



This notice of authorization must be conspicuously displayed at the site of work.

United States Army Corps of Engineers

20 14

A permit to annually dredge 1,950,000 cys of sediment
at the Naval Submarine Base, Kings Bay

has been issued to United States Navy on July 9 20 14

Address of Permittee 1013 USS Tennessee Group,

Permit Number Kings Bay, GA 31547

SAS-2005-01790

[Signature]
District Commander



REPLY TO
ATTENTION OF:

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

CESAS-RD-C

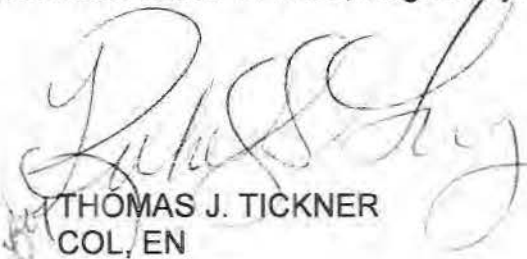
9 July 2014

MEMORANDUM FOR Commander, United States Navy, Naval Submarine Base, Kings Bay, Georgia 31547-2606

SUBJECT: Department of the Army Permit Number SAS-2005-01790

1. Enclosed you will find a signed copy of your Department of the Army Permit (File No. SAS-2005-01790). Please retain this copy for your files.
2. You will display the enclosed yellow Engineer Form 4336 in a conspicuous location at the site of work and have a complete copy of the permit with enclosures at the work site at all times.
3. IT SHALL NOT BE LAWFUL TO DEVIATE FROM THE PLANS EITHER BEFORE OR AFTER COMPLETION OF THE WORK, unless a plan reflecting the modification has previously been submitted to and approved by this office
4. Thank you in advance for completing our on-line Customer Survey Form located at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey. We value your comments and appreciate your taking the time to complete a survey each time you have interaction with our office.
5. If you have any questions, please call Mrs. Sarah E. Wise, Regulatory Specialist, Coastal Branch, at 912-652-5550.

Encl


THOMAS J. TICKNER
COL, EN
Commanding

DEPARTMENT OF THE ARMY PERMIT

PERMITTEE: Commanding Officer
United States Navy
Naval Submarine Base, Kings Bay
1063 USS Tennessee Avenue
Kings Bay, Georgia 31547-2606

PERMIT NUMBER: SAS-2005-01790

ISSUING OFFICE:

Savannah District
U.S. Army Corps of Engineers
100 West Oglethorpe Avenue
Savannah, Georgia 31401

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 U.S. 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 perform annual maintenance dredging of up to 1,950,000 cubic yards of material from the existing Kings Bay Naval Submarine channel. 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 15,000 feet of navigation channel in the Saint Marys River. Material dredged from Kings Bay between stations 37+504 and 48+242 will be dredged by cutter suction dredge only. Material dredged within the remaining portions of the Inner channel and the entrance channel will be excavated by hydraulic dredges, either cutter suction or hopper dredges. Clamshell dredging will occur only in the Transponder Removal Station Basin Trench located within the Inner channel. The dredged material placement is dependent on material characterization within the specified dredging areas. Dredged material may be placed in one or more existing confined disposal facilities (Big Crab Island, Mainside Disposal Area, Disposal Area 1 and Disposal Area 2). Dredge material may also be placed within the nearshore disposal area, one or more of the beach placement sites (South Jetty, Fort Clinch, North Beach or South Beach) or the Ocean Dredged Material Disposal Site (ODMDS). The placement of material in the nearshore, beach placement and ODMDS will be



authorized by the Jacksonville District permit SAJ-1992-01854. The maximum authorized 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 Lower Low Water (MLLW).

Location	Station	Depth at MLLW
Kings Bay	48+242 to 39+600	-49'
Kings Bay & Upper Cumberland Sound	39+600 to 15+348.5	-46'
Lower Cumberland Sound	15+348.5 to 00+000	-47'
Entrance Channel, Cut 1N, Georgia portions	0+00 to 151+89	-51'

b. North Turning Basin, Georgia portions. The North Turning Basin is located between Station 12+50 to 71+00 along Cut 1N and will be maintained at the authorized depth of -47' MLLW, including 2' of allowable overdepth.

c. North Settling Basin, Georgia portions. The North Settling Basin within jurisdiction is located between Station 119+00 to 151+89 along Cut 1N and will be maintained at the authorized depth of -51' MLLW including 2' of allowable overdepth.

d. Berths and Other Facilities within the Inner Channel. The following depths include 2' of allowable overdredge depth:

Location	Station	Depth at MLLW
Dry Dock Caisson Gate Mooring Facility	48+220	-48'
Dry Dock Caisson Gate Sill	48+220	-49'
Transponder Removal Station Basin Trench	47+270 to 47+545	-55'
Refit Wharves	45+900 to 48+220	-49'
Small Boat Basin	43+530 to 45+250	-26'
Explosive Handling Wharves	41+300 to 43+350	-49'
Site Six Operational Area South w/Warrior Wharf	34+340 to 36+585	-47'
Site Six ARDM Operating Basin	34+340 to 36+585	-56'
Site Six Operational Area North w/Tender Area	36+850 to 38+800	-41'
Magnetic Silencing Facility (MSF) Operating Basin	34+350 to 30+500	-46'
MSF Boat Ramp Channel	32+450 to 31+600	-14'

e. Upper Turning Basin. The Upper Turning Basin is located between Station 48+220 to Station 45+900 and will be maintained at the authorized depth of -49' MLLW plus 2' of allowable overdredge depth.

PROJECT LOCATION: The SAS project site is located in the existing navigation channels within the State of Georgia at the Kings Bay Naval Submarine Base, approximately 3 miles north of Saint Marys, in Camden County, Georgia.

PERMIT CONDITIONS:

General Conditions.

1. The time limit for completing the work authorized by this Individual Permit ends on June 18, 2024. 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.

7. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein

authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States because of any such removal or alteration.

Special Conditions.

1. A copy of this permit, including the approved drawings and plans; special conditions; and any amendments shall be maintained at the work site whenever work is being performed. The permittee(s) shall assure that all contractors, subcontractors, and other personnel performing the permitted work are fully aware of the permit's terms and conditions.

2. The permittee shall notify the issuing office, in writing (electronic facsimile is acceptable), at least ten days in advance of their intent to commence work in waters of the United States for the permitted activity. The permittee shall also notify this office, in writing, 30 days after this project is completed using the enclosed Certification of Compliance Form.

3. All work within the State of Georgia will be performed in accordance with the following attached plans and drawings which are incorporated in and made part of the permit entitled "Naval Submarine Base Kings Bay, Nassau County, Florida and Camden County, Georgia, Entrance and Inner Channel Maintenance Dredging Projects, Section 10/404 Permits Plates, Project Location Map" (Plate G-01 – G-07) and "Naval Submarine Base Kings Bay, Nassau County, Florida and Camden County, Georgia, Entrance and Inner Channel Maintenance Dredging Projects Section 10/404 Permit Plates, Dredging Plan", (Plate C-01 –C35).

4. That use of the permitted activity must not interfere with the public's right to free navigation within navigable waters of the United States.

5. That prior to deposition of any material into the disposal area, the permittee shall inspect all berms, embankments and weirs to determine if they are in satisfactory condition.

6. That any breeches in the disposal area dikes shall be repaired prior to discharge of any dredged material and the dikes and weirs shall be maintained in good condition throughout the period of discharge and until the dredged material has settled and stabilized.

7. The permittee shall comply with all applicable conditions that are referenced in the attached Georgia Department of Natural Resources, Environmental Protection Division (Georgia EPD) 401 WQ Certification.

8. This permit does not authorize the interference 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 or result from existing or future operations undertaken by the United States in the public interest.

9. All work conducted under this permit within the State of Georgia 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, (Latest Edition)," published by the Georgia Soil and Water Conservation Commission or their equivalent, will aid in achieving compliance with the aforementioned minimal requirements. For any work occurring with the State of Florida, please refer to Department of the Army Section 10/404/103 Permit SAJ-1992-01854(SP-BAL), Kings Bay Entrance Channel Maintenance Dredging. The permittee acknowledges that authorization for transport of dredged material to the Fernandina Beach Ocean Dredge Material Disposal Site is not valid until concurrency is granted from the U.S. Environmental Protection Agency.

10. If you or your contractors discover any federally listed threatened or endangered species and/or their habitat while accomplishing the activities authorized by this permit, you must immediately STOP work in the area and notify the issuing office of what you have found. We will initiate the Federal and state coordination required to determine if the species and/or habitat warrant further consultation with the US Fish and Wildlife Service.

11. Regarding the present and future protection of the West Indian Manatees that have the potential to be within the project vicinity, the following conditions must be fully implemented by the applicant:

a. 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.

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 the construction area. All vessels will follow routes of deep water whenever possible.

d. 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.

e. 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.

f. The permittee agrees that any collision with a manatee shall be reported immediately to the U.S. Army Corps of Engineers (912-652-5347), the U.S. 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 U.S. Fish and Wildlife Service and the lead Federal agency.

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

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

i. All temporary construction materials will be removed upon completion of the work, and salt marsh areas will be restored. No construction debris or trash will be discarded in the water.

j. The permittee agrees to 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" shall be installed and maintained at prominent locations within the construction area/docking facility prior to the initiation of construction. One temporary sign will be located prominently adjacent to the construction permit and, if required, a second temporary construction sign will be installed in a location prominently visible to water related construction crews. Also, a minimum of two "Caution - Manatee Area 1-800-2 SAVE ME" temporary construction signs should be placed facing upstream and downstream of the project site. Georgia DNR (912-264-7218) can assist in correct sign design and placement. Temporary construction signs will be removed by the permittee upon completion of construction.

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) and Section 404 of the Clean Water Act (33 U.S.C. 1344).

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 consider 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)
SHAWN A. FOLLUM
CDR, CEC, USN

20 June 2014

(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:
Thomas J. Tickner
Colonel, US Army
Commanding

7/9/2014

(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)

(DATE)

Regulatory Division

CERTIFICATION OF COMPLIANCE
WITH
DEPARTMENT OF THE ARMY
SAS-2005-01790

PERMIT FILE NUMBER: SAS-2005-01790

PERMITTEE ADDRESS: Commanding Officer, United States Navy, Naval Submarine Base, Kings Bay, 1063 USS Tennessee Avenue, Kings Bay, Georgia 31547-2606.

LOCATION OF WORK: The SAS project site is located in the existing navigation channels within the State of Georgia at the Kings Bay Naval Submarine Base, approximately 3 miles north of Saint Marys, in Camden County, Georgia.

PROJECT DESCRIPTION: To perform annual maintenance dredging of up to 1,950,000 cubic yards of material from the existing Kings Bay Naval Submarine channel. 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 15,000 feet of navigation channel in the Saint Marys River. Material dredged from Kings Bay between stations 37+504 and 48+242 will be dredged by cutter suction dredge only. Material dredged within the remaining portions of the Inner channel and the entrance channel will be excavated by hydraulic dredges, either cutter suction or hopper dredges. Clamshell dredging will occur only in the Transponder Removal Station Basin Trench located within the Inner channel. The dredged material placement is dependent on material characterization within the specified dredging areas. Dredged material may be placed in one or more existing confined disposal facilities (Big Crab Island, Mainside Disposal Area, Disposal Area 1 and Disposal Area 2). Dredge material may also be placed within the nearshore disposal area, one or more of the beach placement sites (South Jetty, Fort Clinch, North Beach or South Beach) or the Ocean Dredged Material Disposal Site (ODMDS).

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

DATE WORK IN WATERS OF US COMPLETED:

COMPENSATORY MITIGATION REQUIRED: N/A

DATE MITIGATION COMPLETED OR PURCHASED (include bank name):

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

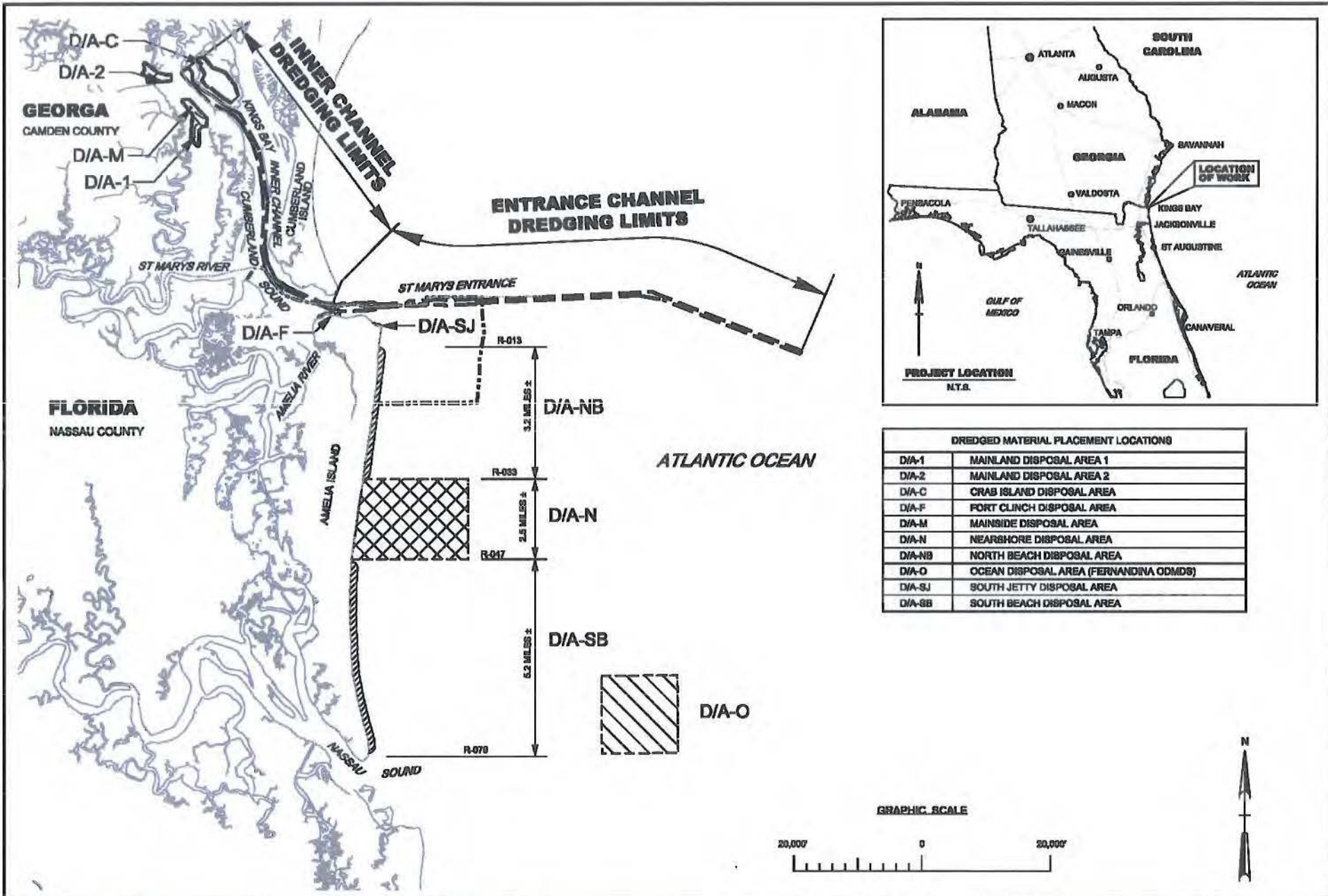
Commander
U.S. Army Engineer District, Savannah
Attention: Regulatory Division
100 West Oglethorpe Avenue
Savannah, Georgia 31401

Please note that your permitted activity is subject to compliance inspection by an U.S. 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 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



<p>US Army Corps of Engineers Jacksonville District</p>	<p>DEPARTMENT OF ARMY PERMIT PLATE NOT FOR CONSTRUCTION</p>	<p>Drawn by: JWL</p> <p>Checked by: DBV / MR2</p> <p>Clad by: AET</p> <p>Dated: FEBRUARY 2013</p>	<p>NAVAL SUBMARINE BASE KINGS BAY NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS SECTION 10/404 PERMIT PLATES PROJECT LOCATION MAP</p>	<p>PLATE</p> <p>G-01</p>
	<p>DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA</p>			

INDEX TO PLATES	
DWG NO	TITLE
GENERAL	
G-01	PROJECT LOCATION MAP
G-02	INDEX TO PLATES, LEGEND, ABBREVIATIONS & GENERAL NOTES
G-03	AREA OF CHANNEL BY STATE BOUNDARIES
G-04	CHANNEL AND DREDGING AREAS
G-05	CHANNEL AND DREDGING AREAS
G-06	KEY MAP - DREDGING & UPLAND DISPOSAL AREAS
G-07	KEY MAP - DISPOSAL AREAS
CIVIL - DREDGING	
C-01 thru C-19	DREDGING PLANS
C-20 thru C-22	TYPICAL DREDGING SECTIONS
C-23 thru C-25	DREDGING SECTIONS
CIVIL - DISPOSAL	
C-26	UPLAND DISPOSAL PLAN - D/A-C, D/A-M, D/A-1 & D/A-2
C-27	FT. CLINCH DISPOSAL AREA (D/A-F)
C-28	SOUTH JETTY DISPOSAL AREA (D/A-SJ)
C-29	NORTH BEACH DISPOSAL AREA (D/A-NB)
C-30	NEARSHORE DISPOSAL AREA (D/A-N)
C-31	SOUTH BEACH DISPOSAL AREA (D/A-SB)
C-32	OCEAN DISPOSAL AREA (D/A-O)
C-33 thru C-35	BEACH DISPOSAL SECTIONS

GENERAL NOTES:

- FOR CHANNEL, NEARSHORE, OCEAN DISPOSAL SHEETS, PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF GEORGIA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
- FOR BEACH FILL PLANE SHEETS, PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
- THE CHANNEL IS SPLIT AT CUT-1N (STA. 000+00) OF KINGS BAY ENTRANCE CHANNEL (KBEC) AND RANGE-A (STA. 00+000) OF KINGS BAY INNER CHANNEL (KBIC).
- KBIC CUTS ARE KNOWN AS RANGES BEGINNING WITH THE RANGE ALPHA AS SHOWN IN NAVIGATION CHART #11603.
- THE FORT CLINCH AND SOUTH JETTY BEACH FILL DESIGN AND EXISTING CONTOURS WAS DEVELOPED FROM SURVEY COMPLETED ON MAY 29, 2009.
- THE NEARSHORE CONTOURS WERE DEVELOPED FROM SURVEY COMPLETED ON MARCH 18, 2012.

LEGEND	
	PROJECT CHANNEL
	DREDGING AREAS
	SIGNIFICANT CULTURAL RESOURCE
	ELEVATION AND LOCATION
	FORT CLINCH AQUATIC PRESERVE BOUNDARY
	FEDERAL/STATE BOUNDARY
	VIBROCURE SAMPLE DESIGNATION AND LOCATION
	SURFICIAL/GRAB SAMPLE DESIGNATION AND LOCATION
	FDEP RANGE MONUMENT.
	OCEAN DISPOSAL AREA (D/A-O)
	BEACH DISPOSAL AREA (D/A)
	BEACH FILL
	DREDGED MATERIAL MANAGEMENT AREA (DMMA)

- THE NORTH BEACH FILL DESIGN AND EXISTING CONTOURS WERE DEVELOPED FROM SURVEY COMPLETED ON DECEMBER 31, 2008.
- THE OCEAN DISPOSAL EXISTING CONTOURS WERE DEVELOPED FROM SURVEY COMPLETED ON APRIL 14, 2011.
- KBEC EXISTING CONTOURS AND CROSS SECTIONS WERE DEVELOPED FROM SURVEY COMPLETED ON SEPTEMBER 28, 2012.
- KBIC EXISTING CONTOURS AND CROSS SECTIONS WERE DEVELOPED FROM SURVEY COMPLETED ON SEPTEMBER 21, 2012.
- CHANNEL SOUNDINGS SHOWN AREA IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) OF THE 1983-2001 TIDAL EPOCH.
- UPLAND BEACH SURVEYS SHOWN ARE IN FEET AND TENTHS AND REFER TO NAVD83.

ABBREVIATIONS	
APPROX.	APPROXIMATE
CL	CENTERLINE
D/A	DISPOSAL AREA
D/A-1	DISPOSAL AREA 1
D/A-2	DISPOSAL AREA 2
D/A-C	CRAB ISLAND DISPOSAL AREA
D/A-F	FORT CLINCH DISPOSAL AREA
D/A-M	MAINSIDE DISPOSAL AREA
D/A-N	NEARSHORE DISPOSAL AREA
D/A-NB	NORTH BEACH DISPOSAL AREA
D/A-O	OCEAN DISPOSAL AREA (FERNANDINA ODMDS)
D/A-SB	SOUTH BEACH DISPOSAL AREA
D/A-SJ	SOUTH JETTY DISPOSAL AREA
DWG.	DRAWING
DMMA	DREDGED MATERIAL MANAGEMENT AREA
EL. / ELEV.	ELEVATION (FEET)
FDEP.	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
HORZ.	HORIZONTAL
KBEC.	KINGS BAY ENTRANCE CHANNEL
KBIC.	KINGS BAY INNER CHANNEL
MLLW.	MEAN LOWER LOW WATER
NAVD83.	NORTH AMERICAN VERTICAL DATUM OF 1983
NAD83.	NORTH AMERICAN DATUM OF 1983
NO.	NUMBER
N.T.S.	NOT TO SCALE
ODMDS.	OFFSHORE DREDGED MATERIAL DISPOSAL SITE
P.I.	POINT OF INTERSECTION
RGE.	RANGE
STA.	STATION
VERT.	VERTICAL

- ALL CHANNEL SOUNDINGS AND UPLAND SURVEYS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
- REFER TO PLATE G-03 FOR OVERALL MATERIAL PLACEMENT WITHIN CHANNEL REACHES.
- REFER TO PLATE G-06 FOR SPECIFIC LOCATION OF DREDGING PLANS.
- REFER TO PLATE G-07 FOR SPECIFIC LOCATION OF DISPOSAL PLANS.
- DREDGING DEPTHS SHOWN IN CIVIL SHEETS INCLUDE REQUIRED DEPTH & 2 FT ALLOWABLE OVERDEPTH.
- THE JACKSONVILLE DISTRICT (8A) SECTION 103 PERMIT LIMITS FOR THE ODMDS IS STA. 19+000. THE CURRENT EXPIRATION DATE FOR THIS PERMIT IS 23 AUGUST 2016.
- THE TR8 BASIN DREDGE DEPTH IS 88' MLLW AND MUST BE COMPLETED WITH A CLAM SHELL DREDGE.



US Army Corps of Engineers
Jacksonville District

DEPARTMENT OF ARMY PERMIT PLATE
NOT FOR CONSTRUCTION

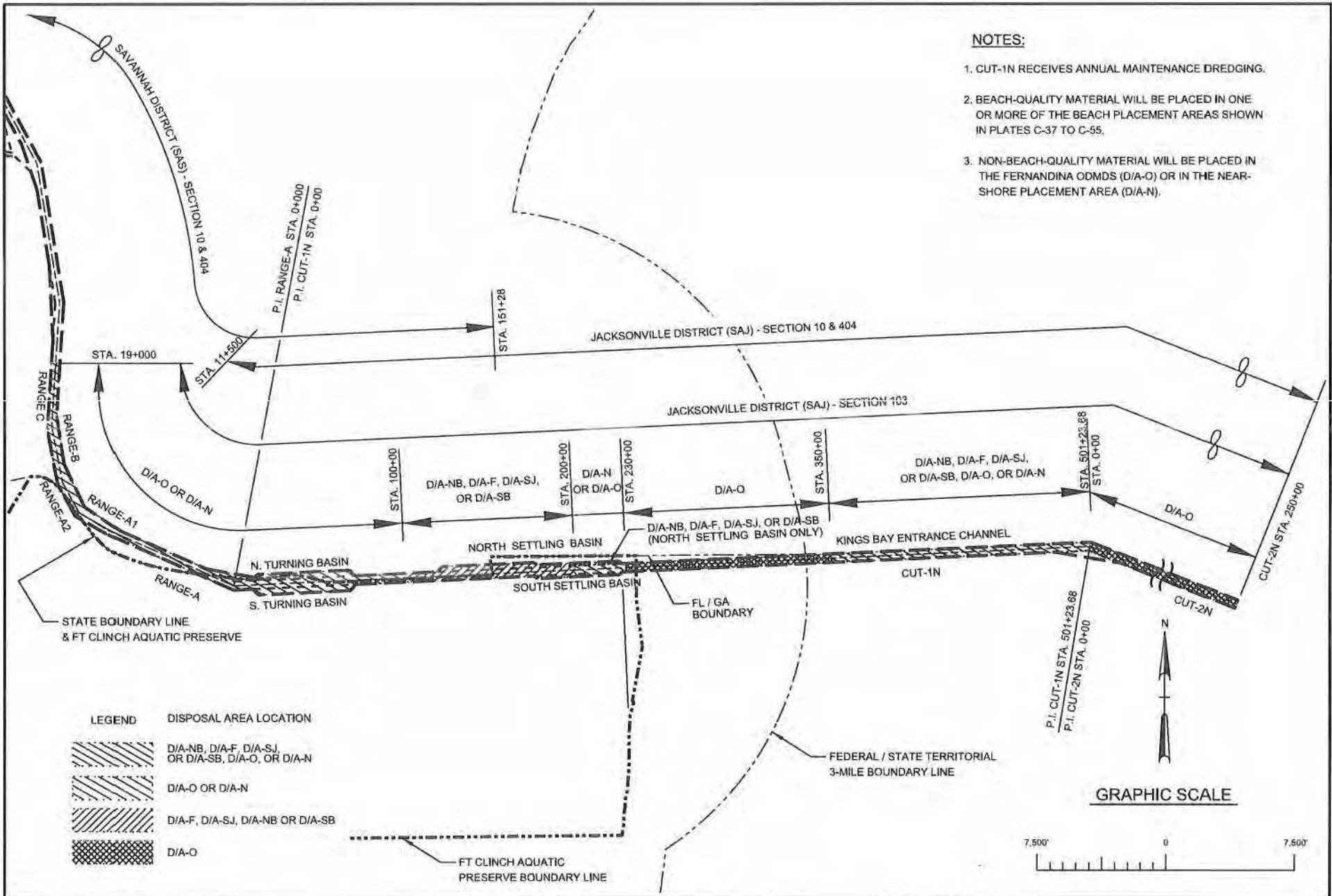
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Des by: JWL
Dwn by: DBV / MR2
Clad by: AET
Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
INDEX TO PLATES, LEGEND, ABBREVIATIONS & GENERAL NOTES

PLATE

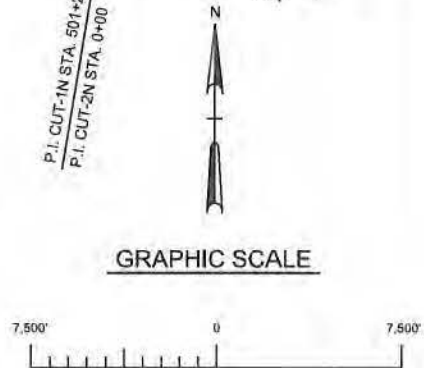
G-02



NOTES:

1. CUT-1N RECEIVES ANNUAL MAINTENANCE DREDGING.
2. BEACH-QUALITY MATERIAL WILL BE PLACED IN ONE OR MORE OF THE BEACH PLACEMENT AREAS SHOWN IN PLATES C-37 TO C-55.
3. NON-BEACH-QUALITY MATERIAL WILL BE PLACED IN THE FERNANDINA ODMDS (D/A-O) OR IN THE NEAR-SHORE PLACEMENT AREA (D/A-N).

LEGEND	DISPOSAL AREA LOCATION
	D/A-NB, D/A-F, D/A-SJ, OR D/A-SB, D/A-O, OR D/A-N
	D/A-O OR D/A-N
	D/A-F, D/A-SJ, D/A-NB OR D/A-SB
	D/A-O



WQC PERMIT PLATE
NOT FOR CONSTRUCTION

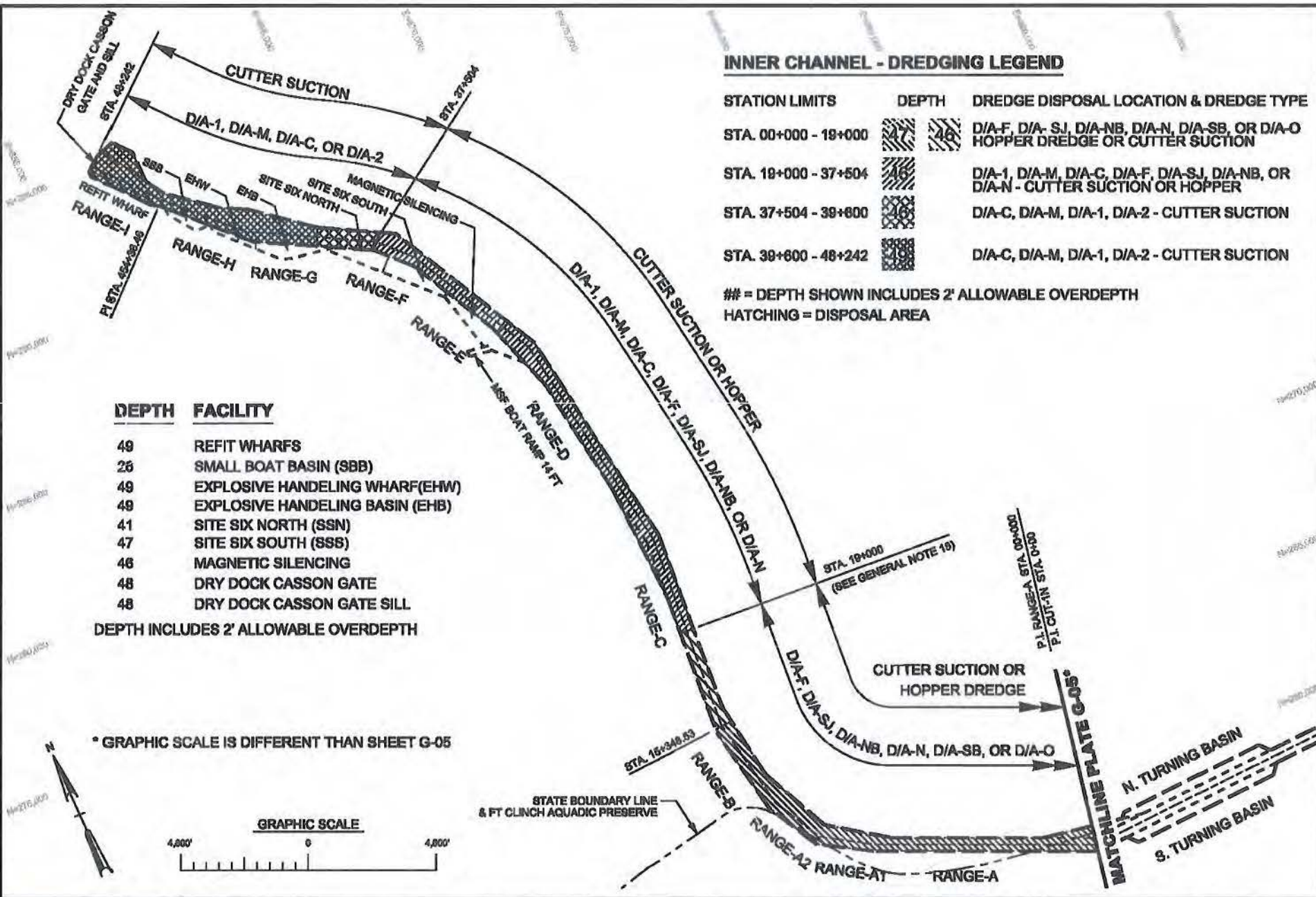
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Desn by:
JWL
Dwn by:
MRZ
Ckd by:
AET
Dated:
FEBRUARY 2013

KINGS BAY, GEORGIA AND FLORIDA
MAINTENANCE DREDGING, 46-FOOT PROJECT, ENTRANCE CHANNEL
WQC PERMIT PLATE

CHANNEL AND DREDGING AREAS

PLATE
G-03



INNER CHANNEL - DREDGING LEGEND

STATION LIMITS	DEPTH	DREDGE DISPOSAL LOCATION & DREDGE TYPE
STA. 00+000 - 19+000	47, 46	D/A-F, D/A-SJ, D/A-NB, D/A-N, D/A-SB, OR D/A-O HOPPER DREDGE OR CUTTER SUCTION
STA. 19+000 - 37+504	46	D/A-1, D/A-M, D/A-C, D/A-F, D/A-SJ, D/A-NB, OR D/A-N - CUTTER SUCTION OR HOPPER
STA. 37+504 - 39+800	46	D/A-C, D/A-M, D/A-1, D/A-2 - CUTTER SUCTION
STA. 39+800 - 48+242	49	D/A-C, D/A-M, D/A-1, D/A-2 - CUTTER SUCTION

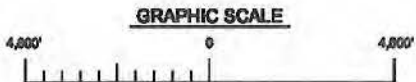
= DEPTH SHOWN INCLUDES 2' ALLOWABLE OVERDEPTH
 HATCHING = DISPOSAL AREA

DEPTH FACILITY

49	REFIT WHARFS
26	SMALL BOAT BASIN (SBB)
49	EXPLOSIVE HANDELING WHARF(EHW)
49	EXPLOSIVE HANDELING BASIN (EHB)
41	SITE SIX NORTH (SSN)
47	SITE SIX SOUTH (SSS)
46	MAGNETIC SILENCING
48	DRY DOCK CASSON GATE
48	DRY DOCK CASSON GATE SILL

DEPTH INCLUDES 2' ALLOWABLE OVERDEPTH

* GRAPHIC SCALE IS DIFFERENT THAN SHEET G-05



STATE BOUNDARY LINE & FT CLINCH AQUADIC PRESERVE



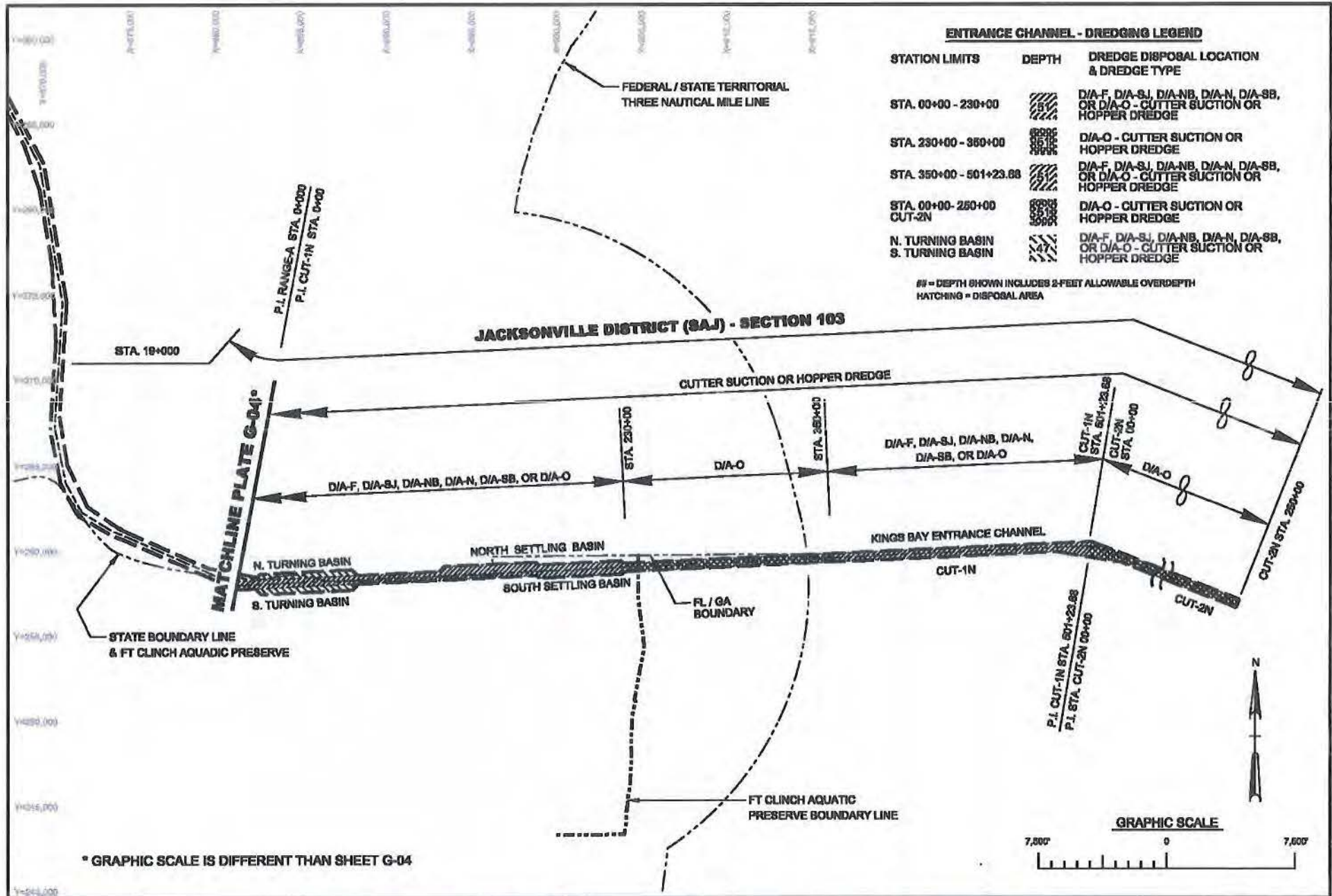
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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Des by: JWL
 Drawn by: DBV / MR2
 Cld by: AET
 Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 CHANNEL AND DREDGEING AREAS

PLATE
G-04

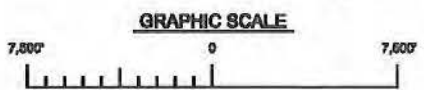


ENTRANCE CHANNEL - DREDGING LEGEND

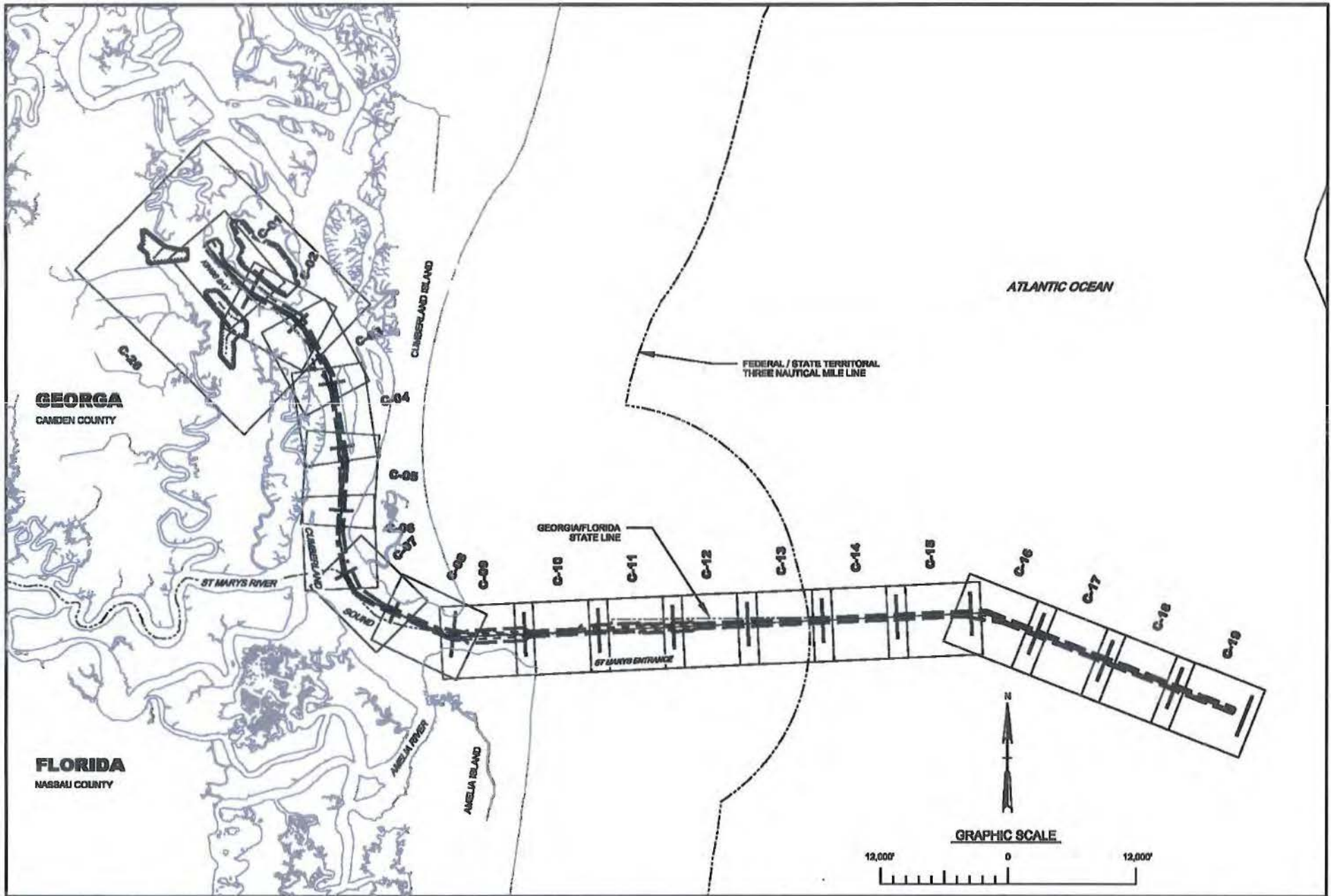
STATION LIMITS	DEPTH	DREDGE DISPOSAL LOCATION & DREDGE TYPE
STA. 00+00 - 230+00	5' 1'	D/A-F, D/A-SJ, D/A-NB, D/A-N, D/A-SB, OR D/A-O - CUTTER SUCTION OR HOPPER DREDGE
STA. 230+00 - 380+00	5' 0'	D/A-O - CUTTER SUCTION OR HOPPER DREDGE
STA. 350+00 - 501+23.88	5' 1'	D/A-F, D/A-SJ, D/A-NB, D/A-N, D/A-SB, OR D/A-O - CUTTER SUCTION OR HOPPER DREDGE
STA. 00+00 - 250+00 CUT-2N	5' 0'	D/A-O - CUTTER SUCTION OR HOPPER DREDGE
N. TURNING BASIN S. TURNING BASIN	2' 7'	D/A-F, D/A-SJ, D/A-NB, D/A-N, D/A-SB, OR D/A-O - CUTTER SUCTION OR HOPPER DREDGE

= DEPTH SHOWN INCLUDES 2-FOOT ALLOWABLE OVERDEPTH
HATCHING = DISPOSAL AREA

* GRAPHIC SCALE IS DIFFERENT THAN SHEET G-04



 US Army Corps of Engineers Jacksonville District	DEPARTMENT OF ARMY PERMIT PLATE NOT FOR CONSTRUCTION	Des by: JWL Des by: DBV / MR2 Cld by: AET Dated: FEBRUARY 2013	NAVAL SUBMARINE BASE KINGS BAY NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS SECTION 10/404 PERMIT PLATES CHANNEL AND DREDGING AREAS	PLATE G-05
	DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA			



US Army Corps
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Jacksonville District

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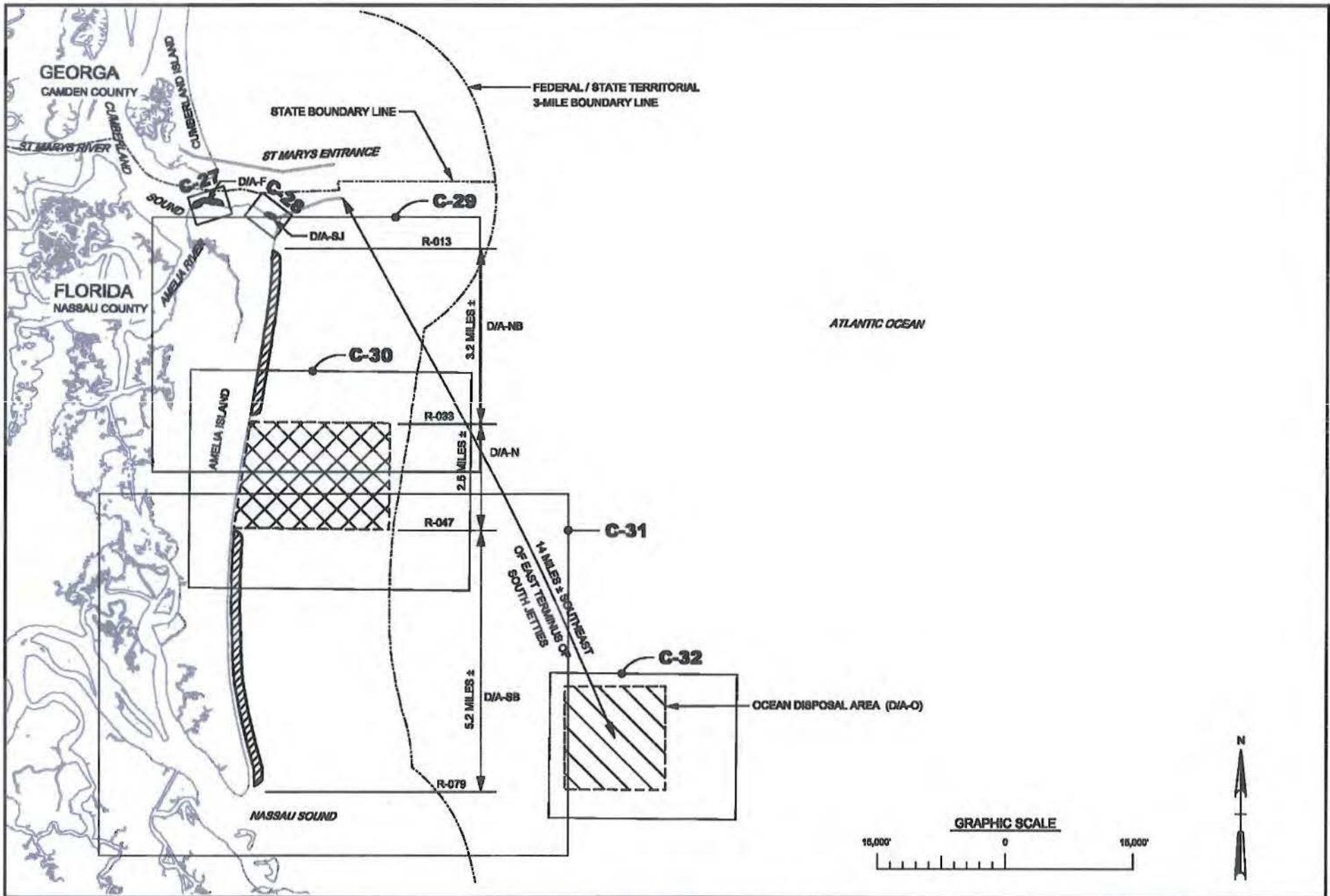
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Des by:
JWL
Dwn by:
DBV / MR2
Cld by:
AET
Dated:
FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
KEY MAP - DREDGING & UPLAND DISPOSAL AREAS

PLATE

G-06



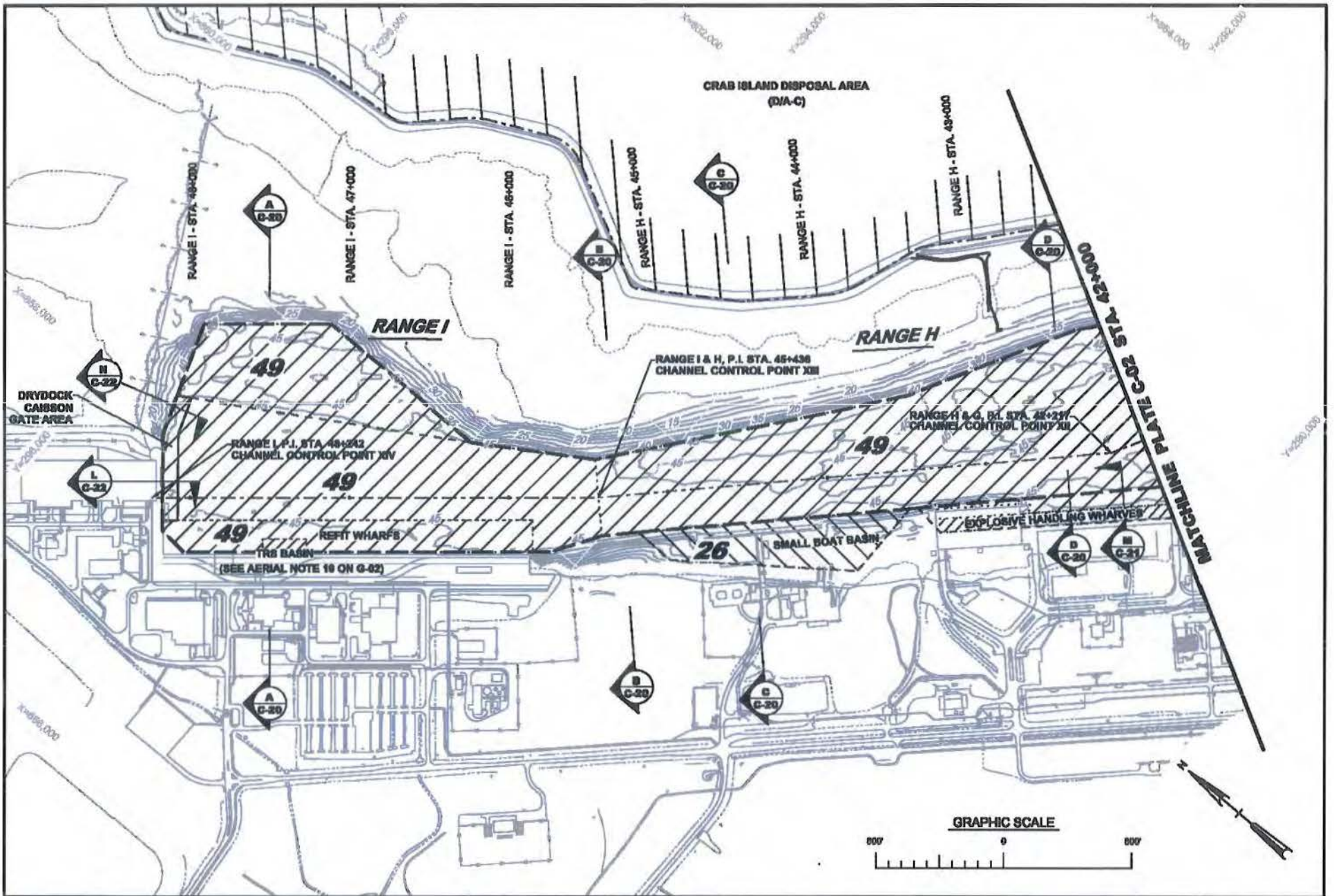
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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Des by: JWL
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Cltd by: AET
Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
KEY MAP - DISPOSAL AREAS

PLATE
G-07



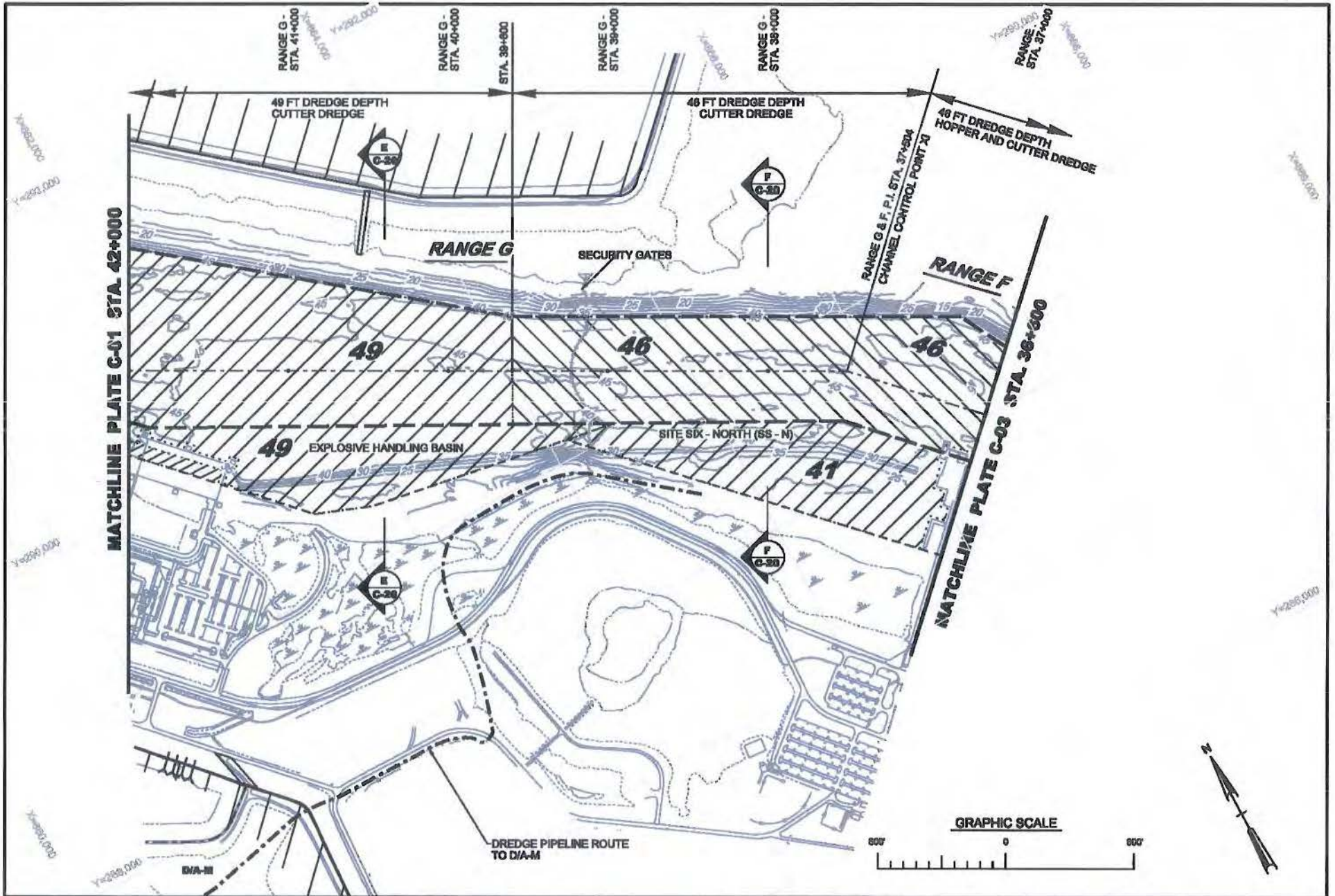
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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Des by: JWL
 Drawn by: DRV / MR2
 Checked by: AET
 Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 DREDGING PLAN

PLATE
C-01



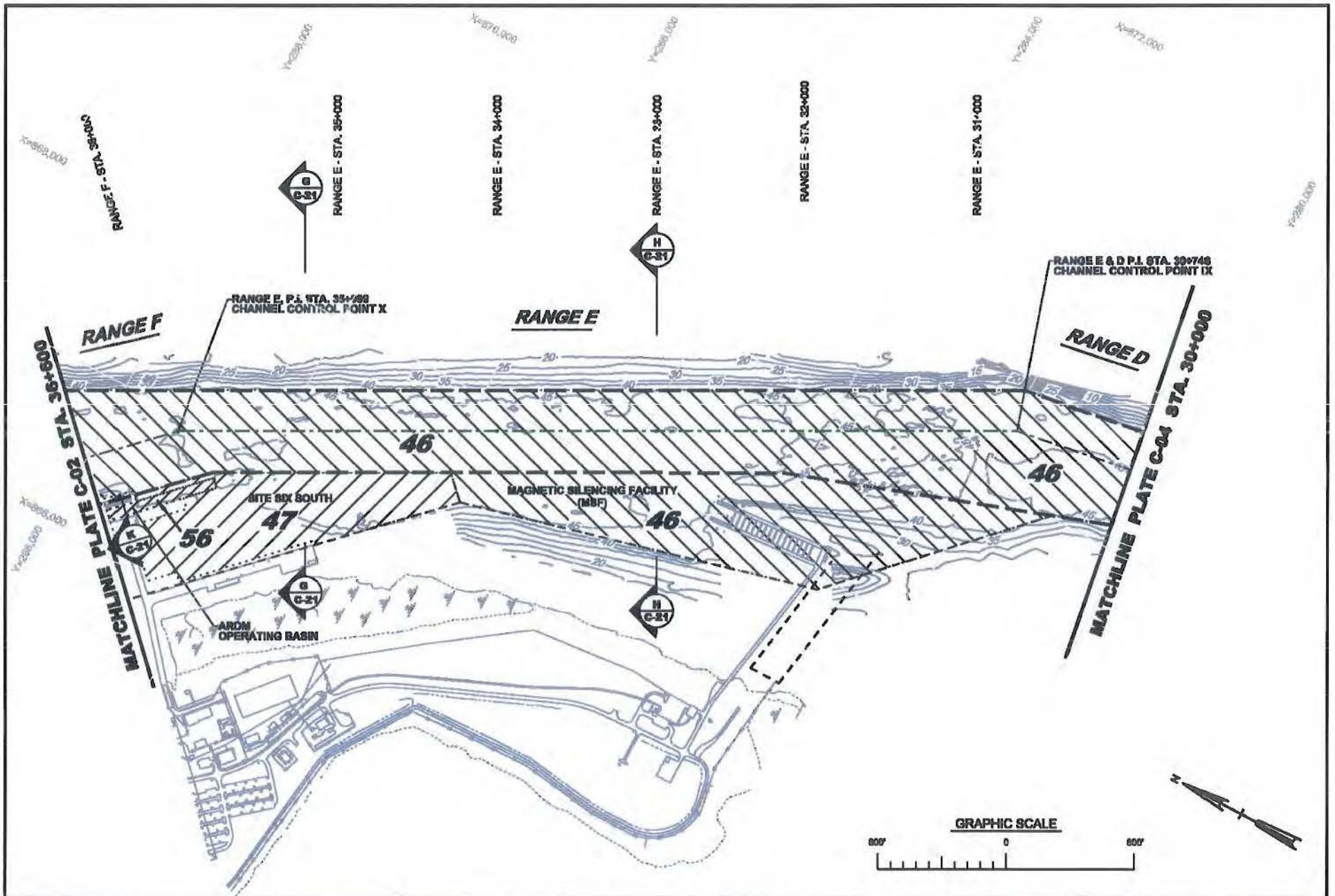
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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

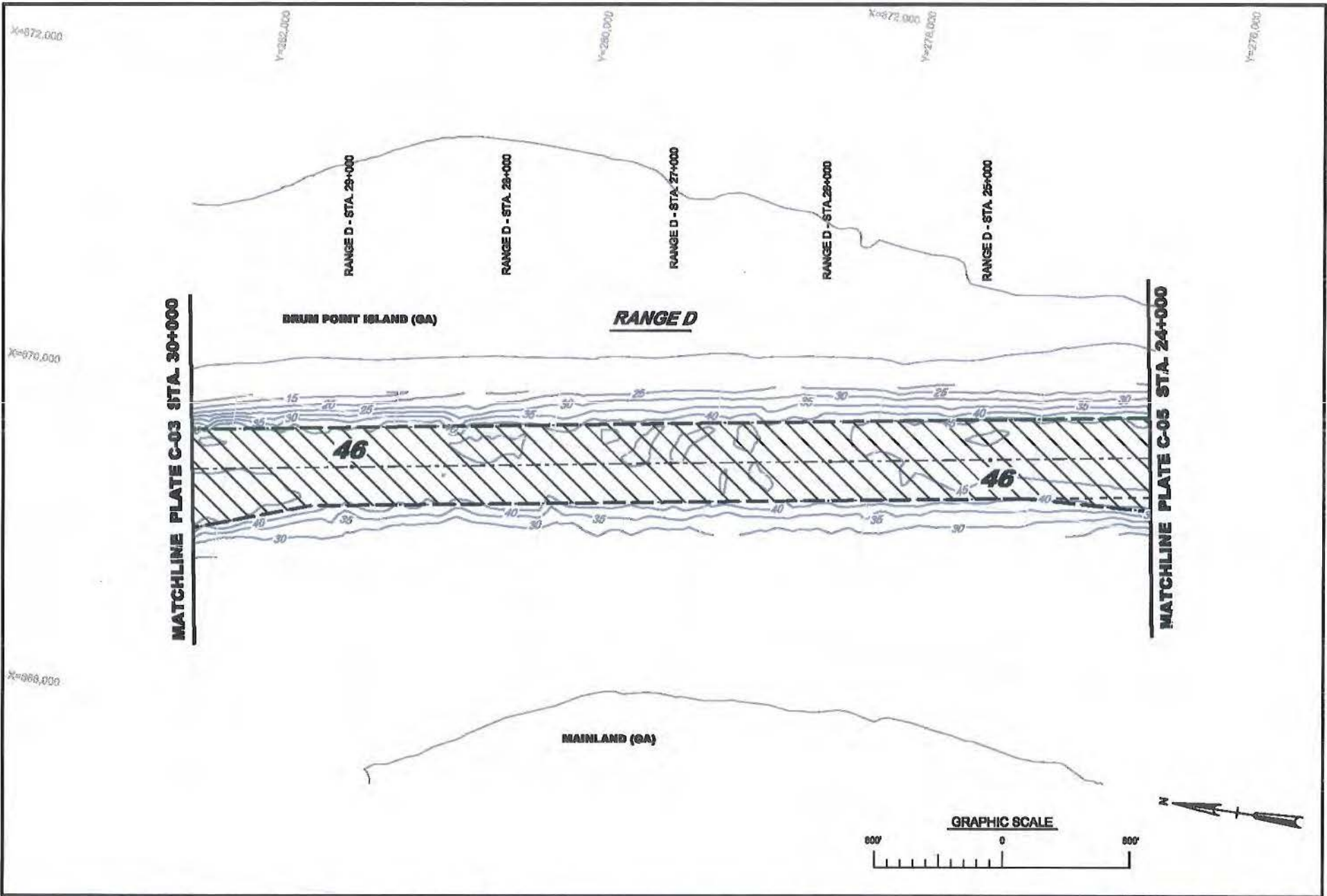
Des by: JWL
 Des by: DRV / MR2
 Cld by: AET
 Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 DREDGING PLAN

PLATE
C-02



 US Army Corps of Engineers Jacksonville District	DEPARTMENT OF ARMY PERMIT PLATE NOT FOR CONSTRUCTION	Desn by: JWJ	NAVAL SUBMARINE BASE KINGS BAY NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS SECTION 10/404 PERMIT PLATES DREDGING PLAN	PLATE C-03
	DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA	Dwn by: DRV / MR2		
	Cld by: AET			
	Dated: FEBRUARY 2013			



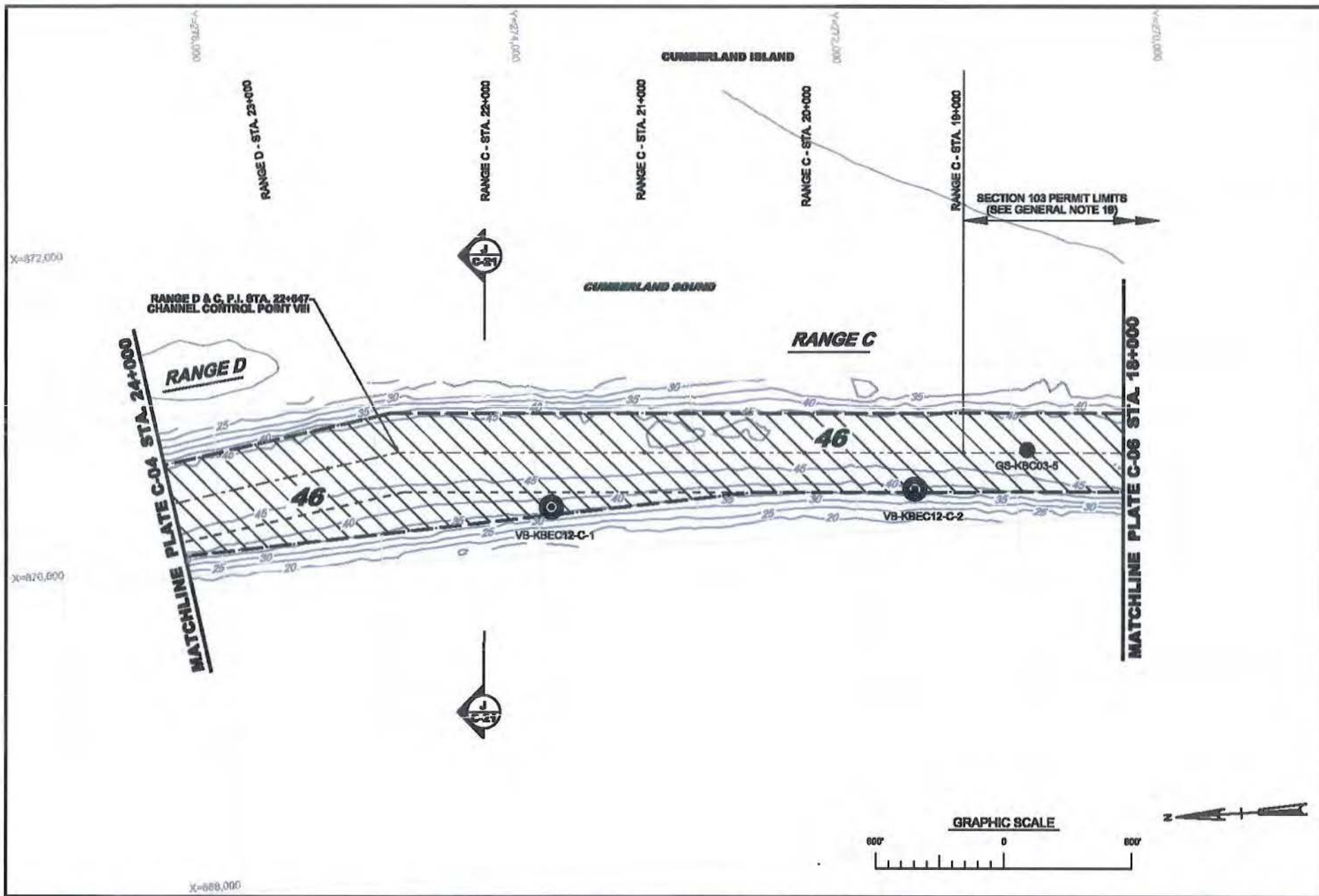
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NOT FOR CONSTRUCTION

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

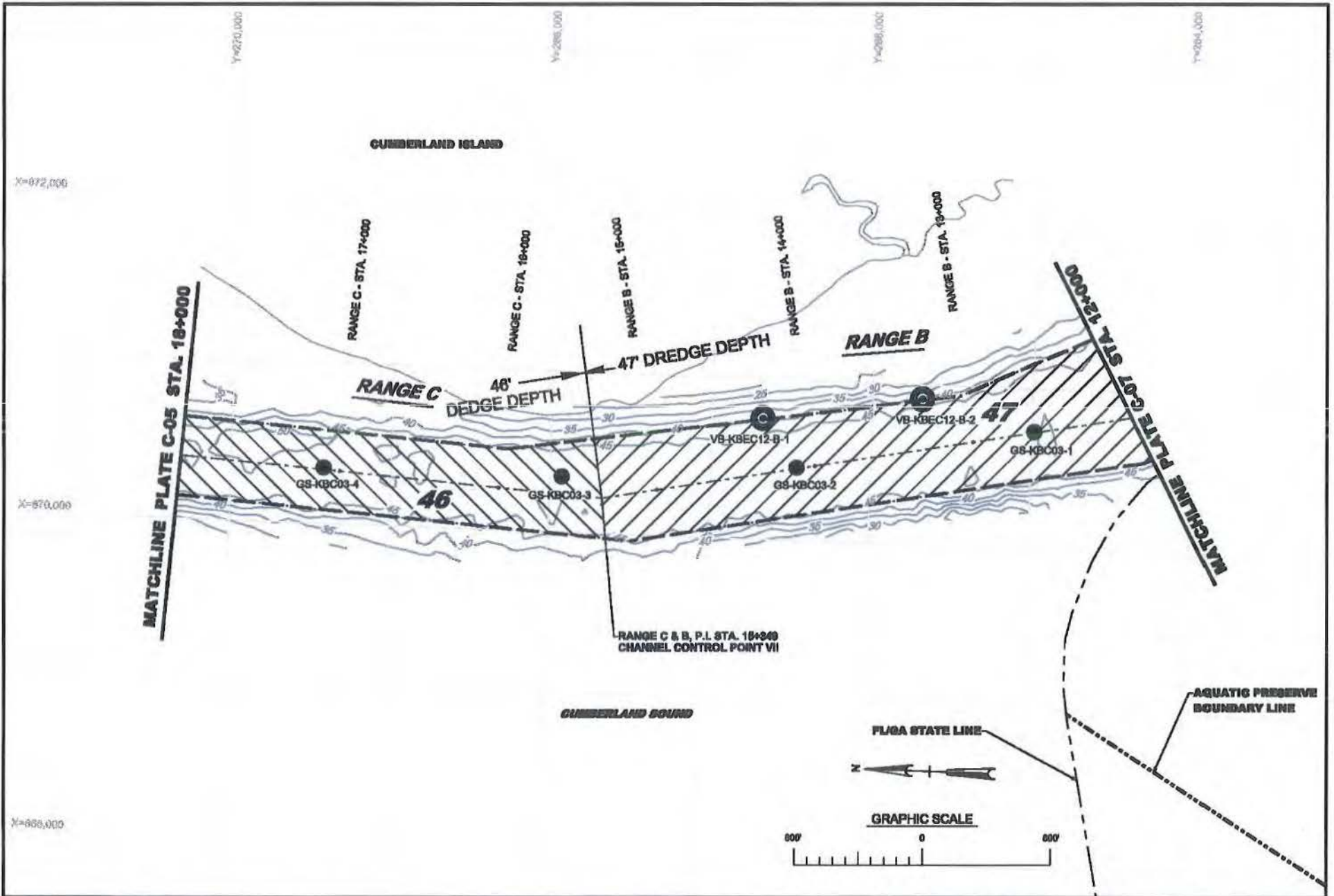
Des by: JWL
Dwn by: DRV / MR2
Clad by: AET
Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING PLAN

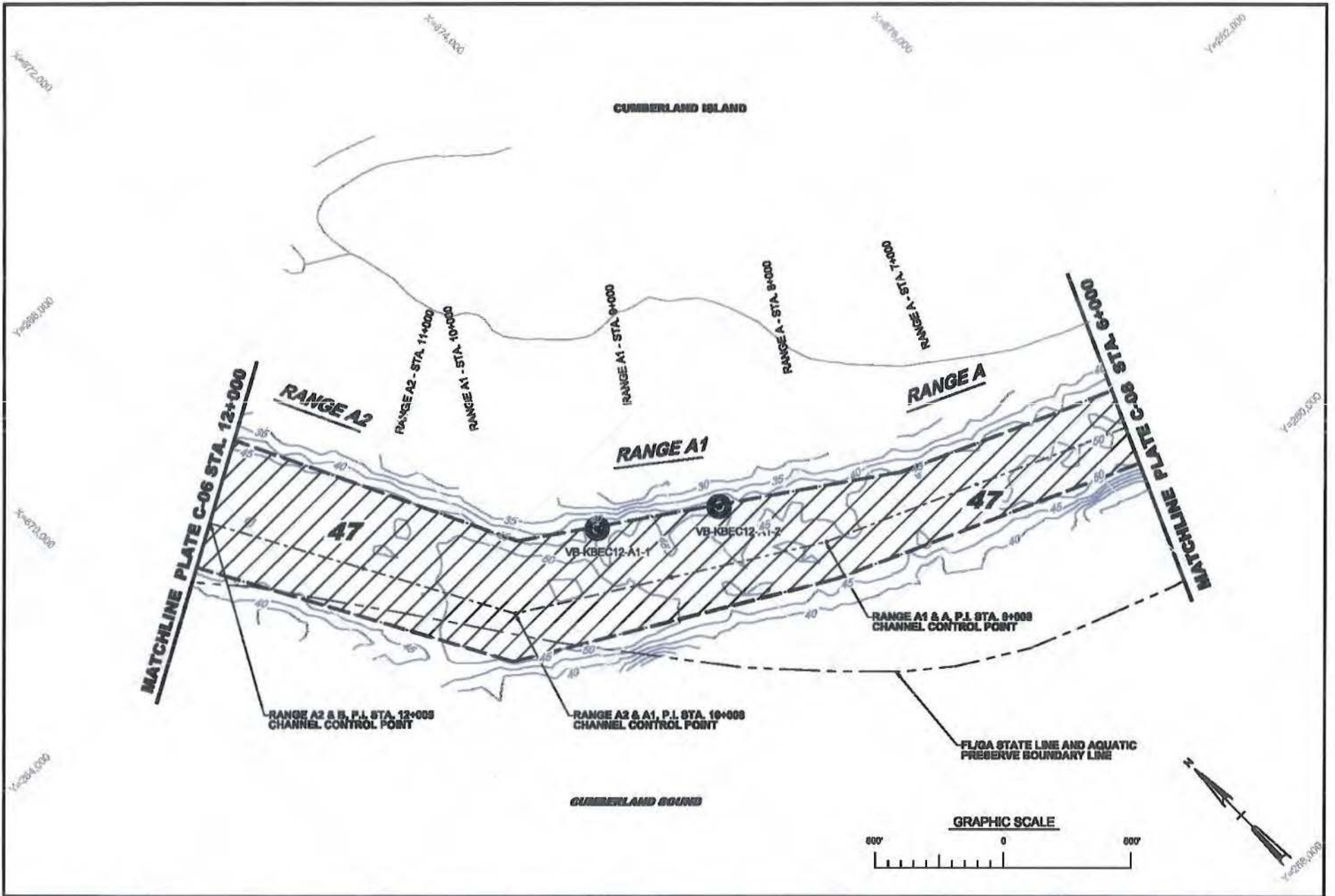
PLATE
C-04



 US Army Corps of Engineers Jacksonville District	DEPARTMENT OF ARMY PERMIT PLATE NOT FOR CONSTRUCTION	Des by: JWJ Dwn by: DBV / MR2 Cld by: AET Dated: FEBRUARY 2013	NAVAL SUBMARINE BASE KINGS BAY NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS SECTION 10/404 PERMIT PLATES DREDGING PLAN	PLATE C-05
	DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA			



<p>US Army Corps of Engineers Jacksonville District</p>	<p>DEPARTMENT OF ARMY PERMIT PLATE NOT FOR CONSTRUCTION</p>	<p>Des by: JWL</p>	<p>NAVAL SUBMARINE BASE KINGS BAY</p> <p>NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA</p> <p>ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS</p> <p>SECTION 10/404 PERMIT PLATES</p> <p>DREDGING PLAN</p>	<p>PLATE C-06</p>
	<p>DEPARTMENT OF THE ARMY</p> <p>JACKSONVILLE DISTRICT, CORPS OF ENGINEERS</p> <p>JACKSONVILLE, FLORIDA</p>	<p>Drawn by: DBV / MR2</p>		
	<p>Checked by: AET</p>			
	<p>Dated: FEBRUARY 2013</p>			



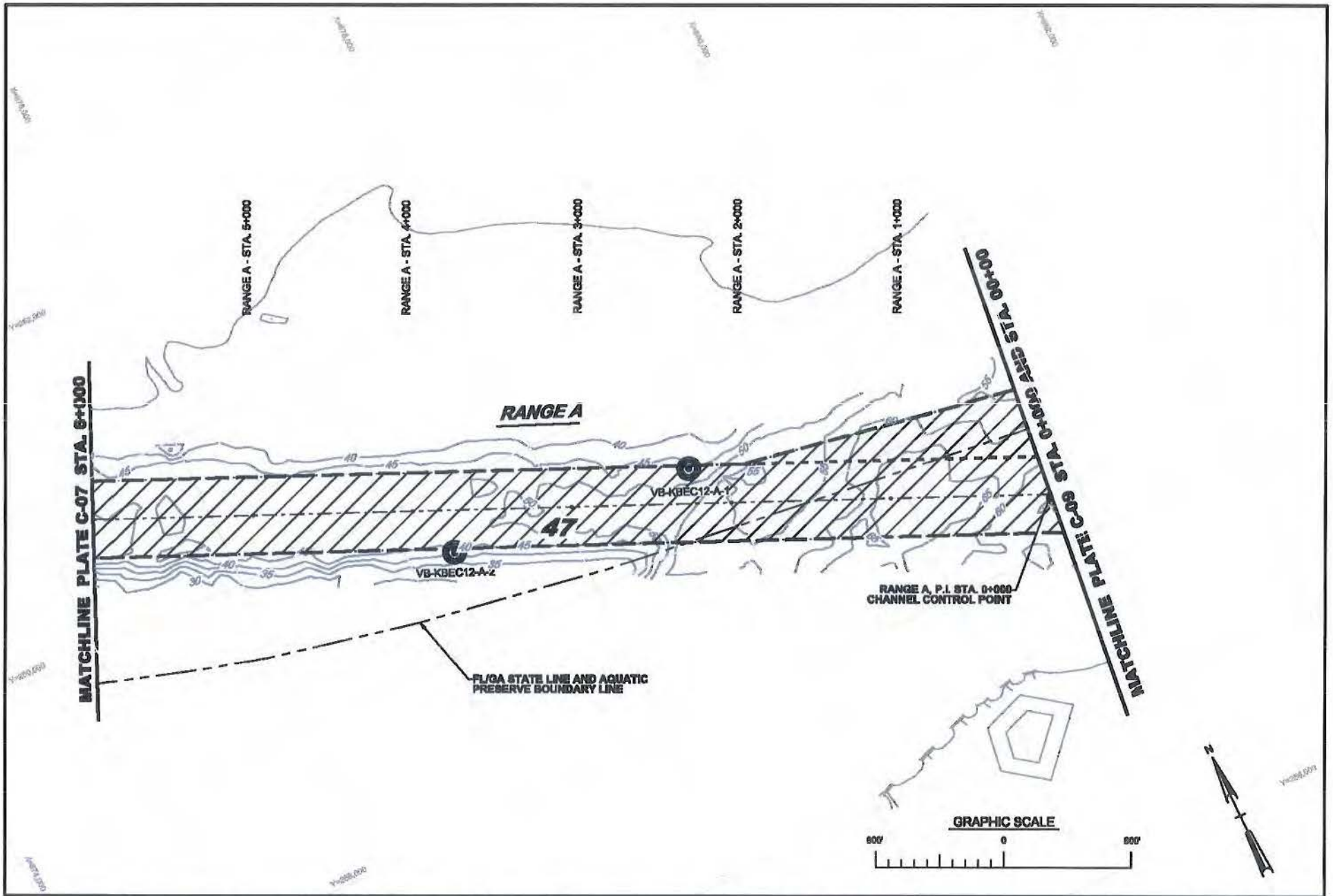
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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

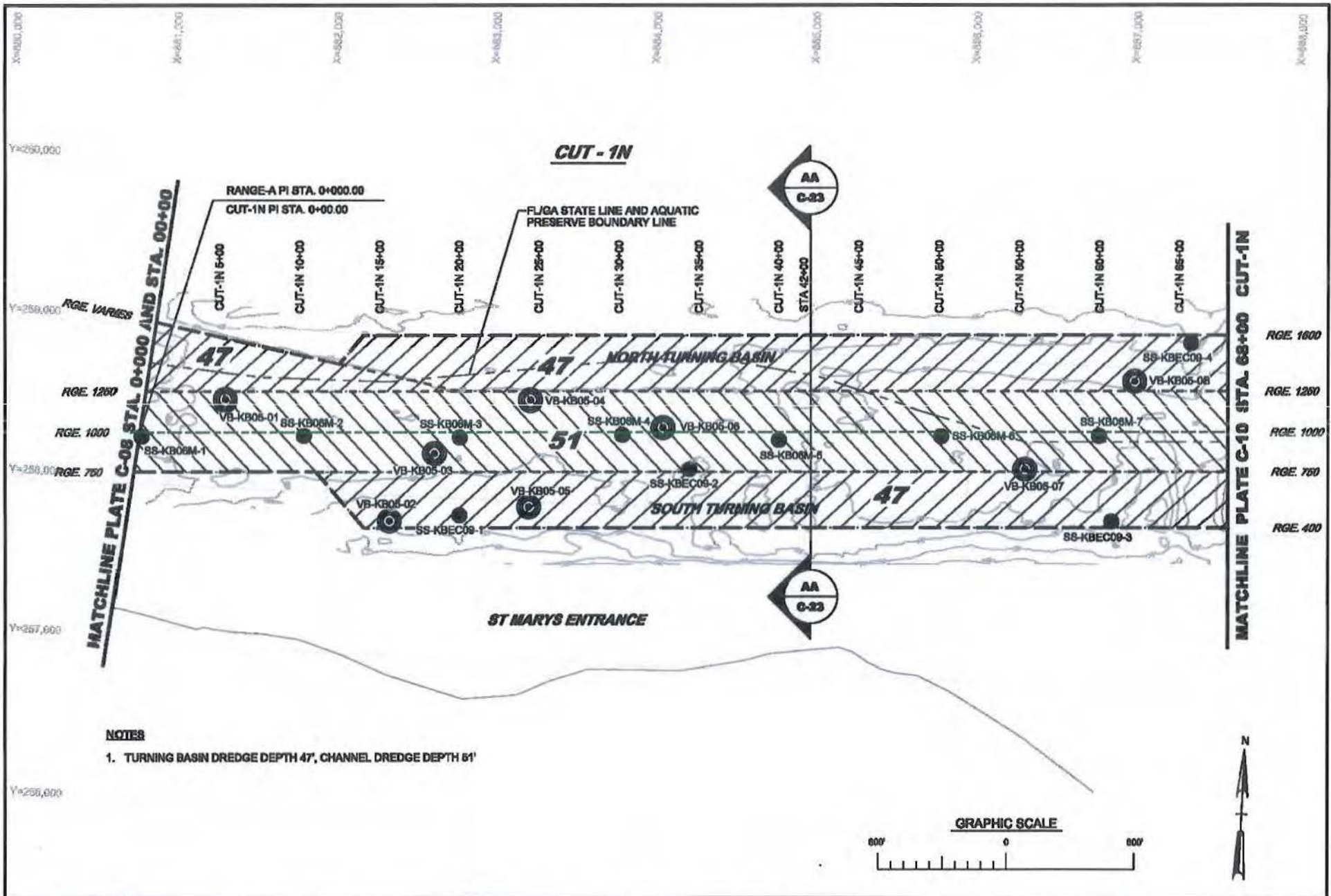
Des by: JWL
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Clad by: AET
Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING PLAN

PLATE
C-07



 <p>US Army Corps of Engineers Jacksonville District</p>	<p>DEPARTMENT OF ARMY PERMIT PLATE NOT FOR CONSTRUCTION</p> <p>DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA</p>	<p>Desn by: JWL</p> <p>Drawn by: DBV / MR2</p> <p>Clad by: AET</p> <p>Dated: FEBRUARY 2013</p>	<p>NAVAL SUBMARINE BASE KINGS BAY NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS SECTION 10/404 PERMIT PLATES DREDGING PLAN</p>	<p>PLATE C-08</p>
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NOTES

1. TURNING BASIN DREDGE DEPTH 47', CHANNEL DREDGE DEPTH 51'



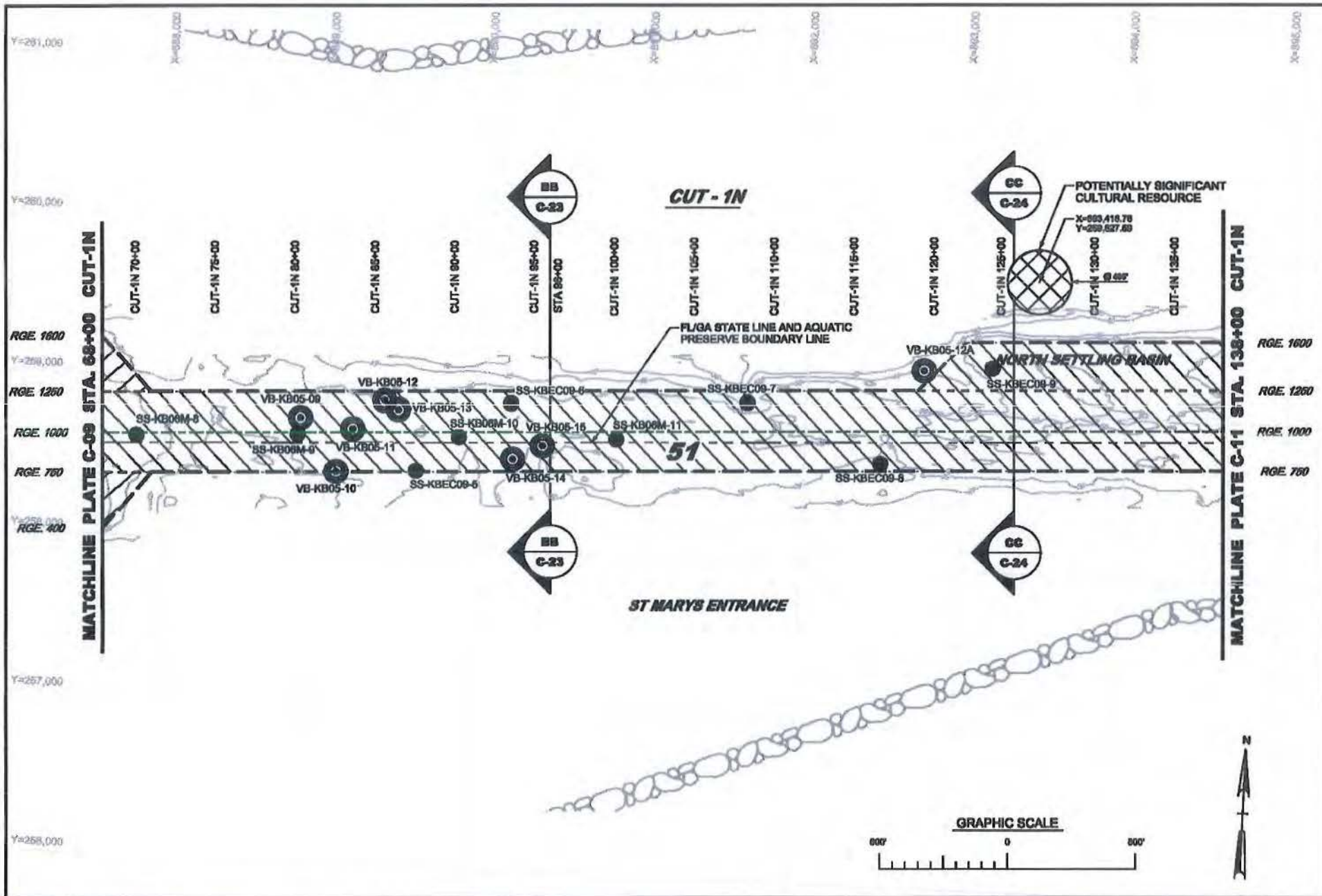
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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Des by: JWL
Dwn by: DEV / MR2
Clad by: AET
Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING PLAN

PLATE
C-09



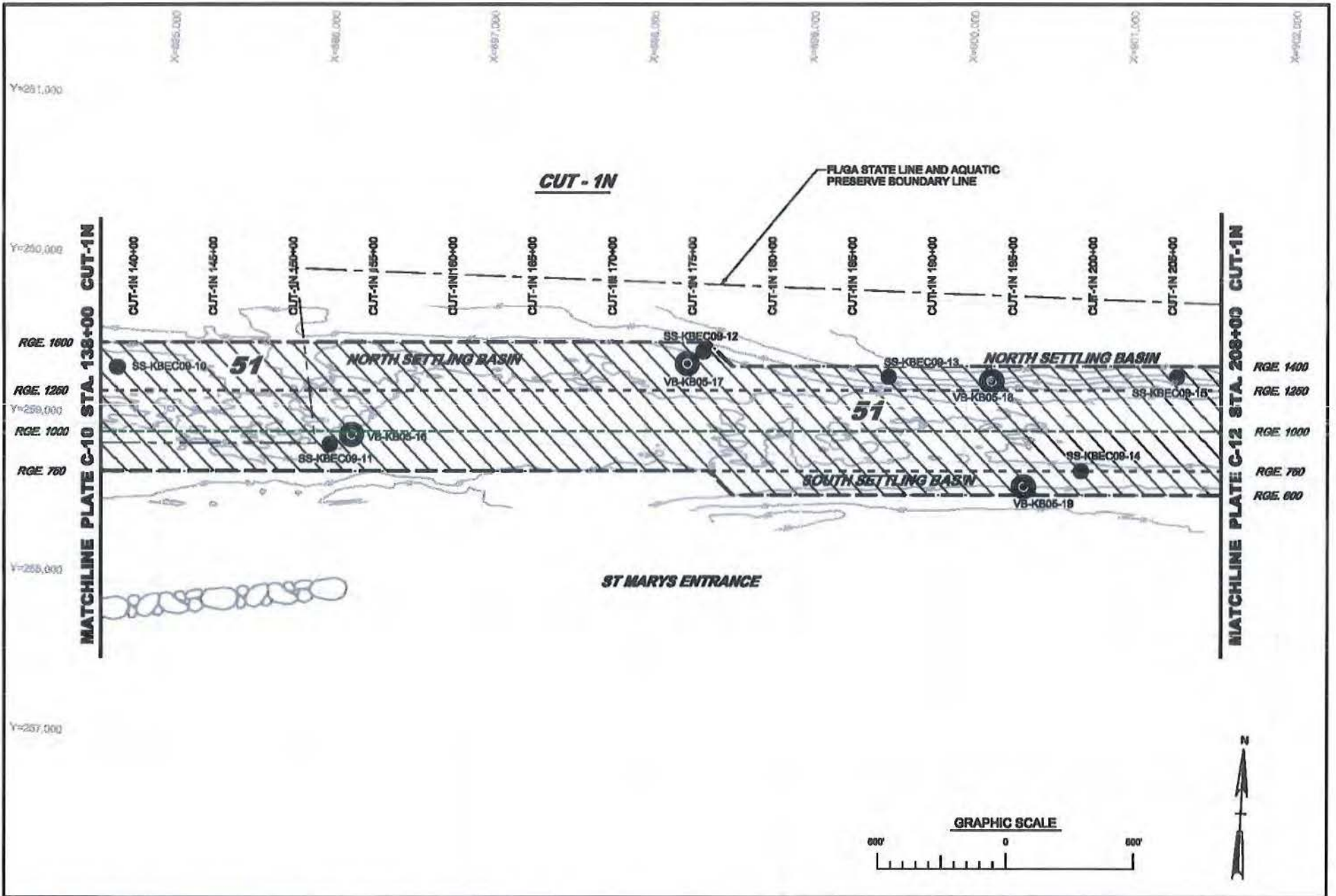
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NOT FOR CONSTRUCTION

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

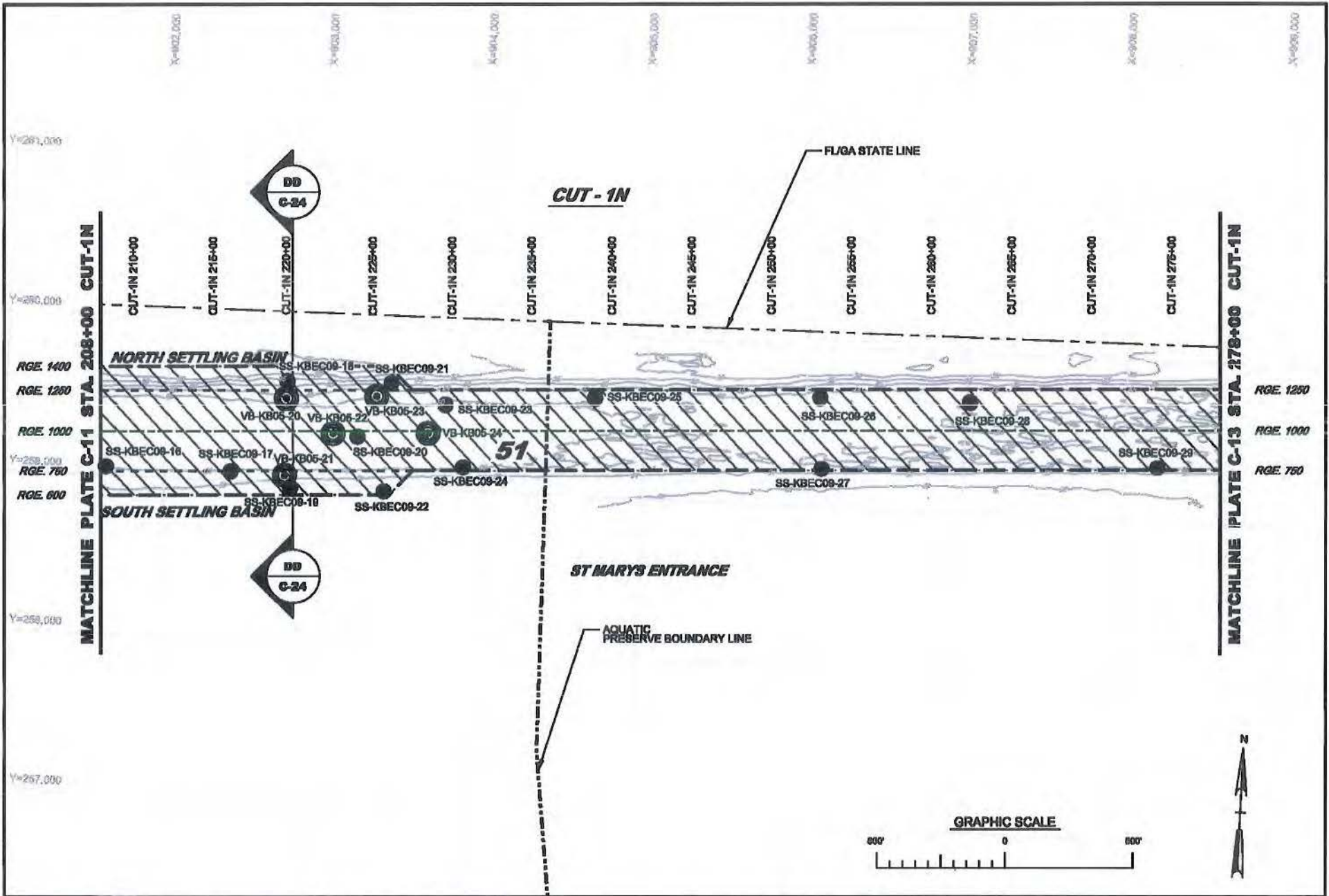
Des by: JWL
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Clk by: AET
Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING PLAN

PLATE
C-10



<p>US Army Corps of Engineers Jacksonville District</p>	<p>DEPARTMENT OF ARMY PERMIT PLATE NOT FOR CONSTRUCTION</p>	<p>Des by: JWL Dwn by: DBV / MR2 Clad by: AET Dated: FEBRUARY 2013</p>	<p>NAVAL SUBMARINE BASE KINGS BAY NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS SECTION 10/404 PERMIT PLATES DREDGING PLAN</p>	<p>PLATE C-11</p>
	<p>DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA</p>			



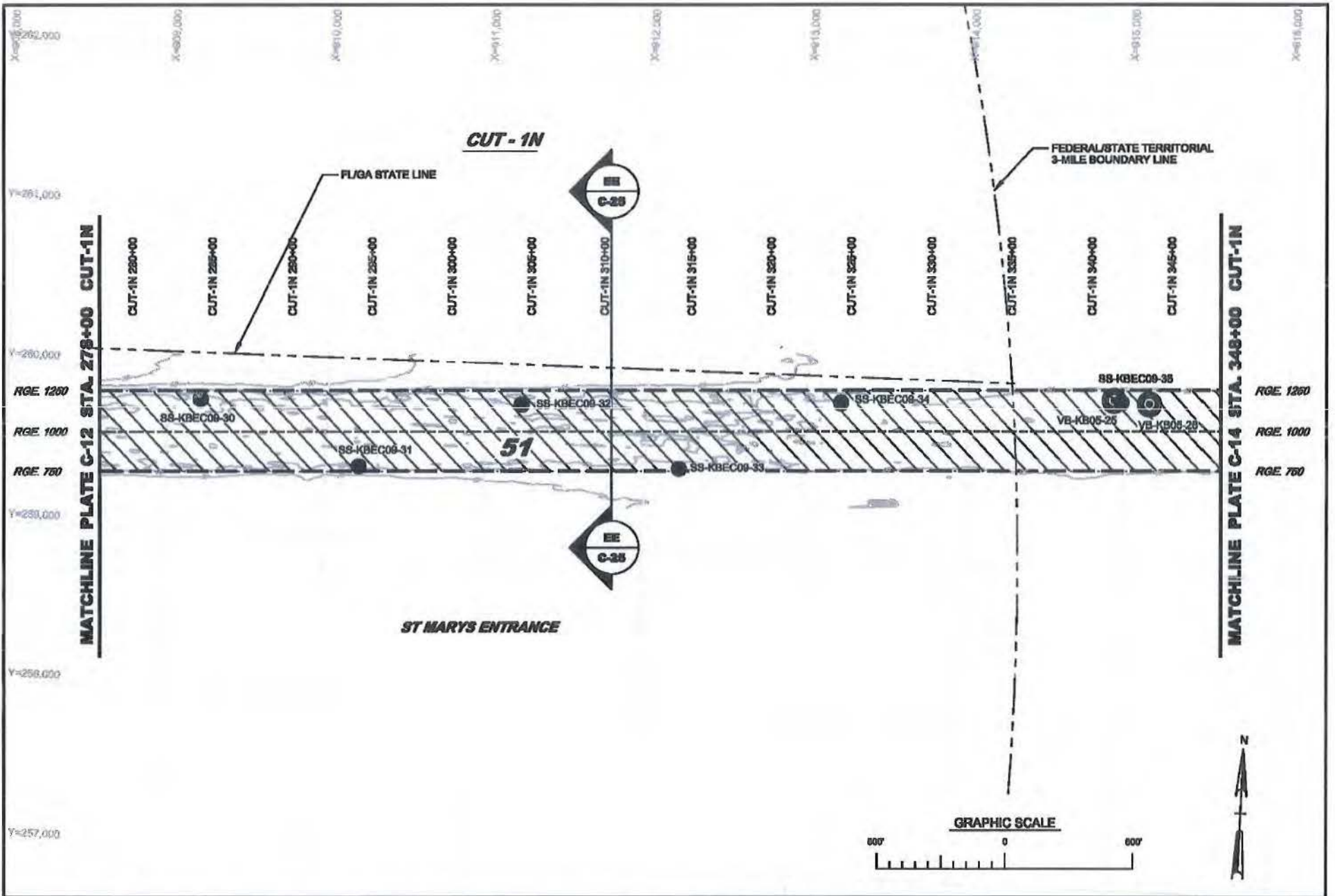
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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

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 Cld by: AET
 Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND GAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 DREDGING PLAN

PLATE
 C-12



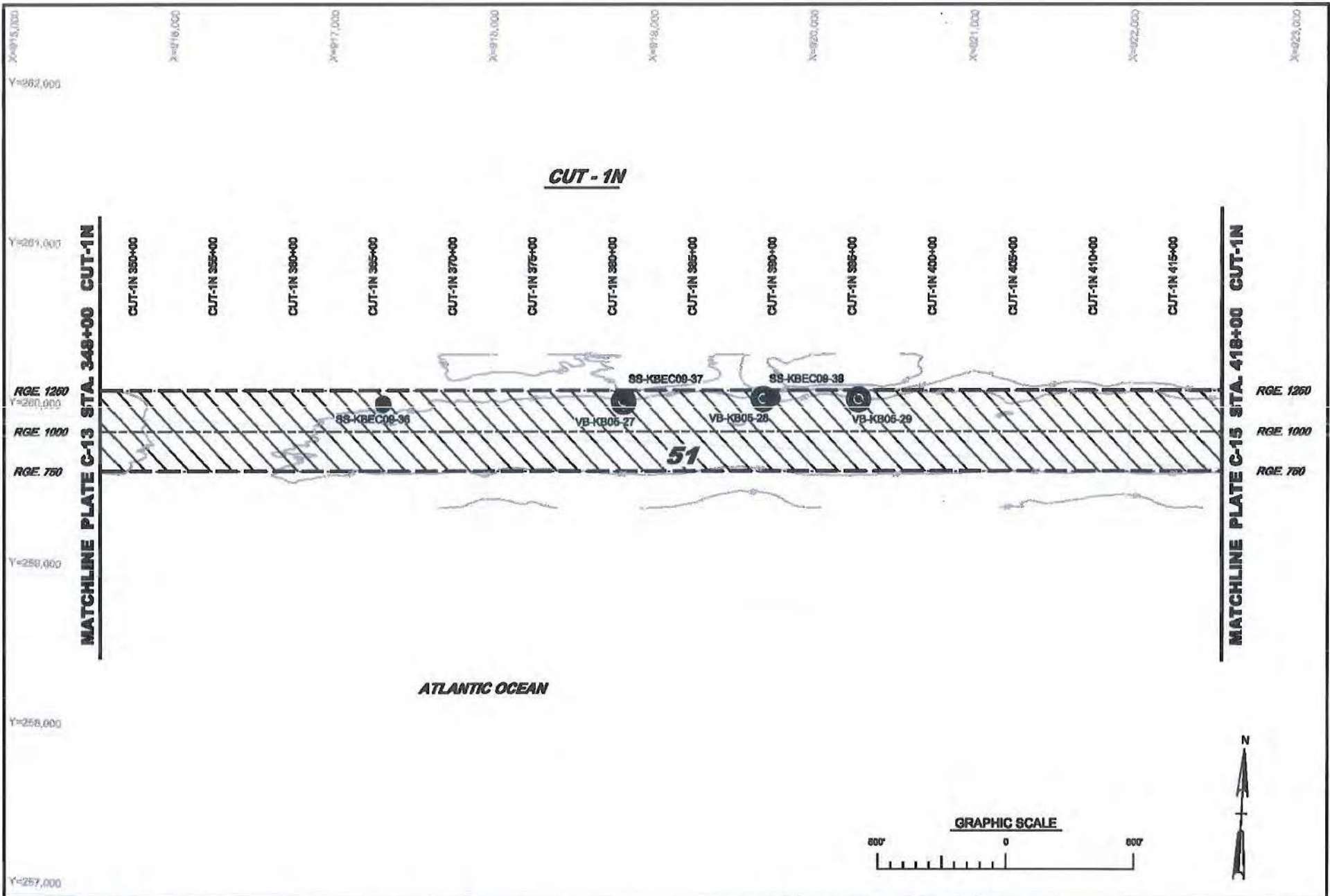
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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Des by: JWJ
 Own by: DEV / MR2
 Clad by: AET
 Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 DREDGING PLAN

PLATE
C-13



DEPARTMENT OF ARMY PERMIT PLATE
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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Des by:
JWL

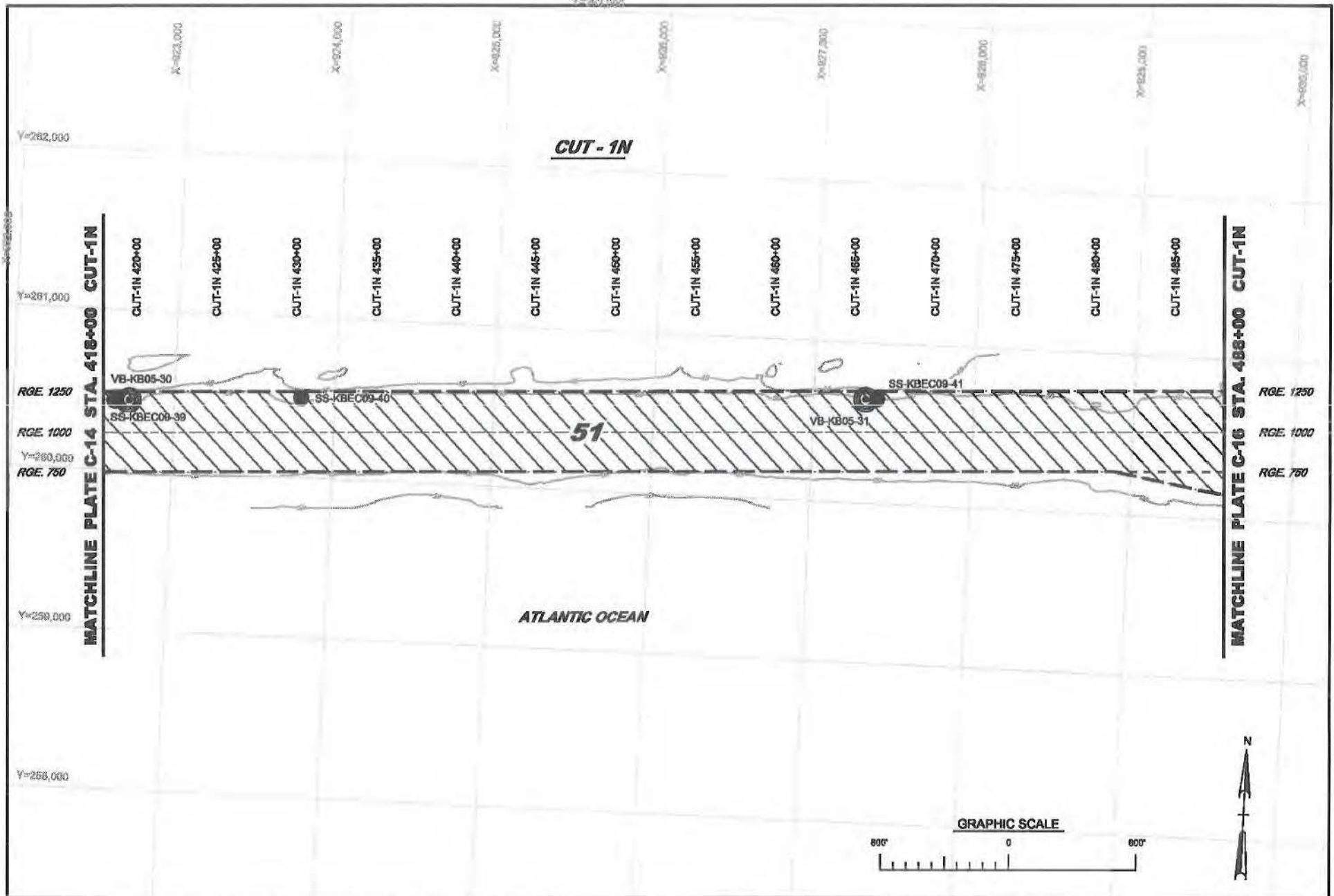
Own by:
DEV / MR2

Clad by:
AET

Dated:
FEBRUARY 2013

**NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING PLAN**

PLATE
C-14



US Army Corps
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Jacksonville District

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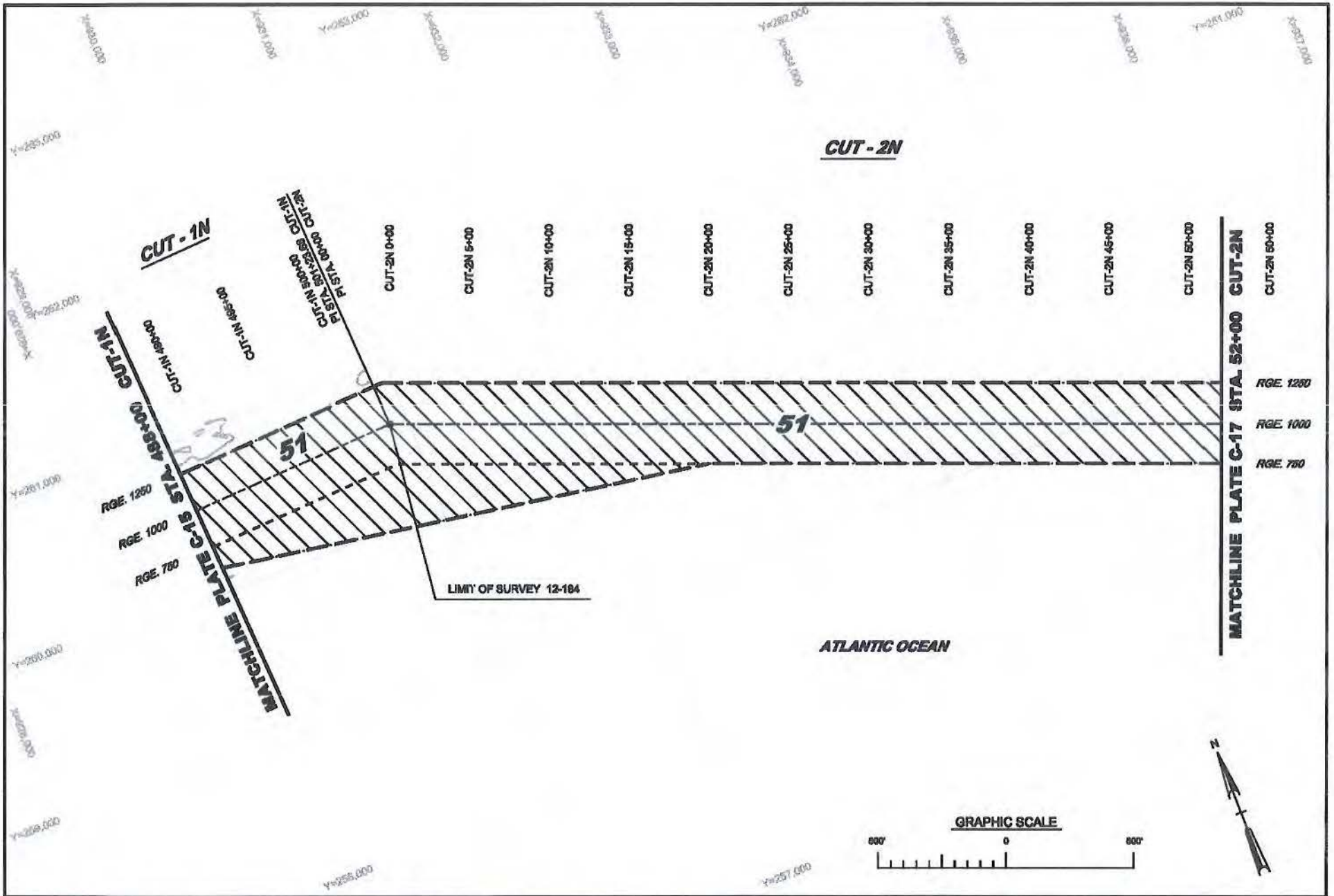
DEPARTMENT OF THE ARMY
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JACKSONVILLE, FLORIDA

Des by: JWL
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Clad by: AET
Dated: FEBRUARY 2013

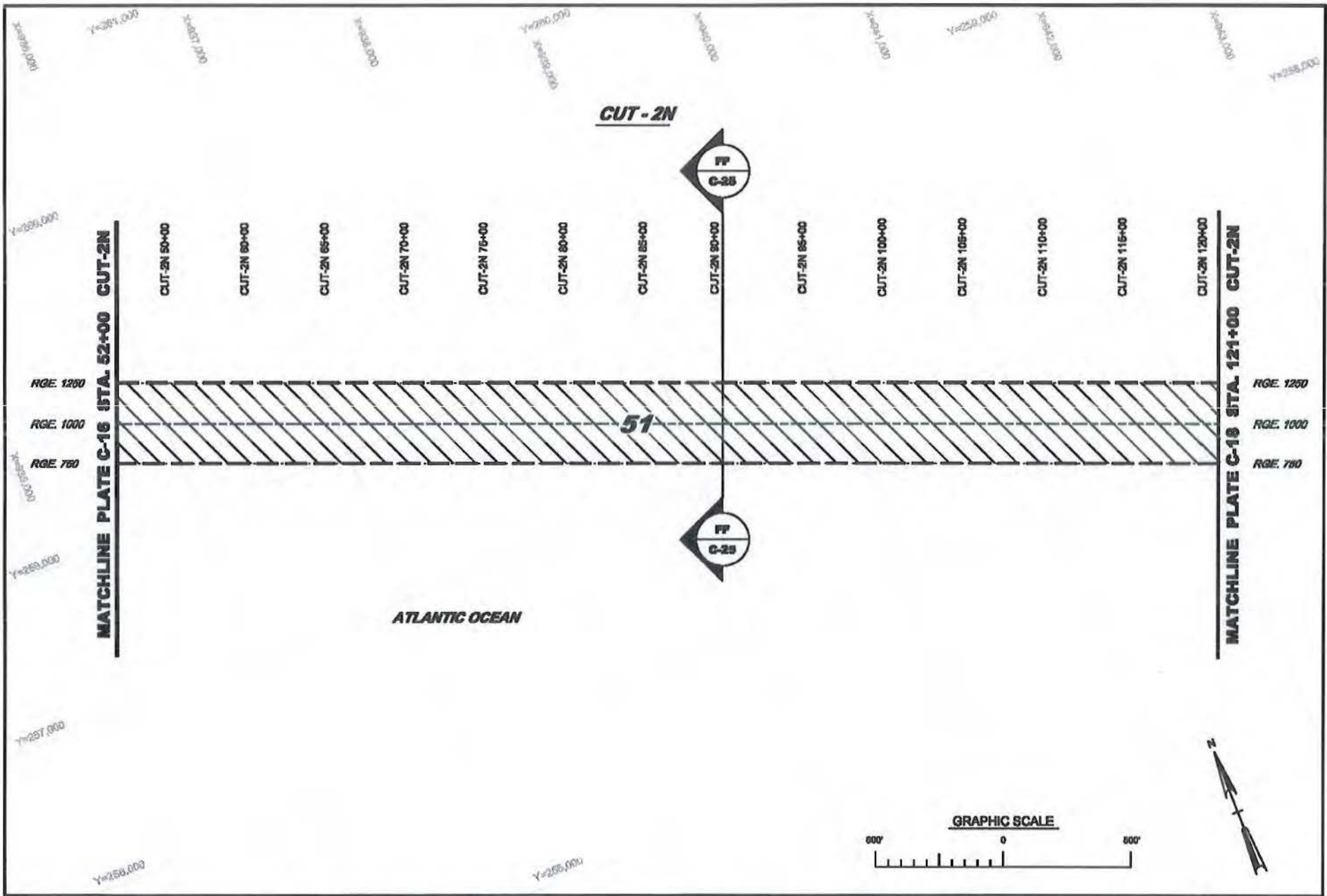
NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING PLAN

PLATE

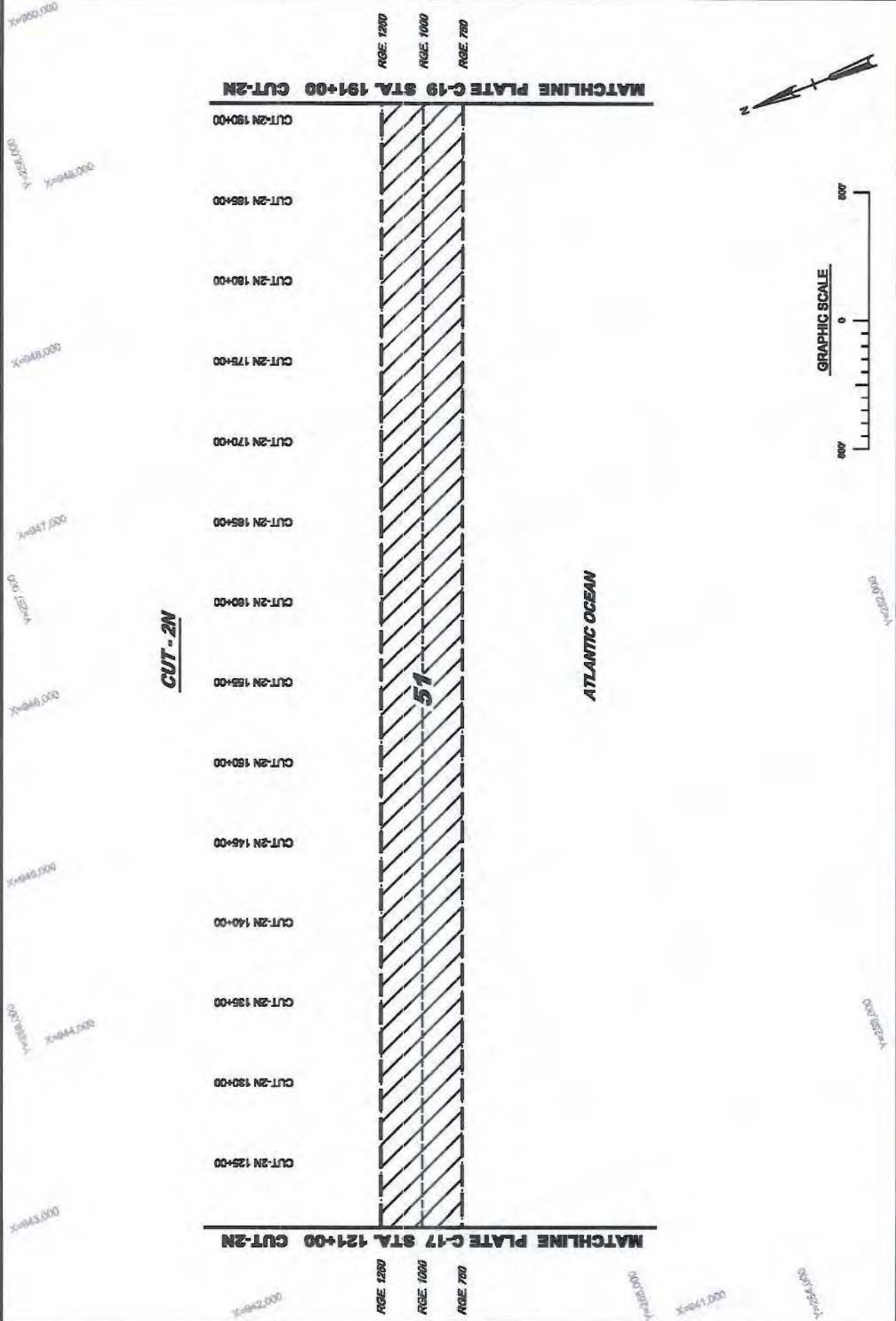
C-15



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	<p>DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA</p>	<p>Des by: DBV / MR2</p> <p>Clk by: AET</p> <p>Dated: FEBRUARY 2013</p>		

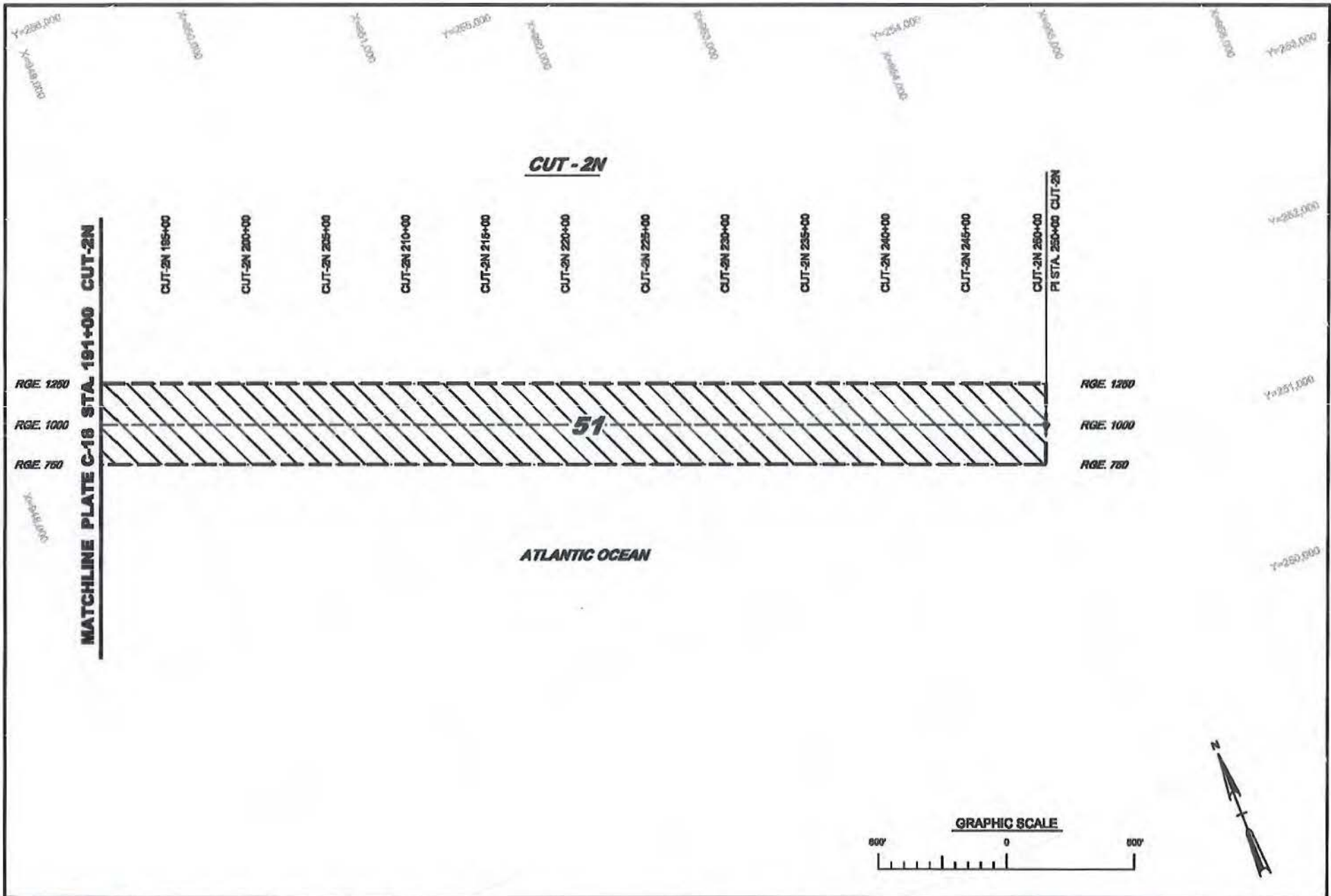


 <p>US Army Corps of Engineers Jacksonville District</p>	<p>DEPARTMENT OF ARMY PERMIT PLATE NOT FOR CONSTRUCTION</p>	<p>Des by: JWL Own by: DBV / MR2 Cld by: AET Dated: FEBRUARY 2013</p>	<p>NAVAL SUBMARINE BASE KINGS BAY NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS SECTION 10/404 PERMIT PLATES DREDGING PLAN</p>	<p>PLATE C-17</p>
	<p>DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA</p>			

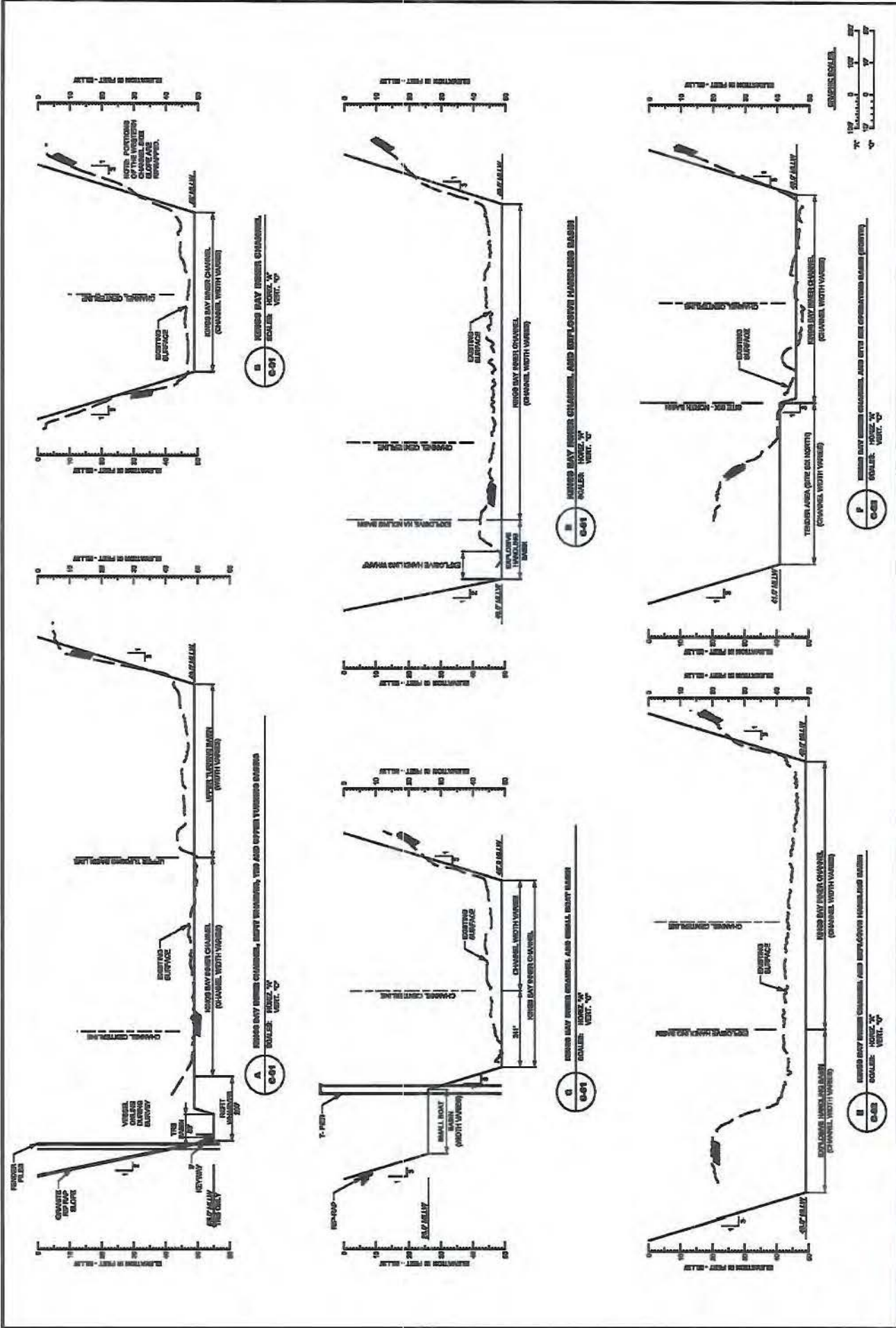


<p>DEPARTMENT OF ARMY PERMIT PLATE NOT FOR CONSTRUCTION</p> <p>DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA</p>		<p>DEPARTMENT OF THE ARMY PERMIT PLATE NOT FOR CONSTRUCTION</p> <p>DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA</p>		<p>DATE: FEBRUARY 2013</p>
<p>NAVAL SUBMARINE BASE KINGS BAY NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS SECTION 10/404 PERMIT PLATES DREDGING PLAN</p>		<p>PLATE C-18</p>		<p>DESIGNED BY: JWL DRAWN BY: DBV / MR2 CHECKED BY: AET</p>

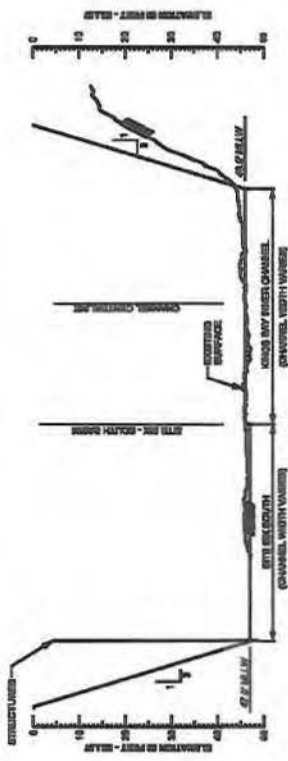




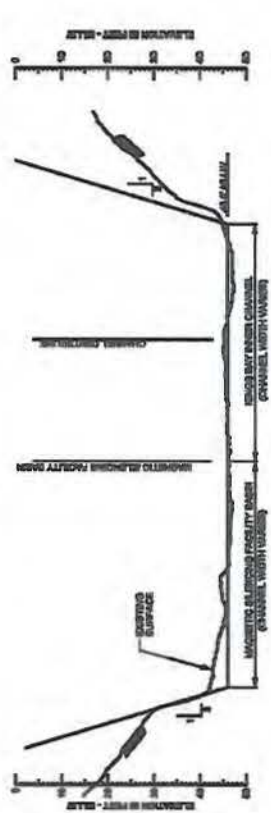
 US Army Corps of Engineers Jacksonville District	DEPARTMENT OF ARMY PERMIT PLATE NOT FOR CONSTRUCTION	Des by: JWL	NAVAL SUBMARINE BASE KINGS BAY NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS SECTION 10/404 PERMIT PLATES DREDGING PLAN	PLATE C-19
	DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA	Dwn by: DBV / MRZ		
	Clad by: AET			
	Dated: FEBRUARY 2013			



<p>US Army Corps of Engineers Jacksonville District</p>	<p>DEPARTMENT OF ARMY PERMIT PLATE NOT FOR CONSTRUCTION</p>	<p>DATE: JNL DRAWN BY: DRV/MR2 CHECKED BY: AET DATE: FEBRUARY 2013</p>	<p>PLATE C-20</p>
	<p>NAVAL SUBMARINE BASE KINGS BAY NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS SECTION 10/404 PERMIT PLATES TYPICAL DREDGING SECTIONS</p>		



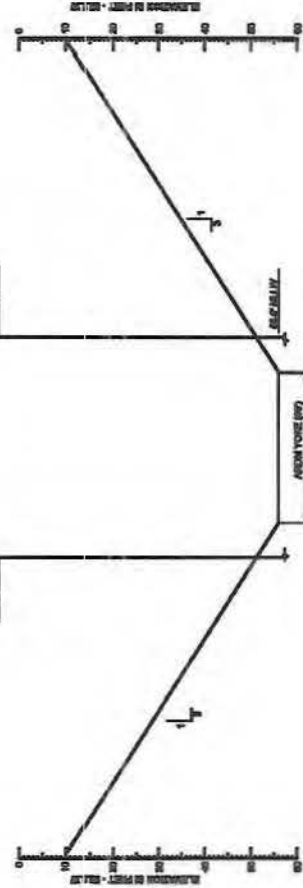
G KING'S BAY INNER CHANNEL AND OPERATING BASIN (PART)
 SCALE: HORIZ. 1" = 20' VERT. 1" = 2'



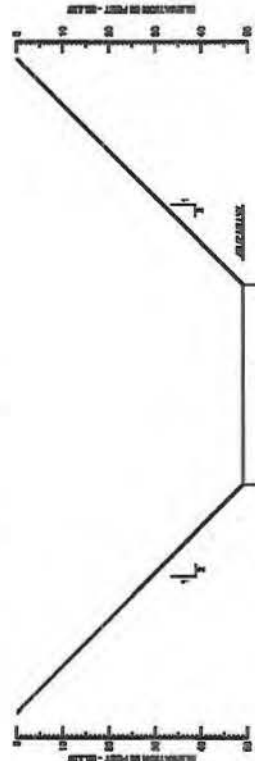
H KING'S BAY INNER CHANNEL AND OPERATING BASIN (PART)
 SCALE: HORIZ. 1" = 20' VERT. 1" = 2'



J KING'S BAY INNER CHANNEL AND OPERATING BASIN (PART)
 SCALE: HORIZ. 1" = 20' VERT. 1" = 2'



K KING'S BAY INNER CHANNEL AND OPERATING BASIN (PART)
 SCALE: HORIZ. 1" = 20' VERT. 1" = 2'



L KING'S BAY INNER CHANNEL AND OPERATING BASIN (PART)
 SCALE: HORIZ. 1" = 20' VERT. 1" = 2'

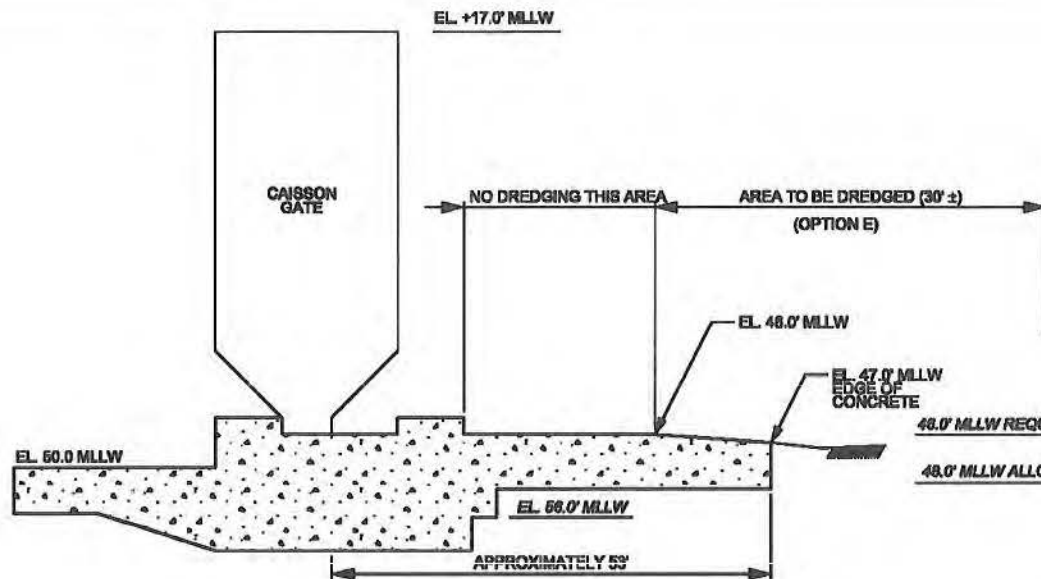
GENERAL NOTES:
 1. ALL DIMENSIONS ARE IN FEET - MEAN UNLESS OTHERWISE NOTED.
 2. CHANNEL WIDTHS ARE TO BE MAINTAINED AT ALL TIMES.
 3. CHANNEL DEPTHS ARE TO BE MAINTAINED AT ALL TIMES.

Drawn by: JML
 Date: FEBRUARY 2013

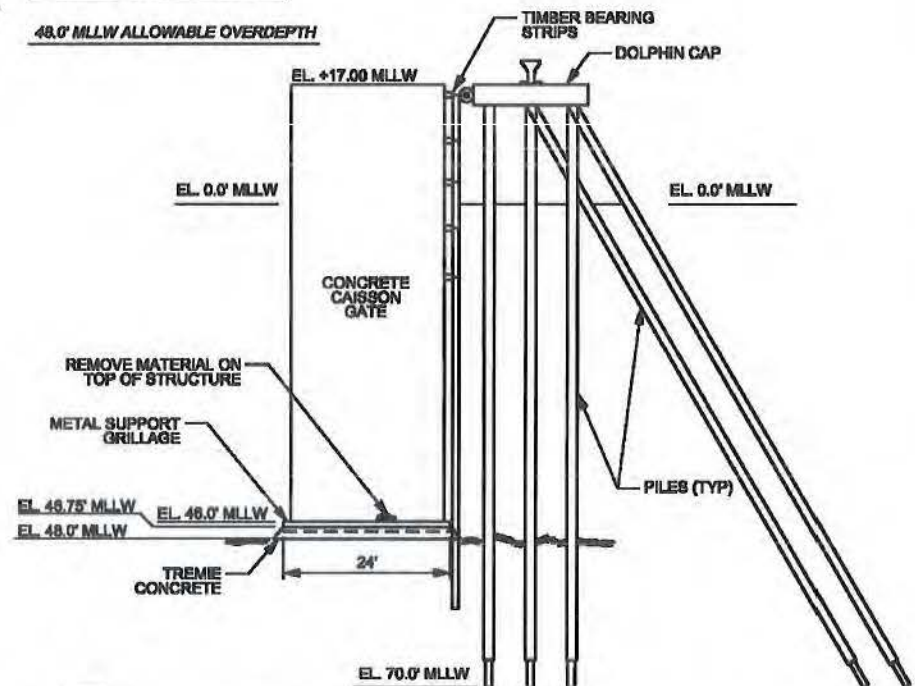
DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA



**NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 TYPICAL DREDGING SECTIONS**



L
DRYDOCK CAISSON GATE SILL
 C-01 N.T.S.



N
DRYDOCK CONCRETE CAISSON GATE MOORING FACILITY
 C-01 N.T.S.



US Army Corps
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Jacksonville District

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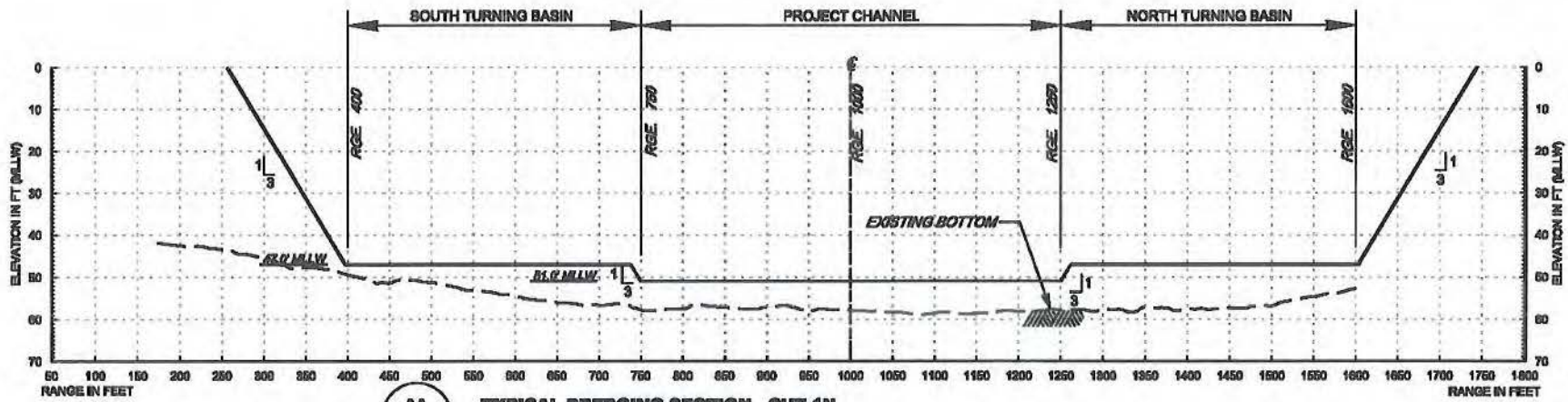
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Des by: JWJ
 Own by: DBV / MR2
 Cld by: AET
 Dated: FEBRUARY 2013

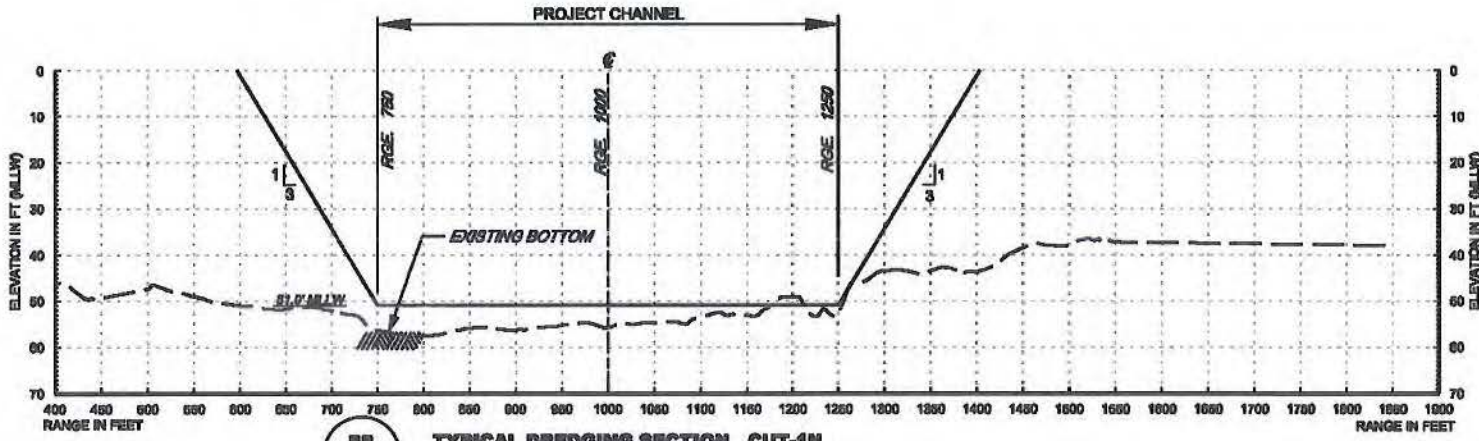
NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
TYPICAL DREDGING SECTIONS

PLATE

C-22

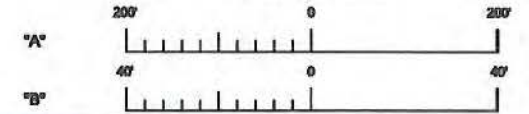


AA **TYPICAL DREDGING SECTION CUT-1N**
G-08 HORZ = SCALE: A
 VERT = SCALE: B



BB **TYPICAL DREDGING SECTION CUT-1N**
G-10 HORZ = SCALE: A
 VERT = SCALE: B

GRAPHIC SCALES



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Jacksonville District

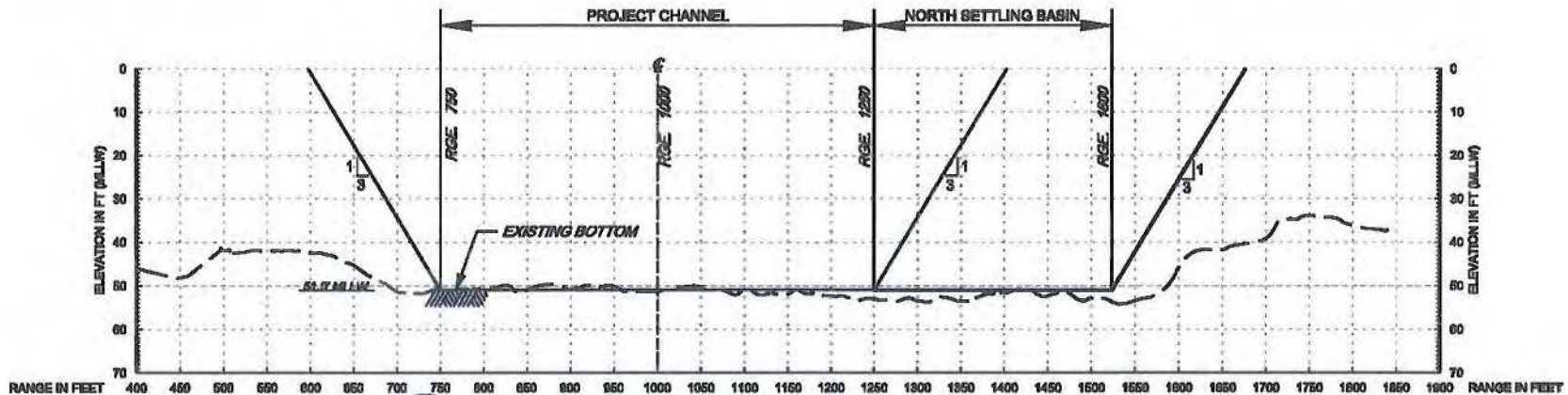
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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

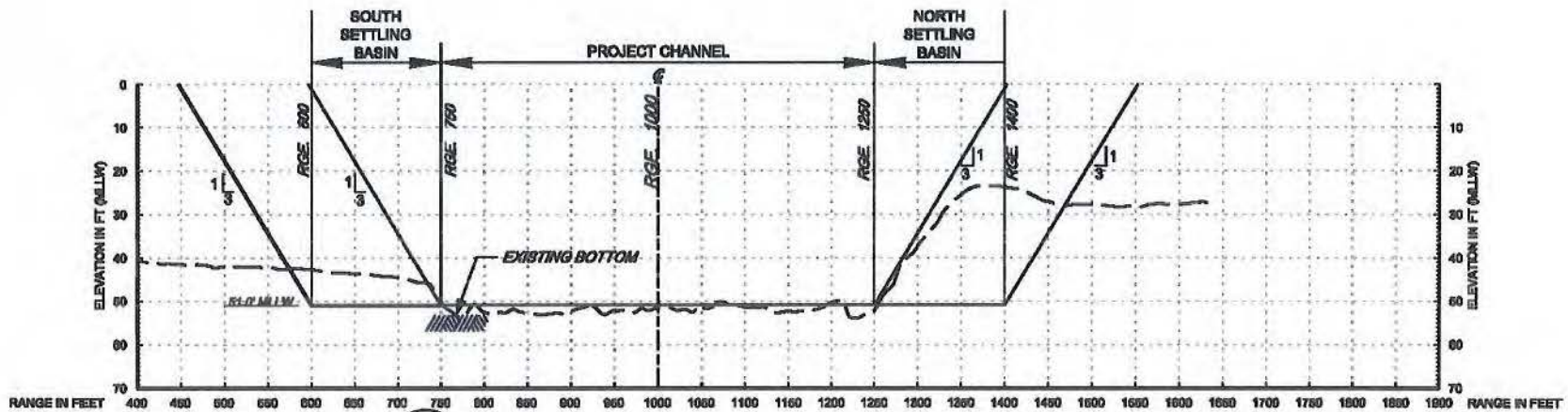
Drawn by:
JWL
 Check by:
DBV / MR2
 Date:
AET
 Date:
FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 DREDGING SECTIONS

PLATE
C-23

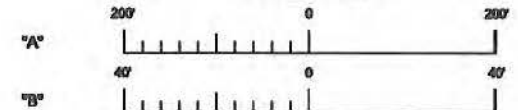


CC
C-10
 TYPICAL DREDGING SECTION CUT-1N
 HORZ = SCALE: A
 VERT = SCALE: B



DD
C-12
 TYPICAL DREDGING SECTION CUT-1N
 HORZ = SCALE: A
 VERT = SCALE: B

GRAPHIC SCALES



US Army Corps
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Jacksonville District

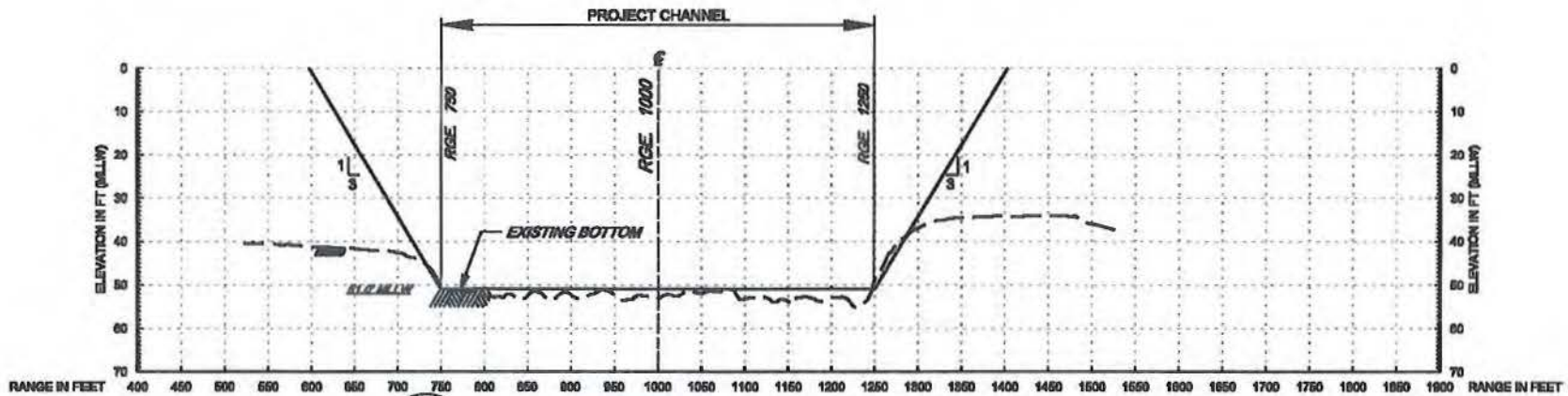
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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

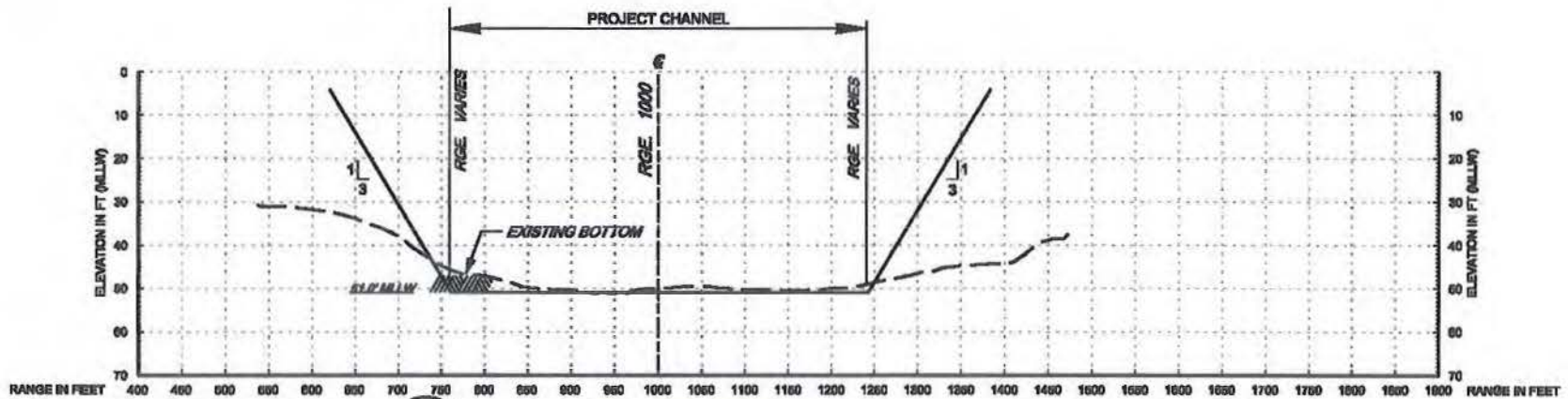
Des by:
JWL
Dwn by:
DBV / MR2
Cld by:
AET
Dated:
FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
DREDGING SECTIONS

PLATE
C-24

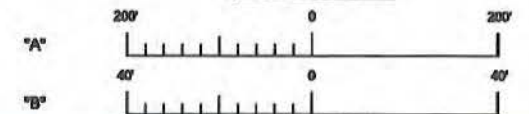


III
C-13 **TYPICAL DREDGING SECTION CUT-1N**
 HORZ = SCALE: A
 VERT = SCALE: B



IV
C-17 **TYPICAL DREDGING SECTION CUT-2N**
 HORZ = SCALE: A
 VERT = SCALE: B

GRAPHIC SCALES



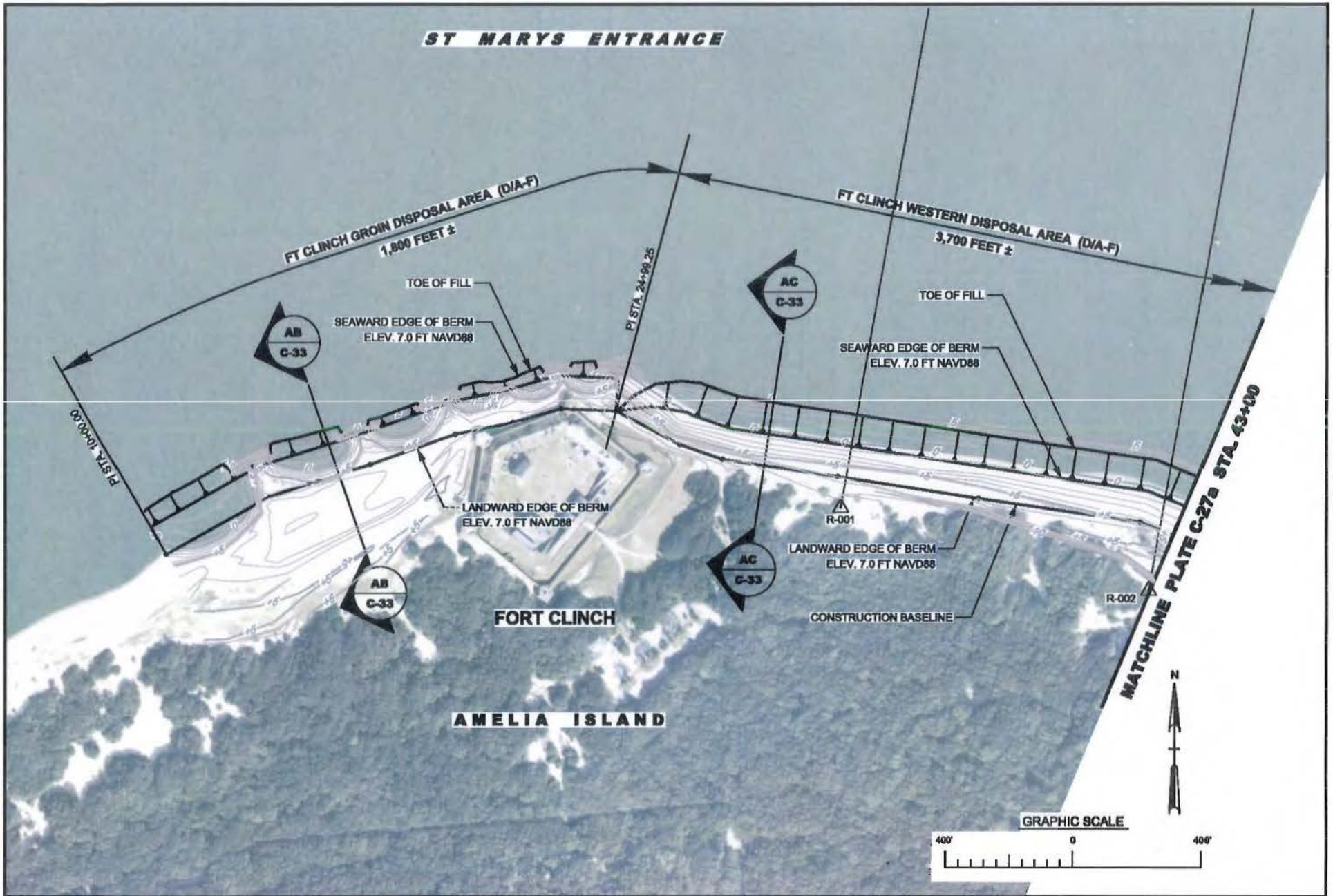
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DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

Des by: JWL
 Dwn by: DRV / MR2
 Clad by: AET
 Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 DREDGING SECTIONS

PLATE
C-25




 US Army Corps
 of Engineers
 Jacksonville District

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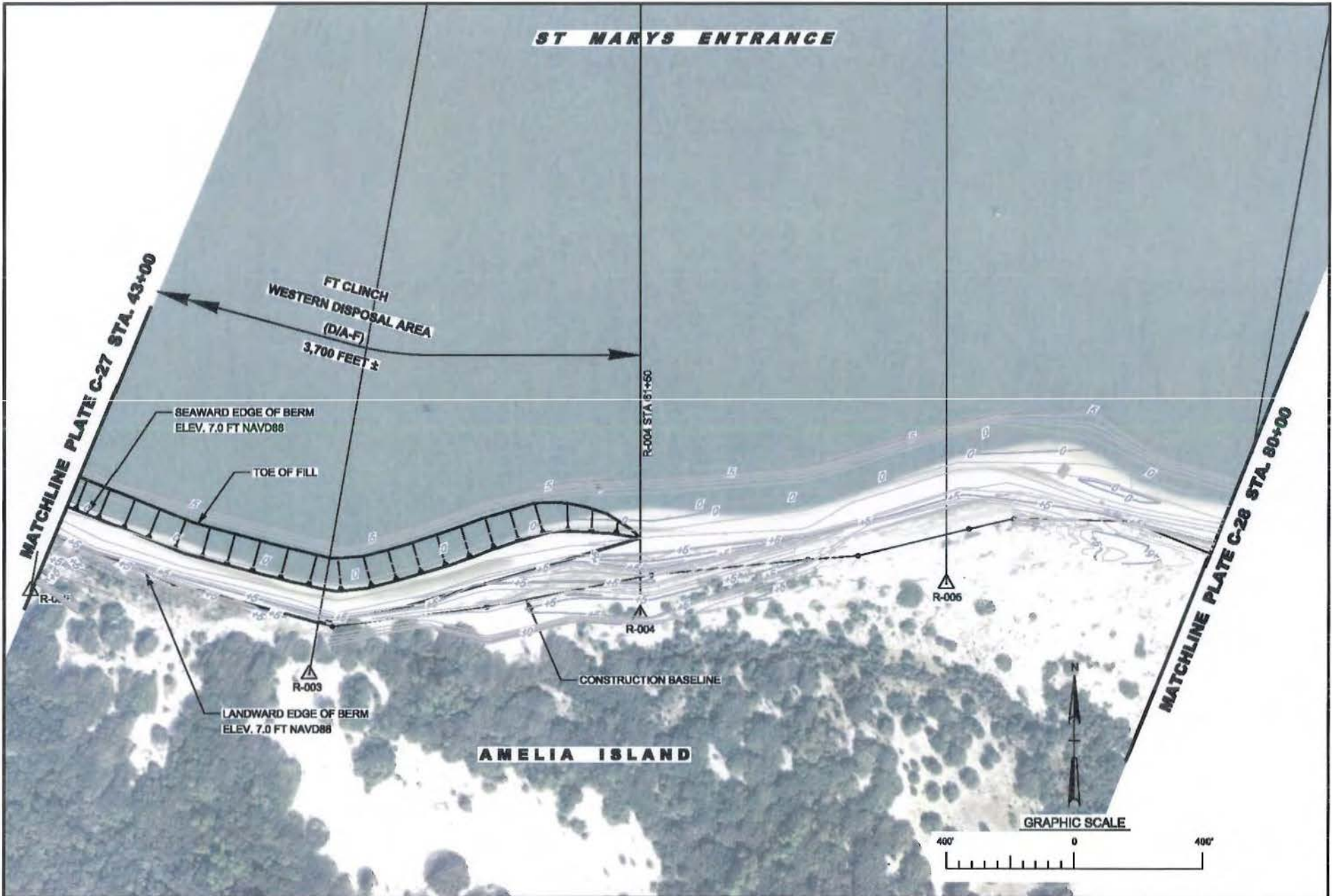
DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

Desn by: JWL
 Dwn by: DBV / MR2
 Cld by: AET
 Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 FT CLINCH DISPOSAL AREA (D/A-F)

PLATE
 C-27

ST MARYS ENTRANCE



AMELIA ISLAND



US Army Corps of Engineers
Jacksonville District

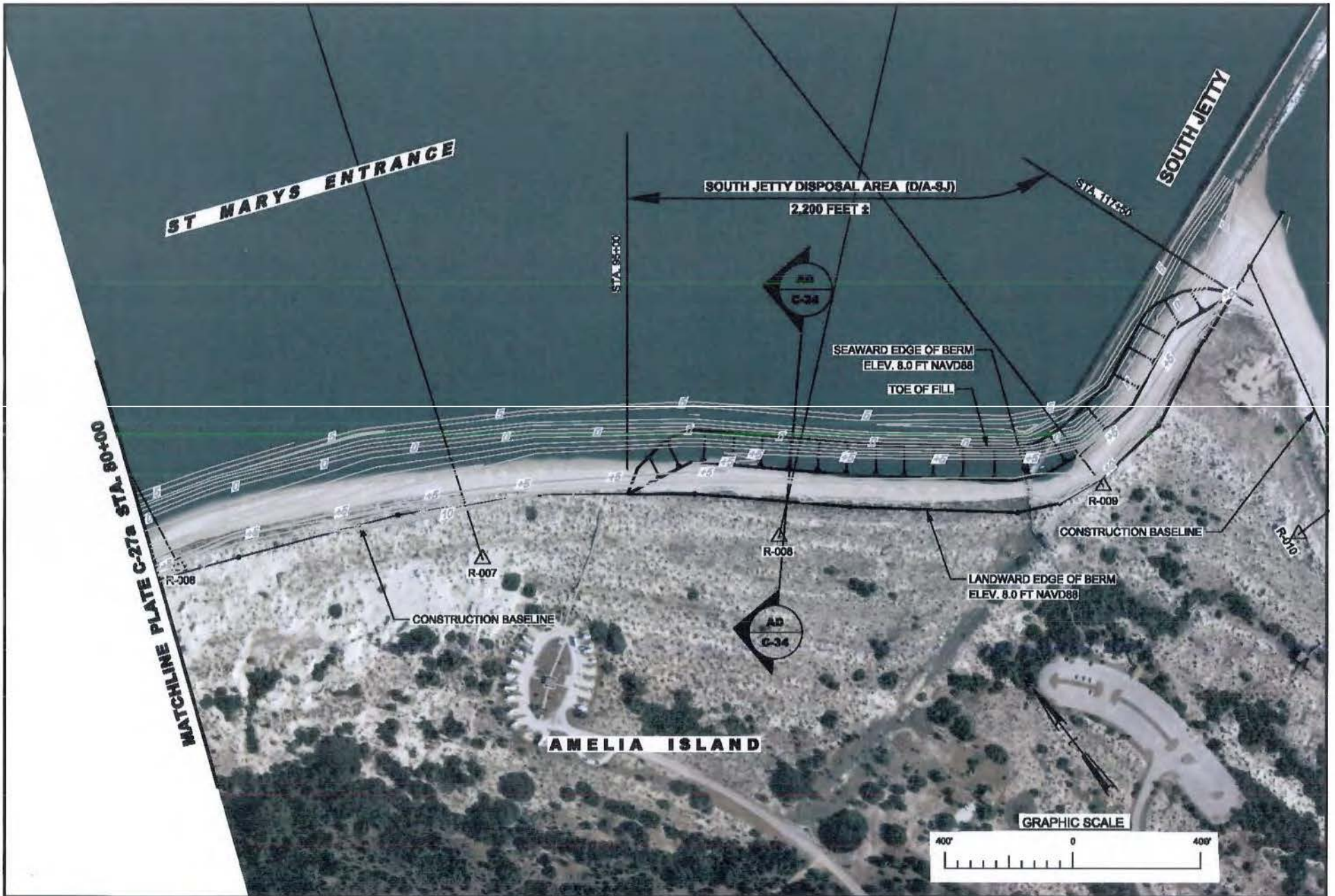
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NOT FOR CONSTRUCTION


DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

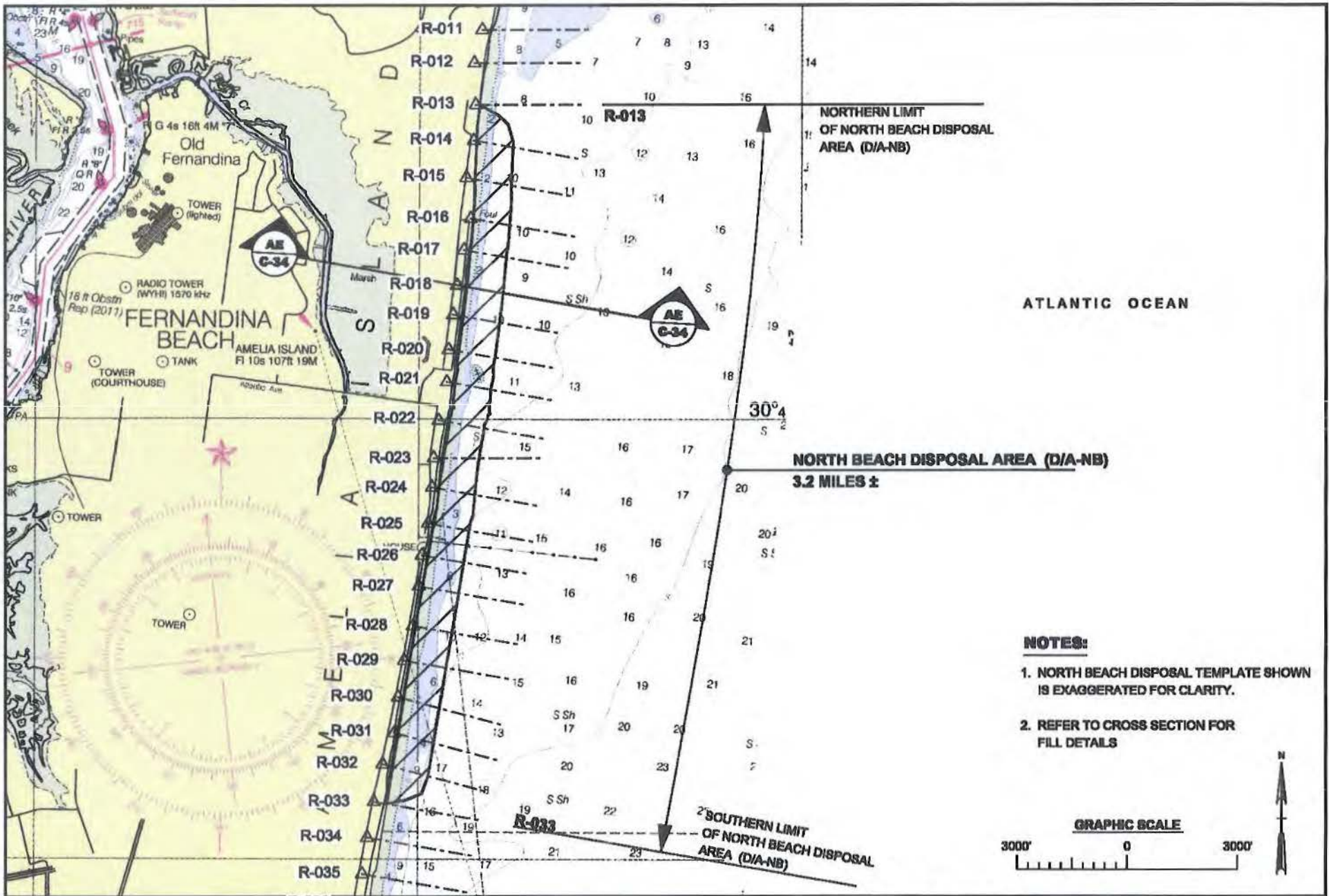
Des by: JWL
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Clrd by: AET
Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
FT CLINCH DISPOSAL AREA (D/A-F)

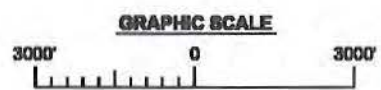
PLATE
C-27a



 US Army Corps of Engineers Jacksonville District	DEPARTMENT OF ARMY PERMIT PLATE NOT FOR CONSTRUCTION	Des by: JWJ	NAVAL SUBMARINE BASE KINGS BAY NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS SECTION 10/404 PERMIT PLATES SOUTH JETTY DISPOSAL AREA (D/A-SJ)	PLATE C-28
	DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA	Des by: DBV / MR2		
	Clad by: AET			
	Dated: FEBRUARY 2013			



- NOTES:**
1. NORTH BEACH DISPOSAL TEMPLATE SHOWN IS EXAGGERATED FOR CLARITY.
 2. REFER TO CROSS SECTION FOR FILL DETAILS



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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Des by: JWL
Dwn by: DRV / MRZ
Cld by: AET
Dated: FEBRUARY 2013

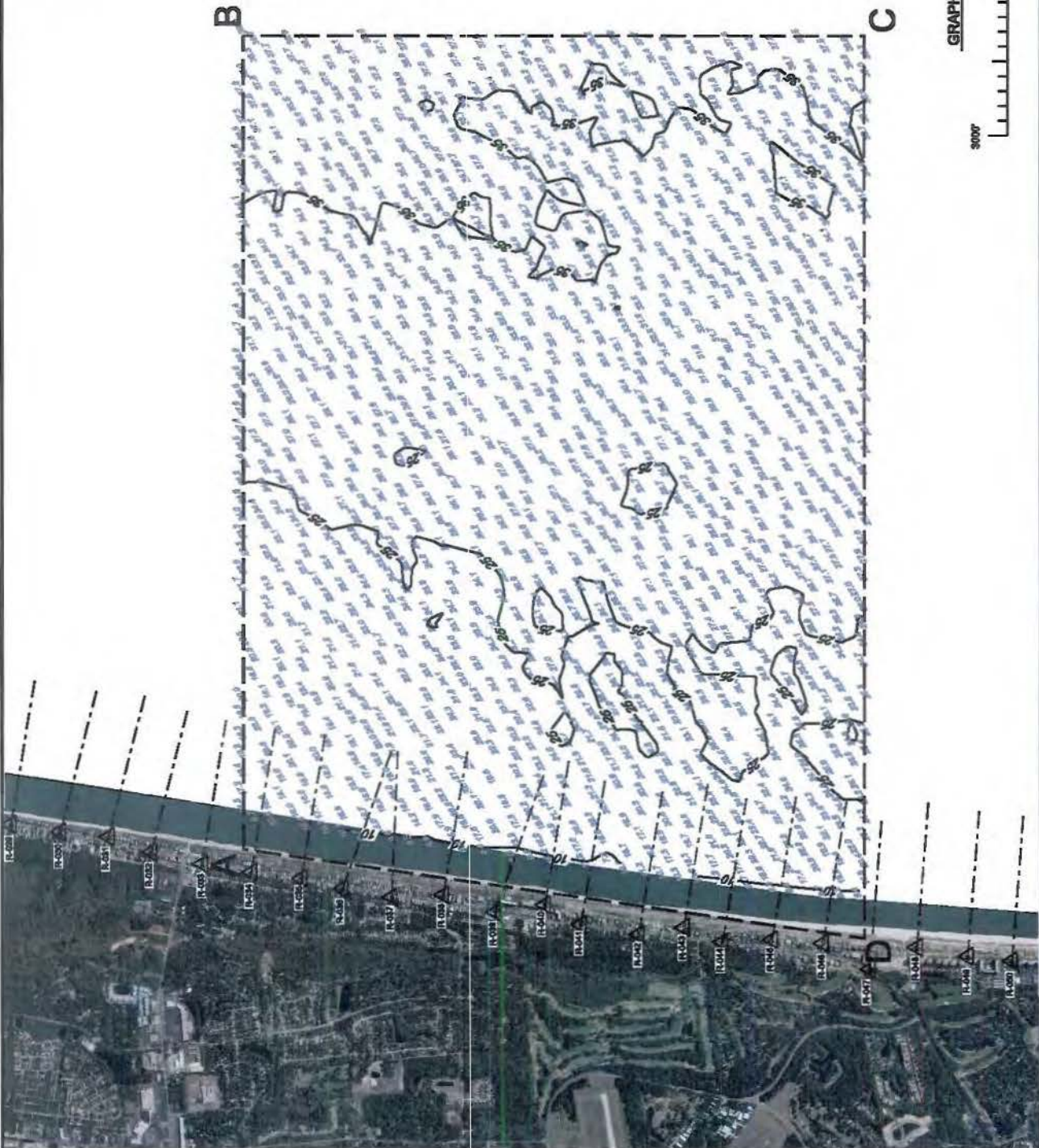
NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
NORTH BEACH DISPOSAL AREA (D/A-NB)

PLATE
C-29

CONTROL POINTS	PLANE COORDINATES GASS-EP	
	X	Y
POINT A	854,818.84	281,258.70
POINT B	853,293.48	281,858.70
POINT C	853,293.48	216,558.70
POINT D	854,200.00	216,558.70

NEARSHORE SURVEY NOTES:

1. REFER TO SURVEY NO. 12-087.
2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO MEAN LOWER LOW WATER (MLLW).
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
4. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF GEORGIA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).



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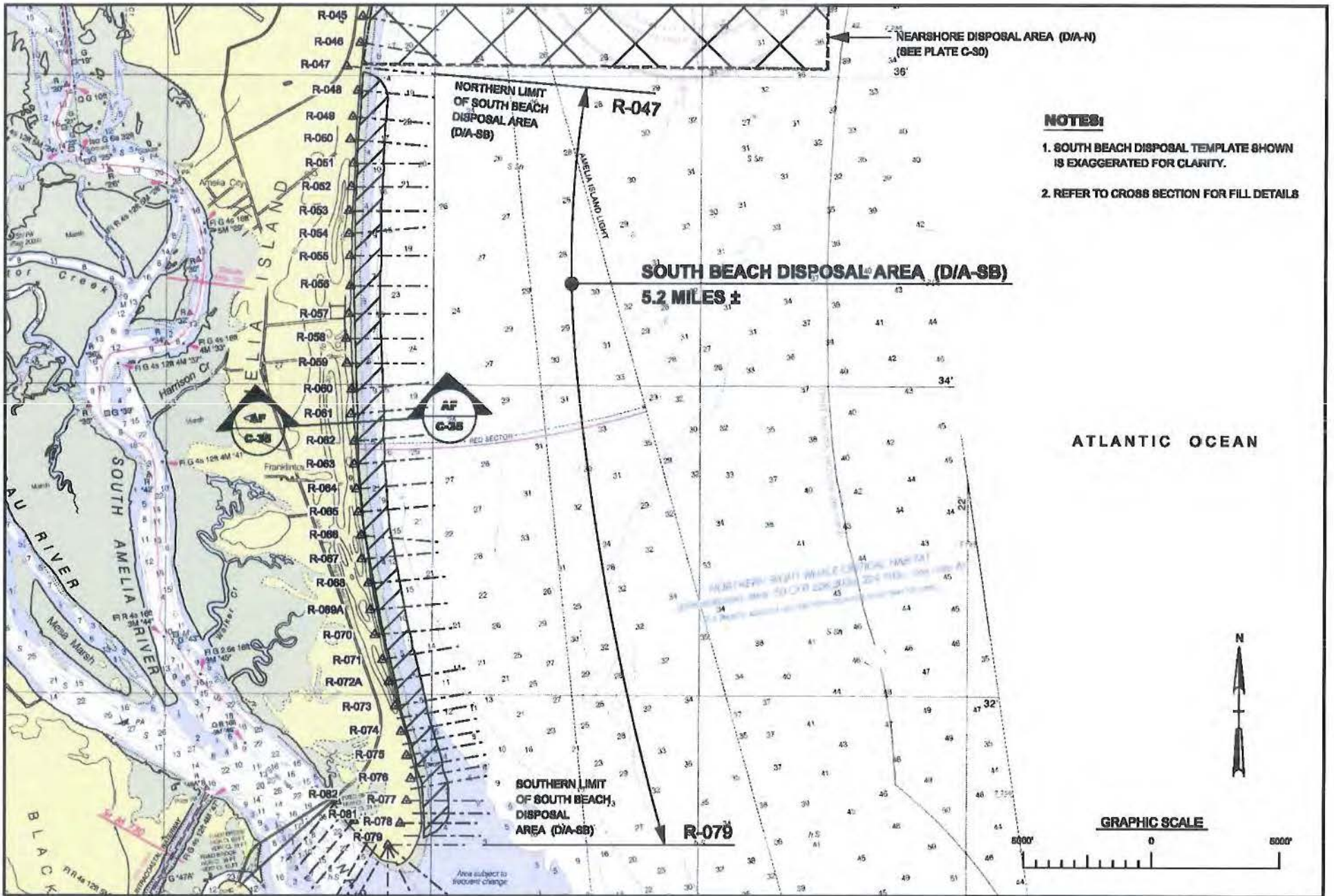
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Drawn by: JNL
 Drawn by: DSV / MRZ
 Check by: AET
 Date: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 NEARSHORE DISPOSAL AREA (D/A-N)

PLATE
C-30





- NOTES:**
1. SOUTH BEACH DISPOSAL TEMPLATE SHOWN IS EXAGGERATED FOR CLARITY.
 2. REFER TO CROSS SECTION FOR FILL DETAILS



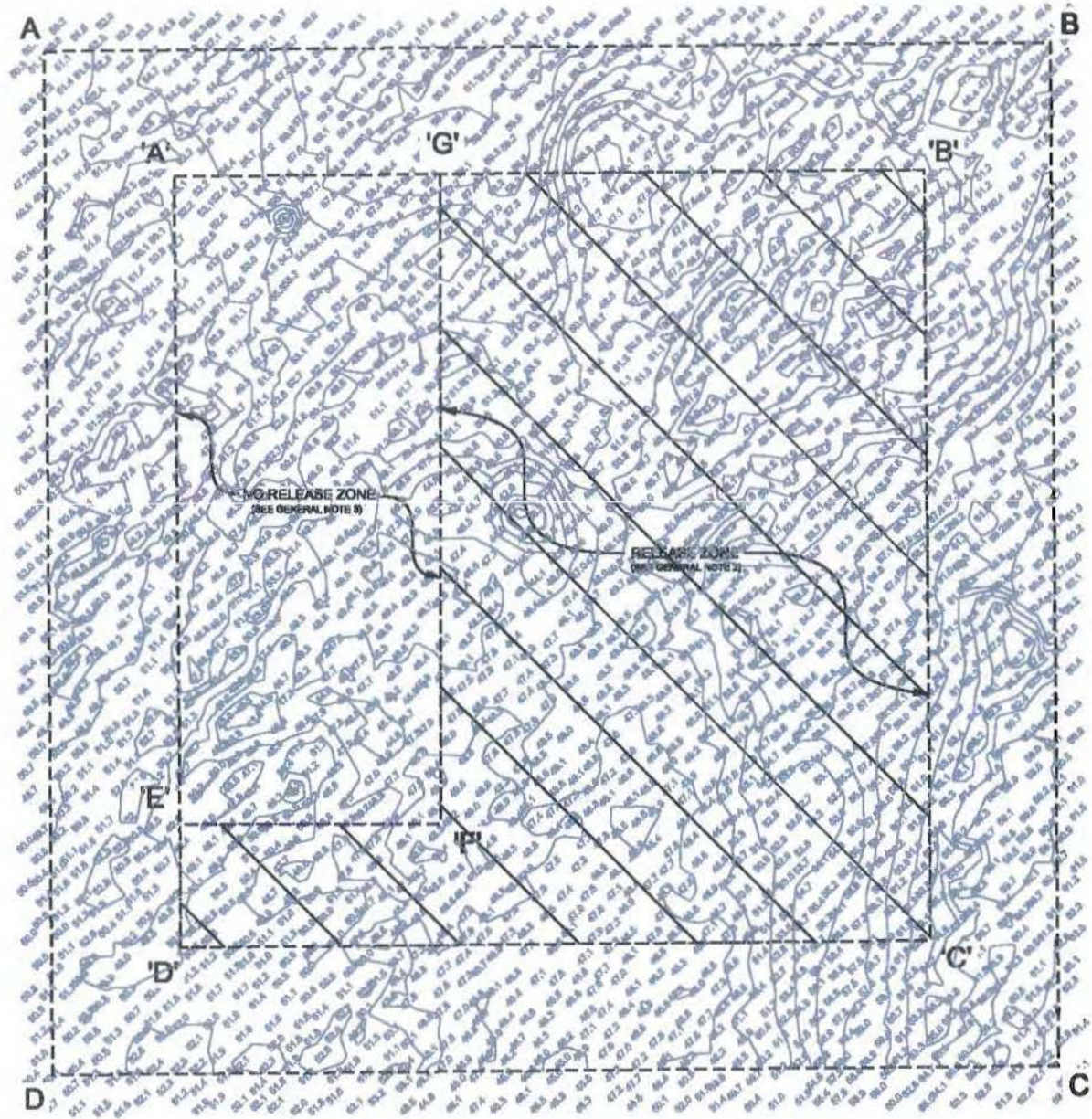
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NOT FOR CONSTRUCTION

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Drawn by: JWL
 Drawn by: DBV / MR2
 Checked by: AET
 Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 SOUTH BEACH DISPOSAL AREA (D/A-SB)

PLATE
 C-31

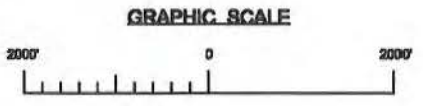


NOTES:

1. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF GEORGIA AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
2. DEPTHS ARE IN FEET AND REFER TO THE NOAA REPORTED MEAN LOWER LOW WATER (MLLW) TIDAL DATUM RELATIVE TO THE 1989-2001 TIDAL EPOCH.
3. REFERENCE SITE MANAGEMENT AND MONITORING PLAN (SMMP) DATED DECEMBER 1988, AS AMENDED.
4. THE MAXIMUM PLACEMENT ELEVATION IN THE FERNANDINA ODMDS IS -25 FEET MLLW.
5. MAXIMUM ANNUAL PLACEMENT IS 850,000 CUBIC YARDS.
6. NO PLACEMENT OF MATERIAL WITHIN 1,500 FEET OF THE ODMDS BOUNDARY.

RELEASE ZONE BOUNDARY (GA83-EF)		
CONTROL POINTS	PLANE COORDINATES	
	X	Y
POINT 'A'	924,592	199,820
POINT 'B'	933,485	199,888
POINT 'C'	933,557	190,585
POINT 'D'	924,081	190,498
POINT 'E'	924,660	191,969
POINT 'F'	927,750	191,969
POINT 'G'	927,750	199,844

D/A-O BOUNDARY (GA83-EF)		
CONTROL POINTS	PLANE COORDINATES	
	X	Y
POINT A	923,081	201,108
POINT B	934,973	201,200
POINT C	935,068	189,078
POINT D	923,172	188,985



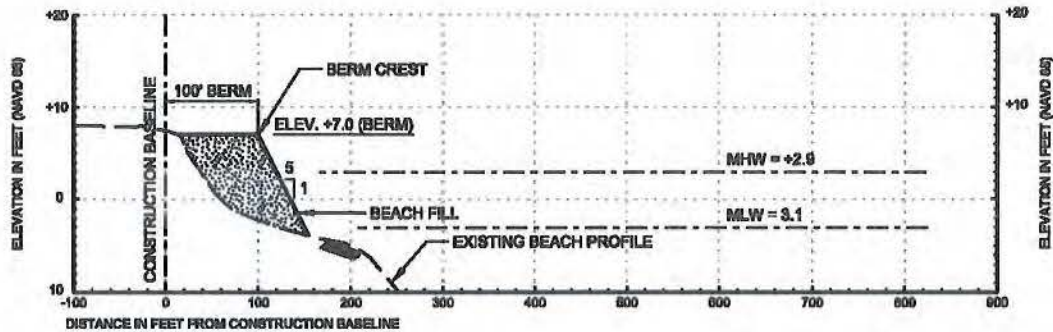
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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

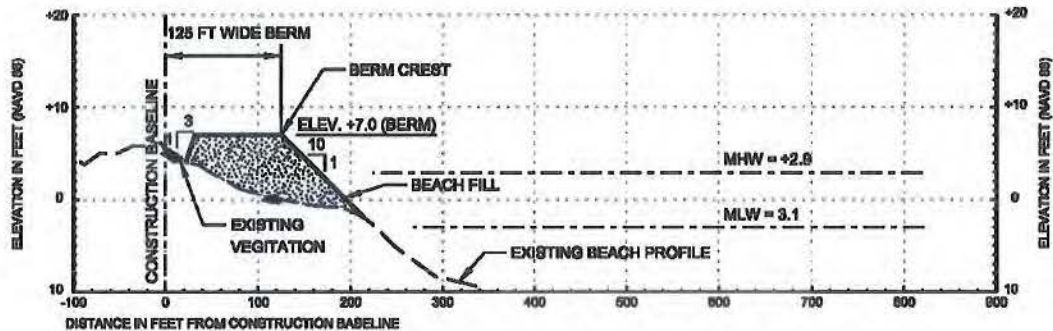
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 Drawn by: DIV / MR2
 Cld by: AET
 Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 OCEAN DISPOSAL AREA (D/A-O)

PLATE
C-32

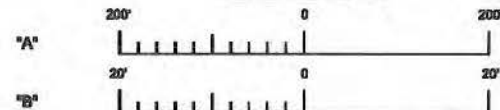


AB TYPICAL FORT CLINCH GROIN DISPOSAL AREA (D/A-F) PLACEMENT SECTION
 C-27
 HORIZ = SCALE: A
 VERT = SCALE: B



AC TYPICAL FORT CLINCH WESTERN DISPOSAL AREA (D/A-F) PLACEMENT SECTION
 C-27
 HORIZ = SCALE: A
 VERT = SCALE: B

GRAPHIC SCALES



US Army Corps
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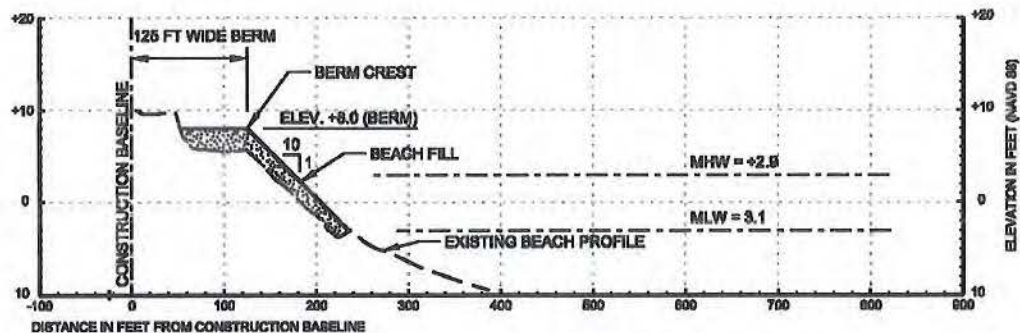
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

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 Checked by: AET
 Dated: FEBRUARY 2013

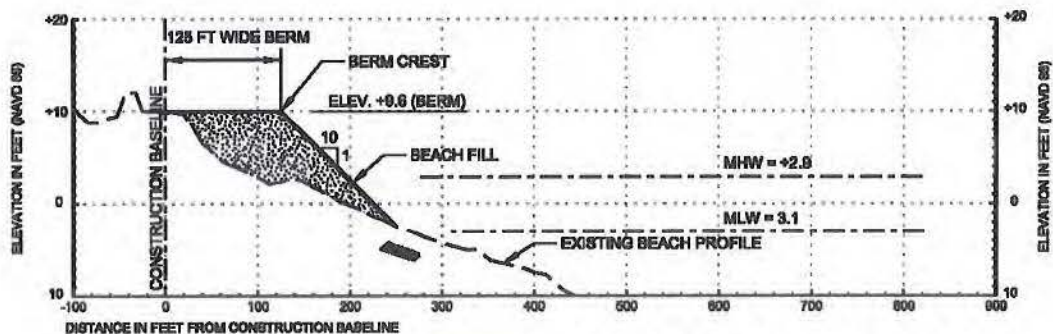
NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 BEACH DISPOSAL SECTIONS

PLATE

C-33

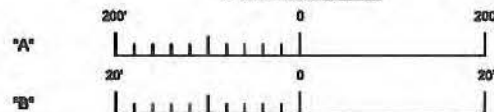


AD TYPICAL SOUTH JETTY DISPOSAL AREA (D/A-SJ) PLACEMENT SECTION
 C-20
 HORIZ = SCALE: A
 VERT = SCALE: B



AB TYPICAL NORTH BEACH DISPOSAL AREA (D/A-NB) PLACEMENT SECTION
 C-20
 HORIZ = SCALE: A
 VERT = SCALE: B

GRAPHIC SCALES



US Army Corps
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Jacksonville District

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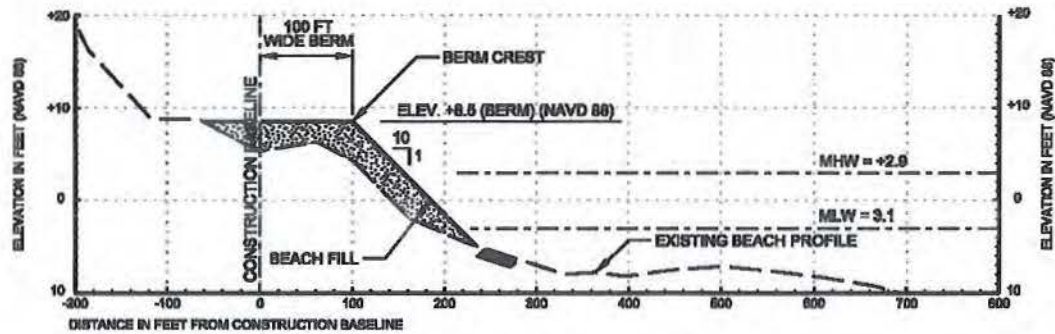
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Des by:
JWL
Dwn by:
DBV / MR2
Clcd by:
AET
Date:
FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
SECTION 10/404 PERMIT PLATES
BEACH DISPOSAL SECTIONS

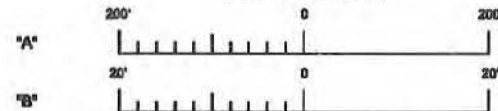
PLATE

C-34



AP **TYPICAL SOUTH BEACH DISPOSAL AREA (D/A-SB) PLACEMENT SECTION**
C-35 HORIZ = SCALE: A
 VERT = SCALE: B

GRAPHIC SCALES



US Army Corps
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Jacksonville District

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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

Des by: JWL
 Des by: DSJ / MR2
 Cld by: AET
 Dated: FEBRUARY 2013

NAVAL SUBMARINE BASE KINGS BAY
 NASSAU COUNTY, FLORIDA AND CAMDEN COUNTY, GEORGIA
 ENTRANCE AND INNER CHANNEL MAINTENANCE DREDGING PROJECTS
 SECTION 10/404 PERMIT PLATES
 BEACH DISPOSAL SECTIONS

PLATE

C-35

Georgia Department of Natural Resources **Environmental Protection Division**

2 Martin Luther King Jr. Drive, Suite 1456, Atlanta, Georgia 30334
Judson H. Turner, Director
(404) 656-4713

MAY 13 2014

Capt. H.L. Guffy
U.S. Navy, Kings Bay Submarine Base
1063 USS Tennessee Ave.
Kings Bay, Georgia 31547-2606

Re: Water Quality Certification
Joint Public Notice No. SAS-2005-01790
Kings Bay Inner/Entrance Channels Maintenance Dredging
Coastal Zone
Camden County

Dear Capt. Guffy:

Pursuant to Section 401 of the Federal Clean Water Act, the State of Georgia issues this certification to the U.S. Navy, Kings Bay Submarine Base, an applicant for a federal permit or license to conduct an activity in, on or adjacent to the waters of the State of Georgia. This certification supersedes the prior certification issued to you on March 12, 2014.

The State of Georgia certifies that there is no applicable provision of Section 301; no limitation under Section 302; no standard under Section 306; and no standard under Section 307, for the applicant's activity. The State of Georgia certifies that the applicant's activity will comply with all applicable provisions of Section 303.

This certification is contingent upon the following conditions:

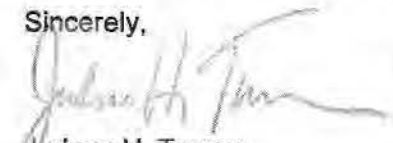
1. All work performed during construction will be done in a manner so as not to violate applicable water quality standards.
2. No oils, grease, materials or other pollutants will be discharged from the construction activities which reach public waters.
3. The applicant must notify Georgia EPD of any modifications to the proposed activity.
4. All hopper dredging activities must be restricted to December 15 through March 31, when sea turtles are least abundant, unless prior approval is obtained from the Georgia DNR Wildlife Resources Division. This time period is consistent with the recommendations of the NIMFS South Atlantic Regional Biological Opinion and the Corps' South Atlantic Division Protocols. Please contact Mr. Mark Dodd of the Wildlife Resources Division for approval, at (912) 506-7260 or Mark.Dodd@dnr.state.ga.us. Sea turtle takes must be reported to the Wildlife Resources Division within 24 hours. Hopper dredging activities will be halted if sea turtle takes exceed the limits specified by NOAA. Bed leveling equipment may not be used unless approved by Georgia DNR.

5. Hopper dredges must utilize protected species observers, and have 100% inflow and outflow screening that is kept functional to the maximum extent practicable. A copy of all Inspection Checklists for hopper dredge operations should be provided to the Georgia DNNR, Wildlife Resources Division after each inspection. Copies should be sent to the attention of Mr. Mark Dodd, Senior Wildlife Biologist, One Conservation Way, Brunswick, GA 31522, or via email, Mark.Dodd@dnr.state.ga.us.
6. Kings Bay and Corps Jacksonville District (SAJ) personnel should coordinate access to all available hopper dredge events with Georgia DNR personnel, to enable observation and inspection of sea turtle monitoring and protection equipment (inflow, outflow, draghead deflectors).
7. The project shall be periodically reviewed by Georgia EPD to consider changed conditions that may affect this 401 certification, including but not limited to new dredging technologies, environmental conditions, laws, regulations, and modifications to the project. It is expected that these reviews would generally be performed annually. The 401 certification will be modified as appropriate.

This certification does not relieve the applicant of any obligation or responsibility for complying with the provisions of any other laws or regulations of other federal, state or local authorities.

It is your responsibility to submit this certification to the appropriate federal agency.

Sincerely,



Judson H. Turner
Director

cc: Ms. Kimberly Garvey, Corps
Ms. Sherelle Reinhardt, Corps
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