

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE	PAGE OF PAGES 1   2
2. AMENDMENT/MODIFICATION NO. 0004		3. EFFECTIVE DATE 07/21/03	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Army Engineer District, Wilmington 69 Darlington Avenue (28403) Post Office Box 1890 (28402-1890) Wilmington, North Carolina		CODE	7. ADMINISTERED BY (If other than Item 6)	CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)			(X)	9A. AMENDMENT OF SOLICITATION NO. DACW54-02-B-0020	
			X	9B. DATED (SEE ITEM 11) 04/25/03	
				10A. MODIFICATION OF CONTRACT/ORDER NO.	
				10B. DATED (SEE ITEM 11)	
CODE	FACILITY CODE				

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended,  is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:  
(a) By completing items 8 and 15, and returning 2 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.  
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

**E. IMPORTANT:** Contractor  is not,  is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)  
IFB NO. DACW54-02-B-0020...Wilmington Harbor, NC 96 ACT Clean Sweep, Horseshoe Shoal Channel Sta 00+00 thru Baldhead Shoal Channel Sta 270+00 Dredging, New Hanover and Brunswick Counties, North Carolina is amended as follows:

a. **SECTION 00010** - SF 1442 SOLICITATION CONTRACT FORM

(1) Delete existing SF 1442 (Front/Back) in their entirety and replace with enclosed revised SF 1442 (Front/Back).

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR		16B. UNITED STATES OF AMERICA	
15C. DATE SIGNED		16C. DATE SIGNED	
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

(2) Delete Page 3, Page 4, and Page 5 in their entirety and replace with enclosed revised Pages (Line Item 0003 on Page 4 is changed from 900,000 Cubic Yards to read 1,300,000 Cubic Yards).

**SECTION 01100** - SUPPLEMENTARY SPECIAL CONTRACT REQUIREMENTS

(1) Delete existing Page 15, Page 16 and Page 17 in their entirety and replace with enclosed revised Page 15, Page 16 and Page 17.

(2) Delete existing Attachment 1 text page in its entirety and replace with enclosed revised Attachment 1 text page.

**SECTION 02325** - DREDGING

(1) Delete existing Page 8 in its entirety and replace with enclosed revised Page 8.

(2) Delete existing Table 1 enclosure in its entirety and replace with enclosed revised Table 1.

**NOTE:**

Text that is added or revised by this amendment is replaced in its entirety and printed in bold and/or stamped appropriately.

The text changes may have necessitated reformatting of subsequent text or pages. If this is the case, those pages have also been issued as amended pages but are not underlined with bold text.

**DRAWINGS:**

(1) Delete the following drawings and replace with revised like-numbered drawings.

Plate Nos.: P-1, P-3, P-5, P-6, P-9, P-13, P-15, P-17, P-19, P-21, P-22, P-31, and P-36.

(2) Add the following drawings:

Plate Nos.: P-31A, P-31B, P-36A, and P-36B.

(End of Summary of Changes)

Encls  
As stated

<b>SOLICITATION, OFFER, AND AWARD</b> <i>(Construction, Alteration, or Repair)</i>	1. SOLICITATION NO. DACW54-02-B-0020-0004	2. TYPE OF SOLICITATION <input checked="" type="checkbox"/> SEALED BID (IFB) <input type="checkbox"/> NEGOTIATED (RFP)	3. DATE ISSUED 25-Apr-2003	PAGE OF PAGES 1 OF 161
	<b>IMPORTANT - The "offer" section on the reverse must be fully completed by offeror.</b>			

**IMPORTANT - The "offer" section on the reverse must be fully completed by offeror.**

4. CONTRACT NO.	5. REQUISITION/PURCHASE REQUEST NO. W81LJ8-2252-7512	6. PROJECT NO.
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7. ISSUED BY USAED, WILMINGTON -(910)251-4424 ATTN: DANNY R KISSAM P O BOX 1890 (28402-1890) 69 DARLINGTON AVE (28403) WILMINGTON NC 28402-1890 TEL:(910) 251-4424 FAX: (910) 251-4454	CODE DACW54	8. ADDRESS OFFER TO <i>(If Other Than Item 7)</i> USAED, WILMINGTON (910) 251-4422 ATTN: CHARLENNE FIGGINS PO BOX 1890 69 DARLINGTON AVE(28403) WILMINGTON NC 28402-1890 TEL:(910) 251-4422 FAX: (910) 251-4454	CODE DACW54
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9. FOR INFORMATION CALL:	A. NAME DANNY R. KISSAM	B. TELEPHONE NO. <i>(Include area code) (NO COLLECT CALLS)</i> (910) 251-4424
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**SOLICITATION**

**NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".**

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS *(Title, identifying no., date)*:

SPECIFICATIONS FOR DACW54-02-B-0020, CLEAN SWEEP, DREDGING, BALDHEAD SHOAL OUTER REACH (STA 260+00) THRU HORSESHOE SHOAL (STA 00+00), WILMINGTON HARBOR, NC-96 ACT

(ESTIMATED COST RANGE OF PROJECT IS MORE THAN \$10,000,000)

(UNRESTRICTED)

NOTE #1: RETURN SECTION 00600, REPRESENTATIONS & CERTIFICATIONS, ALONG WITH ALL OTHER INFORMATION REQUESTED IN SECTION 00100, CLAUSE 52.0000-4002, WITH BID SUBMITTAL.

NOTE #2: VERBAL OR WRITTEN REQUESTS FOR INFORMATION MUST BE DIRECTED TO THE PERSON LISTED IN BLOCK 9 ABOVE. INQUIRIES AND REQUESTS THAT ARE DIRECTED TO ANY OTHER PERSON MAY NOT BE RELAYED TO THE PROPER PERSON, AND THEREFORE, MAY NOT BE ANSWERED. SEE 52.000-4001 IN SECTION 00100.

NOTE #3: DUE TO INCREASED SECURITY, PLEASE ALLOW FOR DELAYS OF APPROXIMATELY 45 MINUTES FOR PERSONS AND MATERIALS ENTERING THE DISTRICT HEADQUARTERS BUILDING.

11. The Contractor shall begin performance within 10 calendar days and complete it within 200 calendar days after receiving  award,  notice to proceed. This performance period is  mandatory,  negotiable. (See \_\_\_\_\_.)

12 A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS? <i>(If "YES," indicate within how many calendar days after award in Item 12B.)</i> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	12B. CALENDAR DAYS 10
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13. ADDITIONAL SOLICITATION REQUIREMENTS:

A. Sealed offers in original and 2 copies to perform the work required are due at the place specified in Item 8 by 02:00 PM (hour) local time 15 Sep 2003 (date). If this is a sealed bid solicitation, offers must be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.

B. An offer guarantee  is,  is not required.

C. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.

D. Offers providing less than 60 calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

**SOLICITATION, OFFER, AND AWARD (Continued)**

*(Construction, Alteration, or Repair)*

**OFFER (Must be fully completed by offeror)**

14. NAME AND ADDRESS OF OFFEROR <i>(Include ZIP Code)</i>  CODE _____ FACILITY CODE _____	15. TELEPHONE NO. <i>(Include area code)</i>  16. REMITTANCE ADDRESS <i>(Include only if different than Item 14)</i>  <p align="center"><b>See Item 14</b></p>
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17. The offeror agrees to perform the work required at the prices specified below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government in writing within \_\_\_\_\_ calendar days after the date offers are due. *(Insert any number equal to or greater than the minimum requirements stated in Item 13D. Failure to insert any number means the offeror accepts the minimum in Item 13D.)*

AMOUNTS	SEE SCHEDULE OF PRICES
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18. The offeror agrees to furnish any required performance and payment bonds.

**19. ACKNOWLEDGMENT OF AMENDMENTS**

*(The offeror acknowledges receipt of amendments to the solicitation -- give number and date of each)*

AMENDMENT NO.	DATE								

20A. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER <i>(Type or print)</i>	20B. SIGNATURE	20C. OFFER DATE
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**AWARD (To be completed by Government)**

21. ITEMS ACCEPTED:

22. AMOUNT	23. ACCOUNTING AND APPROPRIATION DATA
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24. SUBMIT INVOICES TO ADDRESS SHOWN IN <i>(4 copies unless otherwise specified)</i>	ITEM	25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO <input type="checkbox"/> 10 U.S.C. 2304(c) <input type="checkbox"/> 41 U.S.C. 253(c)
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26. ADMINISTERED BY CODE _____	27. PAYMENT WILL BE MADE BY: CODE _____
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**CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE**

<input type="checkbox"/> 28. NEGOTIATED AGREEMENT <i>(Contractor is required to sign this document and return _____ copies to issuing office.)</i> Contractor agrees to furnish and deliver all items or perform all work, requisitions identified on this form and any continuation sheets for the consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations, certifications, and specifications or incorporated by reference in or attached to this contract.	<input type="checkbox"/> 29. AWARD <i>(Contractor is not required to sign this document.)</i> Your offer on this solicitation, is hereby accepted as to the items listed. This award consummates the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.
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30A. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN <i>(Type or print)</i>	31A. NAME OF CONTRACTING OFFICER <i>(Type or print)</i>	
30B. SIGNATURE	30C. DATE	TEL: _____ EMAIL: _____
		31B. UNITED STATES OF AMERICA BY
		31C. AWARD DATE

Section 00010 - Solicitation Contract Form

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001	MOBILIZATION AND DEMOBILIZATION FFP PURCHASE REQUEST NUMBER: W81LJ8-2252-7512	1	Lump Sum		

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NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	DREDGING FFP with disposal to the ODMDS in accordance with the plans and specifications. All Quantities are Estimated. Quantities include required depth, allowable overdepth and anticipated shoaling in the contract area.	3,000,000	Cubic Yard		

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NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003		1,300,000	Cubic Yard		

DREDGING

FFP

with Disposal to placed on designated Beach Areas in accordance with the plans and specifications. All Quantities are Estimated. Quantities include required depth, allowable overdepth and anticipated shoaling in the contract area.

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NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004		250,000	Cubic Yard		

DREDGING

FFP

with disposal to the designated Bird Islands in accordance with the plans and specifications. All Quantities are Estimated. Quantities include required depth, allowable overdepth and anticipated shoaling in the contract area.

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NET AMT

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005		1	Lump Sum		
	PERFORMANCE AND PAYMENT BONDS				
	FFP				

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NET AMT

FOB: Destination

TOTAL AMOUNT

TOTAL AMOUNT OF LINE ITEMS 0001 through 0005 \$ \_\_\_\_\_

#### PRE-AWARD INFORMATION

Contracts shall be awarded to responsible prospective contractors.

Before award, to be determined responsible, a prospective contractor must:

**THE FOLLOWING INFORMATION MUST BE SUBMITTED WITH BID**

- a. Have adequate financial resources to perform the contract, or the ability to obtain them;
- b. Be able to comply with the required or proposed delivery or performance schedule, taking into consideration all existing commercial and government business commitments;
- c. Have a Satisfactory performance record;
- d. Have necessary, or be able to obtain necessary, equipment to perform this work in accordance with specifications and time specified;
- e. Furnish a completed Small Business Subcontracting Plan (LARGE BUSINESS ONLY).

indicated on the drawings to a minimum distance of 1,500 feet seaward of baseline. Elevations and ocean soundings shall be taken generally at 25-foot intervals and at all break points.

(2) Postplacement surveys shall be made as soon as possible after placement of the fill. The Contractor shall use the same stations that were used in the preplacement surveys. Elevations and ocean soundings shall be taken at 25-foot intervals and at all break points. All sections shall extend from the baseline to a distance offshore not less than 1,500 feet or as needed to indicate the intersection of beach fill with the preplacement bottom profile. In the event the first examination shows additional work is required in an area prior to its acceptance, additional elevations and/or soundings will be required only in the area where additional work is required. Elevations and soundings will continue to be taken until such area is acceptable.

(c) Unless waived in each specific case, all surveys made by the Contractor shall be conducted in the presence of a representative of the Contracting Officer.

(d) The Government reserves the right to make such surveys as necessary for verification of surveys made by the Contractor.

(e) The Contractor shall furnish to the Government copies of all Beach surveys taken as required on a 3.5 inch, high density, microdisks. The points along the beach survey shall be presented in ASCII format and in x, y, z, coordinates or northing, easting, elevation. The survey information will be used by the government to control and make adjustments to the volume of beach fill placed along the beach.

(f) In addition to the above requirements, the Contractor shall compute beach fill volumes for the contract typical sections based on the preplacement surveys as described herein above. The Contractor shall also compute beach fill volumes for construction template with a +0.5 foot vertical tolerance and a -0.5 foot vertical tolerance. Paper plots of the profiles along with digital records of the surveys and computations shall be furnished to the Government.

#### 1.27 FINAL EXAMINATION AND ACCEPTANCE OF BEACH FILL

(a) After the completion of each contiguous 2500-foot acceptance section of beach fill, the Contracting Officer's Representative will thoroughly examine the section, including the Contractor's soundings or surveys, for final acceptance and payment. The order of work for acceptance sections shall be as follows:

1. Station 51+00 to 76+00	2500-foot Acceptance Section
2. Station 76+00 to 101+00	2500-foot Acceptance Section
3. Station 101+00 to 126+00	2500-foot Acceptance Section
4. Station 126+00 to 149+00	2500-foot Acceptance Section
5. Station 149+00 to 174+00	<b>2500-foot Acceptance Section</b>
6. Station 174+00 to 190+00	<b>1600-foot Acceptance Section</b>

Acceptance sections less than 2500 feet may occur if a shorter section would complete the work, or, no damage to further operations associated

with the contract will occur in the opinion of the Contracting Officer's Representative. The Contracting Officer or authorized representative shall be notified when beach fill soundings and/or surveys are to be made and will be permitted to accompany the survey party; the surveys and/or soundings will occur prior to beach tilling and final acceptance of the section. Requirements for final acceptance shall include proper grading, beach tilling, and removal of all material, equipment, and temporary grade stakes, including beach fill pipeline. See Section 02325, Payments, regarding payment for dredging borrow areas associated with the beach fill.

Should this examination disclose deficiencies of material in the beach fill acceptance section, the Contractor shall be required to place additional material at the contract unit price until the fill requirements are met. If examination shows that material has been deposited elsewhere other than in places designated or approved by the Contracting Officer, the Contractor may be required to remove such misplaced material and deposit it where directed at the Contractor's expense.

(b) Final acceptance of the whole or part of the work and the deductions or corrections of deductions made thereon will not be reopened after having once been made, except on evidence of collusion, fraud, or obvious error.

(c) The Village of Baldhead Island intends to issue a contract to rehabilitate the existing tube groins concurrently with this contract. The order of work beach fill completion acceptance sections noted above are intended to facilitate the coordination of the tube groin construction. The approximate locations of the existing tube groins are noted on the beach fill area drawings. Any offshore submerged dredging pipeline shall not be placed within 500 feet of the beach fill landward tie-in to avoid interference with the tube groin construction by others.

#### 1.28 SEAGOING BARGE

The Seagoing Barge Act (4. U.S.C. et seq.) applies to this project. In the event the low bidder contemplates using plant that requires U.S. Coast Guard certification to comply with this Act, the low bidder shall within ten (10) calendar days after bid opening submit a copy of said certificate to the Contracting Officer. Failure to produce the certificate within the required time shall subject the bidder to a determination of nonresponsibility.

#### 1.29 CONTRACT DRAWINGS AND SPECIFICATIONS (AUG 2000) DFARS 252.236-7001

(a) The Government will provide to the Contractor, without charge, five (5) sets of contract drawings and specifications, except publications incorporated into the technical provisions by reference, in electronic or paper media as chosen by the Contracting Officer.

(b) The Contractor shall-

- (1) Check all drawings furnished immediately upon receipt;
- (2) Compare all drawings and verify the figures before laying out the work;

(3) Promptly notify the Contracting Officer of any discrepancies;

(4) Be responsible for any errors that might have been avoided by complying with this paragraph (b); and

(5) Reproduce and print contract drawings and specifications as needed.

(c) In general--

(1) Large-scale drawings shall govern small-scale drawings; and

(2) The Contractor shall follow figures marked on drawings in preference to scale measurements.

(d) Omissions from the drawings or specifications or the misdescription of details of work that are manifestly necessary to carry out the intent of the drawings and specifications, or that are customarily performed, shall not relieve the Contractor from performing such omitted or misdescribed details of the work. The Contractor shall perform such details as if fully and correctly set forth and described in the drawings and specifications.

(e) The work shall conform to the specifications and the contract drawings identified on the following index of drawings (Attachment 1).

# **ATTACHMENT 1**

## **INDEX OF DRAWINGS**

WILMINGTON HARBOR CLEAN SWEEP			
Plate No.	Sheet No.	Title	Dgn File
P-1	1	INDEX OF DRAWINGS	clswpindx
P-2	2	LOCATION MAP	clswploc
P-3	3	HORSESHOE SHOAL CHANNEL	horchncs
P-4	4	HORSESHOE SHOAL BORING LOCATIONS AND TOP OF ROCK CONTOURS	hortorcs
P-5	5	SNOWS MARSH CHANNEL STA 0+00 TO 50+00	snomshchncs
P-6	6	SNOWS MARSH CHANNEL STA 50+00 TO 157+75.12	snomshchncs
P-7	7	SNOWS MARSH CHANNEL BORING LOCATIONS AND TOP OF ROCK CONTOURS STA 0+00 TO 50+00	snomtorcs
P-8	8	SNOWS MARSH CHANNEL BORING LOCATIONS AND TOP OF ROCK CONTOURS STA 50+00 TO 157+75.12	snomtorcs
P-9	9	LOWER SWASH CHANNEL	lswhchncs
P-10	10	LOWER SWASH CHANNEL BORING LOCATIONS AND TOP OF ROCK CONTOURS	lswhtorcs
P-11	11	FERRY SLIP ISLAND DISPOSAL AREA	ferryslip
P-12	12	SOUTH PELICAN ISLAND DISPOSAL AREA	spellcan
P-13	13	BATTERY ISLAND CHANNEL	batichncs
P-14	14	BATTERY ISLAND CHANNEL BORING LOCATIONS AND TOP OF ROCK CONTOURS	batitorcs
P-15	15	SOUTHPORT CHANNEL	sptchncs
P-16	16	SOUTHPORT CHANNEL BORING LOCATIONS AND TOP OF ROCK CONTOURS	sptorcs
P-17	17	BALDHEAD - CASWELL CHANNEL	bcaschncs
P-18	18	BALDHEAD - CASWELL CHANNEL BORING LOCATIONS AND TOP OF ROCK CONTOURS	bcastorcs
P-19	19	SMITH ISLAND CHANNEL	smhichncs
P-20	20	SMITH ISLAND CHANNEL BORING LOCATIONS AND TOP OF ROCK CONTOURS	smhtorcs
P-21	21	BALDHEAD SHOAL CHANNEL STA 0+00 TO 85+00	nbhschncs
P-22	22	BALDHEAD SHOAL CHANNEL STA 85+00 TO 215+00	nbhschncs
P-23	23	BALDHEAD SHOAL CHANNEL STA 215+00 TO 270+00	nbhschncs
P-24	24	BALDHEAD SHOAL CHANNEL BORING LOCATIONS AND TOP OF ROCK CONTOURS STA 0+00 TO 85+00	nbhstorcs
P-25	25	BALDHEAD SHOAL CHANNEL BORING LOCATIONS AND TOP OF ROCK CONTOURS STA 85+00 TO 215+00	nbhstorcs
P-26	26	BALDHEAD SHOAL CHANNEL BORING LOCATIONS AND TOP OF ROCK CONTOURS STA 173+00 TO 191+00	borecluster1
P-27	27	BALDHEAD SHOAL CHANNEL BORING LOCATIONS AND TOP OF ROCK CONTOURS STA 215+00 TO 270+00	nbhstorcs
P-28	28	BEACH FILL AREA BALDHEAD ISLAND SOUTH STA 51+00 TO 76+00	baldhead83a
P-29	29	BEACH FILL AREA BALDHEAD ISLAND SOUTH STA 76+00 TO 100+00	baldhead83a
P-30	30	BEACH FILL AREA BALDHEAD ISLAND SOUTH STA 100+00 TO 125+00	baldhead83a
P-31	31	BEACH FILL AREA BALDHEAD ISLAND SOUTH STA 125+00 TO 151+00	baldhead83c
P-31A	31A	BEACH FILL AREA BALDHEAD ISLAND SOUTH STA 151+00 TO 176+00	baldhead83c
P-31B	31B	BEACH FILL AREA BALDHEAD ISLAND SOUTH STA 176+00 TO 190+00	baldhead83c
P-32	32	BEACH FILL AREA CROSS SECTIONS STA 51+00 TO 68+00	bhxsecta
P-33	33	BEACH FILL AREA CROSS SECTIONS STA 72+00 TO 92+00	bhxsecta
P-34	34	BEACH FILL AREA CROSS SECTIONS STA 96+00 TO 116+00	bhxsecta
P-35	35	BEACH FILL AREA CROSS SECTIONS STA 120+00 TO 140+00	bhxsecta
P-36	36	BEACH FILL AREA CROSS SECTIONS STA 144+00 TO 164+00	bhxsectc
P-36A	36A	BEACH FILL AREA CROSS SECTIONS STA 168+00 TO 185+00	bhxsectc
P-36B	36B	BEACH FILL AREA CROSS SECTIONS STA 187+50 TO 190+00	bhxsectc
P-37	37	NEW OCEAN DREDGED MATERIAL DISPOSAL SITE (ODMDS)	newodmdscs
P-38	38	DISPOSAL AREA No. 4 (ALTERNATE SITE)	da4postsur
<i>Reference Drawings</i>			
R-1		LOWER SWASH CHANNEL	lswh025
R-2		SNOWS MARSH 50+00 - 157+75	snm135cs
R-3		SNOWS MARSH 0+00 - 50+00	snm135cs
R-4		HORSESHOE SHOAL	hss133cs
R-5		BALDHEAD SHOAL CHANNEL STA 30+00 - 80+00 REACH 3	nbhs0911
R-6		BALDHEAD SHOAL CHANNEL STA 0+00 - 85+00 REACH 1 AND 2	nbhs0813
R-7		BALDHEAD SHOAL CHANNEL STA 0+00 - 85+00 REACH 1 AND 2	nbhs0620
R-8		BALDHEAD SHOAL CHANNEL STA 0+00 - 85+00 REACH 1 AND 2	nbh0502
R-9		BALDHEAD SHOAL CHANNEL STA 345+00 - 355+00	nbhs199
R-10		BALDHEAD SHOAL CHANNEL STA 85+00 - 215+00	nbhs199
R-11		BALDHEAD SHOAL CHANNEL STA 85+00 - 130+00 REACH 3	nbhs0911
R-12		BALDHEAD SHOAL CHANNEL STA 85+00 - 130+00 REACH 3	bhs0528
R-13		BALDHEAD SHOAL CHANNEL STA 85+00 - 130+00 REACH 3	nbh30522
R-14		BALDHEAD SHOAL CHANNEL STA 85+00 - 130+00 REACH 3	bhs0606
R-15		BALDHEAD SHOAL CHANNEL STA 85+00 - 130+00 REACH 3	nbs0730
R-16		BALDHEAD SHOAL CHANNEL STA 0+00 - 85+00 REACH 1 AND 2	nbs0730
R-17		BALDHEAD SHOAL CHANNEL STA 30+00 - 80+00 REACH 1 AND 2	nbhs290
R-18		BALDHEAD SHOAL CHANNEL STA 30+00 - 60+00 REACH 1	bhs1029
R-19		SMITH ISLAND CHANNEL	smi0912
R-20		BALDHEAD - CASWELL CHANNEL	cas0226
R-21		SOUTHPORT CHANNEL	spt031ad
R-22		BATTERY ISLAND CHANNEL	bat0221
R-23		BALDHEAD SHOAL CHANNEL 120+00 - 185+00	bhs09ad
R-24		BALDHEAD SHOAL CHANNEL 155+00 - 220+00	bhs129ad
R-25		BALDHEAD SHOAL CHANNEL 190+00 - 215+00	nbh121ad
R-26		BALDHEAD SHOAL CHANNEL 215+00 - 222+00	nbh121ad
R-27		BALDHEAD SHOAL CHANNEL 220+00 - 270+00	bhs094ad
R-28		BALDHEAD SHOAL CHANNEL 260+00 - 290+00	bhs099ad
R-29		BALDHEAD SHOAL CHANNEL 280+00 - 320+00	bhs092ad

<u>Acceptance Sections</u>	<u>Total Cubic Yards to Required Depth</u>	<u>Total Including Allowable Overdepth</u>
Horseshoe Shoal <sup>1</sup>	25,000 <sup>(42')</sup>	60,000 <sup>(44')</sup>
Snow's Marsh <sup>1</sup>	60,000 <sup>(42')</sup>	150,000 <sup>(44')</sup>
Lower Swash <sup>1</sup>	15,000 <sup>(42')</sup>	40,000 <sup>(44')</sup>
Battery Island <sup>2</sup>	10,000 <sup>(44')</sup>	20,000 <sup>(46')</sup>
Southport <sup>2</sup>	10,000 <sup>(44')</sup>	20,000 <sup>(46')</sup>
Baldhead Caswell <sup>2</sup>	5,000 <sup>(44')</sup>	10,000 <sup>(46')</sup>
Smith Island <sup>2</sup>	450,000 <sup>(44')</sup>	550,000 <sup>(46')</sup>
Baldhead Shoal <sup>2</sup> 00+00 to 45+00	300,000 <sup>(44')</sup>	400,000 <sup>(46')</sup>
Baldhead Shoal <sup>2</sup> 45+00 to 88+00	150,000 <sup>(44')</sup>	300,000 <sup>(46')</sup>
Baldhead Shoal <sup>3</sup> 88+00 to 150+00	1,000,000 <sup>(45')</sup>	1,500,000 <sup>(47')</sup>
Baldhead Shoal <sup>3</sup> 150+00 to 270+00	1,000,000 <sup>(45')</sup>	1,500,000 <sup>(47')</sup>

## NOTE:

\*Acceptance sections for the channels that are borrow areas for the beach fill shall be divided appropriately to facilitate completion of the beach fill acceptance sections. See Section 01100, Final Examination and Acceptance of Beach Fill.

## NOTE:

<sup>1</sup>Disposal to South Pelican Island and Ferry Slip Island until filled to capacity (DA #4 is alternate site for additional material after filling of islands and any unsuitable material)

<sup>2</sup>Disposal to Baldhead Island South Beach (unsuitable material to new ODMS)

<sup>3</sup>Disposal to ODMS (additional foot of required depth because of nature of material to facilitate future maintenance dredging)

# **TABLE 1**

## **ESTIMATED BEACH-FILL QUANTITIES FOR BALDHEAD ISLAND SOUTH BEACH**

**Table 1 - Estimated Beach Fill Quantities for Bald Head Island South Beach**

Baseline STA	In Place Fill Volume (CY)		Borrow Area Measure (CY)	
	Incremental Volume	Cumulative Volume	Incremental Volume	Cumulative Volume
51+00	0	0	0	0
52+00	971	971	1,214	1,214
56+00	17,756	18,727	22,195	23,409
60+00	29,240	47,967	36,550	59,959
64+00	31,536	79,503	39,420	99,379
68+00	29,153	108,656	36,441	135,820
72+00	30,721	139,377	38,401	174,221
76+00	37,702	177,079	47,128	221,349
80+00	40,136	217,215	50,170	271,519
84+00	37,299	254,514	46,624	318,143
88+00	36,335	290,849	45,419	363,561
92+00	34,396	325,245	42,995	406,556
96+00	31,628	356,873	39,535	446,091
100+00	30,247	387,120	37,809	483,900
104+00	25,822	412,942	32,278	516,178
108+00	24,832	437,774	31,040	547,218
112+00	27,895	465,669	34,869	582,086
116+00	27,696	493,365	34,620	616,706
120+00	25,032	518,397	31,290	647,996
124+00	29,642	548,039	37,053	685,049
128+00	33,257	581,296	41,571	726,620
132+00	31,071	612,367	38,839	765,459
136+00	30,004	642,371	37,505	802,964
140+00	31,500	673,871	39,375	842,339
144+00	30,816	704,687	38,520	880,859
148+00	29,097	733,784	36,371	917,230
152+00	27,920	761,704	34,900	952,130
156+00	27,032	788,736	33,790	985,920
160+00	29,353	818,089	36,691	1,022,611
164+00	33,528	851,617	41,910	1,064,521
168+00	35,836	887,453	44,795	1,109,316
172+00	37,000	924,453	46,250	1,155,566
176+00	39,610	964,063	49,513	1,205,079
180+00	40,025	1,004,088	50,031	1,255,110
184+00	39,875	1,043,963	49,844	1,304,954
185+00	8,825	1,052,788	11,031	1,315,985
187+50	16,273	1,069,061	20,341	1,336,326
190+00	5,578	1,074,639	6,973	1,343,299

(Revised by Amendment No. 0004)