health and Environmental Control

CONCRETE WASHOUT
STRAW BALES OR ABOVE GROUND

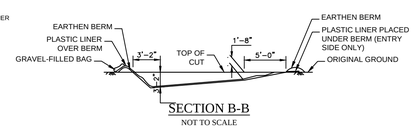
STANDARD DRAWING NO. RC-07 PAGE 1 of 1

NOT TO SCALE — FEBRUARY 2014 DATE

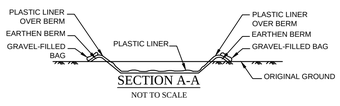
EXCAVATED PIT CONCRETE WASHOUT



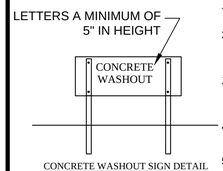
PLAN
TYPE "EXCAVATED PIT"



SECTION B-B
NOT TO SCALE



SECTION A-A
NOT TO SCALE



CONCRETE WASHOUT SIGN DETAIL

NOTES:

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. INSTALL CONCRETE WASHOUT SIGN (24"X24", MINIMUM) WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. TEMPORARY WASHOUT AREA MUST BE AT LEAST 50' FROM A STORM DRAIN, CREEK BANK OR PERIMETER CONTROL.
4. CLEAN OUT CONCRETE WASHOUT AREA WHEN 50% FULL.
5. THE KEY TO FUNCTIONAL CONCRETE WASHOUTS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR CLEAN OUT.
6. SILT FENCE SHALL BE INSTALLED AROUND PERIMETER OF CONCRETE WASHOUT AREA EXCEPT FOR THE SIDE UTILIZED FOR ACCESSING THE WASHOUT.
7. A ROCK CONSTRUCTION ENTRANCE MAY BE NECESSARY ALONG ONE SIDE OF THE WASHOUT TO PROVIDE VEHICLE ACCESS.

South Carolina Department of Health and Environmental Control

CONCRETE WASHOUT
EXCAVATED PIT

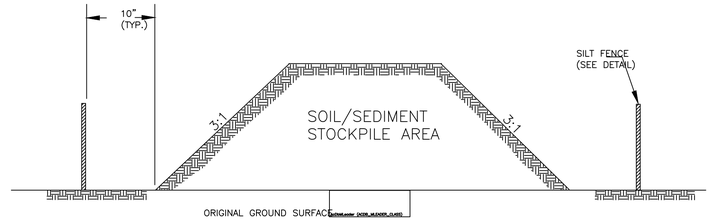
STANDARD DRAWING NO. RC-08 PAGE 1 of 1

NOT TO SCALE — FEBRUARY 2014 DATE

CONCRETE WASHOUT DETAIL

SCALE: NONE — 26 TYP.

TEMPORARY STOCKPILE AREA



NOTES:

1. SILT FENCE TO EXTEND AROUND ENTIRE PERIMETER OF STOCKPILE, OR IF STOCKPILE AREA IS LOCATED ON/NEAR A SLOP THE SILT FENCE IS TO EXTEND ALONG CONTOURS OF THE DOWN-GRADIENT AREA.
2. IF STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY STABILIZATION MEASURES MUST BE IMPLEMENTED.
3. SILT FENCE SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.
4. THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

South Carolina Department of Health and Environmental Control

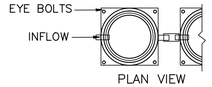
TEMPORARY STOCKPILE

STANDARD DRAWING NO. SC-15 PAGE 1 of 1

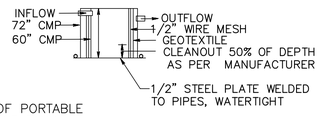
NOT TO SCALE — FEBRUARY 2014 DATE

TEMPORARY STOCKPILE DETAIL

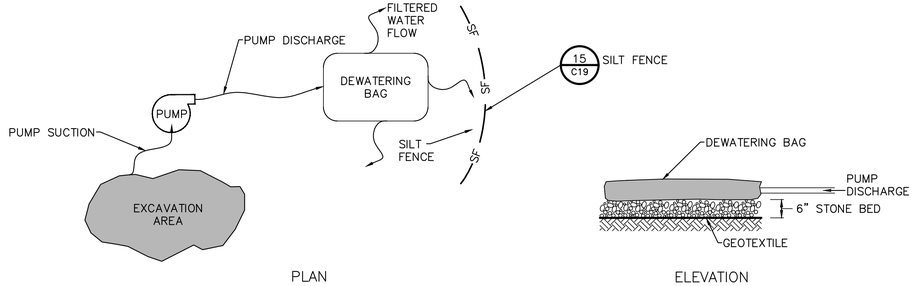
SCALE: NONE — 27 C8



PLAN VIEW



EXAMPLE OF PORTABLE SEDIMENT TANK



PLAN — ELEVATION

NOTES:

1. BAG MUST BE LOCATED AWAY FROM RECEIVING WATERS, OTHER ENVIRONMENTALLY SENSITIVE AREAS, AND/OR CONSTRUCTION ACTIVITIES.
2. BAGS MUST BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
3. BAGS MAY NOT BE REUSED.
4. BAGS MUST BE DISPOSED OF ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

DEWATERING DETAIL

SCALE: NONE — 28 TYP.

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. — No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 29724 — GEOFFREY LANCE SMITH

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

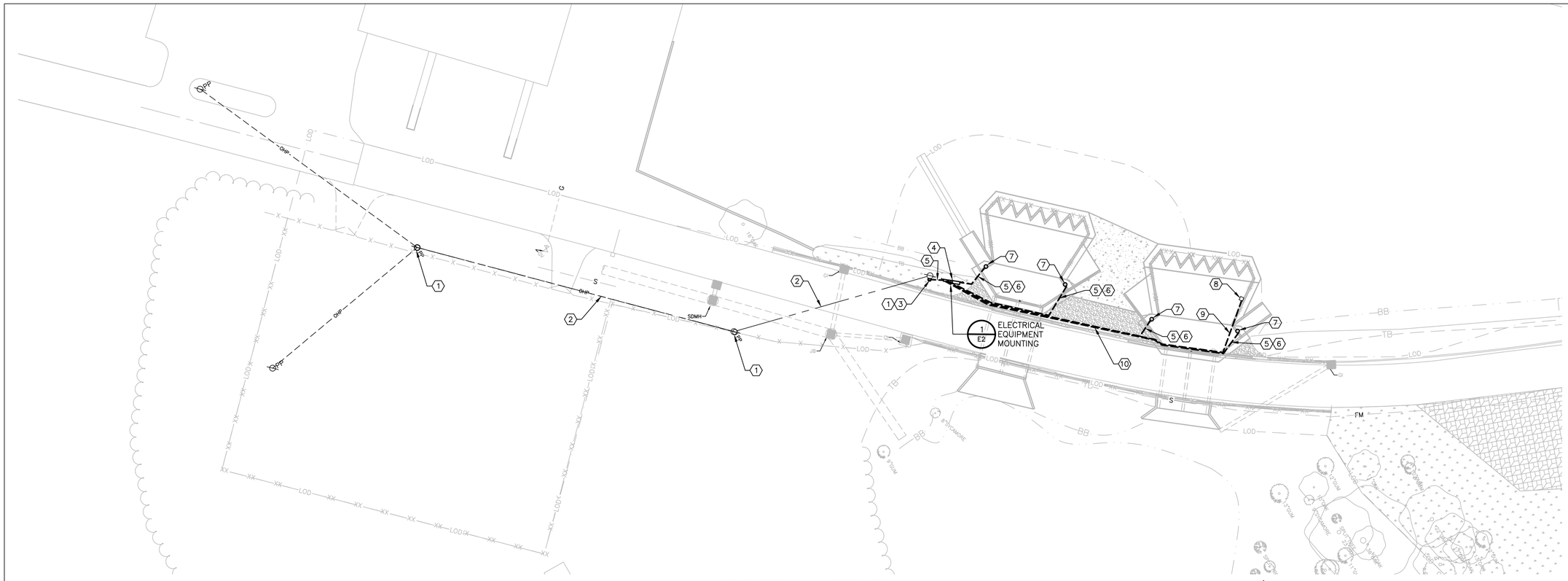
STORMWATER POLLUTION PREVENTION PLAN DETAILS

SHEET NUMBER

C24

Last saved by: ROSS.ST.CLAIR(2017-06-12) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-C17.DWG
Printed on ___% Post-Consumer

Project Management Initials: Designer: Checked: Approved: ANSI D 22" x 34"



ELECTRICAL SITE PLAN

SCALE: 1"=30'

0' 30' 60'

GRAPHIC SCALE

⟨X⟩ ELECTRICAL KEY NOTES:

1. NEW POWER POLE BY DUKE ENERGY – PROGRESS.
2. NEW 480/277V., 3ø, 4–WIRE OVERHEAD SERVICE BY DUKE ENERGY – PROGRESS.
3. METER AS DIRECTED BY DUKE ENERGY – PROGRESS.
4. EQUIPMENT RACK. REFER TO DETAIL FOR REQUIREMENTS.
5. POWER FEEDER. REFER TO ONE–LINE DIAGRAM ON SHEET E2 FOR REQUIREMENTS.
6. CONTROL FEEDER. REFER TO ONE–LINE DIAGRAM ON SHEET E2 FOR REQUIREMENTS.
7. SLIDE GATE ACTUATOR, 480V., 3ø. CONNECT FOR POWER AND CONTROLS PER SPECIFICATIONS AND APPROVED MANUFACTURER SUPPLIED SHOP DRAWINGS.
8. ULTRASONIC LEVEL TRANSDUCER
9. 1"C. WITH MANUFACTURER SUPPLIED CABLE FOR ULTRASONIC LEVEL TRANSDUCER. EXTEND CABLE AND CONDUIT TO LEVEL TRANSMITTER LOCATED IN PCP 1.0 AND CONNECT.
10. FIELD VERIFY EXACT CONDUIT ROUTING AND CONDUIT SUPPORT METHODS ON DAM STRUCTURE.

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. — No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 23410 — LICENSED — CHRISTOPHER J. ADAMS

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

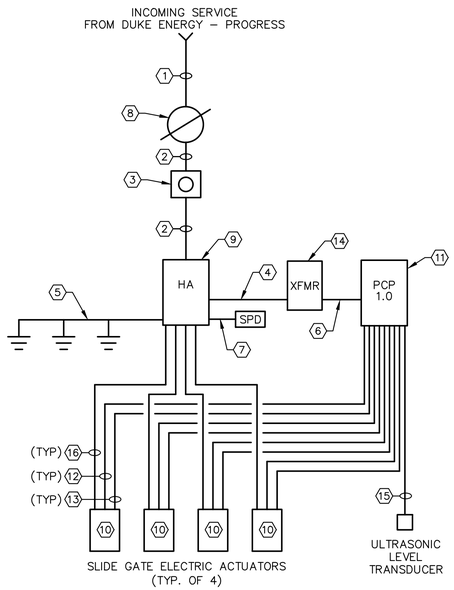
ELECTRICAL SITE PLAN

SHEET NUMBER

E1

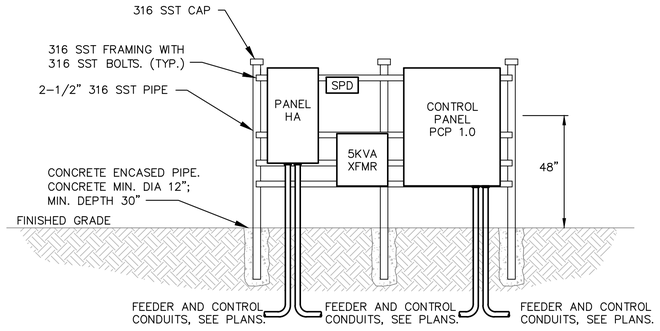
Last saved by: MICHAEL.FEDORENKO(2017-05-08) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\12-90% PROGRESS PACKAGE\E2ND MILL 90 PERCENT\60494398-E1.DWG
Printed on ___% Post-Consumer

			PANELBOARD: HA		BUS: COPPER				MAINS: 3P-100A MAIN BREAKER			
PHASE			SERVICE: 480/277V, 3PH, 4W		RATING: 200A				LOCATION: POLYMER BUILDING		PHASE	
"A"	"B"	"C"	MOUNTING: WALL		35 KAIC				ENCLOSURE: S.E. RATED NEMA 4X		"A"	"B"	"C"
V.A.	V.A.	V.A.	LOAD	P	BKR	CKT #		BKR	P	LOAD	V.A.	V.A.	V.A.
3409			SLIDE GATE ELECTRIC ACTUATOR	3	20	1	2	20	3	SLIDE GATE ELECTRIC ACTUATOR	3409		
	3409					3	4					3409	
		3409				5	6						3409
3409			SLIDE GATE ELECTRIC ACTUATOR	3	20	7	8	20	3	SLIDE GATE ELECTRIC ACTUATOR	3409		
	3409					9	10					3409	
		3409				11	12						3409
			SPD (EXTERNAL)	3	30	13	14	15	2	TRANSFORMER (5 KVA)	2500		
						15	16			CONTROL PANEL (PCP 1.0)		2500	
						17	18						
			SPARE	3	20	19	20	20	3	SPARE			
						21	22						
						23	24						
			SPARE	3	20	25	26	20	3	SPARE			
						27	28						
						29	30						
6818			TOTAL "A"			16136				TOTAL "A"	9318		
	6818		TOTAL "B"			16136				TOTAL "B"		9318	
		6818	TOTAL "C"			13636				TOTAL "C"			6818
			TOTAL =			45908							



ONE–LINE DIAGRAM

SCALE: NONE



NOTE: REFER TO ONE–LINE DIAGRAM FOR CONDUIT, CONDUCTOR AND CABLING REQUIREMENTS.

ELECTRICAL EQUIPMENT MOUNTING DETAIL

SCALE: NONE — 1 TYP

(X) ELECTRICAL KEY NOTES:

1. NEW 277/480V., 3ø, 4–WIRE OVERHEAD SERVICE BY DUKE ENERGY – PROGRESS.
2. 4#3–2"C.
3. METER AS DIRECTED BY UTILITY.
4. 2#12, 1#12G.–3/4"C. (480VAC).
5. #6 GROUND IN 3/4" SCH. 40 PVC CONDUIT. BOND TO MINIMUM OF THREE (3) 3/4"ø X 10' COPPERCLAD GROUND RODS WITH EXOTHERMIC WELD.
6. 2#6, 1#10G.–1"C.
7. 3#10, 1#10G.–1"C.
8. NEW ELECTRICAL SERVICE POLE BY UTILITY – FIELD VERIFY EXACT LOCATION WITH UTILITY.
9. PANEL "HA", 480V., 3ø. SERVICE ENTRANCE RATED, NEMA 4X ENCLOSURE. SEE PANELBOARD SCHEDULE.
10. SLIDE GATE. CONNECT 480VAC, 3ø ELECTRIC ACTUATOR FOR POWER AND CONTROLS PER SPECIFICATIONS AND APPROVED MANUFACTURER SUPPLIED SHOP DRAWINGS.
11. PROCESS CONTROL PANEL "PCP 1.0", 120VAC, 1ø. CONNECT POWER AND CONTROLS PER SPECIFICATIONS AND APPROVED MANUFACTURER SUPPLIED SHOP DRAWINGS.
12. TWO (2) TSP–3/4"C. FOR ACTUATOR CONTROL (CONTROL POSITION AND FEEDBACK POSITION).
13. 6#14–3/4"C. FOR ACTUATOR STATUS (IN REMOTE, FULL OPEN AND FULL CLOSED).
14. 5 KVA, 480:120/240V., 1ø TRANSFORMER, NEMA 3R ENCLOSURE.
15. 1"C. WITH MANUFACTURER SUPPLIED CABLE FOR ULTRASONIC LEVEL TRANSDUCER.
16. 3#12, 1#12G.–3/4"C. (480VAC).

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. — No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 23410 — CHRISTOPHER J. ADAMS

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

ONE–LINE DIAGRAM, SCHEDULE AND DETAIL

SHEET NUMBER

E2

ANSI D 22" x 34"
Approved: ____
Checked: ____
Designer: ____
Project Management Initials:
Last saved by: MICHAEL.FEDORENKO(2017-05-08) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\12-90% PROGRESS PACKAGE\2ND MILL 90 PERCENT\60494398-E1.DWG
Printed on ___% Post-Consumer

Project Management Initials: ____ Designer: ____ Checked: ____ Approved: ____ ANSI D 22" X 34"

ONE LINE POWER DIAGRAM SYMBOLS

X, Z / Y	FUSED SWITCH X INDICATES SWITCH SIZE, Y INDICATES FUSE SIZE. Z INDICATES NUMBER OF POLES IF OTHER THAN 3.	X / Y Z	CIRCUIT BREAKER X INDICATES FRAME SIZE, Y INDICATES TRIP RATING, Z INDICATES NUMBER OF POLES IF OTHER THAN 3.
X, Y	DISCONNECT SWITCH X INDICATES SIZE Y INDICATES NUMBER OF POLES IF OTHER THAN 3.		FUSED POTENTIAL TRANSFORMER
X,Y	TRANSFER SWITCH X INDICATES SIZE Y INDICATES NUMBER OF POLES		CURRENT TRANSFORMER
M	METER	AS	AMMETER SWITCH
V	VOLTMETER	VS	VOLTMETER SWITCH
A	AMMETER	GF	GROUND FAULT INTERRUPTER
W	WATT METER	KX	KEY INTERLOCK X=KEY NUMBER
H	KILOWATT HOUR METER		CAPACITOR
D	KILOWATT HOUR DEMAND METER		EARTH GROUND
XX	MOTOR CONTROLLER: XX INDICATES TYPE Y INDICATES NEMA SIZE (00,0,1,2,3,4,5)		
SS	SOLID STATE STARTER		LIGHTNING ARRESTER
AF	ADJUSTABLE FREQUENCY STARTER		
AT	AUTO TRANSFORMER STARTER		PLUG AND RECEPTACLE OR DRAWOUT DEVICE
PW	PART WINDING STARTER		
Y	△ WYE – DELTA STARTER		TRANSFORMER
WR	WOUND ROTOR STARTER		
22	TWO SPEED TWO WINDING		ISOLATION TRANSFORMER
21	TWO SPEED ONE WINDING		
NR	FULL VOLTAGE NON REVERSING STARTER		DRAWOUT CIRCUIT BREAKER
R	FULL VOLTAGE REVERSING STARTER		
M	MOTOR (M=HP)	M.O.	MOTOR OPERATED CIRCUIT BREAKER
CP	CONTROL PANEL		
G	GENERATOR	X	COMBINED MOTOR, OR NONMOTOR LOAD, X INDICATES SIZE (KW)
CTAS	CURRENT TRANSFORMER, AMMETER, AND AMMETER SWITCH	VS	VOLTMETER AND VOLTMETER SWITCH
DM	DIGITAL MULTIFUNCTION METER AND CURRENT TRANSFORMERS		

POWER PLAN SYMBOLS

Y Z X	SIMPLEX RECEPTACLE WITH COVER PLATE: X INDICATES TYPE, Y INDICATES NON STANDARD MOUNTING HEIGHT, AND Z INDICATES CIRCUIT NUMBER
	STANDARD MOUNTED, 20A RECEPTACLE, AT 18" ABOVE FINISHED FLOOR
Y Z X	DUPLEX RECEPTACLE WITH COVER PLATE: X INDICATES TYPE, Y INDICATES NON STANDARD MOUNTING HEIGHT, AND Z INDICATES CIRCUIT NUMBER
	STANDARD MOUNTED, 20A RECEPTACLE, AT 18" ABOVE FINISHED FLOOR
F	FLOOR
	GROUND FAULT
I	ISOLATED GROUND
S	SAFETY RECEPTACLE WITH TAMPER PROOF SCREWS
T	TWIST LOCK
WP	WEATHERPROOF (GROUND FAULT)
SP	INTEGRAL SURGE PROTECTION
XP	EXPLOSION PROOF
	SAME AS ABOVE EXCEPT INDICATES CONNECTED TO EMERGENCY POWER
	QUAD RECEPTACLE W / COVER PLATE
	SAME AS ABOVE EXCEPT INDICATES CONNECTED TO EMERGENCY POWER
	SPECIAL RECEPTACLE: AS DEFINED ON PLANS
C	20A, CLOCK RECEPTACLE WITH HANGER MOUNT AT 72" ABOVE FINISHED FLOOR.
A,B,C	HEAVY DUTY DISCONNECT SWITCH: A INDICATES RATING/FRAME SIZE OF SWITCH/CIRCUIT BREAKER, B INDICATES FUSING/TRIP SIZE, AND C INDICATES NUMBER OF POLES.
A,B,C	FUSIBLE
A,B,C	NON-FUSIBLE
A,B,C	CIRCUIT BREAKER
M	MANUAL MOTOR STARTER, HP RATED, W / O.L. AND COVER PLATE
	MOTOR CONTROLLER
	COMBINATION MOTOR CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE
M	SINGLE PHASE MOTOR
M	THREE PHASE MOTOR
	TWO PIECE SURFACE MOUNTED OUTLET RACEWAY ASSEMBLY, WITH SINGLE 20A 2P, 3W GROUNDING RECEPTACLES ON MAXIMUM 12" ON CENTER UNLESS NOTED OTHERWISE
	CONTROL STATION: SEE CONTROL DIAGRAMS OR PLAN SHEETS FOR TYPE AND QUANTITY OF DEVICES
	GROUND ROD
J	JUNCTION BOX
T	TRANSFORMER
	BUS DUCT

PLAN SYMBOLS

A5	CONDUIT HOME RUN, A5 INDICATES SESTINATION, PANELBOARD A, CIRCUIT 5		
	EXPOSED CONDUIT(S)		CONCEALED CONDUIT(S)
	CONDUIT TURNS TOWARD VIEWER		CONDUIT TURNS AWAY FROM VIEWER
X	OVERHEAD LINE, X INDICATED TYPE: E=ELECTRIC, T=TELEPHONE, G=GROUNDING CONDUCTOR		
X	DIRECT BURIED LINES, X INDICATES TYPE: E=ELECTRIC, T=TELEPHONE, G=GROUND		
	CABLE TRAY		BUS DUCT
X	SITE ELECTRICAL BOXES: MH=MANHOLE, HH=HANDHOLE, PB=PULLBOX		
	PROPOSED POLE		EXISTING POLE
	DOWN GUY		PANELBOARD
MO	3 PHASE MOTOR OPERATOR WITH INTEGRAL STARTER	MO	1 PHASE MOTOR OPERATOR WITH INTEGRAL STARTER
M	MANUAL MOTOR STARTER, HP RATED, W/OVERLOAD AND COVER PLATE		
	THERMOSTAT	TE	TEMPERATURE ELEMENT

CONTROL & SIGNAL CONDUIT SIZE TABLE

BASED ON MAXIMUM OF 31 PERCENT FILL TO ALLOW ROOM FOR ADDITIONAL FUTURE WIRING

CONDUIT SIZE	MAXIMUM QUANTITY OF CONDUCTORS			
	INSTRUMENT POWER	#14 AWG CONTROL	STP SIGNAL CABLE	STT SIGNAL CABLE
3/4"	15	15	2	2
1"	25	25	4	3
1-1/4"	39	39	6	5
1-1/2"	58	58	9	8
2"	102	102	16	15
2-1/2"	149	149	24	21
3"	225	225	36	32
3-1/2"	307	307	49	44
4"	401	401	65	58

ELECTRICAL ABREVIATIONS

A	AMPERE (AMPS)	NO	NORMALLY OPEN
AFF	ABOVE FINISHED FLOOR	NC	NORMALLY CLOSED
AFG	ABOVE FINISHED GRADE	NTS	NOT TO SCALE
AHJ	AUTHORITY HAVING JURISDICTION	N	NEUTRAL
AIC	AMPS INTERRUPTING CAPABILITY	NEC	NATIONAL ELECTRICAL CODE
AFCI	ARC-FAULT CIRCUIT INTERRUPTER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
ANSI	THE AMERICAN NATIONAL STANDARDS INSTITUTE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
BF	BALLAST FACTOR	NIC	NOT IN CONTRACT
BKR	BREAKER	OL	OVERLOAD
C	CONDUIT	OSHA	OCCUPATIONAL AND SAFETY HEALTH ACT
CB	CIRCUIT BREAKER	P	POLE
CR	CONTROL RELAY	PB	PUSH BUTTON
CT	CURRENT TRANSFORMER	PNL	PANEL
CKT	CIRCUIT	PRI	PRIMARY
CRI	COLOR RENDERING INDEX	PT	POTENTIAL TRANSFORMER
CU	COPPER CONDUCTOR	PTT	PUSH TO TEST
DC	DIRECT CURRENT	PF	POWER FACTOR
DETD	DUAL ELEMENT TIME DELAY FUSE	PLC	PROGRAMMABLE LOGIC CONTROLLER
DISC	DISCONNECT	PVC	POLYVINYL CHLORIDE CONDUIT
DN	DOWN	RCVR	RECEIVER
DNLT	DOWNLIGHT	RF	RETURN FAN
EF	EXHAUST FAN	RFI	RADIO FREQUENCY INTERFACE
EL	ELEVATION	RGSC	RIGID GALVANIZED STEEL CONDUIT
ETM	ELAPSED TIME METER	RMS	ROOT MEAN SQUARE
EX	EXISTING	RTU	REMOTE TERMINAL UNIT
EMT	ELECTRICAL METALLIC TUBING	SEC	SECONDARY
FLR	FLOOR	SF	SUPPLY FAN
FM	FLOW METER	SW	SWITCH
FLA	FULL LOAD AMPS	SWBD	SWITCHBOARD
FPM	FUSE PER MANUFACTURER REQUIREMENTS	SWGR	SWITCHGEAR
FS	FEDERAL SPECIFICATIONS	SCADA	SUPERVISORY CONTROL AND DATA AQUISITION
G OR GND	GROUND	SCCR	SHORT CIRCUIT CURRENT RATING
GFCI	GROUND-FAULT CIRCUIT INTERRUPTER	SPD	SURGE PROTECTION DEVICE
GFP	GROUND-FAULT PROTECTION	SYM	SYMMETRICAL
HOA	HAND-OFF-AUTO	TR	TIMING RELAY OR TIMER
HD	HEAVY DUTY	TTB	TELEPHONE TERMINAL BOARD
HP	HORSEPOWER	TYP	TYPICAL
IBC	INTERNATIONAL BUILDING CODE	THD	TOTAL HARMONIC DISTORTION
IEEE	THE INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS	TSP	TWISTED SHIELDED PAIR
IMC	INTERMEDIATE METALLIC CONDUIT	TST	TWISTED SHIELDED TRIPLET
KVA	KILO-VOLT AMPS	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
KW	KILOWATT	UL	UNDERWRITERS LABORATORIES INC.
KA	KILOAMPS	UON	UNLESS OTHERWISE NOTED
LA	LIGHTNING ARRESTOR	V	VOLTS
LCCF	LAMP CURRENT CREST FACTOR	W	WATTS
LTG	LIGHTING	WFC	WATERTIGHT FLEXIBLE CONDUIT
MCA	MINIMUM CIRCUIT AMPS	WG	WIRE GUARD
MCM	1000 CIRCULAR MILS (KCMIL)	WH	WATTHOUR
MOCP	MAXIMUM OVERCURRENT PROTECTION	WP	WEATHERPROOF
		XFR	TRANSFER
		XFMR	TRANSFORMER
		XP	EXPLOSION PROOF

GENERAL ELECTRICAL NOTES

1. CONTRACTOR WILL BE HELD RESPONSIBLE FOR HAVING VISITED THE SITE AND BEING FAMILIARIZED WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING BID.
2. CONSULT APPROVED MANUFACTURER'S WIRING AND CONNECTION DIAGRAMS AND SHOP DRAWINGS IN DETAIL FOR EXACT CONNECTION REQUIREMENTS TO EQUIPMENT PROVIDED BY OTHER TRADES.
3. DO NOT SCALE THESE DRAWINGS. ALL ROUGHING TO BE DONE FROM DIMENSIONS ON LAYOUT, ARCHITECTURAL, MECHANICAL, STRUCTURAL DRAWINGS AND SITE INVESTIGATION.
4. CONSULT LAYOUT, MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS CONCERNING EQUIPMENT LOCATIONS AND REQUIREMENTS.
5. ALL CONTROL, STATUS AND SIGNAL CABLES/WIRING SHALL BE VERIFIED BY THE EQUIPMENT SUPPLIERS AND/OR SYSTEM INTEGRATOR. ANY CHANGES OR ADDITIONS TO THE SYSTEM INDICATED ON THESE ELECTRICAL DRAWINGS THAT ARE REQUIRED TO ACCOMMODATE A SPECIFIC MANUFACTURER'S EQUIPMENT OR INTEGRATOR'S SYSTEM SHALL BE COVERED BY THE SUPPLIER OR INTEGRATOR.
6. ALL BRANCH CIRCUIT WIRING SHALL SHALL BE PROVIDED WITH A CIRCUIT IDENTIFICATION LABEL AT EACH END.
7. ALL CONTROL, STATUS AND SIGNAL CABLES/WIRING SHALL BE IDENTIFIED AT EACH TERMINATION AND IN PULL BOXES BY COLOR CODE OR NUMBERING SYSTEM. PROVIDE SCHEDULE FOR CONNECTIONS BEING MADE UNDER OTHER DIVISIONS.
8. CONTRACTOR'S RECORD DRAWINGS SHALL SHOW EXACT LOCATIONS OF UNDERGROUND CONDUITS AND DUCT BANKS.
9. CONNECTIONS TO MOTORS AND EQUIPMENT MADE WITH WATERTIGHT FLEXIBLE CONDUIT (WFC) SHALL BE PROPERLY SUPPORTED AND CLAMPED.
10. ALL EXPOSED CONDUIT SHALL BE INSTALLED USING SPECIFIED CLAMPS PROVIDING MINIMUM OF 1/2" SPACE BETWEEN CONDUIT AND MOUNTING SURFACE.
11. ALL WIRING PULLS SHALL BE WITHIN CABLE MANUFACTURER'S RECOMMENDED CABLE PULL TENSIONS. VERIFY WITH MANUFACTURER AND FIELD RECORD TENSIONS FOR SUBMITTAL TO ENGINEER.
12. ALL CONDUIT JOINTS IN UNDERGROUND RUNS FEEDING EQUIPMENT LOCATED LEVEL WITH OR BELOW CONDUIT ELEVATIONS SHALL BE SEALED WITH COPPER BASE CONDUCTIVE COUPLING COMPOUND AFTER WHICH A SEALANT WITH A PVC TAPE WRAP (1/2" OVERLAP) SHALL BE APPLIED TO EXTERIOR OF COUPLING. EXTEND WRAP 6" BEYOND COUPLING ON BOTH SIDES. THIS SHALL BE IN ADDITION TO CONDUIT COATING AS SPECIFIED.
13. ANY COATED MATERIAL THAT HAS FINISH DAMAGED, BROKEN OR CUT DURING INSTALLATION SHALL BE CLEANED AND COATED WITH A REPAIR KIT.
14. ALL SUPPORT FRAMING HARDWARE, BOLTS, ANCHORS, ETC. SHALL BE PROVIDED IN ACCORDANCE WITH SPECIFICATIONS.
15. CONSULT YARD PIPING PLANS FOR NEW AND EXISTING UTILITIES. ACCURACY OF PLANS CANNOT BE GUARANTEED, BUT IT IS ASSUMED THE UTILITIES ARE DENOTED AS CLOSELY AS POSSIBLE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, MAINTAIN AND PROTECT ANY EXISTING UTILITIES DURING NEW WORK AND REPAIR ANY AND ALL DAMAGED.
16. ALTERNATE ROUTING OF YARD CONDUITS FROM THAT INDICATED MAY BE CONSIDERED BUT MUST FIRST BE APPROVED BY ENGINEER.
17. ALL FLOOR SAW CUTTING AND CHASING, WALL AND FLOOR CORING AND CHASING OF EXISTING CONSTRUCTION TO ACCOMMODATE ELECTRICAL INSTALLATION SHALL BE PROVIDED UNDER ELECTRICAL CONTRACT. REPAIR OF SUCH FOR A WATERTIGHT INSTALLATION SHALL BE UNDER GENERAL CONTRACT.
18. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, FIXTURES, CONDUIT AND WIRING DEEMED USELESS AND/OR WHERE REMAINING IN VIEW AFTER RENOVATIONS.
19. ALL CONTROL AND SIGNAL CABLES/WIRING SHALL BE CONTINUOUS FROM POINT OF ORIGINATION TO POINT OF TERMINATION AND PULLED THRU PULL BOXES. NO SPLICES WILL BE ALLOWED.
20. UNLESS OTHERWISE NOTED PULL AND JUNCTION BOXES SHALL BE PER SPECIFICATIONS AND SIZED PER CODE AND/OR AS CONDITIONS DICTATE.
21. MINIMUM RACEWAY SIZE SHALL BE 3/4".
22. LEAVE SUFFICIENT SLACK IN ALL WIRING AND CABLES TO REACH FINAL TERMINATION POINTS. VERIFY FROM APPROVED EQUIPMENT DRAWINGS AND WIRING DIAGRAMS.
23. ANY POWER INTERRUPTION SHALL BE SCHEDULED WITH OWNER IN WRITING 72 HOURS PRIOR TO SHUTDOWN. SHUTDOWNS MAY BE LIMITED TO OFF-PEAK HOURS (LATE NIGHT).
24. SUSPENDED CONDUITS SHALL BE SUPPORTED WITH PROPERLY INSTALLED TRAPEZE HANGERS AND CONDUIT CLAMPS. INSTALL ALL NECESSARY HARDWARE FOR HANGER RODS.
25. ROUTING OF RACEWAYS IS ONLY A SUGGESTION BUT SHOULD BE FOLLOWED AS CLOSELY AS POSSIBLE. HOWEVER, ALTERNATE ROUTING WILL BE CONSIDERED WHERE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHOWN TO BE MORE FEASIBLE. WHERE EXACT ROUTING IS NOT INDICATED, RACEWAYS SHALL BE ROUTED CONCEALED IN SLAB OR STRUCTURE IN THE MOST PRUDENT MANNER.
26. TERMINATE ALL METALLIC WIRING AT CONTROL/SCADA/CCTV PANELS AND PROCESS INSTRUMENTATION IN ACCORDANCE WITH MANUFACTURER'S APPROVED WIRING DIAGRAMS.
27. CONSULT DEMOLITION PLANS FOR WORK ASSOCIATED WITH EXISTING STRUCTURE RENOVATION AND/OR EQUIPMENT BEING REMOVED AND/OR RELOCATED. DISCONNECT, DEACTIVATE AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, FIXTURES, CONDUIT AND WIRING THAT IS NOT BEING REUSED OR WHERE DEEMED USELESS AND/OR REMAINING IN VIEW AFTER RENOVATIONS AND EQUIPMENT REMOVAL. REMOVE ALL WIRING FROM ANY RACEWAYS NOT REUSED OR REMOVED. CUT-OFF OR CAP RACEWAYS FLUSH WITH FINISH CONSTRUCTION. ALL SALVAGE MATERIAL TO REMAIN THE PROPERTY OF THE OWNER. ANY MATERIAL NOT WANTED BY OWNER SHALL BE PROPERLY DISPOSED OF BY CONTRACTOR. VERIFY EXACT WORK REQUIRED FROM ON SITE INVESTIGATION AND CONSULTATION WITH ENGINEER.
28. COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES TO CLEAR WORK OF OTHER TRADES.
29. ALL ELECTRICAL WORK SHALL COMPLY WITH THE CURRENT NEC, NESC AND LOCAL CODES INCLUDING OWNERS STANDARDS AND REQUIREMENTS.
30. THE ELECTRICAL INSTALLATION SHALL MEET THE REQUIREMENTS OF NECA-1-2010: (STANDARD PRACTICES FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION).
31. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE-REQUIRED AND MANUFACTURER-RECOMMENDED SERVICING CLEARANCES ARE MAINTAINED. INSTALLATIONS SHALL COMPLY WITH NEC 110-26 FOR CLEARANCE REQUIREMENTS.
32. ALL AMPACITIES ARE BASED ON 75°C RATING. THE CONTRACTOR IS RESPONSIBLE FOR THE INCREASING OF CONDUCTOR SIZES AS NECESSARY TO MEET THE REQUIREMENTS OF NEC 110-14(C) WHERE TERMINATIONS ARE NOT LISTED AND LABELED FOR USE AT 75°C. THIS REQUIREMENT APPLIES TO TERMINATIONS IN BOTH NEW EQUIPMENT AND IN EXISTING EQUIPMENT TO WHICH TERMINATIONS ARE MADE AS PART OF THIS PROJECT.
33. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS REQUIRED FOR MAKING FINAL CONNECTION OF ALL EQUIPMENT INSTALLED OR MODIFIED AS PART OF THIS CONTRACT.
34. NO SPLICES SHALL BE MADE WITHOUT ENGINEERS APPROVAL. NO JUNCTIONS SHALL BE MADE BELOW GRADE WITHOUT APPROVAL OF THE ENGINEER.
35. ELECTRICAL DUCTBANKS SHALL CROSS PROCESS PIPING AT A 90° ANGLE WHERE POSSIBLE. REFER TO DUCTBANK DETAILS AND SPECIFICATIONS.

EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT NOTES:

1. THE CONTRACTOR SHALL PERFORM A FIELD SURVEY OF EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT AND VERIFY ALL REQUIREMENTS BEFORE SUBMITTING SHOP DRAWINGS.
2. THE CONTRACTOR SHALL EVALUATE EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT LOADING IAW THE NEC PRIOR TO ADDITION OF NEW EQUIPMENT LOADS.
3. IF EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT WILL NOT SUPPORT MODIFICATIONS AS SHOWN IN PLANS, ENGINEER APPROVAL OF AN ALTERNATE SOLUTION SHALL BE OBTAINED.

NOTE:

1. ALL INFORMATION ON THIS LEGEND MAY NOT BE USED.

BID DOCUMENTS

THESE DOCUMENTS ARE FOR THE PURPOSE OF SOLICITATION OF BIDS AND ARE NOT FOR USE FOR CONSTRUCTION

AECOM

PROJECT

2nd Mill Pond Dam Rehabilitation

CLIENT

SUMTER COUNTY
1289 North Main Street
Sumter, South Carolina, 29150
803.774.3855 tel
www.aconyers@sumtercountysc.org

CONSULTANT

AECOM
4016 Salt Pointe Parkway
North Charleston, South Carolina, 29405
843.767.4602 tel 843.767.4723 fax
www.aecom.com

REGISTRATION

SOUTH CAROLINA — AECOM TECHNICAL SERVICES, INC. — No. 1473 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — PROFESSIONAL ENGINEER — No. 23410 — LICENSED — CHRISTOPHER J. ADAMS

ISSUE/REVISION

I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER

60494398

SHEET TITLE

ELECTRICAL LEGEND AND GENERAL NOTES

SHEET NUMBER

E3

Last saved by: MICHAEL.FEDORENKO(2017-05-08) Last Plotted: 2017-06-13
Filename: N:\PROJECTS\60494398_SUMTER COUNTY\500-DELIVERABLES\512-90% PROGRESS PACKAGE\E2ND MILL 90 PERCENT\60494398-E1.DWG
Printed on ___% Post-Consumer