



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

July 3, 2012

REPLY TO  
ATTENTION OF:

Regulatory Division  
SAS-2005-01790

Mr. James Moore  
Naval Submarine Base, Kings Bay  
Public Works Department  
1063 USS Tennessee Avenue  
Kings Bay, Georgia 31547-2606

Dear Mr. Moore:

I refer to the request on your behalf by Mr. Eric Bush, with the Planning Division of the Jacksonville District, US Army Corps of Engineers, dated May 9, 2012, requesting a one year time extension of Department of the Army permit number SAS-2005-01790. This permit authorized the maintenance dredging in the inner channels, turning basins, berths, and interior channels of Cumberland Sound and the St. Marys River.

In accordance with your request, I am hereby authorizing the following modification to Department of the Army permit number SAS-2005-01790:

**AUTHORIZED MODIFICATION:** The completion date for work authorized under Department of the Army permit number SAS-2005-01790 is extended from August 31, 2012, to August 31, 2013.

This Permit Modification is subject to the terms and conditions of the original permit. You will not depart from the approved location or plans without obtaining prior approval from the Department of the Army.

This authorization does not convey any property rights, either in real estate or material, or any exclusive privileges. It does not authorize any injury to property, invasion of rights, or any infringement of federal, state, local laws, or regulations; nor does it obviate the requirement to obtain State or local assent required by law for the activity described herein. It does not affect your liability for any damages that may be caused by the work.

If this modification is agreeable, sign both the original and duplicate copy. Please retain the original for your records and return the signed duplicate to this office.

If you object to this decision due to certain terms and conditions therein, you may request that the permit be modified under our regulations at Title 33 Code of Federal Regulations (33 CFR) Part 331. Enclosed you will find a Notification of Appeal Process (NAP) Fact Sheet and

Request for Appeal (RFA) Form. To request that the permit be modified you must complete Section II of the enclosed form and return the form to the District Engineer at the address shown above.

In order for an RFA to be accepted, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the District Engineer within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by this deadline.

It is not necessary to submit an RFA form to the District Office if you do not object to the permit decision.

Copies of this letter are being provided to the following parties: Mr. Russ Jones, SAJ-PPD-EQ, Ms. Jessica Weatherby, SAJ-PM-M, and Ms. Beverly Lawrence, SAJ-RD-NJ, Department of the Army, Jacksonville District Corps of Engineers, P.O. Box 4970, Jacksonville, Florida 32232-0019.

Thank you in advance for completing our Customer Survey Form. This can be accomplished by visiting our web site 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 call Mark Padgett, Senior Project Manager, Coastal Branch, at 912-652-5052.



for Jeffrey M. Hall  
Colonel, U.S. Army  
Commanding

Enclosures

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Permittee hereby accepts the terms and conditions of this instrument.

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(Permittee)

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(Date)



**NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS  
AND REQUEST FOR APPEAL**

Applicant: Kings Bay Submarine Base      File Number: SAS-2005-01790      Date: July 3, 2012

Attached is:      See Section below

☐ INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)

A

☒ PROFFERED PERMIT (Standard Permit or Letter of permission)

B

☐ PERMIT DENIAL

C

☐ APPROVED JURISDICTIONAL DETERMINATION

D

☐ PRELIMINARY JURISDICTIONAL DETERMINATION

E

**SECTION I -** The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at [http://www.usace.army.mil/CECW/Pages/reg\\_materials.aspx](http://www.usace.army.mil/CECW/Pages/reg_materials.aspx) or Corps regulations at 33 CFR Part 331.

**A: INITIAL PROFFERED PERMIT:** You may accept or object to the permit.

**ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.

**OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

**B: PROFFERED PERMIT:** You may accept or appeal the permit

**ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.

**APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice

**C: PERMIT DENIAL:** You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice



**D: APPROVED JURISDICTIONAL DETERMINATION:** You may accept or appeal the approved JD or provide new information.

**ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.

**APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**E: PRELIMINARY JURISDICTIONAL DETERMINATION:** You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

**SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT**

**REASONS FOR APPEAL OR OBJECTIONS:** (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

**ADDITIONAL INFORMATION:** The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

**POINT OF CONTACT FOR QUESTIONS OR INFORMATION:**

If you have questions regarding this decision and/or the appeal process you may contact:

Mark Padgett  
US Army Corps of Engineers, Savannah District  
100 W. Oglethorpe Avenue  
Savannah, Georgia 31401-3640  
912-652-5052

If you only have questions regarding the appeal process you may also contact:

District Commander  
US Army Corps of Engineers, Savannah District  
100 W. Oglethorpe Avenue  
Savannah, Georgia 31401

**RIGHT OF ENTRY:** Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

<hr/> Signature of appellant or agent.	Date:	Telephone number:
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DEPARTMENT OF THE ARMY PERMIT

PERMITTEE: Kings Bay Naval Base

PERMIT NUMBER: 200501790

ISSUING OFFICE:

Savannah District  
US Army Corps of Engineers  
Post Office Box 889  
Savannah, Georgia 31402-0889

NOTE: The term "you" and its derivatives used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate District or Division office of the US Army Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

PROJECT DESCRIPTION: To annually maintenance dredge approximately 800,000 cubic yards of material from navigable waters of the United States. Maintenance dredging is authorized in approximately 11,200 feet of channels, turning basins and berths; approximately 27,000 feet of navigation channel in Cumberland Sound; and approximately 10,000 feet of navigation channel in the Saint Marys River. Material dredged from the inner harbor and upper access channel will be removed by hydraulic or clam shell dredge, and would be placed in one or more of the following "Approved Confined Upland Disposal Facilities (CDFs)": Big Crab Island; Mainside; DA1; or DA2. The maximum authorized dimensions (i.e. lengths, widths and depths) of the areas that will be annually maintenance dredged are as follows:

a. Navigation Channels. Depths include 2' of allowable overdredge depth and all depths from Mean Low Water (MLW).

<u>Stations</u>	<u>Width</u>	<u>Depth</u>	<u>Location</u>
48+220 to 39+600	500	-49' MLW	Kings Bay
39+600 to 37+000	500	-46' MLW	Kings Bay
37+000 to 30+000	500	-46' MLW	Cumberland Sound (upper)
30+000 to 00+000	500	-46' MLW	Cumberland Sound (lower)

b. Turning Basins. The upper turning basin is located between Stations 48+390 and 46+400, and the lower turning basin is located between Stations 43+600 and 39+750.



c. Berths and Other Facilities. The following depths include 2' of allowable overdredge depth:

- (1) Dry Dock Caisson Gate Mooring Facility (Sta 48+220). Length: 120', Width: 24', Depth: -46' MLW.
- (2) Dry Dock Caisson Gate Sill, Length: 120', Width: 75', Depth: -47' MLW.
- (3) TRS Basin Trench (Sta 47+270 to 47+545). Width: 83', Depth: -55' MLW.
- (4) Refit Wharves (Sta 45+900 to 48+220), Depth -49' MLW.
- (5) Small Boat Basin (Sta 43+500 to 45+250), Depth: -26' MLW.
- (6) Explosive Handling Wharves (Sta 41+300 to 43+350). Width: 86', Depth: -49' MLW.
- (7) Site 6 Operational Area (ARDM, Warrior Wharf, Tender Area (old name)):
  - (i) ARDM Basin (Sta 35+970 to 36+690), Width: 100', Depth -56' MLW.
  - (ii) Warrior Wharf (Sta 34+340 to 36+585), Depth: -47' MLW.
  - (iii) Tender Area (Sta 36+750 to 39+365), Depth: -41' MLW.
- (8) Magnetic Silencing Facility (MSF):
  - (i) MSF Operating Basin (Sta 35+100 to Sta 30+500), Depth: -46' MLW.
  - (ii) MSF (Sta 32+100 to 32+900), 750' x 200', Depth: -46' MLW
  - (iii) MSF Boat Ramp Channel, Depth: -14' MLW.

The project will also require incidental movement of up to 25 cubic yards of material associated with maintenance of the turbo scour system at the MSF. Use of an air jet, eductor, or similar device will also be used to force small amounts of accumulated sediments into the water column on ebb tides for the purpose of removing sediments from drydock gate sills or from areas with sensitive equipment. This activity will be performed by divers using hand-held air jets. A single sediment removal event will be limited to a maximum of 25 cubic yards of material. Not more than a cumulative total of 200 cubic yards of material will be removed annually from both the Dry Dock Caisson Gate Berthing Facility/Caisson Gate Sill Area and the MSF. Air jetting by divers will only be used when other methods are not practicable.

Diver-operated, hand-held, non-cutterhead hydraulic dredging will also be utilized with initial disposal of dredged material in a containment barge. This method of dredging will be authorized to remove sediments from small areas with sensitive equipment where more than 25 cubic yards of material requires removal. This technique will be used to annually remove no more than 1000 cubic yards of material. Diver operated dredging equipment will be used to pump a slurry into



the containment barge. Once the containment barge is filled, dredging operations will stop for a minimum of 8 hours before supernatant water is pumped from the barge back into the waterway. Filter fabric will be used in such a manner to limit levels of suspended solids that are pumped from the barge into the waterway. Dewatered sediments remaining in the barge will be mechanically removed and beneficially reused or placed in a CDF.

**PROJECT LOCATION:** The project site is located at the Kings Bay Naval Submarine Base, in the general vicinity of latitude 30° 47' 34.65" north and longitude 81° 30' 1.42" west, approximately 3 miles north of Saint Marys, in Camden County, Georgia. The various locations of activities are described below:

Kings Bay entrance channel from the mouth of the Saint Marys River at Station 00+000, northwest through Cumberland Sound to the head of the channel at Station 37+000; Kings Bay Harbor beginning at Station 37+000 and extending west to Station 48+220; and all berthing and maintenance facilities located in Kings Bay harbor.

Approved Confined Upland Disposal Facilities (CDFs) include: Big Crab Island which is located on the east side of Kings Bay harbor; and Mainside, DA-1 and DA-2 which are located on the west side of Kings Bay harbor.

#### PERMIT CONDITIONS:

##### General Conditions.

1. The time limit for completing the work authorized by this Individual Permit ends on August 31, 2011. If you find that you need more time to complete the authorized activity, you must submit a request for your permit extension at least one month prior to the above date.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned Water Quality Certification has been issued for your project, you must comply with conditions specified in the certification as Special Conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

**Special Conditions.**

1. That the work will be accomplished in accordance with the plans and drawings attached hereto which are incorporated in and made a part of this permit:

- a. Vicinity and Project Location Map
- b. Kings Bay Channel and Harbor, Sheet 1
- c. Typical Dredging Sections, Sheet 2
- d. Typical Dredging Sections, Sheet 2a
- e. Typical Dredging Sections, Sheet 2b
- f. Kings Bay Harbor, Sheet 3
- g. Kings Bay Harbor, Sheet 4
- h. Kings Bay Harbor, Sheet 5
- i. Kings Bay Channel, Sheet 6
- j. Kings Bay Channel, Sheet 7
- k. Kings Bay Channel, Sheet 8
- l. Kings Bay Channel, Sheet 9
- m. Kings Bay Channel, Sheet 10

2. The permittee shall comply with State of Georgia, Department of Natural Resources, Environmental Protection Division Water Quality Certification (copy attached), issued pursuant to Section 401 of the Clean Water Act.

3. That use of the permitted activity must not interfere with the public's right to free navigation on the Saint Marys River, Cumberland Sound or the Intracoastal Waterway (AIWW).



4. The permittee shall inspect the "Approved Confined Upland Disposal Facilities (CDF)," prior to deposition of any dredged material into the area, to insure that all berms, embankments and weirs are in satisfactory condition.

5. The permittee shall repair any breeches in CDF dikes prior to discharging any dredged material, and maintain dikes in good condition throughout the period of discharge and until the dredged material has settled and stabilized.

6. This permit does not authorize the permittee to interfere with any existing or proposed Federal Project and the permittee shall not be entitled to compensation for damage or injury to the structures or work authorized herein which may be caused by operations undertaken by the United States.

7. The permittee shall maintain a permanent record of the date of each air jet/eductor event and an estimate of the volume of sediment moved during each event. Visual estimates of the volume of sediment moved are acceptable. The permittee shall provide a copy of the permanent record to this office upon request.

8. The permittee shall maintain a permanent record of each use of a small hand-held hydraulic dredge with discharge into a containment barge. In addition, the permittee shall record an estimate of the volume of sediment removed during each event. Visual estimates of the volume of sediment removed are acceptable. The permittee shall provide a copy of the permanent record to this office upon request.

9. A complete copy of this permit, including its drawings, special conditions and any amendments shall be maintained at the work site whenever work is begin performed. The permittee shall assure that all contractors, subcontractors and other personnel performing the permitted work are fully aware of the permit's terms and conditions.

10. Water quality data will be taken on a weekly basis when controlled releases occur from CDFs during dredged material disposal management operations. Data will include salinity (ppt), pH, dissolved oxygen (mg/l and salinity corrected), total suspended solids (TSS) (mg/l), date, time, and flow. The above data will be taken at the outfall of each weir from which there is a discharge. Should any effluent exceeding 1 cubic foot per second appear to violate a state standard, resampling will occur at the end of a mixing zone in the receiving water (generally 100 feet downcurrent from the point at which the effluent enters the receiving water) to determine if a violation of state standards is occurring. If a violation in the receiving water is found to be occurring, management actions will be taken to correct the violation. Where the violation can not be corrected, the permittee must contact the Savannah District Corps of Engineers, Regulatory Branch, for further direction.



Current Georgia State Standards are as follows:

Dissolved oxygen*	3.0 mg/l	June - October
Dissolved oxygen	3.5 mg/l	May and November
Dissolved oxygen	4.0 mg/l	December - April
pH	6.0 - 8.5	All year

\*Minimum instantaneous concentration throughout the water column.

The State of Georgia does not currently have a numeric TSS standard, but has a qualitative standard that prohibits discharges which produce conditions that interfere with the receiving water's classified use. The District has adopted a TSS standard of 500 mg/l, based on published no-effects criteria. CDF effluent must be managed to ensure compliance with this standard. Also in accordance with District policy, the permittee may develop a correlation between effluent TSS and NTUs, and accomplish routine TSS monitoring through determination of NTUs in the effluent.

11. The permittee shall insure that the following "Standard Manatee Conditions" are implemented:

a. The permittee shall insure 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 Act of 1972. The permittee and/or contractor will be held responsible for any manatee harmed, harassed or killed as a result of construction activities.

b. 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.

c. All vessels associated with the project will operate at "no wake/idle" speeds at all times while in water where the draft of the vessel provides less than four feet clearance from the bottom and that vessels will follow routes of deep water whenever possible.

d. All construction/dredging activities in open water will cease upon the sighting of manatees within 100 yards of the project area. Construction/dredging activities will not resume until the manatees have not been seen in the project area for at least 30 minutes.

e. The permittee shall immediately report any collision with a manatee to the Corps of Engineers (912-652-5058), the U.S. Fish and Wildlife Service, Brunswick Field Office (912-265-9336), and Georgia Department of Natural Resources (Weekdays 8:00 a.m. to 4:30 p.m.: 912-264-7218 or 1-800-272-8363; nights and weekends: 1-800-241-4113).



f. The permittee shall install and maintain a minimum of two 3-feet by 4-feet temporary manatee awareness construction signs labeled "Manatee Habitat - Idle Speed In Construction Area," at prominent locations within the work area prior to the initiation of any work. One temporary sign will be located prominently adjacent to the permit tag and, if required, a second temporary construction sign will be installed in a location prominently visible to water related construction crews. Temporary construction signs will be removed by the permittee upon completion of construction.

g. The permittee shall insure that the contractor keeps a log detailing sightings, collisions, or injury to manatees which have occurred during the contract period.

h. Following project completion, the permittee shall submit a report summarizing the above incidents and sightings to the U.S. Fish and Wildlife Service, 4270 Norwich Street, Brunswick, Georgia 31520.

i. The permittee shall insure that contract personnel are made aware of and take special caution when dredging in Kings Bay Harbor, near the manatee travel corridor between Crab Island and the mainland freshwater seep area, as depicted by the enclosed diagram. In addition the permittee shall insure that appropriate manatee awareness signs are posted in this area and, if necessary extra observers are stationed on the dredge when operation in this area.

#### FURTHER INFORMATION:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

2. Limits of this Authorization.

a. This permit does not obviate the need to obtain other federal, state, or local authorizations required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed federal projects.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. **Reliance on Applicant's Data.** The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. **Reevaluation of Permit Decision.** This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).


c. Significant new information surfaces which this office did not consider in reaching the original public interest decision. Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7, or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order which requires you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate.

d. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. **Extensions.** General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the US Army Corps of Engineers will normally give favorable consideration to a request for an extension of time limit.

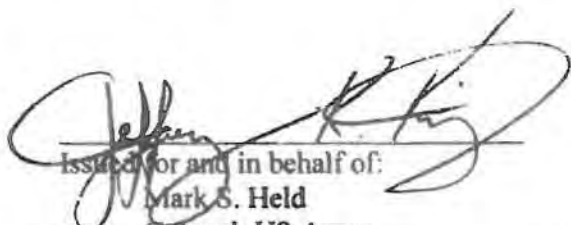


Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

  
(PERMITTEE)

20 SEP 06  
(DATE)

This permit becomes effective when the federal official, designated to act for the Secretary of the Army, has signed below.

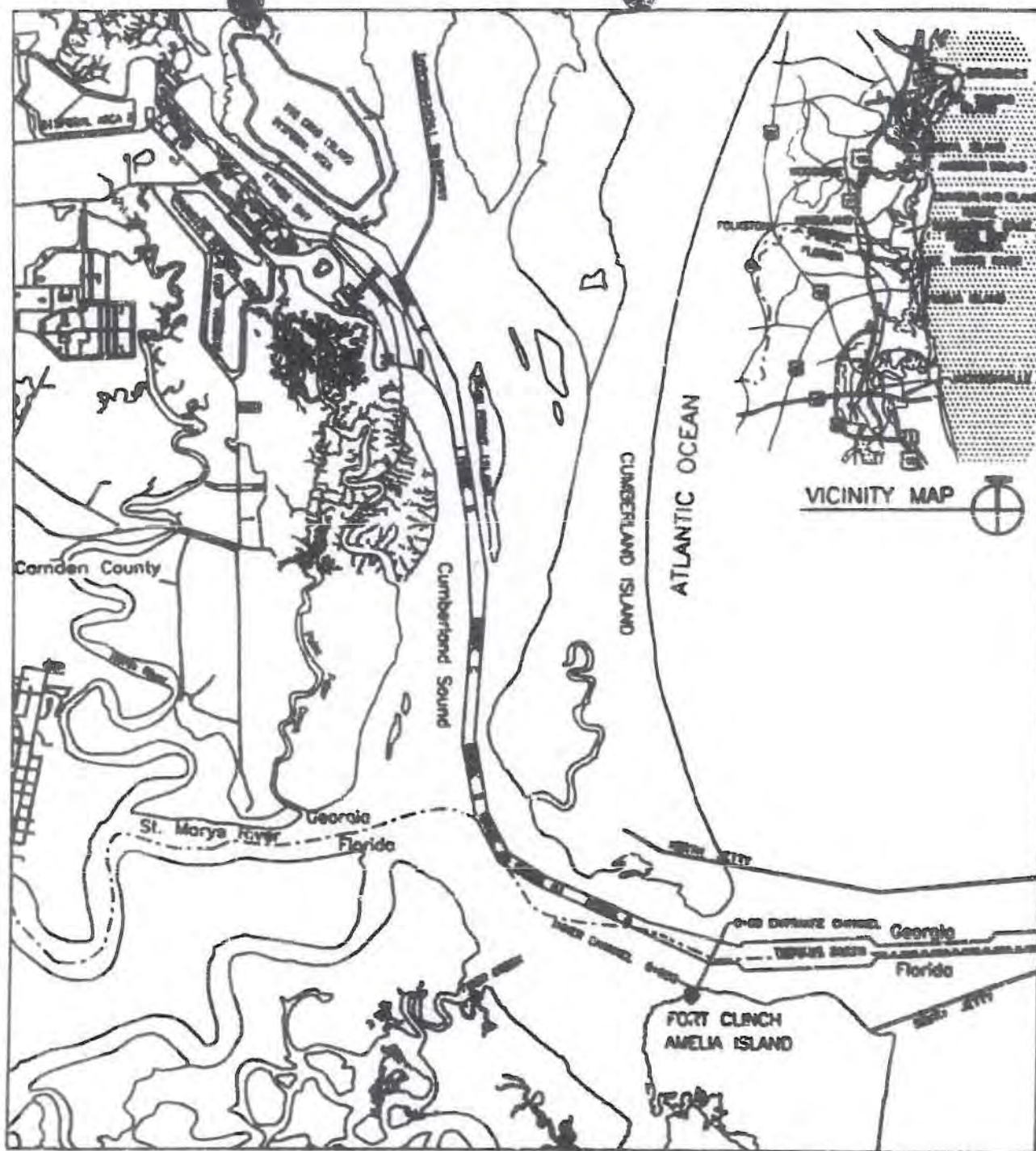
  
Issued for and in behalf of:  
Mark S. Held  
Colonel, US Army  
District Commander

22 SEP 2006  
(DATE)

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities with compliance with its terms and conditions, have the transferee sign and date below.

\_\_\_\_\_  
(TRANSFeree)

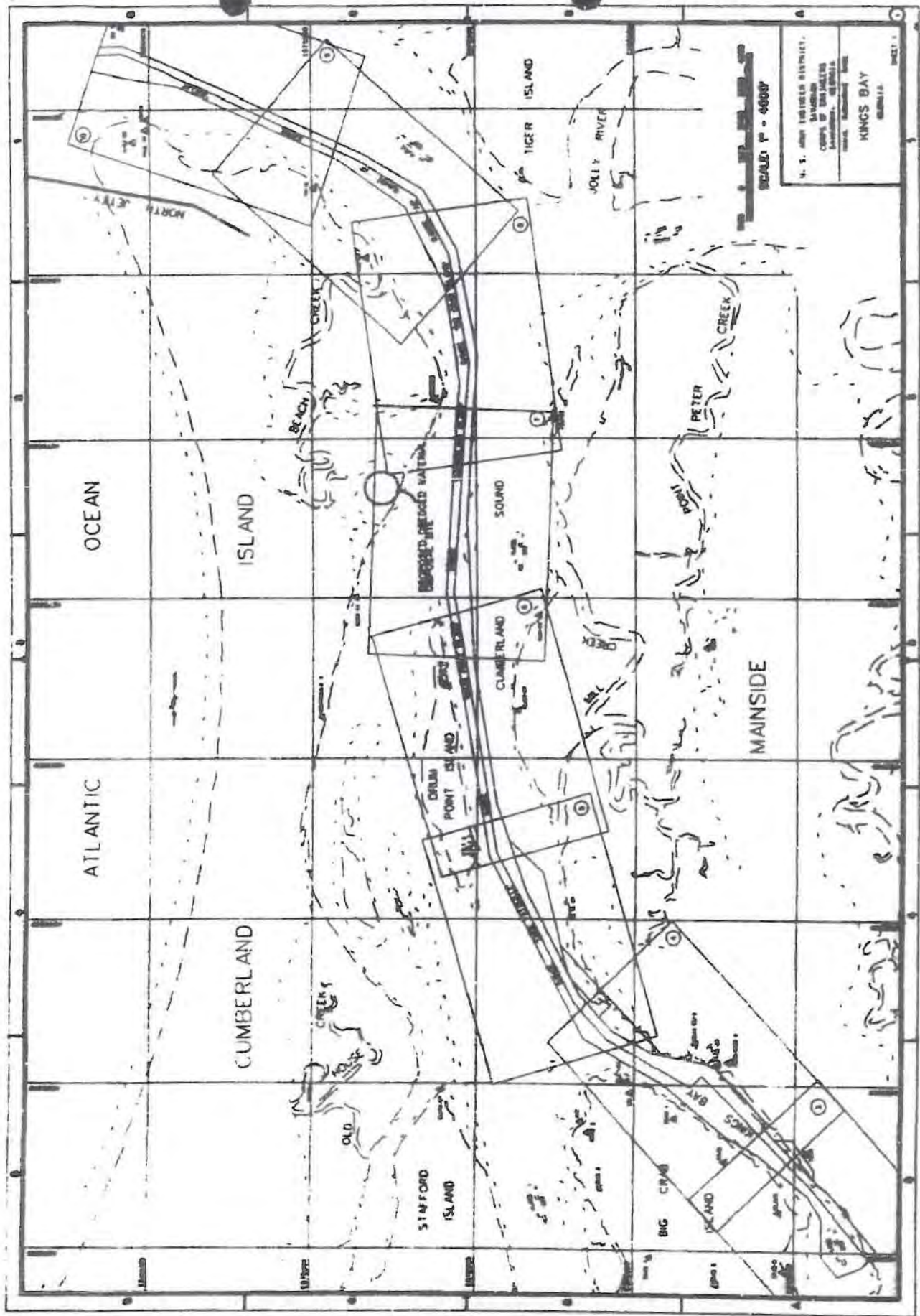
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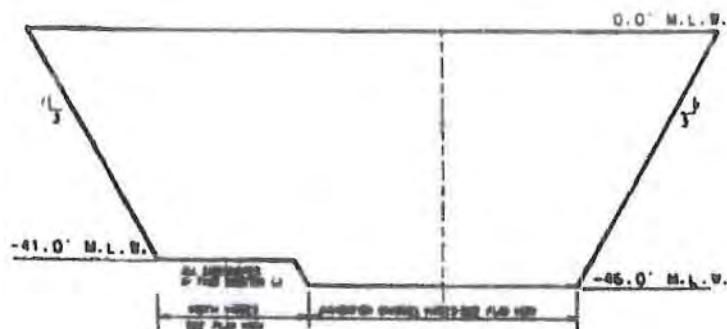


NAVAL SUBMARINE BASE KINGS BAY  
 MAINTENANCE DREDGING  
 LOCATION MAP  
 AND  
 VICINITY MAP

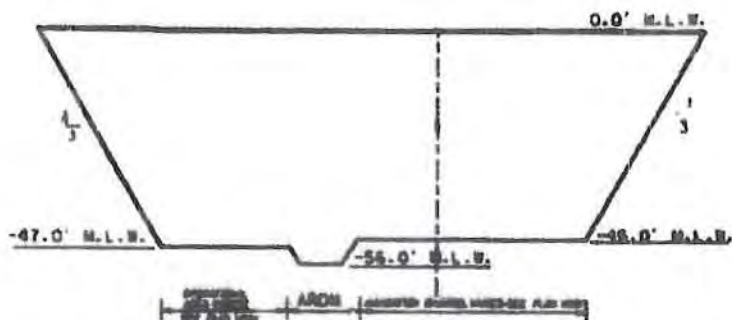
  
 1" = 8,000'



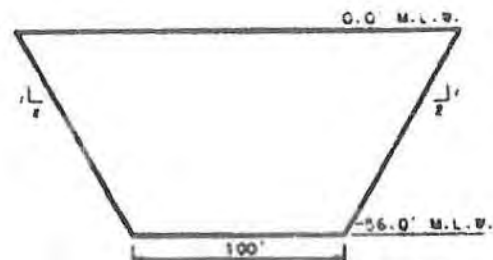




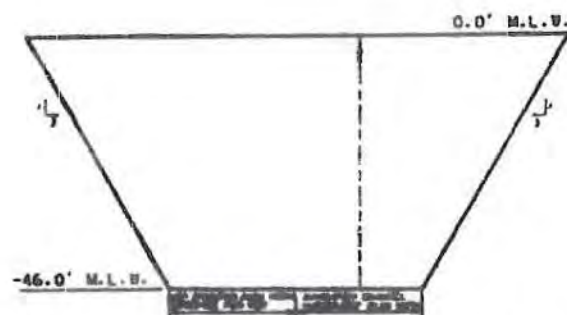
STA. 36+750 TO 39+365  
TRIDENT NAVIGATION CHANNEL  
AND SITE SIX/LAYBERTH OPERATING BASIN  
NOT TO SCALE



STA. 34+340 TO 36+585  
ARM STA. 35+970 TO 36+690 ONLY  
TRIDENT NAVIGATION CHANNEL  
AND SITE SIX/LAYBERTH OPERATING BASIN  
NOT TO SCALE



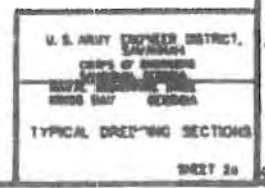
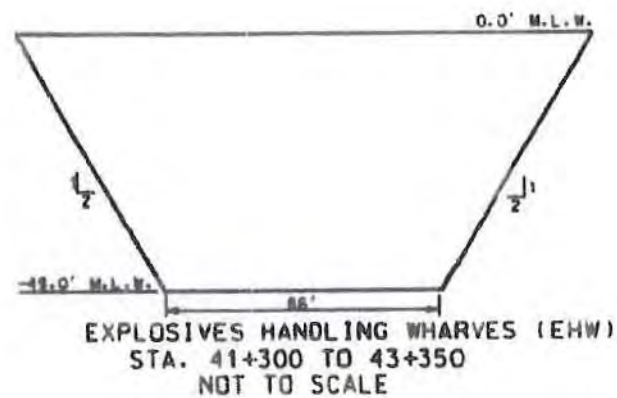
ARDM OPERATING BASIN  
STA. 35+970 TO 36+690  
NOT TO SCALE

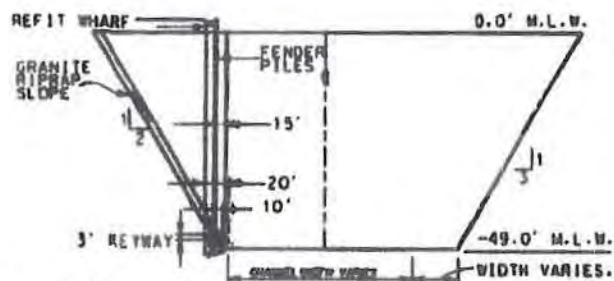


TRIDENT NAVIGATION CHANNEL  
AND MAGNETIC SILENCING FACILITY  
STA. 30+500 TO 34+350  
NOT TO SCALE

U. S. ARMY ENGINEER DISTRICT,  
CORPS OF ENGINEERS  
NATIONAL ENGINEERING CENTER  
FORT BELVOIR, VIRGINIA  
TYPICAL DREDGING SECTIONS  
SHEET 2







REF. T. WHARF

GRANITE RIPRAP SLOPE

FENDER PILES

0.0' M.L.W.

49.0' M.L.W.

55.0' M.L.W.

3' REWAY

20'

10'

83'

11

12

1

3

NOT TO SCALE

SHEET 756



BIG CRAB ISLAND  
DISPOSAL AREA

KINGS BAY

CHANNEL DEPTH -48 FT. M.W.

SMALL BOAT BASIN  
DEPTH -26 FT. M.W.

REFIT WHARVES

TRS BASIN  
DEPTH -55 FT. M.W.

MOORING FACILITY  
UPYDOCK CAISSON GATE

UPYDOCK CAISSON GATE SILL

UPPER LIMIT OF DREDGING  
STATION 48+250

SCALE: 1"=800'

U. S. ARMY ENGINEER DISTRICT.

U. S. ARMY  
CORPS OF ENGINEERS  
SAVANNAH, GEORGIA

NAVAL ENGINEERING BASE

KINGS BAY

GEORGIA

SHEET 3

REVISIONS & NOTES

NO.	DATE	BY	REVISION
1	10/1/50	W. H. H.	INITIAL DESIGN
2	10/1/50	W. H. H.	REVISION
3	10/1/50	W. H. H.	REVISION
4	10/1/50	W. H. H.	REVISION



BILBAI RABAL ISLAND  
DISPOSAL AREA

CHANNEL DEPTH -48 FT. M.W.  
STATION 0+000 TO 3+000

CHANNEL DEPTH -48 FT. M.W.  
STATION 3+000 TO 6+250

TENDER AREA  
NORTH -45 FT. M.W.

EXPLOSIVE HANDLING WHARVES  
DEPTH -48 FT. M.W.

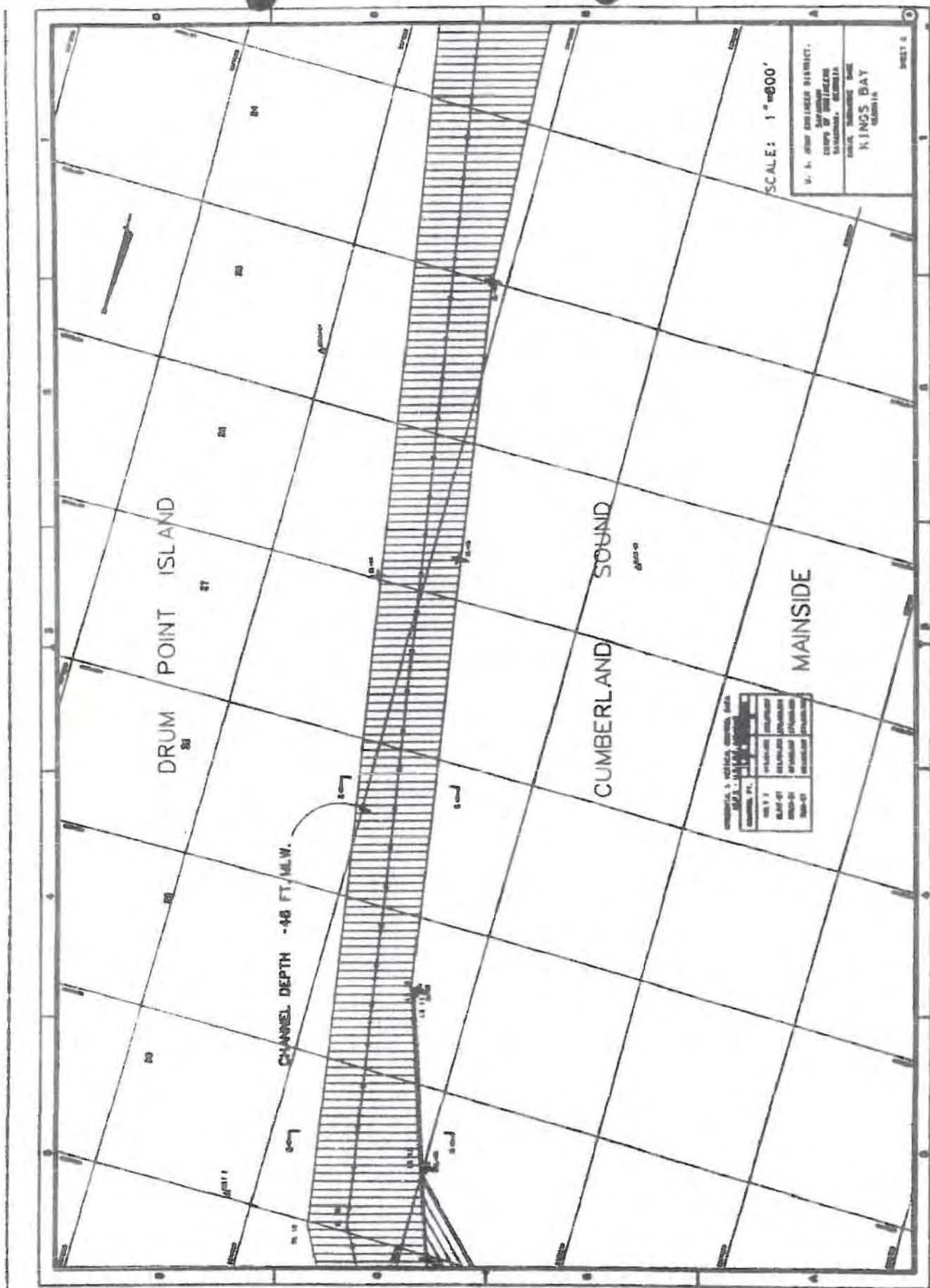
SCALE: 1"=800'

U. S. NAVY DISTRICT OFFICE  
KING'S BAY  
GEORGIA

DATE	REVISION	BY	CHKD	APP'D
1-1-66	1	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
1-1-66	2	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
1-1-66	3	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
1-1-66	4	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
1-1-66	5	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
1-1-66	6	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
1-1-66	7	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
1-1-66	8	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
1-1-66	9	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS
1-1-66	10	J. H. HARRIS	J. H. HARRIS	J. H. HARRIS







SOUNDINGS	
1-10	10-20
20-30	30-40
40-50	50-60
60-70	70-80
80-90	90-100
100-110	110-120
120-130	130-140
140-150	150-160
160-170	170-180
180-190	190-200
200-210	210-220
220-230	230-240
240-250	250-260
260-270	270-280
280-290	290-300
300-310	310-320
320-330	330-340
340-350	350-360
360-370	370-380
380-390	390-400
400-410	410-420
420-430	430-440
440-450	450-460
460-470	470-480
480-490	490-500
500-510	510-520
520-530	530-540
540-550	550-560
560-570	570-580
580-590	590-600
600-610	610-620
620-630	630-640
640-650	650-660
660-670	670-680
680-690	690-700
700-710	710-720
720-730	730-740
740-750	750-760
760-770	770-780
780-790	790-800
800-810	810-820
820-830	830-840
840-850	850-860
860-870	870-880
880-890	890-900
900-910	910-920
920-930	930-940
940-950	950-960
960-970	970-980
980-990	990-1000

U. S. NAVY CHARTS DIVISION  
 OFFICE OF NAUTICAL CHARTS  
 WASHINGTON, D. C. 20370  
 SCALE: 1"=800'  
 KINGS BAY  
 GEORGIA



CUMBERLAND ISLAND

DRUM POINT  
ISLAND

CHANNEL DEPTH -46 FT. M.W.

CUMBERLAND SOUND

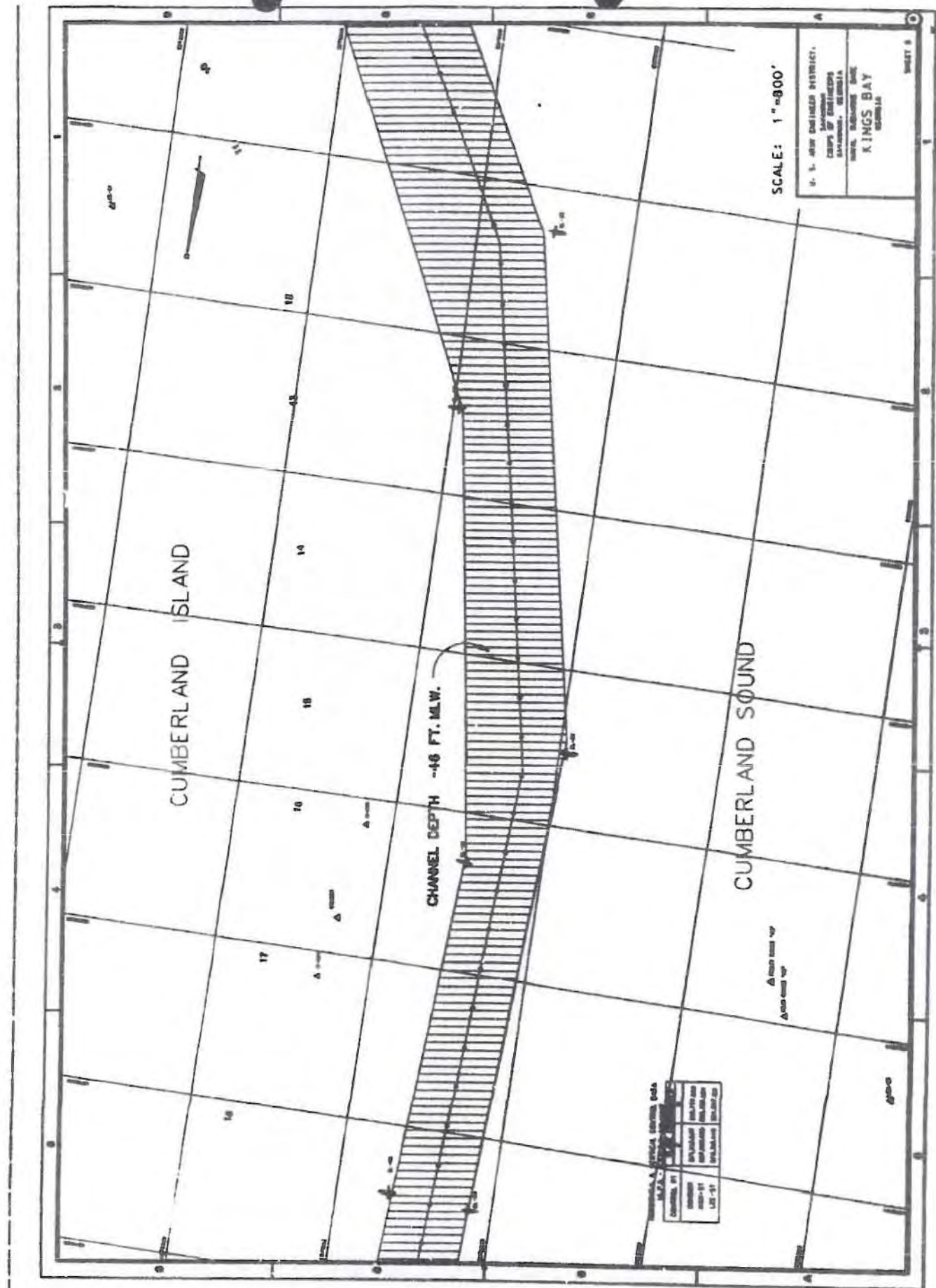
MAINSIDE

SCALE: 1"=800'

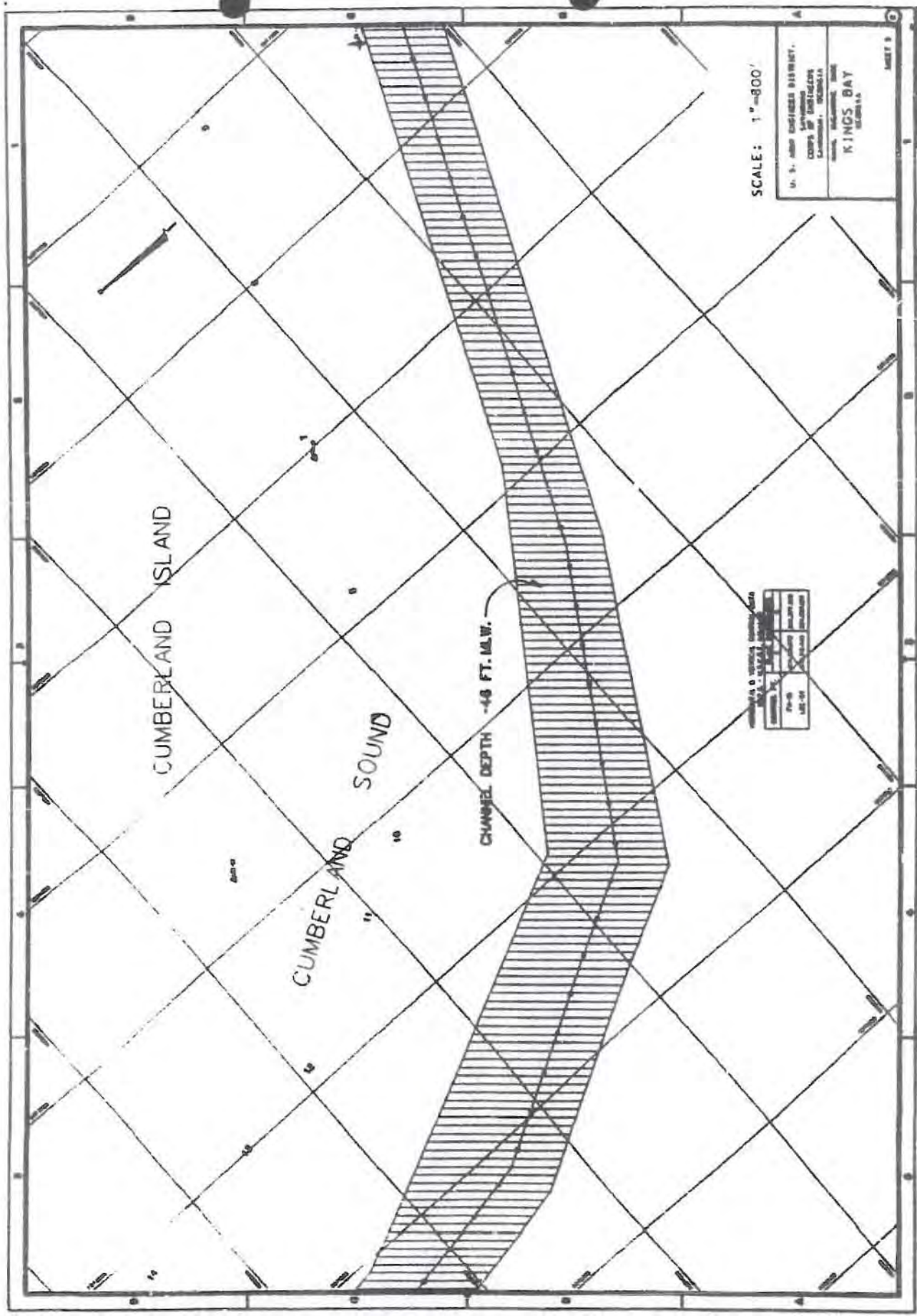
U.S. NAVY ENGINEERING DISTRICT  
NAVY ENGINEERING DISTRICT  
KINGS BAY  
GEORGIA

DATE	1952-11-11
BY	W. J. C. C. C.
CHECKED BY	W. J. C. C. C.
APPROVED BY	W. J. C. C. C.

SHEET 7







SCALE: 1"=800'

U. S. NAVAL ENGINEER DISTRICT, OFFICE OF THE DISTRICT ENGINEER, KING'S BAY, ALASKA	
DATE: 10/1/50	NO. 10

REVISIONS TO CHART NO. 10, 10/1/50

NO.	DATE	DESCRIPTION
1	10/1/50	Original Issue

# CUMBERLAND ISLAND

WATERWAY & OFFICIAL CHARTER DATA

WATERWAY	OFFICIAL CHARTER DATA
1	1
2	2
3	3
4	4
5	5
6	6
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100	100

CHANNEL DEPTH -40 FT. M.L.W.

# CUMBERLAND SOUND

SCALE: 1"=800'

U. S. ARMY ENGINEER DISTRICT,  
 CAMP OF ENGINEERS  
 KINGS BAY  
 ALASKA

SHEET 14



**MANATEE HABITAT**



**CONSTRUCTION AREA  
1-800-2-SAVE ME**

**CAUTION**



**MANATEE AREA  
1-800-2-SAVE ME**

Regulatory Branch

CERTIFICATION OF COMPLIANCE  
WITH  
DEPARTMENT OF THE ARMY PERMIT

PERMIT NUMBER: 200501790

PERMITTEE: King Bay Naval Submarine Base

Within 30 days of completion of the activity authorized by this permit, sign this certification and return it to the following address:

Commander  
US Army Engineer District, Savannah  
Attention: Regulatory Branch  
P.O. Box 889  
Savannah, Georgia 31402-0889

Please note that your permitted activity is subject to compliance inspection by an US Army Corps of Engineers' representative. If you fail to comply with the permit conditions it may be subject to suspension, modification, or revocation.

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