

CHATHAM COUNTY PURCHASING & CONTRACTING DEPARTMENT

ADDENDUM NO. 2 TO 12-0125-4

**FOR: HUNT DRIVE BRIDGE REPLACEMENT AND FAYE DRIVE BRIDGE REPLACEMENT**

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PLEASE SEE THE FOLLOWING FOR ADDITIONS, CLARIFICATIONS AND/OR CHANGES:

1. SEE ATTACHED (3 sheets) FOR RESPONSES TO QUESTIONS RECEIVED.
  2. SEE ATTACHED BRIDGE FOUNDATION INVESTIGATION REPORT FOR HUNT DRIVE BRIDGE REPLACEMENT ( 12 sheets)
  3. SEE ATTACHED BRIDGE FOUNDATION INVESTIGATION REPORT FOR FAYE DRIVE BRIDGE REPLACEMENT ( 12 sheets)
  4. SEE ATTACHED USACE PERMIT FOR HUNT DRIVE ( 8 sheets)
  5. SEE ATTACHED USACE PERMIT FOR FAYE DRIVE ( 8 sheets)
  6. SEE ATTACHED CRD PERMIT FOR HUNT DRIVE ( 13 sheets)
  7. SEE ATTACHED CRD PERMIT FOR FAYE DRIVE ( 12 sheets)
- 

**THE BID OPENING REMAINS:  
2PM, THURSDAY, JANUARY 29, 2013**

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**THE PROPOSER IS RESPONSIBLE FOR MAKING THE NECESSARY CHANGES AND MUST ACKNOWLEDGE RECEIPT OF ADDENDUM.**

1-16-13

DATE

  
\_\_\_\_\_  
ROBERT E. MARSHALL  
SENIOR PROCUREMENT SPECIALIST  
CHATHAM COUNTY

## RESPONSES TO QUESTIONS RECEIVED:

1. Section 12 of the Special conditions titled " Minority Participation Goal" states the contractor should submit a plan with the bid to show how M/WBE sub-contractors are encouraged to participate. What specific documentation of our good faith effort is required to satisfy this requirement?

*A: Contact M/WBE Coordinator, Arneja Riley, for any questions regarding M/WBE participation and good faith efforts, as stated in the Invitation to Bid document.*

2. Special Provisions Section 511 requires testing of the reinforcing steel couplers. This provision indicates that the testing of these couplers should be paid for by the contractor, however Section 15 of the Special Conditions indicates all testing services shall be under separate contract with Chatham County. Please clarify.

*A: All testing will be completed by an independent testing agency under separate contract with Chatham County.*

3. There are various conduits and utilities attached to the existing bridges and they are shown on DWG 24-002. There are no pay items that address the handling, demolition, or cutting and capping of these utilities. Is it correct to assume that all utility work will be performed and paid for by others?

*A: The utility work will be completed by each utility company, but coordination between Chatham County, the utility provider and the contractor will be required throughout construction. All utility companies will be invited to attend the pre-construction meeting. Costs associated with relocation will be incurred by Chatham County.*

4. Will the contractor be required to keep any utilities active or supported during construction?

*A: The gas line will be relocated for both bridges as shown on the construction plans. AGL anticipates completing relocation prior to construction beginning on the bridges. For both bridges, the AT&T line will be required to remain active during construction. Contractor will be required to coordinate with AT&T. The water line on the Hunt Drive bridge will be taken out of service during construction. The water line on Faye Drive bridge will be required to remain active, and will have to be relocated during stage 2 of construction. Georgia Power lines and Comcast will be required to remain active during construction.*

5. There are several wetland boundary areas identified on the plans in which construction will take place. What are the restrictions in these areas? Will they be required to be mitigated after construction? If so, there is no pay item for " Riparian, Stream Restoration, Wetland & Stream Mitigation".

*A: Restriction for work in EAS are included in the attached USACE permit and Georgia DNR permit. No mitigation is required for these projects.*

6. DWG 19-017 indicates that the traffic signal equipment shall be delivered to a location determined by Chatham County. Where is this location?

*A: Chatham County Public Works and Park Services, 7226 Varnedoe Drive, Savannah, Georgia.*

7. There is very little available construction easement/ROW at the jobsite. Is it the intention that the work needs to be completed from a barge?

*A: Contractor will be required to work within existing easements and right of way and shall determine how best to construct both bridges. If additional right of way or easements are required, the contractor will be required to obtain them at their own expense.*

8. The power lines are too close to work safely in accordance with the Georgia High Voltage Act without relocating the lines. Have arrangements been made with the power company and what agreements are in place with the power company as to who would bear the cost of the relocations?

*A: Chatham County is working with Georgia Power on possible options. The options being considered are raising the lines in place approximately 10 feet to provide additional clearance, relocating the lines temporarily during construction or possibly boring the lines below both channels permanently.*

9. The specifications state that all sub-contractors must be pre-qualified by GDOT at the time of bid opening. Sections 2.21 and 2.22 of General Conditions also states that the County particularly urges contractors to give emphasis to local area M/WBE firms. Many of the locally certified M/WBE firms are not qualified with GDOT, and cannot quote this project. Is the GDOT prequalification a requirement that will be enforced for all subcontractors regardless of their status as certified through Chatham county and the City of Savannah?

*A: Yes, the GDOT prequalification requirement will be enforced for both of these projects.*

10. There will be times during construction that traffic will have to be prohibited from crossing the bridge in order to safely work. What are the requirements and restrictions for temporarily stopping traffic?

*A: Temporary lane closures will be allowed, however, a minimum of 48 hours notice must be given to Chatham County prior to needing the lane closures so that residents can be notified. Lane closures will only be allowed on a temporary basis and must be limited to minimize the time of duration to allow traffic to pass across the bridge between required closures. Lane closures will only be allowed between the hours of 10: am and 2:00 pm to not impede the flow of buses during the school year.*

11. Are there any soil borings available for the site?

*A: A copy of the Bridge Foundation Report is attached to this addendum.*

12. Note 9 on DWG 19-016 (Hunt) says that the signal heads shall be aluminum, but the List of Materials on DWG 19-017 lists a Plastic signal head. Which signal head is desired?

*A: Signal heads shall be aluminum in accordance to Note 9 on sheet 19-016.*

**End of Responses**

# Bridge Foundation Investigation

Bridge Replacement on Hunt Drive Over Hunt Canal

Chatham County, Georgia

November 28, 2010

Terracon Project No. ES105111

Prepared for:

Chatham County

Savannah, Georgia 31410

Prepared by:

Terracon Consultants, Inc.

Savannah, Georgia

Offices Nationwide  
Employee-Owned

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[terracon.com](http://terracon.com)

# Terracon

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

November 28, 2010

**Terracon**

Chatham County Department of Engineering  
124 Bull Street, Suite 430  
Savannah, Georgia 31410

Attn: Mr. Nathaniel Panther, P.E.

Re: **Bridge Foundation Investigation**  
Bridge Replacement on Hunt Drive Over Hunt Canal  
Chatham County, Georgia  
Terracon Project No. ES105111

Dear Mr. Panther:

Terracon Consultants, Inc. is pleased to submit this Bridge Foundation Investigation Report for the proposed Bridge Replacement on Hunt Drive Over Hunt Canal in Chatham County, Georgia. The report has been completed in accordance with the QA/QC Manual by the Geotechnical Engineering Bureau of the Georgia Department of Transportation.

Terracon appreciates the opportunity to be of service to Chatham County on this project. Please feel free to contact us if you have any question or if we can be of further assistance.

Respectfully submitted,  
**Terracon Consultants, Inc.**



Zengxuan (Frank) Li, P.E.  
Senior Geotechnical Engineer



Guoming Lin, Ph.D., P.E.  
Senior Principal/Senior Consultant



Terracon Consultants, Inc. 2201 Rowland Avenue Savannah GA 31404  
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**Geotechnical**



**Environmental**



**Construction Materials**



**Facilities**

**Bridge Foundation Investigation Report**

Bridge Replacement on Hunt Drive over Hunt Canal @ Savannah, Chatham County, Georgia  
November 28, 2010 @ Terracon Project No. ES105111

**BRIDGE FOUNDATION INVESTIGATION**

**PROJECT NUMBER** N/A, Chatham County  
**P.I. NUMBER** N/A  
**LOCATION (See Map)** Bridge Replacement on Hunt Drive over Hunt Canal

**GENERAL INFORMATION**

**GEOLOGIC FORMATION** Wicomico Shoreline Complex Formation of the Georgia Coastal Plain Region

**SUBSURFACE FEATURES** Medium dense sands and hard sandy clay below elevation -48 ft overlain by very loose to loose clayey sand and soft to stiff clay or silts layers.

Groundwater was encountered at Elevation 0.1 to 0.3 ft.

**MAXIMUM PILE DESIGN LOADS**

END BEARING = 15%	14" PSC = 50 Tons
FRICTION = 85%	16" PSC = 60 Tons
	18" PSC = 70 Tons
	20" PSC = 80 Tons
	24" PSC = 105 Tons

**FOUNDATION RECOMMENDATIONS**

<b><u>BENTS</u></b>	<b><u>DRILLED SHAFT ( BEARING )</u></b>	<b><u>SPREAD FTG ( BEARING )</u></b>	<b><u>PILE FOOTING ( PILE TYPE )</u></b>	<b><u>PILE BENT ( PILE TYPE )</u></b>
1 - 4				PSC

**ELEVATIONS**

<b><u>BENTS</u></b>	<b><u>BOTTOM OF FTG</u></b>	<b><u>MINIMUM TIP</u></b>	<b><u>ESTIMATED TIP</u></b>
1 (STA 53+11.13)		-50	-53
2 (STA 53+45.13)		-50	-72
3 (STA 54+05.13)		-50	-68
4 (STA 54+35.13)		-50	-58

**NOTES**

**Elevations** All elevations are based on survey information provided by the design engineer and the Benchmark Information provided on the Preliminary Bridge Layout (July 2010).

**PDO** Driving resistance after Minimum Tip Elevations is achieved.

**Bridge Foundation Investigation Report**

Bridge Replacement on Hunt Drive over Hunt Canal ■ Savannah, Chatham County, Georgia  
November 28, 2010 ■ Terracon Project No. ES105111

**Terracon**

**Waiting Period** None required.

**Theoretical Scour** Appears feasible for the material encountered.

**Erosion** We recommend the use of 24 inches of Type I riprap and filter fabric.

**Spudding/Jetting** Spudding and/or jetting will/may be required to achieve the Minimum Tip Elevations for PSC piles.

**Pre-drilling** The Contractor may choose pre-drilling as an option to assist in the installation of PSC piles at the proposed intermediate bents, as per Special Provision 520. No separate payment will be made if the Contractor chooses to use pre-drilling. Pre-drilling should be set up to 3 feet above Minimum Tip Elevation. The maximum diameter of the pre-drilled hole should be determined from the following table:

<u>PSC Pile Size</u>	<u>Maximum Pre-drill Auger Size</u>
14"	12"
16"	18"
18"	18"
20"	24"
24"	24"

**Test Piles** We recommend that PSC test piles be set up at Bents 1 and 3 to help determine pile order lengths. They should be of sufficient length to reach a depth of 5 feet below the Estimated Tip Elevation.

**As Built Information** The as built foundation information should be forwarded to the Geotechnical Engineering Bureau upon completion of the foundation system.

**Prepared By** Zengxuan (Frank) Li, P.E.

**Reviewed By** Guoming Lin, Ph.D., P.E.

**Enclosed:** Special Provision 520  
Site Location Map  
Boring Location Plan  
Standard Penetration Test Boring Logs  
Laboratory Testing Summary



Revised: November 15, 2003

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**SPECIAL PROVISION**

**PROJECT NO. , Chatham County  
P.I. NO.**

**SECTION 520—PILING**

*Add the following to Subsection 520.3.05.G:*

At the Contractor's option, predrilling may be used to loosen dense soil layers to assist in the installation of piling in lieu of spudding or jetting. To predrill, drill an auger into the ground to the required elevation at the pile location. It is not necessary to remove all material or to provide casing. Use one of the following maximum auger diameters corresponding to the pile size:

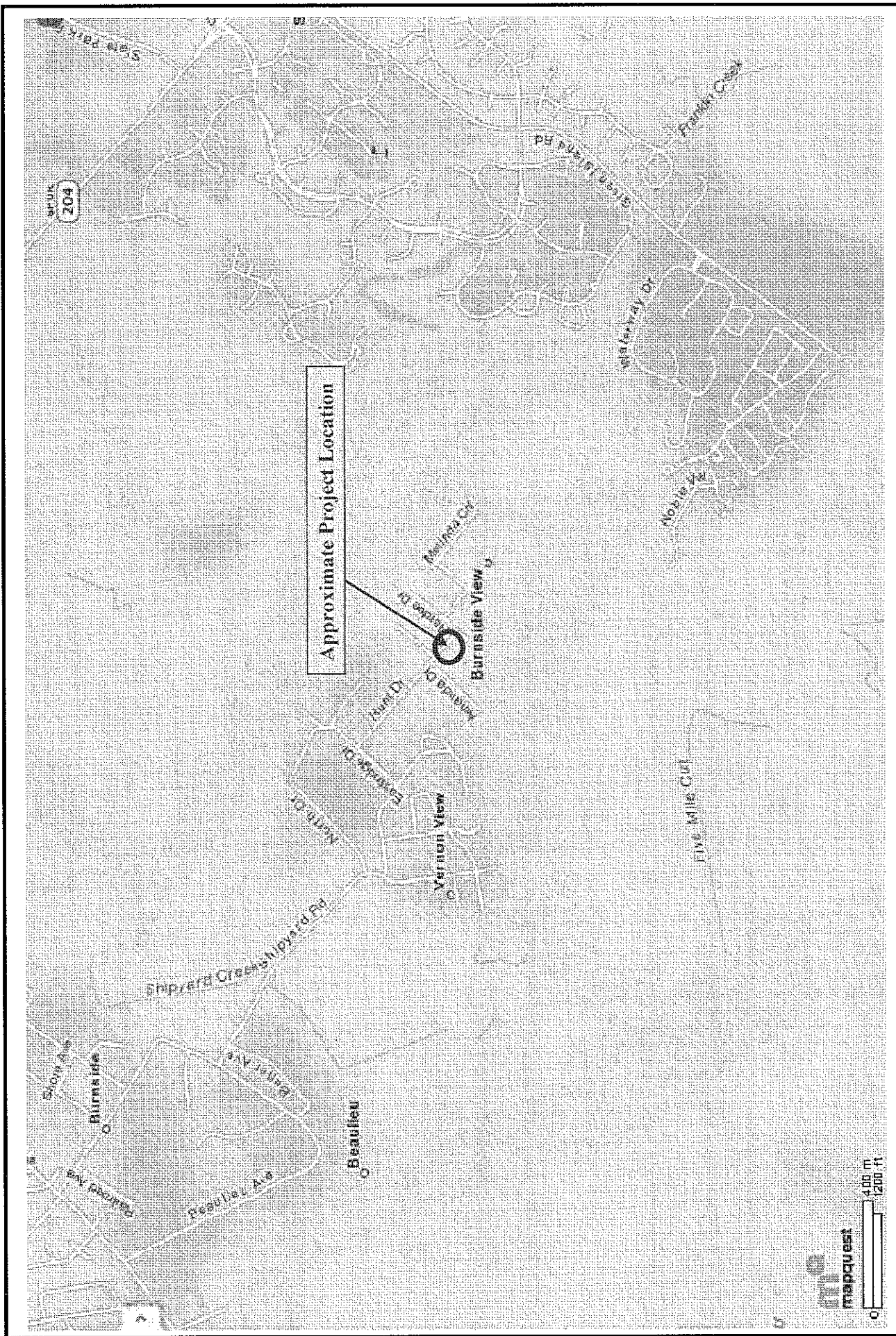
<u>PSC Pile Size</u>	<u>Maximum Pre-drill Auger Size</u>
14" (350 mm)	12" (300 mm)
16" (400 mm)	18" (450 mm)
18" (450 mm)	18" (450 mm)
20" (500 mm)	24" (600 mm)
24" (600 mm)	24" (600 mm)
30" (750 mm)	30" (750 mm)
36" (900 mm)	36" (900 mm)

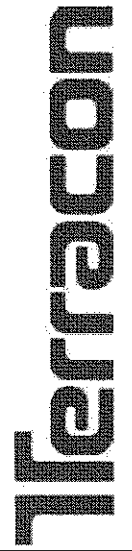
<u>Metal Pile Size</u>	<u>Maximum Pre-drill Auger Size</u>
14" (350 mm)	12" (300 mm)
16" (400 mm)	12" (300 mm)
18" (450 mm)	12" (300 mm)

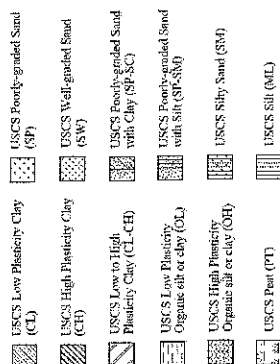
There will not be any separate payment made for predrilling.

Office of Materials and Research



Approximate Project Location

		<b>Figure No.</b> <b>I</b>	
		<b>ES105111</b>	
<b>SCALE:</b> NTS		<b>SITE VICINITY PLAN</b>	
<b>CHECKED BY:</b> GL		<b>HUNT DRIVE BRIDGE OVER HUNT CANAL</b>	
<b>DRAWN BY:</b> JM		<b>SAVANNAH, GA</b>	
<b>DATE:</b> 12/1/2010			



**Terracon**  
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GEORGIA  
DEPARTMENT OF TRANSPORTATION  
GEOTECHNICAL ENGINEERING BUREAU

**BORING LOCATION & SOIL PROFILE**

# BRIDGE REPLACEMENT ON HUNT DRIVE OVER HUNT CANAL

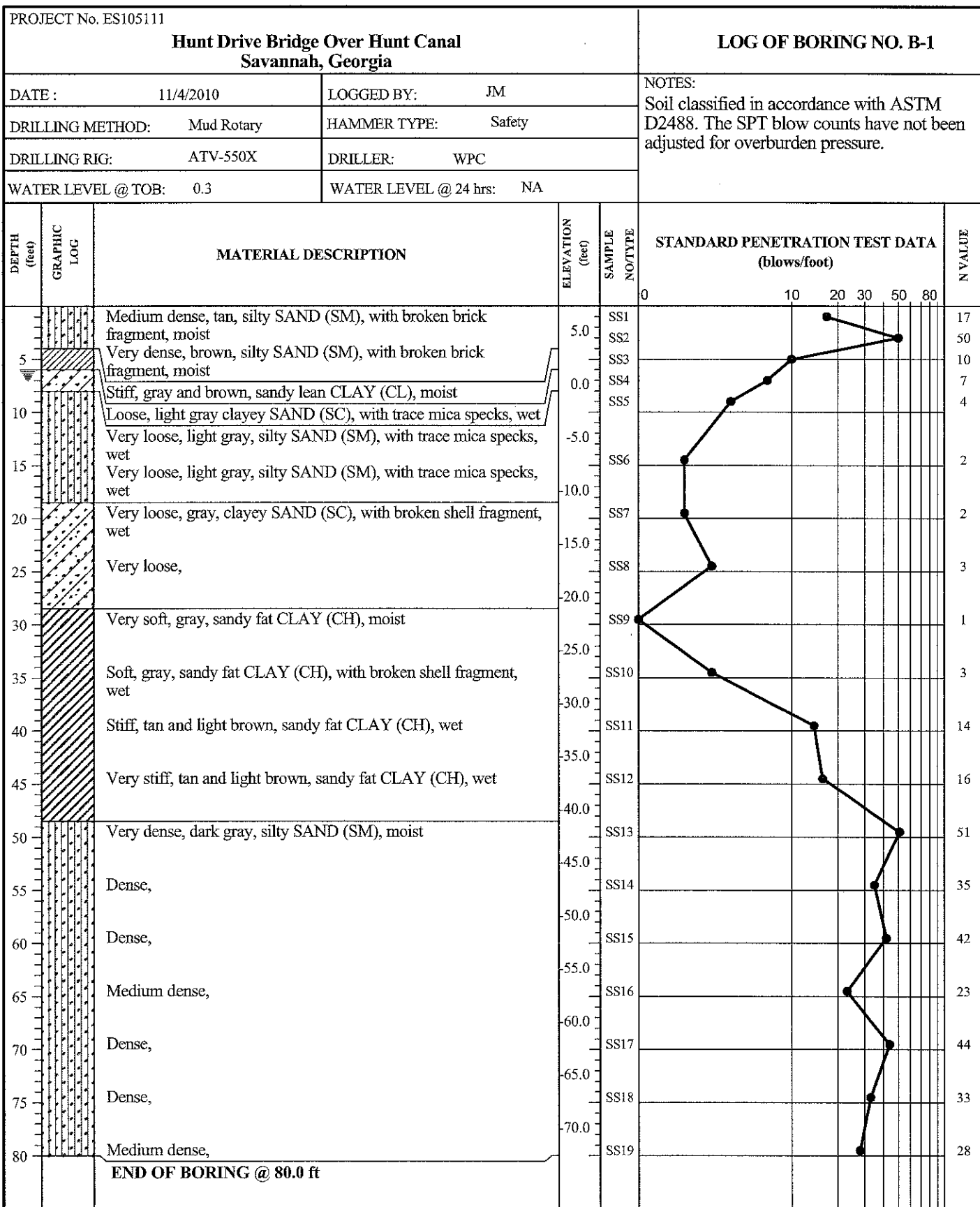
CHATHAM CO.

NOVEMBER 2010

0351A38

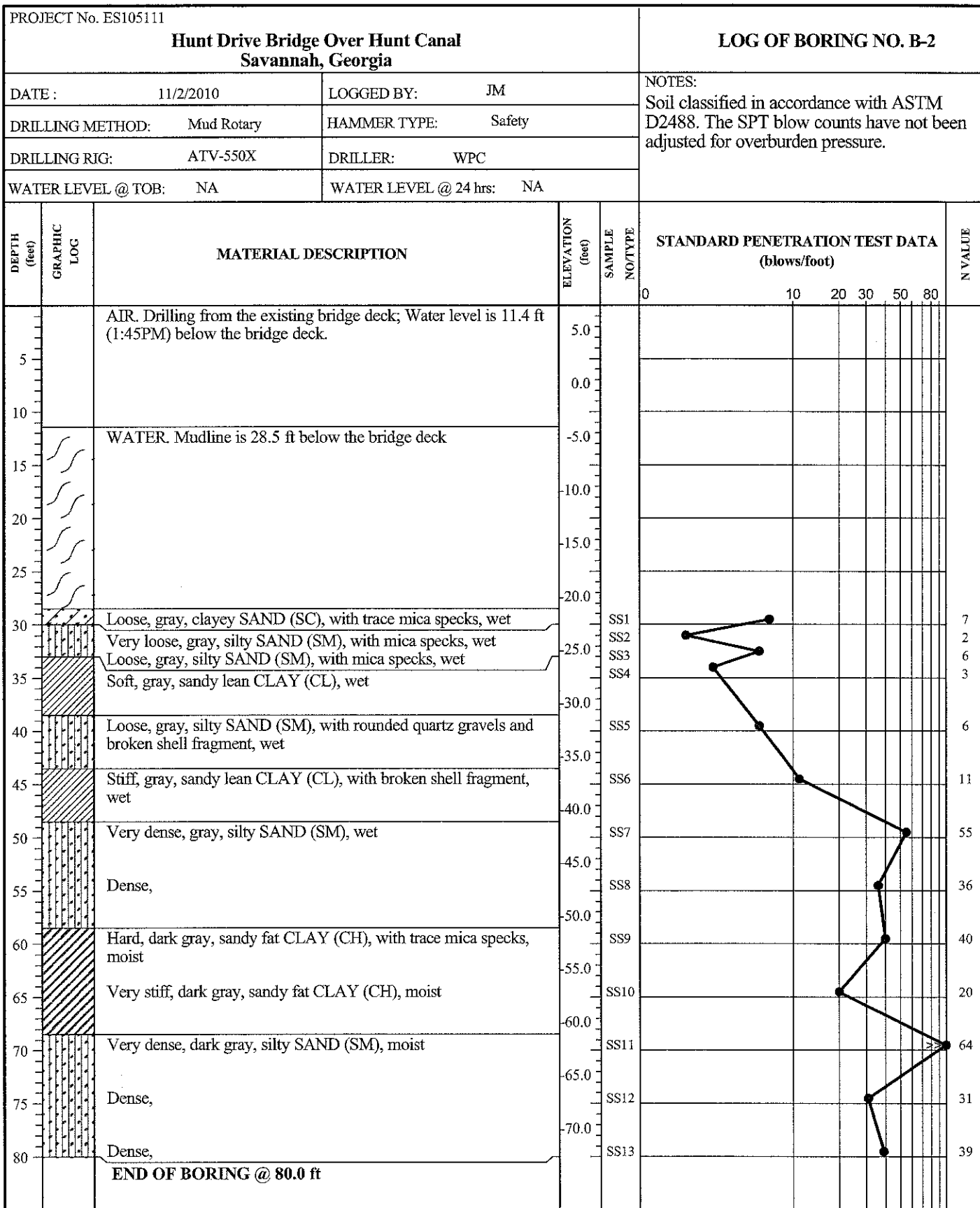
CHECKED \_\_\_\_\_  
DATE \_\_\_\_\_

DESIGNED \_\_\_\_\_  
DRAWN \_\_\_\_\_



**Terracon**

24-hrs water table  
 Water table at end of the boring



PROJECT No. ES105111

# Hunt Drive Bridge Over Hunt Canal Savannah, Georgia

## LOG OF BORING NO. B-3

DATE: 11/3/2010

LOGGED BY: JM

DRILLING METHOD: Mud Rotary

HAMMER TYPE: Safety

DRILLING RIG: ATV-550X

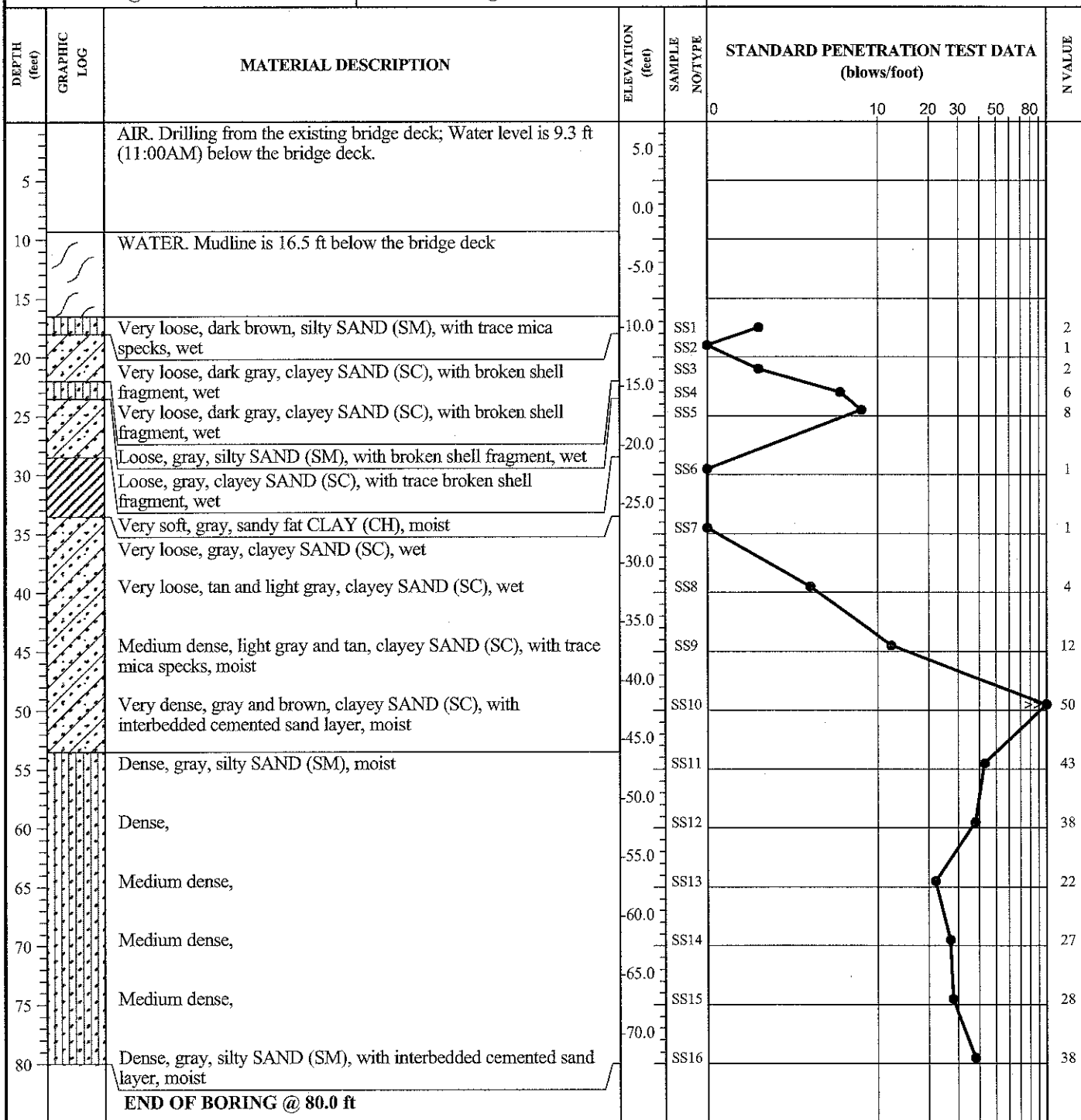
DRILLER: WPC

WATER LEVEL @ TOB: NA

WATER LEVEL @ 24 hrs: NA

## NOTES:

Soil classified in accordance with ASTM D2488. The SPT blow counts have not been adjusted for overburden pressure.



# Terracon



24-hrs water table



Water table at end of the boring

PROJECT No. ES105111

**Hunt Drive Bridge Over Hunt Canal  
Savannah, Georgia****LOG OF BORING NO. B-4**

DATE: 11/4/2010

LOGGED BY: JM

DRILLING METHOD: Mud Rotary

HAMMER TYPE: Safety

DRILLING RIG: ATV-550X

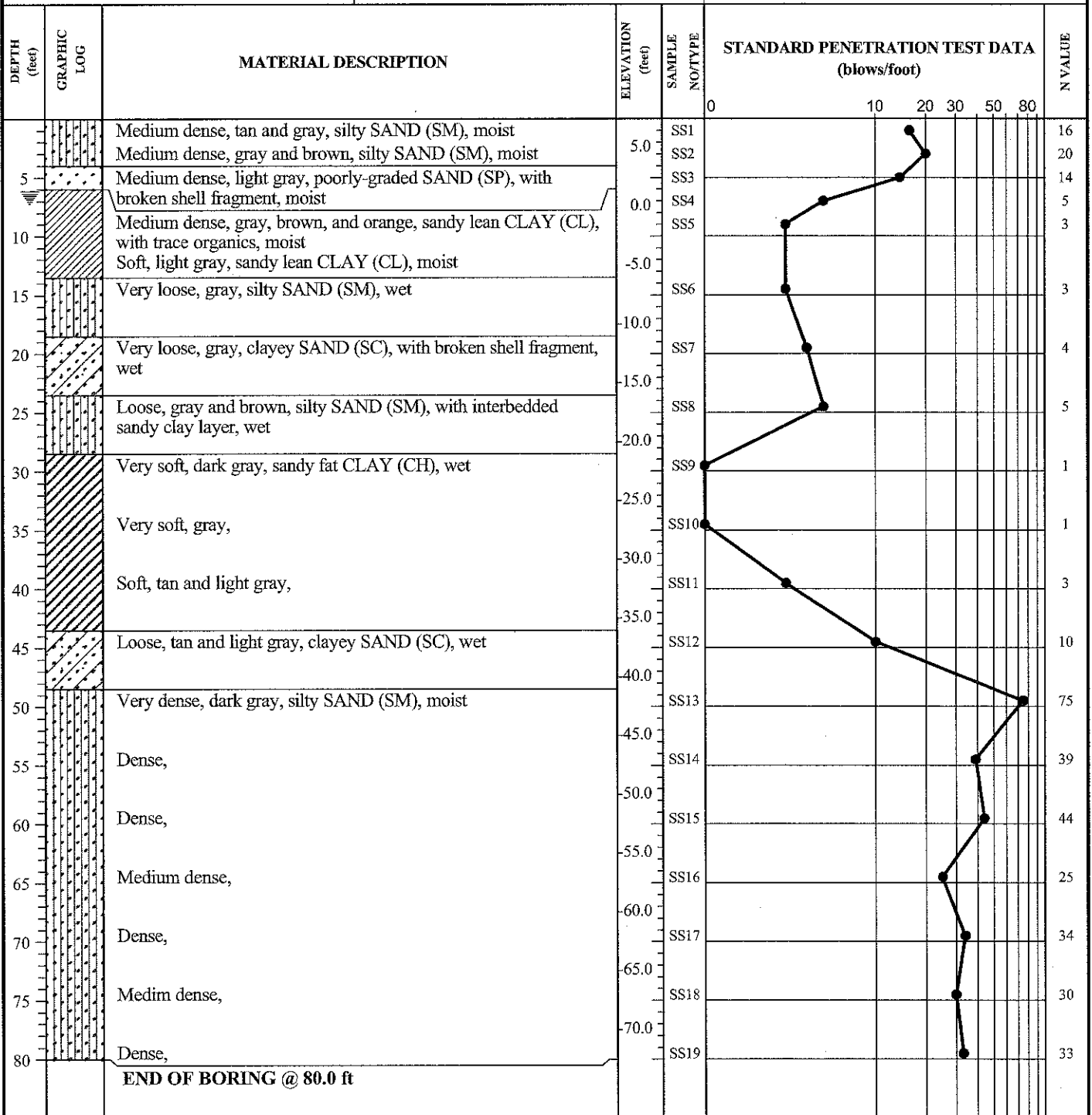
DRILLER: WPC

WATER LEVEL @ TOB: 0.1

WATER LEVEL @ 24 hrs: NA

## NOTES:

Soil classified in accordance with ASTM D2488. The SPT blow counts have not been adjusted for overburden pressure.

**Terracon**

24-hrs water table



Water table at end of the boring

## LABORATORY SOIL REPORT

Hunt Drive Bridge over Hunt Canal  
Project No.: P.I. No.:

Chatham County, GA  
Terracon Project No. ES105111

Boring No.	Bent No.	Offset	Depth (ft)	Sample Type	Date Received	Date Completed	Moisture Contents (%)	Organic Content (%)	Plastic Limit (%)	Liquid Limit (%)	Fine (%)	USCS Classification
B-1			28.5 - 30	Split Spoon	11/17/10	11/22/10	90.6		26.5	77.5		CH
B-1			63.5 - 65	Split Spoon	11/17/10	11/22/10	49.1				29.3	SM
B-2			48.5 - 50	Split Spoon	11/17/10	11/22/10	32.8				28.8	SM
B-2			63.5 - 65	Split Spoon	11/17/10	11/22/10	71.3		20.9	96.4		CH
B-3			28.5 - 30	Split Spoon	11/17/10	11/22/10	73.6		16.7	67.9		CH
B-3			63.5 - 65	Split Spoon	11/17/10	11/22/10	66.0				48.6	SM
B-4			28.5 - 30	Split Spoon	11/17/10	11/22/10	81.7		15.9	85.0		CH
B-4			63.5 - 60	Split Spoon	11/17/10	11/22/10	59.9				36.9	SM



# Bridge Foundation Investigation

Bridge Replacement on Faye Drive Over Faye Canal

Chatham County, Georgia

November 28, 2010

Terracon Project No. ES105110

**Prepared for:**

Chatham County

Savannah, Georgia 31410

**Prepared by:**

Terracon Consultants, Inc.

Savannah, Georgia

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# Terracon

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

November 28, 2010



Chatham County Department of Engineering  
124 Bull Street, Suite 430  
Savannah, Georgia 31410

Attn: Mr. Nathaniel Panther, P.E.

Re: **Bridge Foundation Investigation**  
Bridge Replacement on Faye Drive Over Faye Canal  
Chatham County, Georgia  
Terracon Project No. ES105110

Dear Mr. Panther:

Terracon Consultants, Inc. is pleased to submit this Bridge Foundation Investigation Report for the proposed Bridge Replacement on Faye Drive Over Faye Canal in Chatham County, Georgia. The report has been completed in accordance with the QA/QC Manual by the Geotechnical Engineering Bureau of the Georgia Department of Transportation.

Terracon appreciates the opportunity to be of service to Chatham County on this project. Please feel free to contact us if you have any question or if we can be of further assistance.

Respectfully submitted,  
**Terracon Consultants, Inc.**

A handwritten signature in black ink, appearing to read "Zengxuan Li".

Zengxuan (Frank) Li, P.E.  
Senior Geotechnical Engineer

A handwritten signature in black ink, appearing to read "Guoming Lin".

Guoming Lin, Ph.D., P.E.  
Senior Principal/Senior Consultant



Terracon Consultants, Inc. 2201 Rowland Avenue Savannah GA 31404  
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Geotechnical



Environmental



Construction Materials



Facilities

**Bridge Foundation Investigation Report**

Bridge Replacement on Faye Drive over Faye Canal ■ Savannah, Chatham County, Georgia  
 November 28, 2010 ■ Terracon Project No. ES105110



## BRIDGE FOUNDATION INVESTIGATION

**PROJECT NUMBER** N/A, Chatham County  
**P.I. NUMBER** N/A  
**LOCATION (See Map)** Bridge Replacement on Faye Drive over Faye Canal

## GENERAL INFORMATION

**GEOLOGIC FORMATION** Wicomico Shoreline Complex Formation of the Georgia Coastal Plain Region

**SUBSURFACE FEATURES** Medium dense sands and hard sandy clay below elevation -47 ft overlain by very loose to loose clayey sand and soft to stiff clay or silts layers.

Groundwater was encountered at Elevation 0.1 to 0.7 ft.

## MAXIMUM PILE DESIGN LOADS

END BEARING = 15%	14" PSC = 45 Tons
FRICTION = 85%	16" PSC = 55 Tons
	18" PSC = 65 Tons
	20" PSC = 75 Tons
	24" PSC = 95 Tons

## FOUNDATION RECOMMENDATIONS

<u>BENTS</u>	<u>DRILLED SHAFT ( BEARING )</u>	<u>SPREAD FTG ( BEARING )</u>	<u>PILE FOOTING ( PILE TYPE )</u>	<u>PILE BENT ( PILE TYPE )</u>
1 - 4				PSC

## ELEVATIONS

<u>BENTS</u>	<u>BOTTOM OF FTG</u>	<u>MINIMUM TIP</u>	<u>ESTIMATED TIP</u>
1 (STA 12+43.57)		-50	-52
2 (STA 12+73.57)		-50	-70
3 (STA 13+33.57)		-50	-70
4 (STA 13+71.57)		-50	-56

## NOTES

**Elevations** All elevations are based on survey information provided by the design engineer and the Benchmark Information provided on the Preliminary Bridge Layout (July 2010).

**PDO** Driving resistance after Minimum Tip Elevations is achieved.

**Bridge Foundation Investigation Report**

Bridge Replacement on Faye Drive over Faye Canal ■ Savannah, Chatham County, Georgia

November 28, 2010 ■ Terracon Project No. ES105110



- Waiting Period** None required.
- Theoretical Scour** Appears feasible for the material encountered.
- Erosion** We recommend the use of 24 inches of Type I riprap and filter fabric.
- Spudding/Jetting** Spudding and/or jetting will/may be required to achieve the Minimum Tip Elevations for PSC piles.
- Pre-drilling** The Contractor may choose pre-drilling as an option to assist in the installation of PSC piles at the proposed intermediate bents, as per Special Provision 520. No separate payment will be made if the Contractor chooses to use pre-drilling. Pre-drilling should be set up to 3 feet above Minimum Tip Elevation. The maximum diameter of the pre-drilled hole should be determined from the following table:

<u>PSC Pile Size</u>	<u>Maximum Pre-drill Auger Size</u>
14"	12"
16"	18"
18"	18"
20"	24"
24"	24"

- Test Piles** We recommend that PSC test piles be set up at Bents 1 and 3 to help determine pile order lengths. They should be of sufficient length to reach a depth of 5 feet below the Estimated Tip Elevation.
- As Built Information** The as built foundation information should be forwarded to the Geotechnical Engineering Bureau upon completion of the foundation system.
- Prepared By** Zengxuan (Frank) Li, P.E.
- Reviewed By** Guoming Lin, Ph.D., P.E.

**Enclosed:** Special Provision 520  
Site Location Map  
Boring Location Plan  
Standard Penetration Test Boring Logs  
Laboratory Testing Summary

Revised: November 15, 2003

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

**SPECIAL PROVISION**

**PROJECT NO. , Chatham County  
P.I. NO.**

**SECTION 520—PILING**

*Add the following to Subsection 520.3.05.G:*

At the Contractor's option, predrilling may be used to loosen dense soil layers to assist in the installation of piling in lieu of spudding or jetting. To predrill, drill an auger into the ground to the required elevation at the pile location. It is not necessary to remove all material or to provide casing. Use one of the following maximum auger diameters corresponding to the pile size:

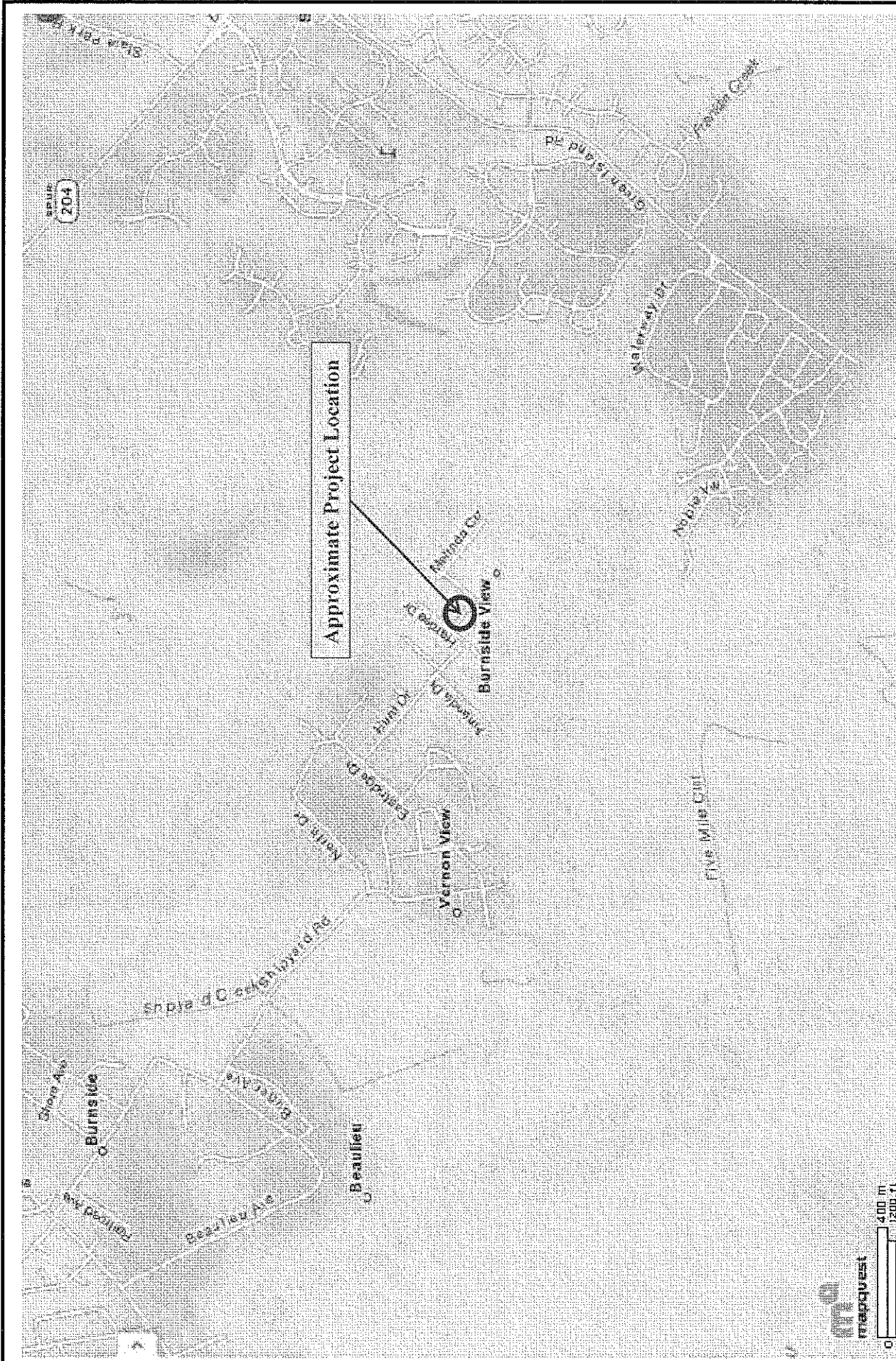
<u>PSC Pile Size</u>	<u>Maximum Pre-drill Auger Size</u>
14" (350 mm)	12" (300 mm)
16" (400 mm)	18" (450 mm)
18" (450 mm)	18" (450 mm)
20" (500 mm)	24" (600 mm)
24" (600 mm)	24" (600 mm)
30" (750 mm)	30" (750 mm)
36" (900 mm)	36" (900 mm)


  

<u>Metal Pile Size</u>	<u>Maximum Pre-drill Auger Size</u>
14" (350 mm)	12" (300 mm)
16" (400 mm)	12" (300 mm)
18" (450 mm)	12" (300 mm)

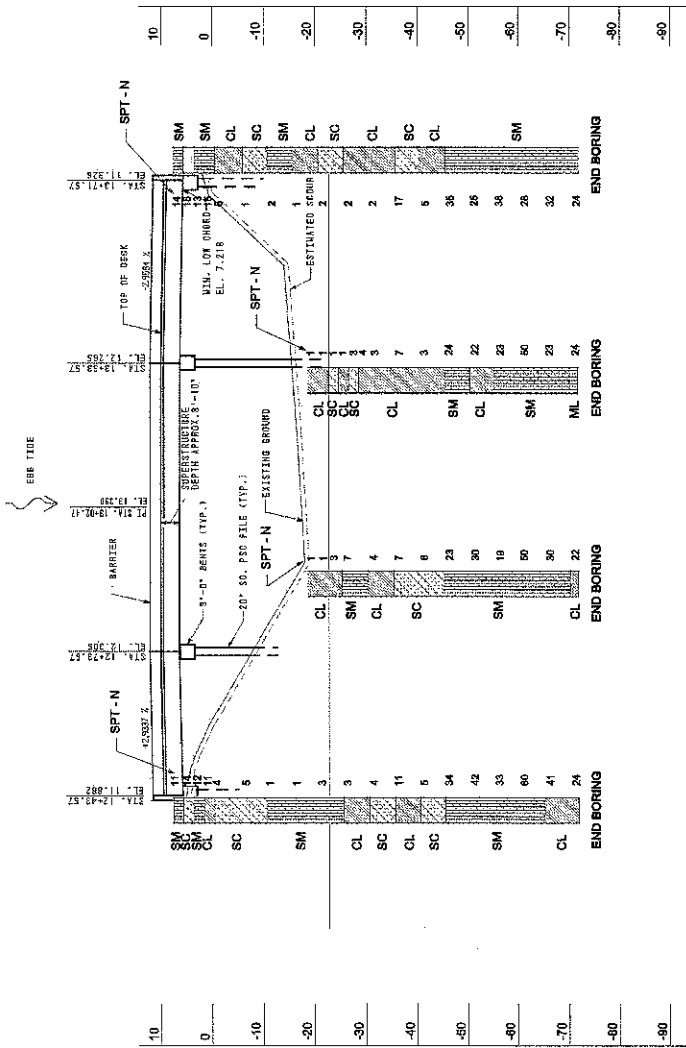
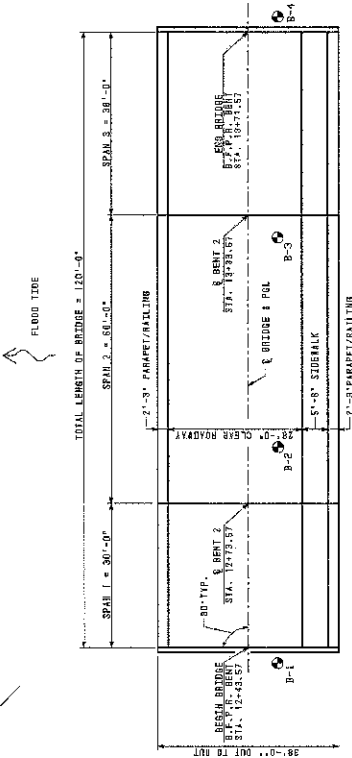
There will not be any separate payment made for predrilling.

Office of Materials and Research



	SCALE:	NTS	<b>Figure No.</b>  <b>I</b>
	CHECKED BY:	GL	
	DRAWN BY:	JM	
	DATE:	12/1/2010	
<b>PROJECT LOCATION PLAN</b>  <b>FAYE DRIVE BRIDGE OVER FAYE CANAL</b>  SAVANNAH, GA  ES105110			

- USCS Low Plasticity Clay (CL)
- USCS High Plasticity Clay (CH)
- USCS Low to High Plasticity Clay (CL-CH)
- USCS Low Plasticity Organic silt or clay (OL)
- USCS High Plasticity Organic silt or clay (OH)
- USCS Fec (PT)
- USCS Poorly-graded Sand (SP)
- USCS Well-graded Sand (SW)
- USCS Poorly-graded Sand with Clay (SP-SC)
- USCS Poorly-graded Sand with Silt (SP-SM)
- USCS Silty Sand (SM)
- USCS SH (SL)



**Terracon**  
Terracon Consultants, Inc.  
2201 Rutland Avenue  
Savannah, Georgia 31404  
P 912-639-1000 F 912-639-1001

GEORGIA  
**DEPARTMENT OF TRANSPORTATION**  
GEOTECHNICAL ENGINEERING BUREAU

BORING LOCATION & SOIL PROFILE

BRIDGE REPLACEMENT ON FAYE DRIVE OVER  
FAYE CANAL  
CHATHAM CO.

SCALE: NO SCALE

NOVEMBER 2010

DATE

REVISIONS

BY

DESIGNED

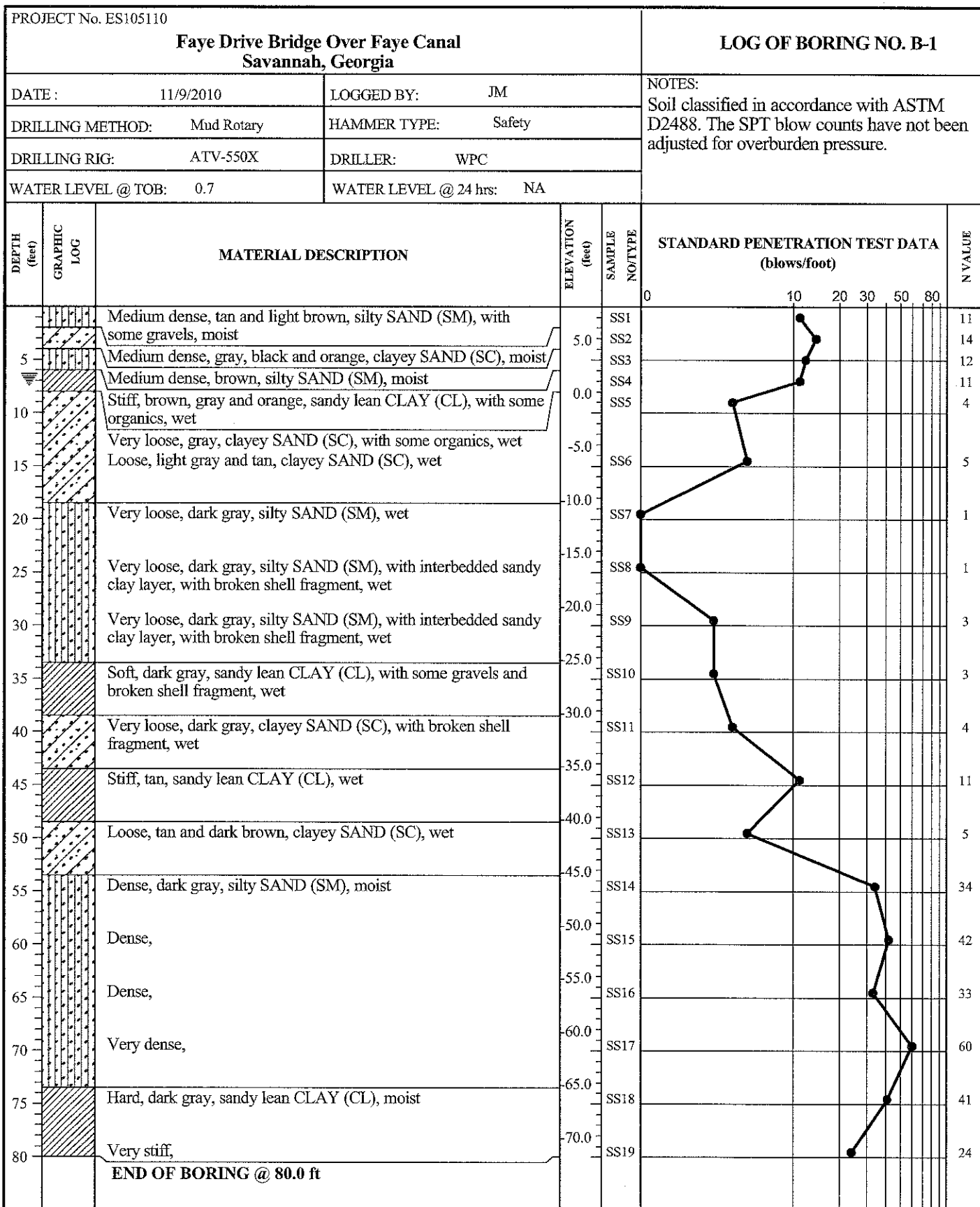
DRAWN

CHECKED

REVIEW GROUP

REVISED

APPROVED



# Terracon

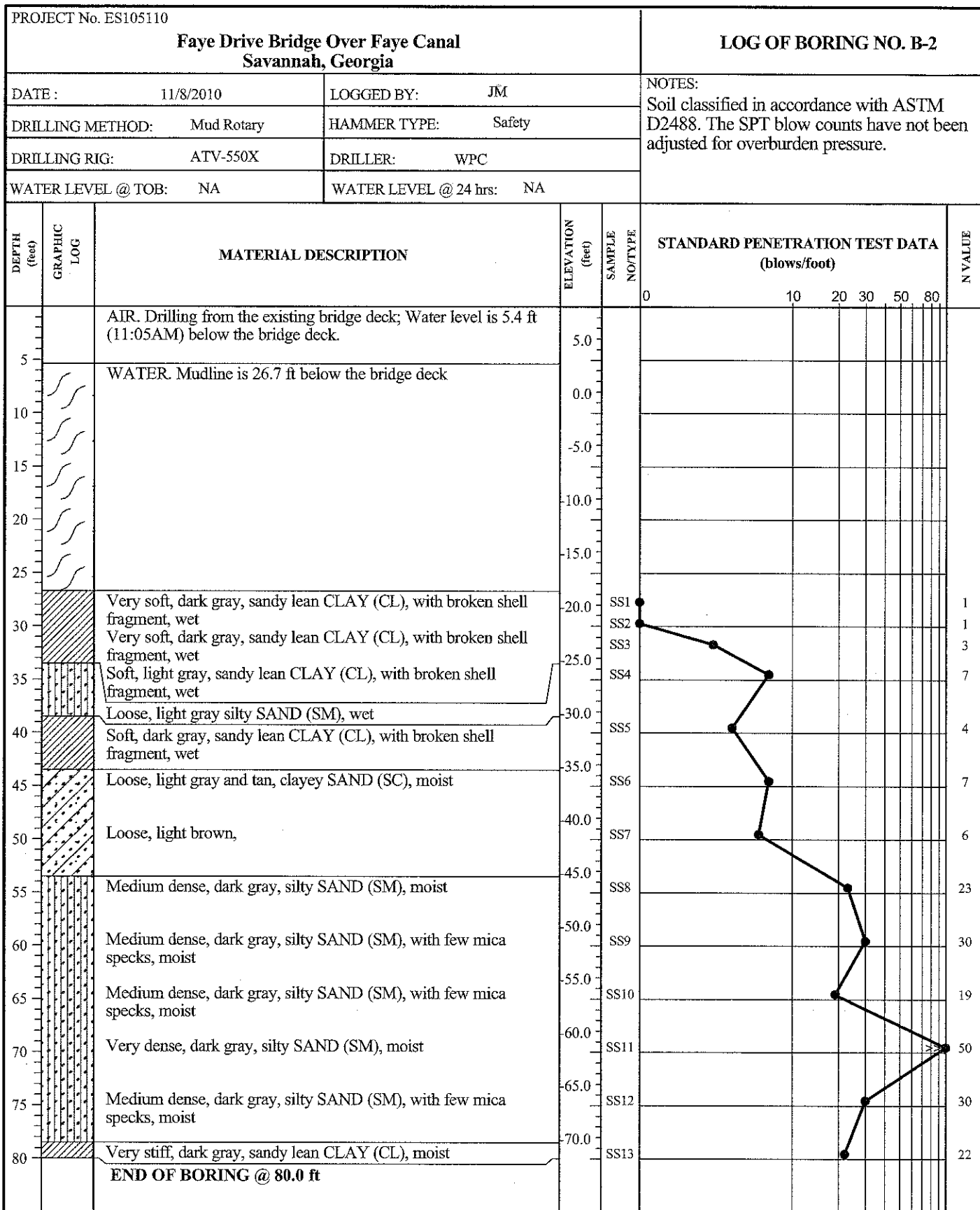


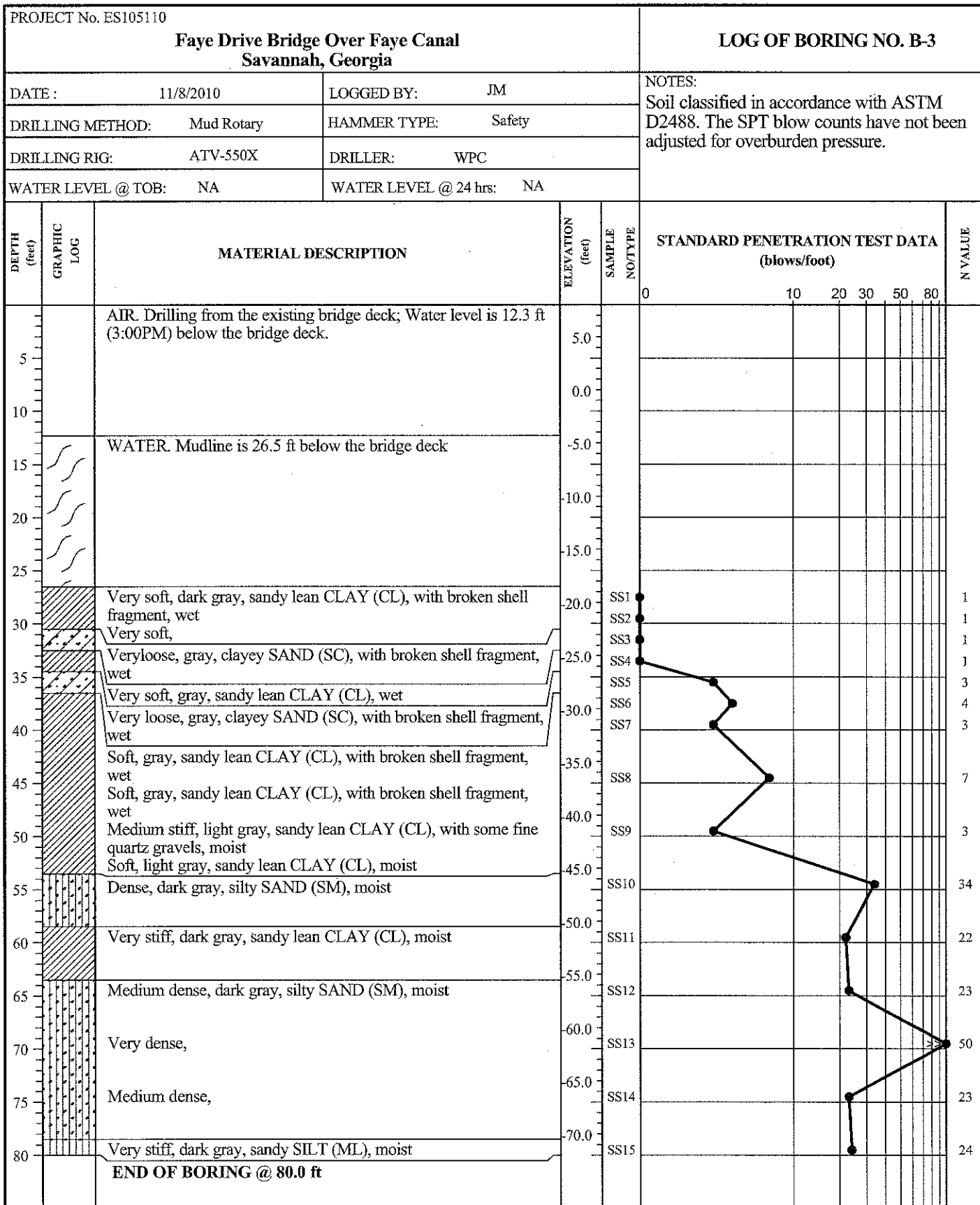
24-hrs water table



Water table at end of the boring







PROJECT No. ES105110				LOG OF BORING NO. B-4		
Faye Drive Bridge Over Faye Canal Savannah, Georgia				NOTES: Soil classified in accordance with ASTM D2488. The SPT blow counts have not been adjusted for overburden pressure.		
DATE:	11/10/2010	LOGGED BY:	JM			
DRILLING METHOD:	Mud Rotary	HAMMER TYPE:	Safety			
DRILLING RIG:	ATV-550X	DRILLER:	WPC			
WATER LEVEL @ TOB:	0.1	WATER LEVEL @ 24 hrs:	NA			
DEPTH (feet)	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION (feet)	SAMPLE NO./TYPE	STANDARD PENETRATION TEST DATA (blows/foot)	N VALUE
					0 10 20 30 50 80	
		Medium dense, brown, silty SAND (SM), moist		SS1		14
		Red brick debris	5.0	SS2		18
5		Medium dense, dark brown, silty SAND (SM), moist		SS3		13
		Medium dense, brown, silty SAND (SM), with trace organics, wet	0.0	SS4		15
10		Medium stiff, gray and brown, sandy lean CLAY (CL), with some organics, wet	-5.0	SS5		6
15		Very loose, light gray, clayey SAND (SC), wet	-10.0	SS6		1
20		Very loose, gray, silty SAND (SM), with broken shell fragment, wet	-15.0	SS7		2
25		Very soft, gray, sandy lean CLAY (CL), with some mica specks, moist	-20.0	SS8		1
30		Very loose, gray, clayey SAND (SC), with broken shell fragment, wet	-25.0	SS9		2
35		Very soft, gray, sandy lean CLAY (CL), wet	-30.0	SS10		2
40		Very soft, gray, sandy lean CLAY (CL), with broken shell fragment, wet	-35.0	SS11		2
45		Medium dense, tan and light gray, clayey SAND (SC), wet	-40.0	SS12		17
50		Medium stiff, light gray, sandy lean CLAY (CL), with trace mica specks, wet	-45.0	SS13		5
55		Dense, light gray, silty SAND (SM), with trace mica specks, wet	-50.0	SS14		35
60		Medium dense, dark gray, silty SAND (SM), moist	-55.0	SS15		25
65		Dense, dark gray, silty SAND (SM), moist	-60.0	SS16		38
70		Medium dense, dark gray, silty SAND (SM), moist	-65.0	SS17		28
75		Dense, dark gray, silty SAND (SM), moist	-70.0	SS18		32
80		Medium dense, dark gray, silty SAND (SM), moist		SS19		24
		END OF BORING @ 80.0 ft				

**Terracon**



24-hrs water table



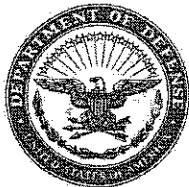
Water table at end of the boring

# **LABORATORY SOIL REPORT**

Faye Drive Bridge over Faye Canal  
Project No.: P.I. No.:

Chatham County, GA  
Terracon Project No. ES105110

Boring No.	Bent No.	OffSet	Depth (ft)	Sample Type	Date Received	Date Completed	Moisture Contents (%)	Organic Content (%)	Plastic Limit (%)	Liquid Limit (%)	Fine (%)	USCS Classification
B-1			8 - 9.5	Split Spoon	11/17/10	11/22/10	25.0				21.2	SC
B-1			63.5 - 65	Split Spoon	11/17/10	11/22/10	47.2				23.2	SM
B-2			63.5 - 65	Split Spoon	11/17/10	11/22/10	50.9				21.9	SM
B-2			78.5 - 80	Split Spoon	11/17/10	11/22/10	92.6				84.9	CL
B-3			30.5 - 32	Split Spoon	11/17/10	11/22/10	32.0				23.1	SC
B-3			58.5 - 60	Split Spoon	11/17/10	11/22/10	77.8				63.1	CL
B-4			28.5 - 30	Split Spoon	11/17/10	11/22/10	33.6				17.7	SC
B-4			58.5 - 60	Split Spoon	11/17/10	11/22/10	51.9				27.3	SM



DEPARTMENT OF THE ARMY  
SAVANNAH DISTRICT, CORPS OF ENGINEERS  
100 W. OGLETHORPE AVENUE  
SAVANNAH, GEORGIA 31401-3640

REPLY TO  
ATTENTION OF:

OCTOBER 17 2012

Regulatory Division  
SAS-2010-00128

Mr. Leon Davenport  
Chatham County Engineering Department  
Post Office Box 8161  
Savannah, Georgia 31412-8161

Dear Mr. Davenport:

I refer to the Pre-Construction Notification submitted on July 14, 2012, requesting verification for use of Nationwide Permit (NWP) No. 3 (Maintenance) for impacts to 0.028 acre of wetland associated with the rehabilitation of an existing bridge. The project is located on Hunt Drive as it extends over an unnamed tributary of the Moon River on Burnside Island, Savannah, Chatham County, Georgia (Latitude 31.9289, Longitude -81.0863). The request was submitted on your behalf by Mr. Jeffrey Williams of Sligh Environmental Consultants. This project has been assigned number SAS-2010-00128 and it is important that you refer to this number in all communication concerning this matter.

An expanded preliminary Jurisdictional Determination (JD) was completed for the site on February 19, 2010, pursuant to our March 4, 2009, Public Notice entitled, "Characterization of Jurisdictional Determinations: Purpose, Application and Documentation Requirements as Defined by the Savannah District, US Army Corps of Engineers (USACE)."

The wetlands/other waters on the subject property may be waters of the United States within the jurisdiction of Section 404 of the Clean Water Act (33 United States Code (U.S.C.) 1344) and/or Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403). The placement of dredged or fill material into any waterways and/or their adjacent wetlands or mechanized land clearing of those wetlands could require prior Department of the Army authorization pursuant to Section 404.

We have completed coordination with other federal and state agencies as described in Part C (31)(d) of our NWP Program, published in the February 12, 2012, Federal Register, Vol. 77, No. 34, Pages 10184-10290 (77 FR). The NWPs and Savannah District's Regional Conditions for NWPs can be found on our website at [http://www.sas.usace.army.mil/regulatory/Nationwide\\_Permits.html](http://www.sas.usace.army.mil/regulatory/Nationwide_Permits.html). During our coordination procedure, no adverse comments regarding the proposed work were received.

As a result of our evaluation of your project, we have determined that the proposed activity is authorized under NWP 3, as described in Part B of the NWP Program. Your use of this NWP is valid only if:

a. The activity is conducted in accordance with the information submitted and meets the conditions applicable to the NWP, as described at Part C of the NWP Program and the Savannah District's Regional Conditions for NWPs.

b. You shall obtain and comply with all appropriate federal, state, and local authorizations required for this type of activity. A stream buffer variance may be required. Variances are issued by the Director of the Georgia Environmental Protection Division (EPD), as defined in the Georgia Erosion and Sedimentation Control Act of 1975, as amended. It is our understanding that you may obtain information concerning variances at the Georgia EPD's web site at [www.gaepd.org](http://www.gaepd.org) or by contacting the Watershed Protection Branch at (404) 675-6240.

c. All work conducted under this permit shall be located, outlined, designed, constructed and operated in accordance with the minimal requirements as contained in the Georgia Erosion and Sedimentation Control Act of 1975, as amended. Utilization of plans and specifications as contained in the "Manual for Erosion and Sediment Control, First Edition, 2002," published by the Georgia Soil and Water Conservation Commission or their equivalent, will aid in achieving compliance with the aforementioned minimal requirements.

d. The permittee agrees that all personnel associated with the project will be advised that there are civil and criminal penalties for harming, harassing or killing manatees, which are protected under the Endangered Species Act of 1973 and the Marine Mammal Protection Act of 1972. The permittee and contractor will be held responsible for any manatee harmed, harassed or killed as a result of construction activities.

e. Siltation barriers will be made of material in which manatees cannot become entangled, are properly secured, and are regularly monitored to avoid manatee entrapment. Barriers must not block manatee entry to or exit from essential habitat.

f. All vessels associated with the project will operate at "no wake/idle" speeds at all times while in the construction area. All vessels will follow routes of deep water whenever possible.

g. All on-site project personnel are responsible for observing water-related activities for the presence of manatees. All construction and activities in open water will cease upon sighting of manatees within 50 feet of the project area. Construction activities will not resume until the manatees have left the project area for at least 30 minutes.

h. Extreme care will be taken in lowering equipment or materials, including, but not limited to piles, sheet piles, casings for drilled shaft construction, spuds, pile templates, anchors, etc., below the water surface and into the stream bed; taking any precaution not to harm any manatee(s) that may have entered the construction area undetected. All such equipment or materials will be lowered at the lowest possible speed.

i. The permittee agrees that any collision with a manatee shall be reported immediately to the US Army Corps of Engineers (912-652-5347), the US Fish and Wildlife Service, Ecological Services Field Office, (912-832-8739), and Georgia Department of Natural Resources (Georgia DNR) (Weekdays 8:00 a.m.-4:30 p.m.: 912-264-7218 or 1-800-272-8363; (nights and weekends: 1-800-241-4113). Any dead manatee(s) found in the project area must be secured to a stable object to prevent the carcass from being moved by the current before the authorities arrive. In the event of injury or mortality of a manatee, all aquatic activity in the project area must cease pending Section 7 consultation under the Endangered Species Act with the US Fish and Wildlife Service and the lead Federal agency.

j. The permittee agrees that the contractor shall keep a log detailing sightings, collisions, or injury to manatees, which have occurred during the contract period.

k. The permittee agrees that following project completion, a report summarizing the above incidents and sightings will be submitted to the US Fish and Wildlife Service, Ecological Services Field Office, Coastal Georgia Sub-Office, 4980 Wildlife Drive Northeast, Townsend, Georgia 31331.

l. All temporary construction materials will be removed upon completion of the work, and disturbed upland areas will be stabilized. No construction debris or trash will be discarded in the water.

m. The permittee shall regularly maintain all hoses, faucets, and/or freshwater discharges to prevent freshwater leakage into manatee habitat. This minimizes attraction of manatees to the marina where boats are concentrated and a potential for increased boat/manatee collisions exists. Oil and sewage spill contingency plans should be in place for the marina to protect manatees.

n. The permittee shall identify a person who will be the contact for reporting manatee sightings, boat strikes or other manatee concerns with the US Fish and Wildlife Service and Georgia DNR.

o. You fill out and sign the enclosed certification and return it to our office within 30 days of completion of the activity authorized by this permit.

This proposal was reviewed and coordinated with the US Fish and Wildlife Service in accordance with Section 7 of the Endangered Species Act. The US Fish and Wildlife Service provided a statement on October 9, 2012, requesting the inclusion of standard manatee conditions within the NWP authorization. With the inclusion of these conditions, USFWS concurs with the USACE determination that the project may effect, but is not likely to adversely effect the West Indian manatee. Authorization of an activity by a NWP does not authorize the "take" of threatened or endangered species. In the absence of separate authorization, both lethal and non-lethal "takes" of protected species are in violation of the Endangered Species Act. See Part (C) of 77 FR for more information.

This verification is valid for a period of two years from the date of this letter, or until the NWP is modified, reissued or revoked. All of the existing NWPs are scheduled to expire on March 18, 2017. It is incumbent upon you to remain informed of changes to the NWPs. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have twelve (12) months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP.

This authorization should not be construed to mean that any future projects requiring Department of the Army authorization would necessarily be authorized. Any new proposal, whether associated with this project or not, would be evaluated on a case-by-case basis. Any prior approvals would not be a determining factor in making a decision on any future request.

Revisions to your proposal may invalidate this authorization. In the event changes to this project are contemplated, I recommend that you coordinate with us prior to proceeding with the work.

This communication does not relieve you of any obligation or responsibility for complying with the provisions of any other laws or regulations of other federal, state or local authorities. It does not affect your liability for any damages or claims that may arise as a result of the work. It does not convey any property rights, either in real estate or material, or any exclusive privileges. It also does not affect your liability for any interference with existing or proposed federal projects. If the information you have submitted and on which the USACE bases its determination/ decision of authorization under the NWP is later found to be in error, this determination may be subject to modification, suspension, or revocation.

A copy of this letter is being provided to the following party: Mr. Jeffrey Williams, Sligh Environmental Consulting, 31 Park of Commerce Way, Suite 2008, Savannah, Georgia 31405.

Thank you in advance for completing our Customer Survey Form. This can be accomplished by visiting our website at <http://per2.nwp.usace.army.mil/survey.html> and completing the survey



on-line. We value your comments and appreciate your taking the time to complete a survey each time you have interaction with our office.

If you have any questions, please feel free to contact me at 912-652-5349.

Sincerely,

A handwritten signature in dark ink, appearing to read "K. Brian Moore". The signature is fluid and cursive, with the first name "K." and last name "Moore" clearly distinguishable.

K. Brian Moore

Regulatory Specialist, Coastal Branch

Enclosures

CERTIFICATION OF COMPLIANCE  
WITH  
DEPARTMENT OF THE ARMY  
NWP 3

PERMIT FILE NUMBER: SAS-2010-00128

PERMITTEE ADDRESS: Mr. Leon Davenport  
Chatham County Engineering Department  
Post Office Box 8161  
Savannah, Georgia 31412-8161

LOCATION OF WORK: The project is located on Hunt Drive as it extends over an unnamed tributary of the Moon River on Burnside Island, Savannah, Chatham County, Georgia (Latitude 31.9289, Longitude -81.0863).

PROJECT DESCRIPTION: To construct improvements to Hunt Drive including replacement of an existing bridge, widening of existing travel lanes and the addition of a pedestrian sidewalk. The project involves impacts to 0.028 acre of wetland associated with the rehabilitation of the existing bridge.

ACRES AND/OR LINEAR FEET OF WATERS OF THE US IMPACTED: 0.028 acre

DATE WORK IN WATERS OF US COMPLETED: \_\_\_\_\_

COMPENSATORY MITIGATION REQUIRED: n/a

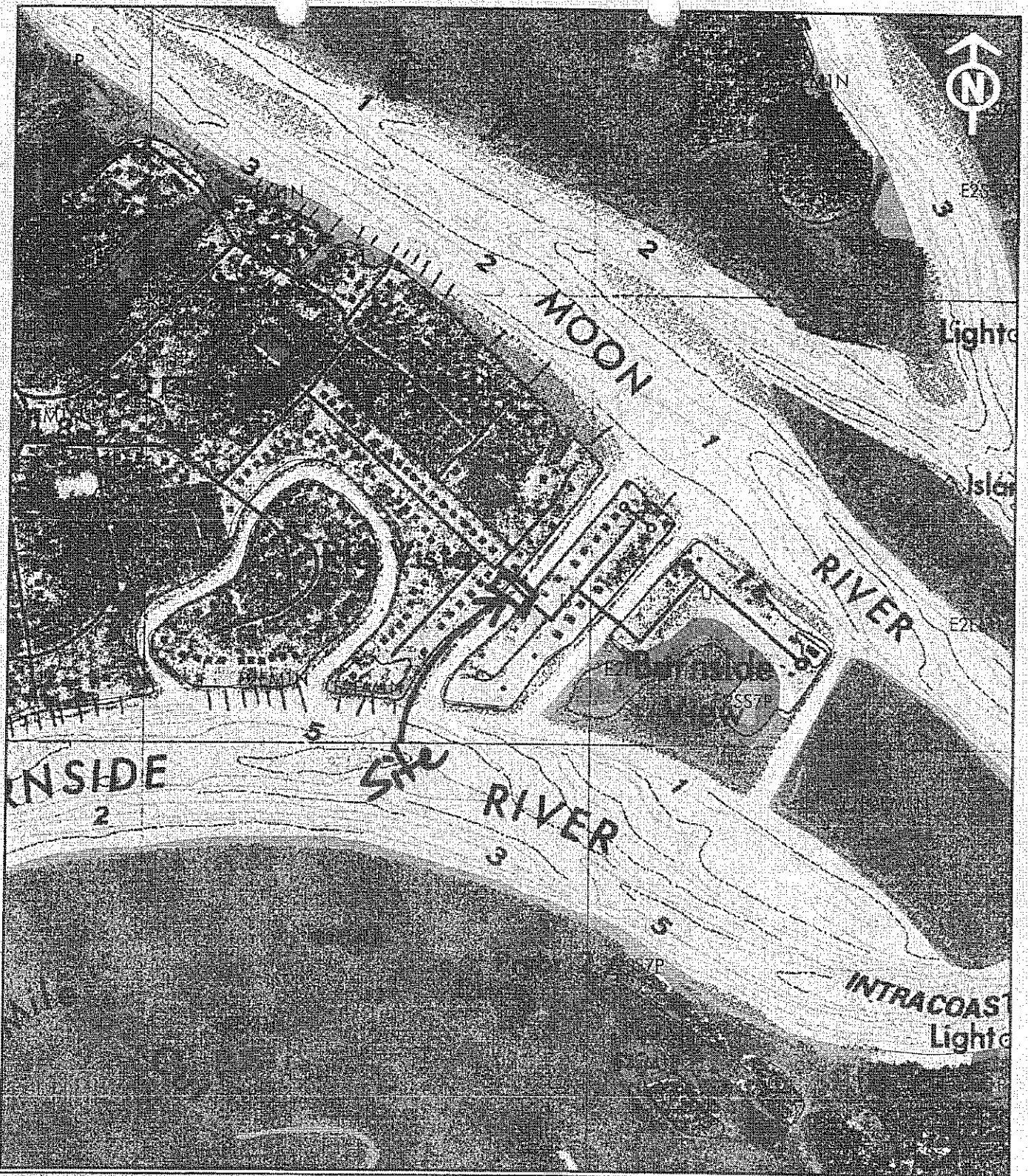
DATE MITIGATION COMPLETED OR PURCHASED (include name of bank): n/a

I understand that the permitted activity is subject to a US Army Corps of Engineers' Compliance Inspection. If I fail to comply with the permit conditions at Part C of the Nationwide Permit Program, published in the February 12, 2012, Federal Register, Vol. 77, No.34, Pages 10184-10290, it may be subject to suspension, modification or revocation.

I hereby certify that the work authorized by the above referenced permit as well as any required mitigation (if applicable) has been completed in accordance with the terms and conditions of the said permit.

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date



Approximate Project Limits

**sligh** environmental consultants, inc.  
 31 Park of Commerce Way, Suite 200B  
 Savannah, Georgia 31405  
 phone (912) 232-0451  
 fax (912) 232-0453

**HUNT DRIVE BRIDGE PROJECT**  
 Chatham County, Georgia  
 National Wetland Inventory  
 Isle of Hope Quadrangle

1,000  
 Feet

Exhibit Date: January 26, 2010

Drawn By: JFW

Reviewed By: BWW

Job Number: 01-07-072





DEPARTMENT OF THE ARMY  
SAVANNAH DISTRICT, CORPS OF ENGINEERS  
100 W. OGLETHORPE AVENUE  
SAVANNAH, GEORGIA 31401-3540

REPLY TO  
ATTENTION OF:

OCTOBER 17 2012

RECEIVED  
COUNTY ENGINEERING

Regulatory Division  
SAS-2010-00127

OCT 18 2012

Mr. Leon Davenport  
Chatham County Engineering Department  
Post Office Box 8161  
Savannah, Georgia 31412-8161

ASB 1  
FY 2  
HP 2  
EC  
CR  
DH  
EC  
ND  
WD  
PB  
EA  
LD  
WJ  
KH

Dear Mr. Davenport:

I refer to the Pre-Construction Notification submitted on July 14, 2012, requesting verification for use of Nationwide Permit (NWP) No. 3 (Maintenance) for impacts to 0.01 acre of wetland associated with the rehabilitation of an existing bridge. The project is located on Paye Drive as it extends over an unnamed tributary of the Moon River on Burnside Island, Savannah, Chatham County, Georgia (Latitude 31.9283, Longitude -81.0840). The request was submitted on your behalf by Mr. Jeffrey Williams of Sligh Environmental Consultants. This project has been assigned number SAS-2010-00127 and it is important that you refer to this number in all communication concerning this matter.

An expanded preliminary Jurisdictional Determination (JD) was completed for the site on February 19, 2010, pursuant to our March 4, 2009, Public Notice entitled, "Characterization of Jurisdictional Determinations: Purpose, Application and Documentation Requirements as Defined by the Savannah District, US Army Corps of Engineers (USACE)."

The wetlands/other waters on the subject property may be waters of the United States within the jurisdiction of Section 404 of the Clean Water Act (33 United States Code (U.S.C.) 1344) and/or Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403). The placement of dredged or fill material into any waterways and/or their adjacent wetlands or mechanized land clearing of those wetlands could require prior Department of the Army authorization pursuant to Section 404.

We have completed coordination with other federal and state agencies as described in Part C (31)(d) of our NWP Program, published in the February 12, 2012, Federal Register, Vol. 77, No. 34, Pages 10184-10290 (77 FR). The NWPs and Savannah District's Regional Conditions for NWPs can be found on our website at [http://www.sas.usace.army.mil/regulatory/Nationwide\\_Permits.html](http://www.sas.usace.army.mil/regulatory/Nationwide_Permits.html). During our coordination procedure, no adverse comments regarding the proposed work were received.

As a result of our evaluation of your project, we have determined that the proposed activity is authorized under NWP 3, as described in Part B of the NWP Program. Your use of this NWP is valid only if:

- a. The activity is conducted in accordance with the information submitted and meets the conditions applicable to the NWP, as described at Part C of the NWP Program and the Savannah District's Regional Conditions for NWPs.
- b. You shall obtain and comply with all appropriate federal, state, and local authorizations required for this type of activity. A stream buffer variance may be required. Variances are issued by the Director of the Georgia Environmental Protection Division (EPD), as defined in the Georgia Erosion and Sedimentation Control Act of 1975, as amended. It is our understanding that you may obtain information concerning variances at the Georgia EPD's web site at [www.gaepd.org](http://www.gaepd.org) or by contacting the Watershed Protection Branch at (404) 675-6240.
- c. All work conducted under this permit shall be located, outlined, designed, constructed and operated in accordance with the minimal requirements as contained in the Georgia Erosion and Sedimentation Control Act of 1975, as amended. Utilization of plans and specifications as contained in the "Manual for Erosion and Sediment Control, First Edition, 2002," published by the Georgia Soil and Water Conservation Commission or their equivalent, will aid in achieving compliance with the aforementioned minimal requirements.
- d. The permittee agrees that all personnel associated with the project will be advised that there are civil and criminal penalties for harming, harassing or killing manatees, which are protected under the Endangered Species Act of 1973 and the Marine Mammal Protection Act of 1972. The permittee and contractor will be held responsible for any manatee harmed, harassed or killed as a result of construction activities.
- e. Siltation barriers will be made of material in which manatees cannot become entangled, are properly secured, and are regularly monitored to avoid manatee entrapment. Barriers must not block manatee entry to or exit from essential habitat.
- f. All vessels associated with the project will operate at "no wake/idle" speeds at all times while in the construction area. All vessels will follow routes of deep water whenever possible.
- g. All on-site project personnel are responsible for observing water-related activities for the presence of manatees. All construction and activities in open water will cease upon sighting of manatees within 50 feet of the project area. Construction activities will not resume until the manatees have left the project area for at least 30 minutes.



h. Extreme care will be taken in lowering equipment or materials, including, but not limited to piles, sheet piles, casings for drilled shaft construction, spuds, pile templates, anchors, etc., below the water surface and into the stream bed; taking any precaution not to harm any manatee(s) that may have entered the construction area undetected. All such equipment or materials will be lowered at the lowest possible speed.

i. The permittee agrees that any collision with a manatee shall be reported immediately to the US Army Corps of Engineers (912-652-5347), the US Fish and Wildlife Service, Ecological Services Field Office, (912-832-8739), and Georgia Department of Natural Resources (Georgia DNR) (Weekdays 8:00 a.m.-4:30 p.m.: 912-264-7218 or 1-800-272-8363; (nights and weekends: 1-800-241-4113). Any dead manatee(s) found in the project area must be secured to a stable object to prevent the carcass from being moved by the current before the authorities arrive. In the event of injury or mortality of a manatee, all aquatic activity in the project area must cease pending Section 7 consultation under the Endangered Species Act with the US Fish and Wildlife Service and the lead Federal agency.

j. The permittee agrees that the contractor shall keep a log detailing sightings, collisions, or injury to manatees, which have occurred during the contract period.

k. The permittee agrees that following project completion, a report summarizing the above incidents and sightings will be submitted to the US Fish and Wildlife Service, Ecological Services Field Office, Coastal Georgia Sub-Office, 4980 Wildlife Drive Northeast, Townsend, Georgia 31331.

l. All temporary construction materials will be removed upon completion of the work, and disturbed upland areas will be stabilized. No construction debris or trash will be discarded in the water.

m. The permittee shall regularly maintain all hoses, faucets, and/or freshwater discharges to prevent freshwater leakage into manatee habitat. This minimizes attraction of manatees to the marina where boats are concentrated and a potential for increased boat/manatee collisions exists. Oil and sewage spill contingency plans should be in place for the marina to protect manatees.

n. The permittee shall identify a person who will be the contact for reporting manatee sightings, boat strikes or other manatee concerns with the US Fish and Wildlife Service and Georgia DNR.

o. You fill out and sign the enclosed certification and return it to our office within 30 days of completion of the activity authorized by this permit.

This proposal was reviewed and coordinated with the US Fish and Wildlife Service in accordance with Section 7 of the Endangered Species Act. The US Fish and Wildlife Service provided a statement on October 9, 2012, requesting the inclusion of standard manatee conditions within the NWP authorization. With the inclusion of these conditions USFWS concurs with the USACE determination that the project may effect, but is not likely to adversely effect the West Indian manatee. Authorization of an activity by a NWP does not authorize the "take" of threatened or endangered species. In the absence of separate authorization, both lethal and non-lethal "takes" of protected species are in violation of the Endangered Species Act. See Part (C) of 77 FR for more information.

This verification is valid for a period of two years from the date of this letter, or until the NWP is modified, reissued or revoked. All of the existing NWPs are scheduled to expire on March 18, 2017. It is incumbent upon you to remain informed of changes to the NWPs. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have twelve (12) months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP.

This authorization should not be construed to mean that any future projects requiring Department of the Army authorization would necessarily be authorized. Any new proposal, whether associated with this project or not, would be evaluated on a case-by-case basis. Any prior approvals would not be a determining factor in making a decision on any future request.

Revisions to your proposal may invalidate this authorization. In the event changes to this project are contemplated, I recommend that you coordinate with us prior to proceeding with the work.

This communication does not relieve you of any obligation or responsibility for complying with the provisions of any other laws or regulations of other federal, state or local authorities. It does not affect your liability for any damages or claims that may arise as a result of the work. It does not convey any property rights, either in real estate or material, or any exclusive privileges. It also does not affect your liability for any interference with existing or proposed federal projects. If the information you have submitted and on which the USACE bases its determination/ decision of authorization under the NWP is later found to be in error, this determination may be subject to modification, suspension, or revocation.

A copy of this letter is being provided to the following party: Mr. Jeffrey Williams, Sligh Environmental Consulting, 31 Park of Commerce Way, Suite 2008, Savannah, Georgia 31405.

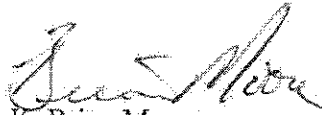
Thank you in advance for completing our Customer Survey Form. This can be accomplished by visiting our website at <http://per2.nwp.usace.army.mil/survey.html> and completing the survey



on-line. We value your comments and appreciate your taking the time to complete a survey each time you have interaction with our office.

If you have any questions, please feel free to contact me at 912-652-5349.

Sincerely,

A handwritten signature in dark ink, appearing to read "K. Brian Moore". The signature is fluid and cursive, with the first name "K. Brian" and the last name "Moore" clearly distinguishable.

K. Brian Moore  
Regulatory Specialist, Coastal Branch

Enclosures

CERTIFICATION OF COMPLIANCE  
WITH  
DEPARTMENT OF THE ARMY  
NWP 3

PERMIT FILE NUMBER: SAS-2010-00127

PERMITTEE ADDRESS: Mr. Leon Davenport  
Chatham County Engineering Department  
Post Office Box 8161  
Savannah, Georgia 31412-8161

LOCATION OF WORK: The project is located on Faye Drive as it extends over an unnamed tributary of the Moon River on Burnside Island, Savannah, Chatham County, Georgia (Latitude 31.9283, Longitude -81.0840).

PROJECT DESCRIPTION: To construct improvements to Faye Drive including replacement of an existing bridge, widening of existing travel lanes and the addition of a pedestrian sidewalk. The project involves impacts to 0.01 acre of wetland associated with the rehabilitation of the existing bridge.

ACRES AND/OR LINEAR FEET OF WATERS OF THE US IMPACTED: 0.01 acre

DATE WORK IN WATERS OF US COMPLETED: \_\_\_\_\_

COMPENSATORY MITIGATION REQUIRED: n/a

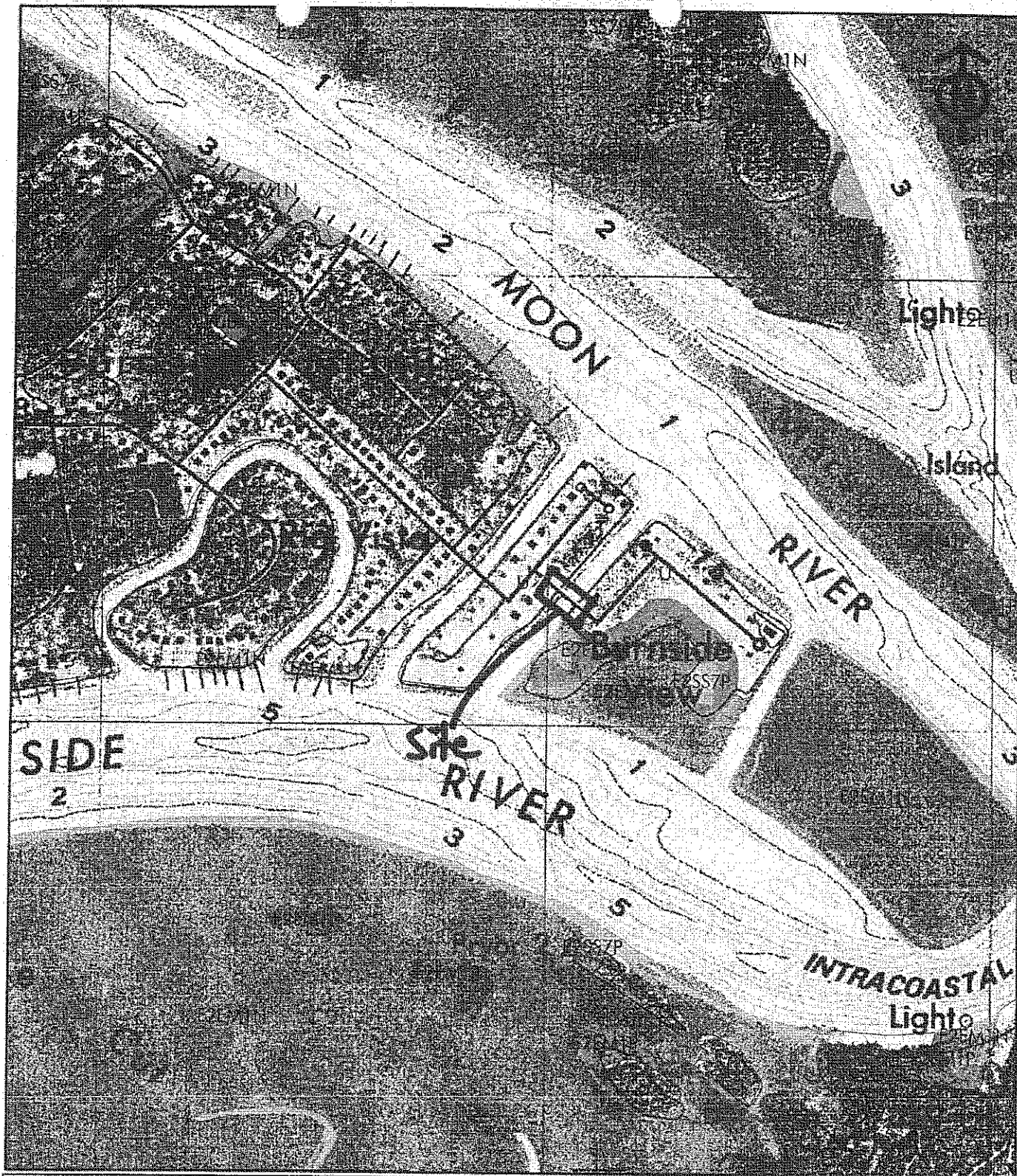
DATE MITIGATION COMPLETED OR PURCHASED (include name of bank): n/a

I understand that the permitted activity is subject to a US Army Corps of Engineers' Compliance Inspection. If I fail to comply with the permit conditions at Part C of the Nationwide Permit Program, published in the February 12, 2012, Federal Register, Vol. 77, No.34, Pages 10184-10290, it may be subject to suspension, modification or revocation.

I hereby certify that the work authorized by the above referenced permit as well as any required mitigation (if applicable) has been completed in accordance with the terms and conditions of the said permit.

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date



Approximate Project Limits

**sligh** environmental consultants, inc.  
31 Park of Commerce Way, Suite 200B  
Savannah, Georgia 31405  
phone (912) 232-0451  
fax (912) 232-0453

**FAYE DRIVE BRIDGE PROJECT**  
Chatham County, Georgia  
National Wetland Inventory  
Isle of Hope Quadrangle

1,000

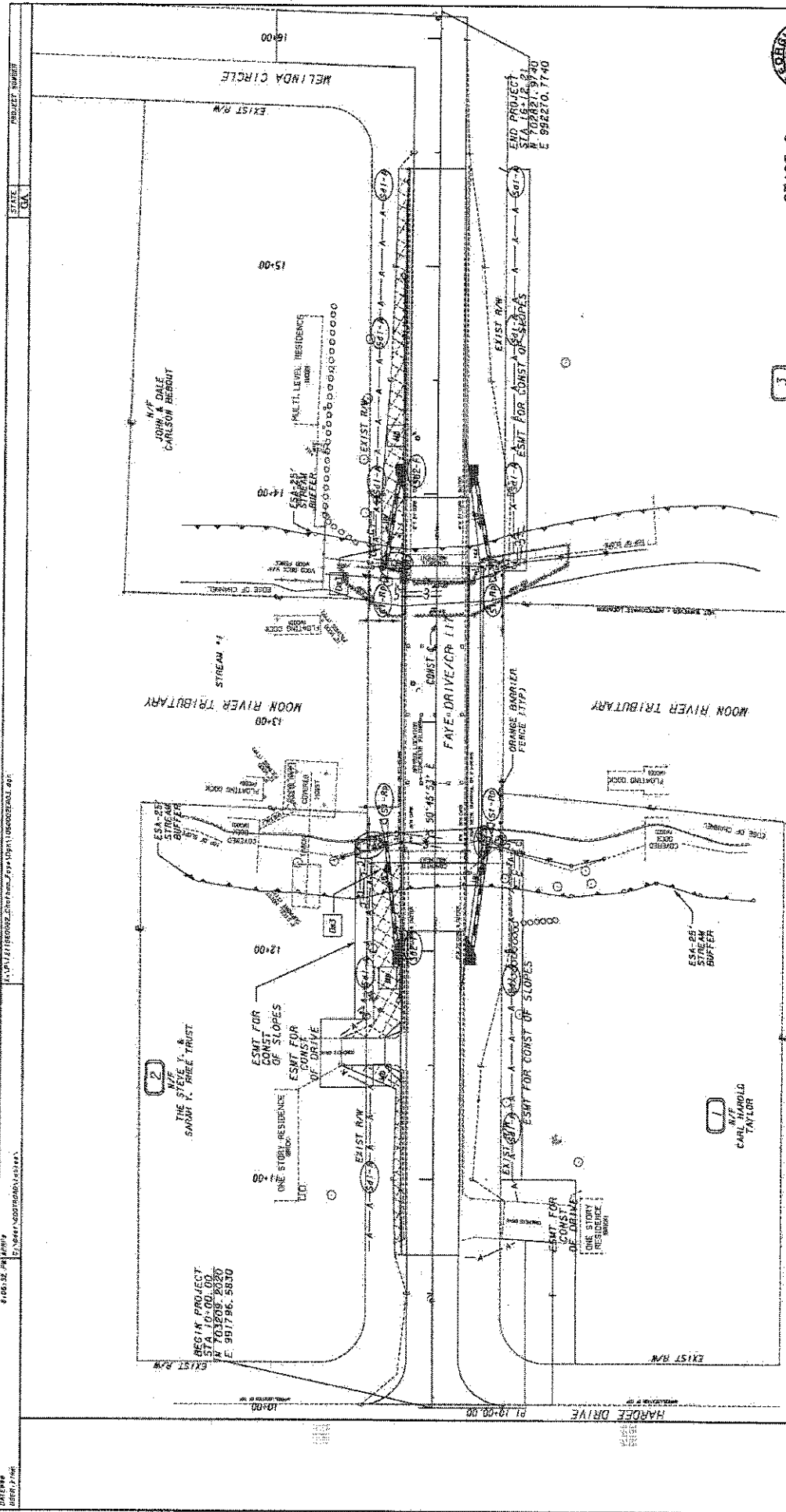
Feet

Exhibit Date: January 26, 2010

Drawn By: JPW

Reviewed By: BWV

Job Number: 01-07-072



## STAGE 2

3  
NAF  
C. L. & MARG  
JAN 10

GSWCC LEVEL 11  
CERTIFICATION # 0000058067

CHATHAM COUNTY  
DEPARTMENT OF ENGINEERING  
BMP LOCATION DETAILS

FAYE DRIVE BRIDGE REPLACEMENT  
OVER MOON RIVER TRIBUTARY



**MS-W.**  
IMPROVING YOUR WORLD  
130 PEACHTREE STREET, SUITE 430  
ATLANTA, GA 30309-1236  
678-620-7200 (TEL) 404-947-0622 (FAX)

BEGIN LIMIT OF ACCESS: ..... BLA  
END LIMIT OF ACCESS: ..... ELA  
LIMIT OF ACCESS  
REQ'D ROW & LIMIT OF ACCESS: .....  
SCALE IN FEET

PROPERTY AND EXISTING ROW LINE  
REQUIRED ROW LINE  
CONSTRUCTION LIMITS  
EASEMENT FOR CONSTR  
& MAINTENANCE OF SLOPES  
EASEMENT FOR CONSTR OF SLOPES  
EASEMENT FOR CONSTR OF DRAVES  
EASEMENT FOR CONSTR OF DRAVES



MARK WILLIAMS  
COMMISSIONER

A.G. 'SPUD' WOODWARD  
DIRECTOR

JUN - 4 2012

Mr. Jeff Williams  
Sligh Environmental Consultants  
31 Park of Commerce Way, Suite 200B  
Savannah, GA 31405

**RE: Coastal Marshlands Protection Act Permit # 662, Chatham County Government,  
Hunt Drive Bridge Replacement Burnside Island, Moon River, Chatham County.**

Dear Mr. Williams:

The Coastal Marshlands Protection Committee considered and approved permit #662 referenced above under the Coastal Marshlands Protection Act O.C.G.A. 12-5-280 *et seq.* The permit and permit conditions are attached to this letter. All decision documents, as well as all other plans, documents and materials submitted during the application process become terms of this permit and are now enforceable conditions.

Staff of the Coastal Management Program has reviewed the above referenced application pursuant to Section 404 of the Clean Water Act and/or Section 10 of the River and Harbors Act or 1899 for consistency with the Georgia Coastal Management Program (GCMP). The Program concurs with the applicant's consistency certification to the extent that the project adheres to all conditions and restrictions of Coastal Marshlands Protection Act Permit #662. Issuance of a federal permit that does not contain the same conditions and/or restriction, as any issued state permit, does not alleviate the permittee from adhering to all components of state permits.

This letter and attachments are to be held by you for your files and for inspection by any authorized persons. The expiration date for the permit is five (5) years from the date of issuance. However, no construction may commence within the area of jurisdiction of the Act until the expiration of thirty (30) days following the date of issuance, provided there is no legal appeal of this permit, you have all other necessary federal, state and local authorizations and you have met all of the standard and special conditions as required by this permit.

Permitted Project Description:

Replace the existing Hunt Bridge over a tributary of the Moon River on Burnside Island, Chatham County, Georgia. Total new impact to jurisdictional coastal marshlands is 2,656 sq. ft. (0.06 acre). **Standard and Special conditions apply to this permit.**

JUN - 4 2012

Marsh Component:

The bridge will be approximately 39' wide by 120.4' long (4,725 sq. ft.), approximately 348 sq. ft. (0.008 acre) of rip rap will be installed to stabilize the slopes of the three stormwater outfalls located adjacent to the bridge and approximately 15' of tidally influenced ditch, 653 sq. ft. (0.015 acre), will be piped with 18" re-enforced concrete pipe (RCP).

Permit Placard:

Enclosed is the permit placard to be posted at the work site (within 24 hours) for the duration of the construction activity.

Post Construction Requirements: Compliance Certification and File Maintenance

Also enclosed is a *Certification of Compliance* that must be submitted to us within 30 days following completion of the permitted activity. Please include this compliance form with the post-construction survey, if required under the special conditions. Department staff will assess compliance and provide you with a written verification of project completion and compliance.

Conveyance of Ownership Interest:

If you as the permit holder sell, lease, rent, or otherwise convey the land or any portion of the land for which the permit was issued, you must notify the Department within 30 days of this transfer or conveyance. The permit shall continue in force in favor of the new owner, lessee, tenant, or other assignee so long as there is no change in the use of the land as set forth in the original application. The Department will transfer the permit to the new owner with all of the original terms and conditions.

We ask that you carefully read through this document and attachments and comply with the terms and conditions of this permit. Feel free to contact me if you need clarification of any of these conditions or for assistance with this project.

Sincerely,

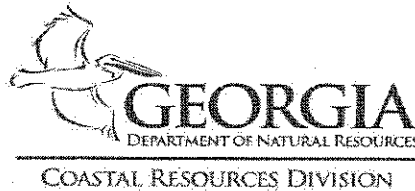


Brad Gane  
Chief  
Ecological Services Section

Enclosures: CMPC Permit #662 and Permit Conditions, Compliance Certificate, Permit Placard, Drawings

cc: Mr. Brian Moore, SAS2010-00128  
Savannah District Corps of Engineers  
PO Box 889  
Savannah, GA 3140

File # (022510.1243pm\_CMPA#662)



MARK WILLIAMS  
COMMISSIONER

A.G. 'SPUD' WOODWARD  
DIRECTOR

**Coastal Marshlands Protection Committee Permit #662**  
**Final Conditions**  
**May 30, 2012**

**Chatham County Government**  
**Hunt Drive Bridge Replacement**  
**Burnside Island, Moon River, Chatham County, Georgia**

**Project Description:** Replace the existing Hunt Drive Bridge over a tributary of the Moon River on Burnside Island, Chatham County, Georgia. Total new impact to jurisdictional coastal marshlands is 2,656 sq. ft. (0.06 acre). **Standard and Special conditions apply to this permit.**

**Marsh Component:**

The bridge will be approximately 39' wide by 120.4' long (4,725 sq. ft.), approximately 348 sq. ft. (0.008 acre) of rip rap will be installed to stabilize the slopes of the three stormwater outfalls located adjacent to the bridge and approximately 15' of tidally influenced ditch, 653 sq. ft. (0.015 acre), will be piped with 18" re-enforced concrete pipe (RCP).

**COASTAL MARSHLANDS PROTECTION ACT STANDARD CONDITIONS**

1. The project must comply, as applicable, for areas permitted herein, with all other federal, state, and local statutes, ordinances, and regulations and the applicant must obtain all licenses and permits prior to commencement of construction.
2. This permit does not resolve actual or potential disputes regarding ownership of, rights in or over the property upon which the subject project is proposed, and shall not be construed as recognizing or denying any such rights or interests.
3. All plans, documents and materials contained in this permit application, required by Coastal Marshlands Protection Act of 1970, as amended O.C.G.A. § 12-5-280 *et seq.* are a part of this permit and conformance to such plans, documents, and materials are a condition of this permit. No change or deviation from these plans, documents, and materials shall be permitted without prior notification and approval by the Department or CMPC.
4. No further encroachment or construction shall take place within state jurisdiction, except as permitted by the CMPC. Any modification of the plans or structure in the jurisdictional area must be reviewed and approved by the Department or the CMPC, as necessary, prior to construction.
5. No construction or alteration of a project may commence until the expiration of 30 days following the date on which the application is approved; provided however that if a timely appeal is filed, no construction or alteration may commence until all administrative and judicial proceedings are terminated.



6. The permit must be posted onsite within twenty-four (24) hours of beginning construction.
7. A copy of these and all permit conditions must be supplied to the person in charge of construction. All contractors and subcontractors are responsible for strict adherence to all permit conditions.
8. All Best Management Practices (BMPs) should be used to prevent any erosion and sedimentation at the site. No equipment, materials, or debris may be placed in, disposed of, or stored in jurisdictional areas. Any visible alterations in the marsh topography will be restored immediately using low-impact hand tools. Any damage to the marsh vegetation that has not recovered naturally during the next growing season will be repaired by a method acceptable to the Department.
9. If the permitted improvements are damaged, fall into disrepair, become dilapidated, or are not meeting their expected usefulness and are not maintained at a serviceable level, it is the responsibility of the owner to remove the improvements. A new permit will be required to retain and repair the structure, improvement, or asset if it loses its structural integrity and is no longer serviceable.
10. The CMPC is not bound in the future to protect any improvement or asset authorized by the permit.

### **SPECIAL CONDITIONS**

1. Should unreasonable damage to the marsh surface occur, preexisting surface elevations shall be restored using hand tools. Such restoration must be coordinated with the Department prior to restoration work being conducted.
2. There shall be no disposal of excavated sediments in coastal marshlands.
3. Siltation screens shall be placed where disposal of material will occur to hold placed material and to prevent fill of coastal marshlands.
4. Construction activities shall be performed using best management practices (BMPs) to comply with the Georgia Erosion & Sedimentation Act, O.C.G.A. §12-7-1 *et seq.*
5. Permittee may be required to provide a post-construction survey to the Georgia Department of Natural Resources, Coastal Resources Division upon completion of the permitted activity. Such survey shall comply with the Georgia Plat Act O.C.G.A. 15-6-67 *et seq.*



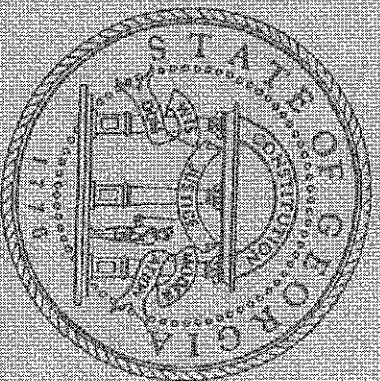
# Georgia Coastal Marshlands Protection Committee

## PERMIT

Issued Pursuant to O.C.G.A. 12-5-280

To: Chatham County Government

For: Replace the existing Hunt Drive Bridge over a tributary of the Moon River on Burnside Island, Chatham County, Georgia. Total new impact to jurisdictional coastal marshlands is 2,656 sq. ft. (0.06 acre). Standard and Special conditions apply to this permit.



Date:

May 30, 2012

Expiration Date: May 30, 2017

Permit Number: 662

Authorized By:

*P. B. Grant*

For further information, please contact the DNR Coastal Resources Division at (912) 264-7218

GEORGIA

DEPARTMENT OF NATURAL RESOURCES

STATE OF GEORGIA  
REVOCABLE LICENSE REQUEST  
In Association with a DNR Permitted Project

APPLICANTS NAME(S): Chatham County Department of Engineering - Mr. A.G. Bungard, P.E. / County Engineer

MAILING ADDRESS: P.O. Box 8161 Savannah Georgia 31412  
(Street) (City) (State) (Zip)

PROJECT ADDRESS/LOCATION: Hunt Drive, Burnside Island, Chatham County, Georgia

COUNTY: Chatham WATERWAY: Tributary of the Moon River & Burnside River DATE: January 24, 2012

LOT, BLOCK & SUBDIVISION NAME FROM DEED: \_\_\_\_\_

A. G. "Spud" Woodward, DIRECTOR  
Georgia Department of Natural Resources  
Coastal Resources Division  
One Conservation Way  
Brunswick, Georgia 31520-8687

GA DNR / HMP

FEB 3 2012

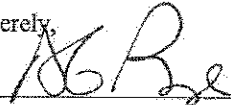
Dear Mr. Woodward:

I am making application for a permit with the U.S. Department of the Army, Corps of Engineers, Savannah District. I understand that the issuance of such a permit will not relieve me of the obligation to obtain authorization from the State of Georgia since the proposed project would constitute an encroachment on the beds of tidewaters which are State-owned property. Accordingly, I hereby request that I be granted a revocable license from the State of Georgia. Attached hereto and made a part of this request is a copy of the plans and description of the project which will be the subject of such a license. I certify that all information submitted is true and correct to the best of my knowledge and understand that the willful misrepresentation or falsification is punishable by law.

I understand that if permission from the State is granted, it will be a revocable license and will not constitute a license coupled with an interest. I acknowledge that this revocable license does not resolve any actual or potential disputes regarding the ownership of, or rights in, or over the property upon which the subject project is proposed, and shall not be construed as recognizing or denying any such rights or interests. I acknowledge that such a license would relate only to the property interests of the State and would not obviate the necessity of obtaining any other State license, permit or authorization required by State law. I further recognize that I will have no liveaboards, nor allow them to occur, at this structure. I recognize that I waive my right of expectation of privacy and I do not have the permission of the State of Georgia to proceed with such project until the Commissioner of the DNR has signed a copy of this request.

Sincerely,

By: \_\_\_\_\_



1/25/2012

A.G. Bungard, P.E., County Engineer

By: \_\_\_\_\_

(Applicant), title if applicable

Attachment

\*\*\*\*\*

The State of Georgia hereby grants you a revocable license not coupled with an interest as provided in your request. This area may now or in the future be utilized by boats employing power drawn nets under the provisions for commercial or sport bait shrimping. In its occupancy and use of the premises, licensee shall not discriminate against any person on the basis of race, gender, color, national origin, religion, age, or disability. This covenant by licensee may be enforced by termination of this license, by injunction, and by any other remedy available at law to the Department. The project proposed for this license must be completed within 5 years of the date of issuance of the license and must be maintained in serviceable condition. Otherwise, action will be initiated to revoke the license and all structures must be removed immediately at the licensee's expense.

STATE OF GEORGIA  
Office of the Governor

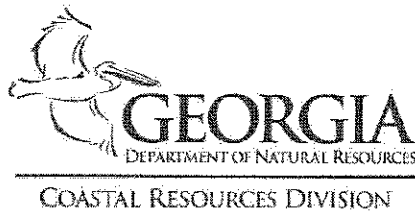
By: \_\_\_\_\_



For: Mark Williams, Commissioner-DNR

DATE: \_\_\_\_\_

MAY 3 0 2012



MARK WILLIAMS  
COMMISSIONER

A.G. 'SPUD' WOODWARD  
DIRECTOR

CERTIFICATION OF COMPLIANCE  
FOR THE CONSTRUCTION AND MAINTENANCE  
OF PROJECTS PERMITTED UNDER  
THE COASTAL MARSHLAND PROTECTION ACT

PERMITTEE:

Name: Chatham County Government  
City or Town: Hunt Drive, Burnside Island  
Island or Waterway: Tributary to Moon River  
County: Chatham County  
Permit Number: 662

Within 30 days of completion of the activity authorized by this permit, sign this certification and return to the Habitat Management Program of the Ecological Services Section at the address listed below.

Please note that your permitted activity is subject to compliance inspections by DNR representatives before and after completion of the project. If you fail to comply with the permit terms and conditions it may be subject to suspension, modification, or revocation.

Permittee Statement

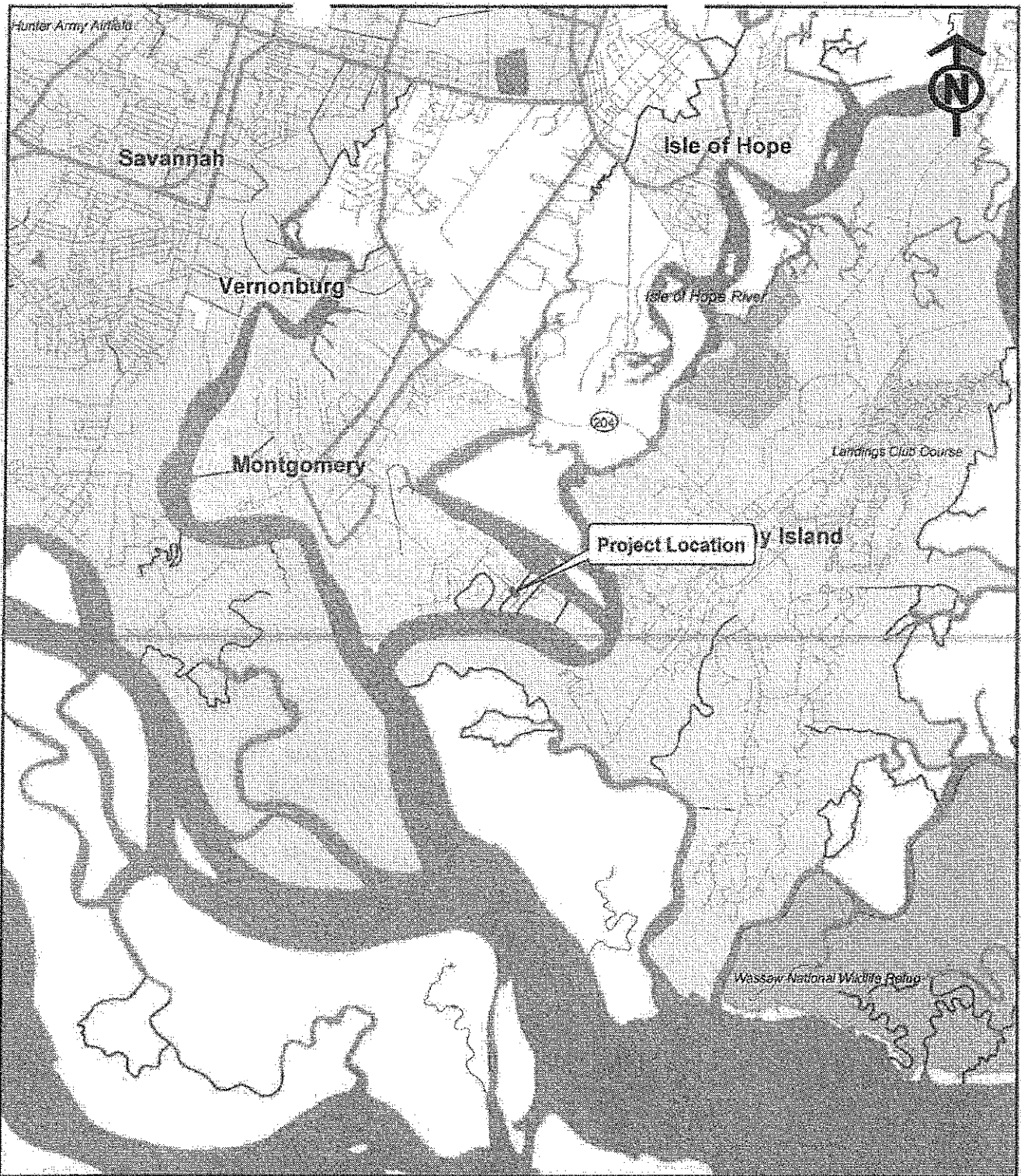
*"I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit."*

Signature of Permittee:

\_\_\_\_\_

Date: \_\_\_\_\_





Approximate Project Limits

**sligh** environmental consultants, inc.  
 31 Park of Commerce Way, Suite 200B  
 Savannah, Georgia 31405  
 phone (912) 232-0451  
 fax (912) 232-0453

# **HUNT DRIVE BRIDGE PROJECT** **Chatham County, Georgia**

Location Map - ESRI Street Map USA

0 0.5 1 Miles



Exhibit Date: January 9, 2012

Drawn By: JFW

Reviewed By: JFW

Job Number: 01.09.0561

RIGHT OF WAY OF PROPOSED  
HUNT DRIVE  
BRIDGE REPLACEMENT  
CHATHAM COUNTY  
FEDERAL AID PROJECT

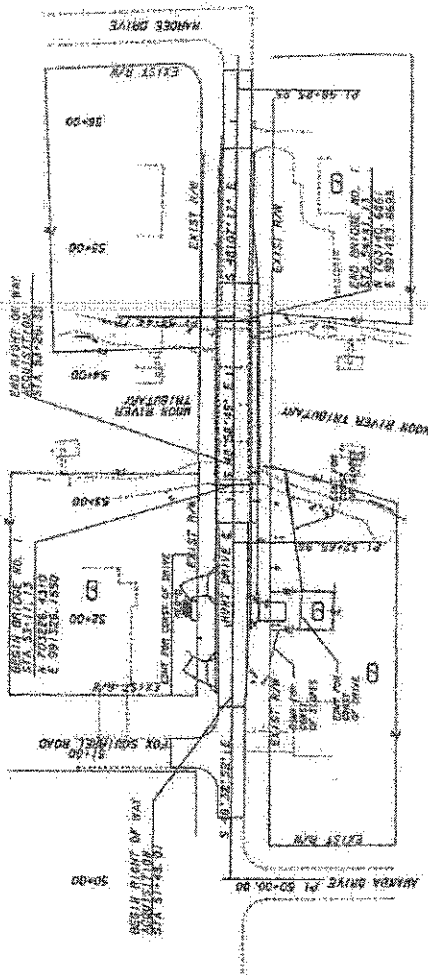
FEDERAL ROUTE NO. 1 N/A  
STATE ROUTE NO. 1 N/A  
P.O. NO. 1 N/A

EX-100-1-1000  
FEB 3 1971



**WASH**  
IMPROVING YOUR WORK  
200 PEACOCK STREET, SUITE  
ATLANTA, GA 30306-1278  
678-620-7203 (FAX) 404-547-9593

*[Faint handwritten notes at the bottom of the page]*

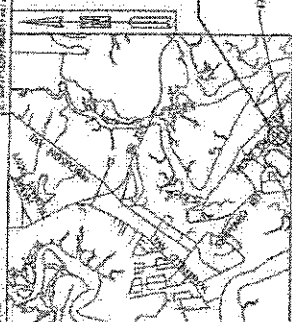


THIS PROJECT IS LOCATED IN CHATHAM COUNTY AND IS INDEX IN CONC. DIST. NO. 1.

540-6



15-00000 15-00001 15-00002 15-00003 15-00004 15-00005 15-00006 15-00007 15-00008 15-00009 15-00010 15-00011 15-00012 15-00013 15-00014 15-00015 15-00016 15-00017 15-00018 15-00019 15-00020 15-00021 15-00022 15-00023 15-00024 15-00025 15-00026 15-00027 15-00028 15-00029 15-00030 15-00031 15-00032 15-00033 15-00034 15-00035 15-00036 15-00037 15-00038 15-00039 15-00040 15-00041 15-00042 15-00043 15-00044 15-00045 15-00046 15-00047 15-00048 15-00049 15-00050 15-00051 15-00052 15-00053 15-00054 15-00055 15-00056 15-00057 15-00058 15-00059 15-00060 15-00061 15-00062 15-00063 15-00064 15-00065 15-00066 15-00067 15-00068 15-00069 15-00070 15-00071 15-00072 15-00073 15-00074 15-00075 15-00076 15-00077 15-00078 15-00079 15-00080 15-00081 15-00082 15-00083 15-00084 15-00085 15-00086 15-00087 15-00088 15-00089 15-00090 15-00091 15-00092 15-00093 15-00094 15-00095 15-00096 15-00097 15-00098 15-00099 15-00100 15-00101 15-00102 15-00103 15-00104 15-00105 15-00106 15-00107 15-00108 15-00109 15-00110 15-00111 15-00112 15-00113 15-00114 15-00115 15-00116 15-00117 15-00118 15-00119 15-00120 15-00121 15-00122 15-00123 15-00124 15-00125 15-00126 15-00127 15-00128 15-00129 15-00130 15-00131 15-00132 15-00133 15-00134 15-00135 15-00136 15-00137 15-00138 15-00139 15-00140 15-00141 15-00142 15-00143 15-00144 15-00145 15-00146 15-00147 15-00148 15-00149 15-00150 15-00151 15-00152 15-00153 15-00154 15-00155 15-00156 15-00157 15-00158 15-00159 15-00160 15-00161 15-00162 15-00163 15-00164 15-00165 15-00166 15-00167 15-00168 15-00169 15-00170 15-00171 15-00172 15-00173 15-00174 15-00175 15-00176 15-00177 15-00178 15-00179 15-00180 15-00181 15-00182 15-00183 15-00184 15-00185 15-00186 15-00187 15-00188 15-00189 15-00190 15-00191 15-00192 15-00193 15-00194 15-00195 15-00196 15-00197 15-00198 15-00199 15-00200 15-00201 15-00202 15-00203 15-00204 15-00205 15-00206 15-00207 15-00208 15-00209 15-00210 15-00211 15-00212 15-00213 15-00214 15-00215 15-00216 15-00217 15-00218 15-00219 15-00220 15-00221 15-00222 15-00223 15-00224 15-00225 15-00226 15-00227 15-00228 15-00229 15-00230 15-00231 15-00232 15-00233 15-00234 15-00235 15-00236 15-00237 15-00238 15-00239 15-00240 15-00241 15-00242 15-00243 15-00244 15-00245 15-00246 15-00247 15-00248 15-00249 15-00250 15-00251 15-00252 15-00253 15-00254 15-00255 15-00256 15-00257 15-00258 15-00259 15-00260 15-00261 15-00262 15-00263 15-00264 15-00265 15-00266 15-00267 15-00268 15-00269 15-00270 15-00271 15-00272 15-00273 15-00274 15-00275 15-00276 15-00277 15-00278 15-00279 15-00280 15-00281 15-00282 15-00283 15-00284 15-00285 15-00286 15-00287 15-00288 15-00289 15-00290 15-00291 15-00292 15-00293 15-00294 15-00295 15-00296 15-00297 15-00298 15-00299 15-00300 15-00301 15-00302 15-00303 15-00304 15-00305 15-00306 15-00307 15-00308 15-00309 15-00310 15-00311 15-00312 15-00313 
--



LOCATION SKETCH

[illegible]

CHATHAM COUNTY



FLOW EBB

MOON RIVER  
TRIBUTARY

DNR/SECTION 10  
WETLAND LIMIT

PROPOSED  
BRIDGE

ASPH-CON. LOCATION EXIST  
CONCRETE PILING BRIDGE

CONCRETE BRIDGE

HUNT DRIVE/CR 113

S 48° 58' 45" E

DW K 10" CONC. CURB

DNR/SECTION 10  
WETLAND LIMIT

EDGE OF  
CHANNEL

EXIST BRIDGE = +/- 3070 SF  
PROPOSED BRIDGE = +/- 4725 SF  
TOTAL INCREASE = +/- 1655 SF

GA DNR / HMP  
FEB 3 2012

WHEN PRINTED 11/1/2011

PI 54+44.77  
Δ 0° 51' 27.7"

DECK  
(WOOD)

PI 53+00  
Δ 0° 51' 27.7"

PI 53+00  
Δ 0° 51' 27.7"

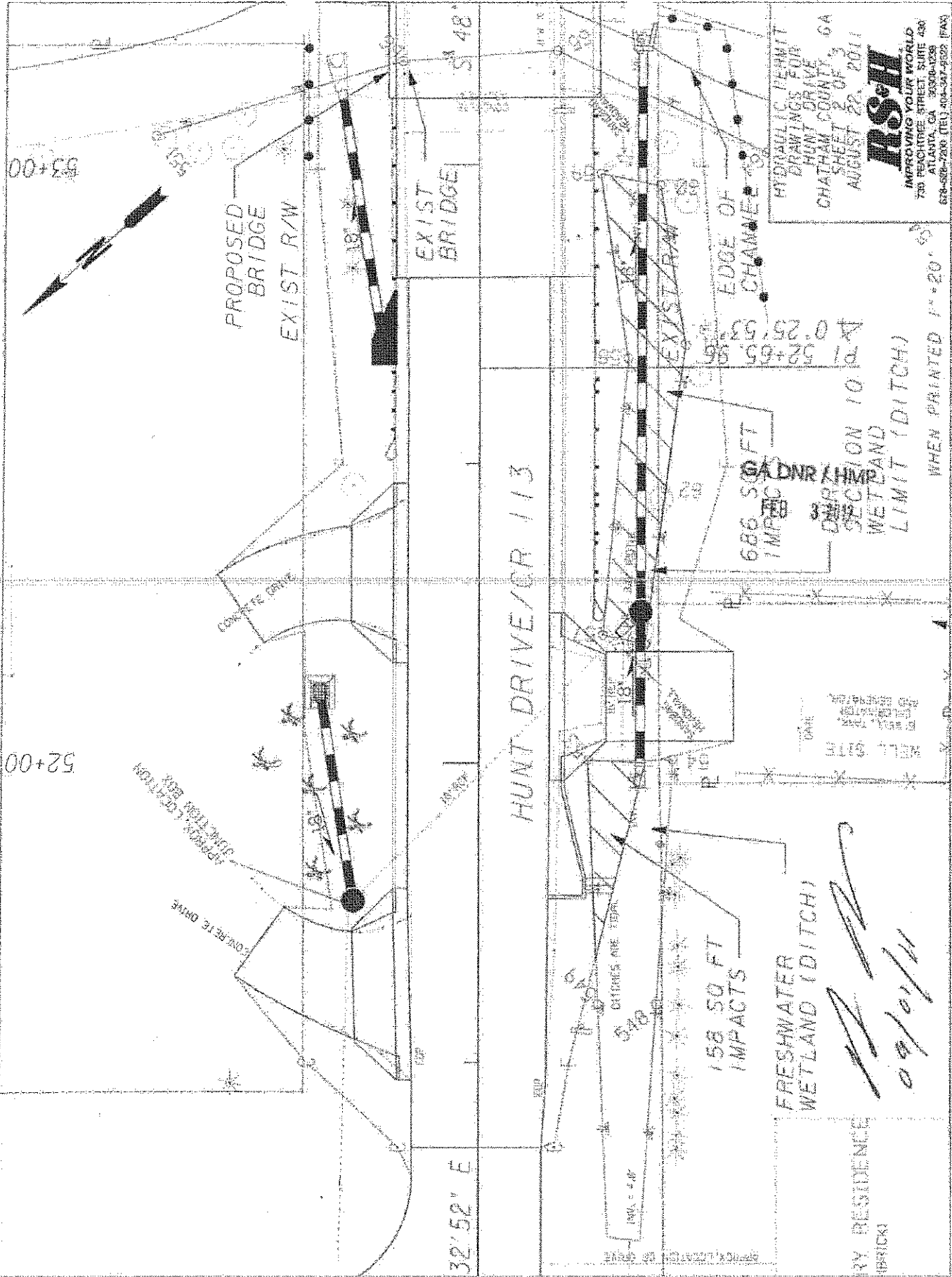
PI 52+65.96  
Δ 0° 25' 53.7"

EXIST. R/W

HYDRAULIC PERMIT  
DRAWINGS FOR  
HUNT DRIVE  
CHATHAM COUNTY, GA  
SHEET 1 OF 3  
JUNE 28, 2011

**RS&I**

IMPROVING YOUR WORLD  
730 PEACHTREE STREET, SUITE 400  
ATLANTA, GA 30308-1208  
678-528-7200 (TEL) 404-347-9522 (FAX)



HYDRAULIC PERMIT  
DRAWINGS FOR  
HUNT DRIVE  
CHATHAM COUNTY, GA  
SHEET 2 OF 3  
AUGUST 22, 2011

**RSH**  
IMPROVING YOUR WORLD  
730 PEACHTREE STREET, SUITE 430  
ATLANTA, GA 30306-1038  
678-588-7200 (TELEPHONE) 678-522-7400 (FAX)

GA DNR / HMP  
3000  
SECTION 10  
WETLAND  
LIMIT (DITCH)

686 SQ FT  
IMPACTS

158 SQ FT  
IMPACTS

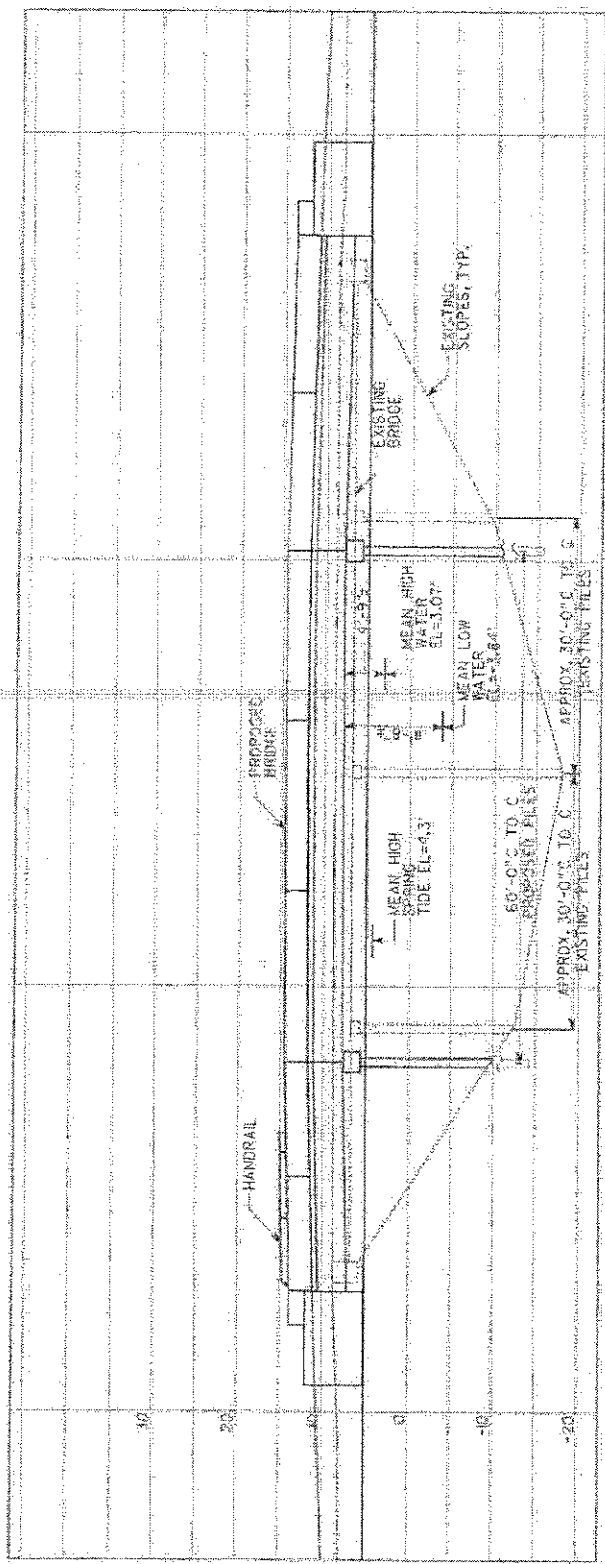
DATE: 08/01/11  
BY: [Signature]  
CHECKED BY: [Signature]  
APPROVED BY: [Signature]

RY RESIDENCE  
(BRICK)

08/01/11

WHEN PRINTED 1"=20'





ELEVATION

*Handwritten notes:*  
 2/10/12  
 02/01/12

GA DNR / HMP

FEB 3 2012

HYDRAULIC PERMIT  
 DRAWINGS FOR  
 HUNT DRIVE  
 CHATHAM COUNTY, GA  
 SHEET 3 OF 3  
 JUNE 28, 2011

**RS&H**

IMPROVING YOUR WORLD  
 700 PEACHTREE STREET, SUITE 400  
 ATLANTA, GA 30309-3209  
 678-928-7200 (TEL) 404-343-5522 (FAX)

WORK SHEET 11: 70'



MARK WILLIAMS  
COMMISSIONER

A.G. 'SPUD' WOODWARD  
DIRECTOR

JUN - 4 2012

Mr. Jeff Williams  
Sligh Environmental Consultants  
31 Park of Commerce Way, Suite 200B  
Savannah, GA 31405

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JUN - 4 2012

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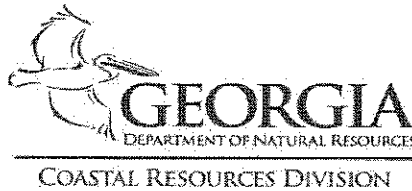


Brad Gane  
Chief  
Ecological Services Section

Enclosures: CMPC Permit #663 and Permit Conditions, Compliance Certificate, Permit Placard, Drawings

cc: Mr. Brian Moore, SAS2010-00127  
Savannah District Corps of Engineers  
PO Box 889  
Savannah, GA 3140

File # (021805.1201pm\_CMPA#663)



MARK WILLIAMS  
COMMISSIONER

A.G. 'SPUD' WOODWARD  
DIRECTOR

**Coastal Marshlands Protection Committee Permit # 663**  
**Final Conditions**  
**May 30, 2012**

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**Marsh Component:**

The bridge will be approximately 39' wide by 121' long (4,725 sq. ft.). Approximately 435 sq. ft. (0.01 acre) of rip rap will be installed to stabilize the slopes at the four stormwater outfalls.

**COASTAL MARSHLANDS PROTECTION ACT STANDARD CONDITIONS**

1. The project must comply, as applicable, for areas permitted herein, with all other federal, state, and local statutes, ordinances, and regulations and the applicant must obtain all licenses and permits prior to commencement of construction.
2. This permit does not resolve actual or potential disputes regarding ownership of, rights in or over the property upon which the subject project is proposed, and shall not be construed as recognizing or denying any such rights or interests.
3. All plans, documents and materials contained in this permit application, required by Coastal Marshlands Protection Act of 1970, as amended O.C.G.A. § 12-5-280 *et seq.*, are a part of this permit and conformance to such plans, documents, and materials are a condition of this permit. No change or deviation from these plans, documents, and materials shall be permitted without prior notification and approval by the Department or CMPC.
4. No further encroachment or construction shall take place within state jurisdiction, except as permitted by the CMPC. Any modification of the plans or structure in the jurisdictional area must be reviewed and approved by the Department or the CMPC, as necessary, prior to construction.
5. No construction or alteration of a project may commence until the expiration of 30 days following the date on which the application is approved; provided however that if a timely appeal is filed, no construction or alteration may commence until all administrative and judicial proceedings are terminated.
6. The permit must be posted onsite within twenty-four (24) hours of beginning construction.

7. A copy of these and all permit conditions must be supplied to the person in charge of construction. All contractors and subcontractors are responsible for strict adherence to all permit conditions.
8. All Best Management Practices (BMPs) should be used to prevent any erosion and sedimentation at the site. No equipment, materials, or debris may be placed in, disposed of, or stored in jurisdictional areas. Any visible alterations in the marsh topography will be restored immediately using low-impact hand tools. Any damage to the marsh vegetation that has not recovered naturally during the next growing season will be repaired by a method acceptable to the Department.
9. If the permitted improvements are damaged, fall into disrepair, become dilapidated, or are not meeting their expected usefulness and are not maintained at a serviceable level, it is the responsibility of the owner to remove the improvements. A new permit will be required to retain and repair the structure, improvement, or asset if it loses its structural integrity and is no longer serviceable.
10. The CMPC is not bound in the future to protect any improvement or asset authorized by the permit.

### **SPECIAL CONDITIONS**

1. Should unreasonable damage to the marsh surface occur, preexisting surface elevations shall be restored using hand tools. Such restoration must be coordinated with the Department prior to restoration work being conducted.
2. There shall be no disposal of excavated sediments in coastal marshlands.
3. Siltation screens shall be placed where disposal of material will occur to hold placed material and to prevent fill of coastal marshlands.
4. Construction activities shall be performed using best management practices (BMPs) to comply with the Georgia Erosion & Sedimentation Act, O.C.G.A. §12-7-1 *et seq.*
5. Permittee may be required to provide a post-construction survey to the Georgia Department of Natural Resources, Coastal Resources Division upon completion of the permitted activity. Such survey shall comply with the Georgia Plat Act O.C.G.A. 15-6-67 *et seq.*



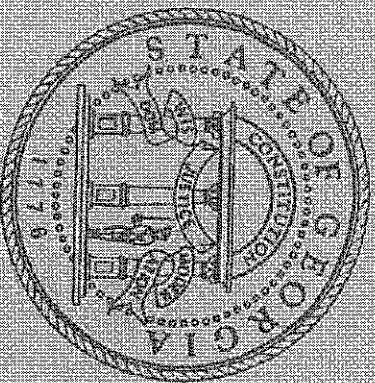
# Georgia Coastal Marshlands Protection Committee

## PERMIT

Issued Pursuant to O.C.G.A. 12-5-280

To: Chatham County Government

For: Replace the existing Faye Drive Bridge over a tributary of the Moon River on Burnside Island, Chatham County, Georgia. Total new impact to jurisdictional coastal marshlands is 1,840 sq. ft. (0.04 acre). Standard and Special conditions apply to this permit.



Date:

May 30, 2012

Expiration Date: May 30, 2017

Permit Number: 663

Authorized By:

B. G. G. G.

For further information, please contact the DNR Coastal Resources Division at (912) 264-7218



STATE OF GEORGIA  
REVOCABLE LICENSE REQ. JT  
In Association with a DNR Permitted Project

APPLICANTS NAME(S): Chatham County Department of Engineering - Mr. A.G. Bungard, P.E. / County Engineer

MAILING ADDRESS: P.O. Box 8161 Savannah Georgia 31412  
(Street) (City) (State) (Zip)

PROJECT ADDRESS/LOCATION: Faye Drive, Burnside Island, Chatham County, Georgia

COUNTY: Chatham WATERWAY: Tributary of the Moon River & Burnside River DATE: January 24, 2012

LOT, BLOCK & SUBDIVISION NAME FROM DEED: \_\_\_\_\_

A. G. "Spud" Woodward, DIRECTOR  
Georgia Department of Natural Resources  
Coastal Resources Division  
One Conservation Way  
Brunswick, Georgia 31520-8687

Dear Mr. Woodward:

I am making application for a permit with the U.S. Department of the Army, Corps of Engineers, Savannah District. I understand that the issuance of such a permit will not relieve me of the obligation to obtain authorization from the State of Georgia since the proposed project would constitute an encroachment on the beds of tidewaters which are State-owned property. Accordingly, I hereby request that I be granted a revocable license from the State of Georgia. Attached hereto and made a part of this request is a copy of the plans and description of the project which will be the subject of such a license. I certify that all information submitted is true and correct to the best of my knowledge and understand that the willful misrepresentation or falsification is punishable by law.

I understand that if permission from the State is granted, it will be a revocable license and will not constitute a license coupled with an interest. I acknowledge that this revocable license does not resolve any actual or potential disputes regarding the ownership of, or rights in, or over the property upon which the subject project is proposed, and shall not be construed as recognizing or denying any such rights or interests. I acknowledge that such a license would relate only to the property interests of the State and would not obviate the necessity of obtaining any other State license, permit or authorization required by State law. I further recognize that I will have no liveaboards, nor allow them to occur, at this structure. I recognize that I waive my right of expectation of privacy and I do not have the permission of the State of Georgia to proceed with such project until the Commissioner of the DNR has signed a copy of this request.

Sincerely,  
By: AG Bungard 1/25/2012  
A.G. Bungard, P.E., County Engineer

By: \_\_\_\_\_  
(Applicant), title if applicable

Attachment

\*\*\*\*\*

The State of Georgia hereby grants you a revocable license not coupled with an interest as provided in your request. This area may now or in the future be utilized by boats employing power drawn nets under the provisions for commercial or sport bait shrimping. In its occupancy and use of the premises, licensee shall not discriminate against any person on the basis of race, gender, color, national origin, religion, age, or disability. This covenant by licensee may be enforced by termination of this license, by injunction, and by any other remedy available at law to the Department. The project proposed for this license must be completed within 5 years of the date of issuance of the license and must be maintained in serviceable condition. Otherwise, action will be initiated to revoke the license and all structures must be removed immediately at the licensee's expense.

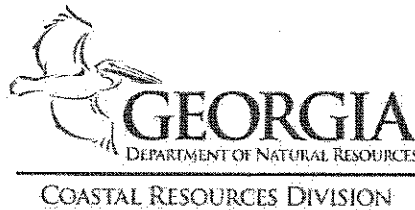
STATE OF GEORGIA  
Office of the Governor

By: B. Game  
For: Mark Williams, Commissioner-DNR

GA DNR / HMP

FEB 3 2012

DATE: MAY 3 0 2012



MARK WILLIAMS  
COMMISSIONER

A.G. SPUD WOODWARD  
DIRECTOR

CERTIFICATION OF COMPLIANCE  
FOR THE CONSTRUCTION AND MAINTENANCE  
OF PROJECTS PERMITTED UNDER  
THE COASTAL MARSHLAND PROTECTION ACT

PERMITTEE:

Name: Chatham County Government  
City or Town: Faye Drive, Burnside Island  
Island or Waterway: Tributary to Moon River  
County: Chatham County  
Permit Number: 663

Within 30 days of completion of the activity authorized by this permit, sign this certification and return to the Habitat Management Program of the Ecological Services Section at the address listed below.

Please note that your permitted activity is subject to compliance inspections by DNR representatives before and after completion of the project. If you fail to comply with the permit terms and conditions it may be subject to suspension, modification, or revocation.

Permittee Statement

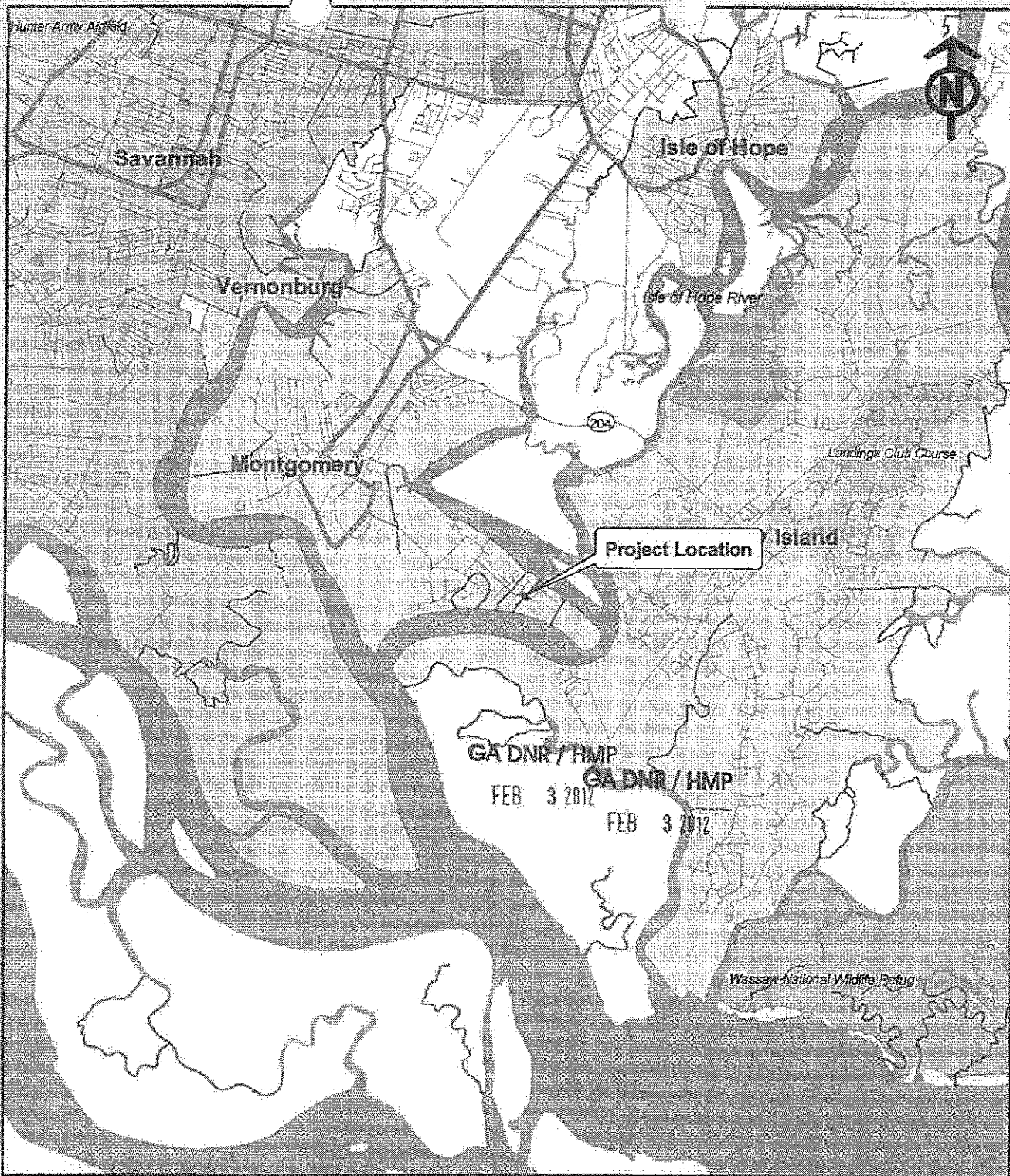
*"I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and conditions of the said permit."*

Signature of Permittee:

\_\_\_\_\_

Date: \_\_\_\_\_





Approximate Project Limits

<p><b>sligh</b> environmental consultants, inc.          31 Park of Commerce Way, Suite 200B          Savannah, Georgia 31405          phone (912) 232-0451          fax (912) 232-0453</p>	<p><b>FAYE DRIVE BRIDGE PROJECT</b>          Chatham County, Georgia</p> <p>Location Map - ESRI Street Map USA</p>	<p>0 0.3/50.75 Miles</p> <p>Exhibit Date: January 9, 2012</p> <p>Created By: JPN</p> <p>Reviewed By: BWV</p> <p>Job Number: 01-09-056.2</p>
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[illegible]



12+00

STEEL HOIST  
SUPPORT (TYP)

TRACK

ACCESS RAMP  
(METAL)  
COVERED  
HOIST

12" WOOD  
PILINGS (TYP)

13+00

FLOW  
EBB

DNR/SECTION 10  
WETLAND LIMIT

MOON RIVER  
TRIBUTARY

FLOATING DOCK  
(WOOD)  
12" WOOD  
PILINGS (TYP)

EDGE

WOOD DECK W/4'  
WOOD FENCE

14+00

WOOD DECK

PROPOSED  
BRIDGE

APPROX LOCATION  
EXIST  
CONCRETE PILING  
BRIDGE  
IS 50° 45' 53" E

FAYE DRIVE/CR 117

CONCRETE  
ABUTMENT

CONCRETE  
ABUTMENT

6" X 24" CURB & GUTTER  
6" X 24" CURB & GUTTER  
6" X 24" CURB & GUTTER

6" X 24" CURB & GUTTER  
6" X 24" CURB & GUTTER  
6" X 24" CURB & GUTTER

8" W X 10" H CURB  
1" WIDE METAL GUARDRAIL ON 6" I-BEAMS

DNR/SECTION 10  
WETLAND LIMIT

EDGE OF  
CHANNEL

EXIST BRIDGE = +/- 3320 SF  
PROPOSED BRIDGE = +/- 4725 SF  
TOTAL INCREASE = +/- 1405 SF

GA DNR/HMP  
FEB 3 2012

WHEN PRINTED 1" = 20'

HYDRAULIC PERMIT  
DRAWINGS FOR  
FAYE DRIVE  
CHATHAM COUNTY, GA  
SHEET 1 OF 2  
APRIL 20, 2011

**RS&H**

IMPROVING YOUR WORLD  
730 PINECHIE STREET, SUITE 430  
ATLANTA, GA 30308-1236  
878-238-7200 (TEL) 404-347-9222 (FAX)

