

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			I. CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO. 0002			J	1 1
3. EFFECTIVE DATE 26-Apr-2004		4. REQUISITION/PURCHASE REQ. NO. W32CS540149914		5. PROJECT NO.(If applicable)
6. ISSUED BY CODE W912EP USA ENGINEER DISTRICT, JACKSONVILLE PRUDENTIAL OFFICE BLDG 701 SAN MARCO BLVD ATTN: CESAJ-CT JACKSONVILLE FL 32207-8175		7. ADMINISTERED BY (If other than item 6) CODE See Item 6		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. W912EP-04-B-0006
			X	9B. DATED (SEE ITEM 11) 31-Mar-2004
				10A. MOD. OF CONTRACT/ORDER NO.
				10B. DATED (SEE ITEM 13)
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended.				
Offer 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 _____ 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 you 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 APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
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 <input type="checkbox"/> is not, <input type="checkbox"/> 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.) SHORE PROTECTION PROJECT, LONG KEY & TREASURE ISLAND BEACH RENOURISHMENT 2004, PINELLAS COUNTY, FLORIDA Any enclosures accompanying this amendment should be inserted in the plans and/or specifications as applicable. All superseded materials should be removed or adequately marked to indicate that they have been superseded. BID OPENING DATE REMAINS 04 MAY 2004, 2:00 P.M. (See Attached SF30 Continuation Sheets)				
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)	
			TEL:	EMAIL:
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)	
			16C. DATE SIGNED 26-Apr-2004	

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SF 30 CONTINUATION SHEET

Shore Protection Project, Pinellas County, Florida, Long Key and
Treasure Island Beach Renourishment 2004

On Standard Form 1442:

- a. **Change Block 10**, line 1 to read, "Shore Protection Project,
Long Key & Treasure Island Beach Renourishment 2004, Pinellas
County, Florida.
- b. **Change Block 8**, ADDRESS OFFER TO, to read, "See Block 7".

DESCRIPTIVE CHANGES TO SPECIFICATIONS: The following are descriptive
changes to the specifications. Specifications should be adequately
marked to indicate that they have been changed.

1. Some specification revisions include additions with underlined text
or deletions with line/cross-outs.

2. 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 marked with asterisks, underlining or
line/cross-outs.

SECTION 00100:

- a. Add the attached paragraph 999.209-1, SILENT INSPECTOR-HOPPER
DREDGES-SPECIAL STANDARD OF RESPONSIBILITY.
- b. On page 11, **delete** paragraph number 999.219-4002,
SUBCONTRACTING PLAN TARGET GOALS and replace with the attached revised
paragraph number 999.219-4002, SUBCONTRACTING PLAN TARGET GOALS.

SECTION 00600:

- a. **Add** the attached paragraph 999.204-4002 to page 10.
- b. On page 11, **delete** paragraph 999.209-4003

SECTION 00010A:

- a. **Remove** the old Section 00010A and **insert** the new Section
00010A.

SECTION 00320:

- a. On page 16, paragraph 2, lines 2 thru 5, **delete**, "A
statement shall be provided with the bid stating that it
was prepared after inspection of the samples. If no such
statement is submitted, the Government could find the bid
non-responsive."

SECTION 00330:

- a. **Add** pages 00330-36 thru 00330-54.

SECTION 01110:

- a. **Remove** the old Section 01110 and **insert** the new Section 01110.

SECTION 01270:

- a. **Remove** the old Section 01270 and **insert** the new Section 01270.

SECTION 01310:

- a. **Remove** the old Section 01310 and **insert** the new Section 01310.

SECTION 01330:

- a. **Remove** the old Submittal Register at the end of the Section and **insert** the new Submittal Register.

SECTION 01355:

- a. **Remove** the old Section 01355 and **insert** the new Section 01355.

SECTION 01411:

- a. On page 4, paragraph 3.2.2, line 7, **change** "24 hours" to "7 days".

SECTION 01500:

- a. **Remove** the old Section 01500 and **insert** the new Section 01500.

SECTION 02325:

- a. **Remove** the old Section 02325 and **insert** the new Section 02325.

DESCRIPTIVE CHANGES TO THE DRAWINGS: The following are descriptive changes to the drawings. Drawings should be adequately marked to indicate that they have been changed.

DRAWING 1/2:

- a. **Remove** the old Drawing 1/2 and **insert** the new Drawing 1/2.

DRAWING 2/4:

- a. **Remove** the old Drawing 2/4 and **insert** the new Drawing 2/4.

DRAWING 2/5:

- a. **Remove** the old Drawing 2/5 and **insert** the new Drawing 2/5.

DRAWING 2/6:

- a. **Remove** the old Drawing 2/6 and **insert** the new Drawing 2/6.

DRAWING 3/4:

- a. **Remove** the old Drawing 3/4 and **insert** the new Drawing 3/4.

The following have been added by full text:

SILENT INSPECTOR – HOPPER DREDGES – SPECIAL STANDARD OF RESPONSIBILITY

(a) The Silent Inspector (SI) is an automated dredge contract monitoring system comprised of both hardware and software developed by the Army Corps of Engineers (the Corps). The Corps developed the SI as a low cost, repeatable, impartial system for automated dredge monitoring. The SI consists of three major components: the Dredge Specific System (DSS), the Ship Server, and the Shore Server. The DSS collects and displays various dredge sensor data for the dredge crew to monitor dredge progress and quality control. The other major task of the DSS is to send data to the Ship Server. Most dredging contractors already have a computer system and sensors onboard for control or positioning that can be used as the DSS. The dredging contractor supplies and owns the DSS and all associated sensors. The Ship Server acts as the dredge-based data archive and report creation center by storing the data from the DSS and performing automated review of the data. The Ship Server can produce many different reports including dredge location history, volume history, and operational status. Additional information about SI can be found at <http://si.wes.army.mil/index.html>.

(b) As authorized by FAR 9.104-2, Contracting Officers may establish special standards of responsibility when necessary. The Contracting Officer has determined that use of the SI is necessary for work performed by hopper dredge. Therefore, in order to be considered responsible for performing this contract, the Offeror must establish prior to contract award that any hopper dredge to be used in performance of this contract has been outfitted with the SI system and the system has been certified by the Engineer Research and Development Center (ERDC) within the last year. Questions regarding certification should be addressed to the SI support team at 601-634-2923.

(End of paragraph No. 999.209-1)

The following included by full text have been revised:

SUBCONTRACTING PLAN TARGET GOALS

The offeror's attention is directed to the Small, Small Disadvantaged And Women Owned Small Business Subcontracting Plan clause of this solicitation. The clause and this paragraph do not apply to small business concerns.

(a) Where applicable, the offeror shall submit a subcontracting plan to the Contracting Officer for review and approval prior to contract award. The subcontracting plan may be submitted with the offer or after the date set for receipt of offers. If the plan is not submitted with the offer, the Contracting Officer will request the plan and specify the due date. The plan must contain all required elements set forth in the above referenced contract clause; must address basic contract requirements and options separately; and must demonstrate how the Contractor will accomplish the subcontracting requirements consistent with the obligations described in the clause. The plan will be evaluated in accordance with Army FAR Supplement (AFARS) Appendix DD, Subcontracting Plan Evaluation Guide. (AFARS is available on the worldwide web at

<http://dasapp.saalt.army.mil/Documents/AFARS%20conformed.doc> Appendix DD begins on page 202 of the document.)

Acceptability of the plan will be one of the elements considered by the Contracting Officer when determining contractor responsibility prior to award of a contract.

(b) The following subcontracting target goals are provided for informational purposes only. They are not legally binding.

Category	Target Goal
(1) Small Business Concerns	57.2%
(2) SBA Small Disadvantaged Business Concerns	10.0%
(3) Women-Owned Small Business Concerns	10.0%
(4) SBA HUBZone Small Business Concerns	3.0%
(5) Service-Disabled Veteran-Owned Small Business Concerns	3.0%

(Stated percentages are based on the total amount of planned subcontracting; not the price of the contract. These target goals do not apply to contracts for commercial items. See FAR Part 12. For definitions of small business concern, small disadvantaged business concern, and woman owned small business concern, see the Small Business Program Representations (FAR 52.219-1) provision in this section of this solicitation. For HUBZone small business concern qualifications, see FAR subpart 19.13.)

(c) After award of the contract and prior to commencement of work, the Deputy for Small Business will instruct the Contractor in the preparation and timely submission of required subcontracting reports (SF-294 and SF-295). Where practicable, the above briefing will take place during the pre-work conference.

(d) Additional information concerning subcontracting plan requirements may be obtained from Ms. Claudia Hundley, Deputy for Small Business, Phone: 904-232-1150, or email claudia.h.hundley@usace.army.mil.

(End of paragraph number 999.219-4002)

The following included by full text has been added:

ESTABLISHING AUTHORITY OF PERSON(S) WHO SIGN THE OFFER

The Offeror shall check the paragraph below that corresponds with the Offeror's status and shall submit appropriate documentation with the offer to confirm authority of person(s) who sign the offer.

___(a) *Individual*. A contract with an individual shall be signed by that individual. A contract with an individual doing business as a firm shall be signed by that individual, and the signature shall be followed by the individual's typed, stamped, or printed name and the words, "an individual doing business as _____" [*insert name of firm*].

___(b) *Partnership*. A contract with a partnership shall be signed in the partnership name. Before signing for the Government, the contracting officer shall obtain a list of all partners and ensure that the individual(s) signing for the partnership have authority to bind the partnership.

___(c) *Corporation*. A contract with a corporation shall be signed in the corporate name, followed by the word "by" and the signature and title of the person authorized to sign. The contracting officer shall ensure that the person signing for the corporation has authority to bind the corporation.

___(d) *Joint venture*. A contract with a joint venture may involve any combination of individuals, partnerships, or corporations. The contract shall be signed by each participant in the joint venture in the manner prescribed in paragraphs (a) through (c) above for each type of participant. When a corporation is participating, the contracting officer shall verify that the corporation is authorized to participate in the joint venture.

___(e) *Agent*. When an agent is to sign the contract, other than as stated in paragraphs (a) through (d) above, the agent's authorization to bind the principal must be established by evidence satisfactory to the contracting officer.

(End of paragraph number 999.204-4002)

SECTION 00010A

LINE ITEMS AND PRICING SCHEDULE

SHORE PROTECTION PROJECT, LONG KEY AND TREASURE ISLAND BEACH RENOURISHMENT 2004,
PINELLAS COUNTY, FLORIDA

LINE ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	TOTAL
0001	BASE BID (LONG KEY, UPHAM BEACH)				
0001AA	MOBILIZATION AND DEMOBILIZATION		LUMP SUM		\$ _____
0001AB	BEACH FILL (ESTIMATED QUANTITY)	250,000	CUBIC YARD	\$ _____	\$ _____
0001AC	BEACH TILLING (ESTIMATED QUANTITY)	5	ACRE	\$ _____	\$ _____
0001AD	TURBIDITY MONITORING		LUMP SUM		\$ _____
0001AE	CONSTRUCTION/VIBRATION CONTROLS AND MONITORING		LUMP SUM		\$ _____
* 0001AF	CONTAMINATION CONTAINMENT <u>OIL</u>		LUMP SUM		\$ _____
	TOTAL BASE				\$ _____
0002	OPTION A (TREASURE ISLAND)				
0002AA	MOBILIZATION AND DEMOBILIZATION		LUMP SUM		\$ _____
0002AB	BEACH FILL (ESTIMATED QUANTITY)	100,000	CUBIC YARD	\$ _____	\$ _____
0002AC	BEACH TILLING (ESTIMATED QUANTITY)	2.2	ACRE	\$ _____	\$ _____
0002AD	TURBIDITY MONITORING		LUMP SUM		\$ _____
0002AE	CONSTRUCTION/VIBRATION CONTROLS AND MONITORING		LUMP SUM		\$ _____
* 0002AF	CONTAMINATION CONTAINMENT <u>OIL</u>		LUMP SUM		\$ _____
	TOTAL OPTION A				\$ _____
	TOTAL LINE ITEMS 0001THRU 0002AF				\$ _____

NOTES: (1) BIDDERS MUST BID ON ALL LINE ITEMS. SEE PROVISION AT 52.214-18 (SECTION 00100).

(2) SEE SECTION 00100, "INSTRUCTIONS TO OFFERORS / EVALUATION FACTORS FOR AWARD".

(3) THE GOVERNMENT RESERVES THE RIGHT TO EXERCISE OPTIONAL ITEM(S) ANYTIME PRIOR TO DEMOBILIZATION OF EQUIPMENT. SEE CLAUSE 52.217-7 (SECTION 00700).

Monument ID: PI R 0126

Locality-Project : JOHNS PASS
Latitude : 0° 0' 0.00000"
X(E) : 246897.140
Zone : FLW
Horizontal Datum : NAD-27
Order : THIRD
State : FL
Monument Set By : FDNR

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1253989.710
Elevation : 5.4900
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1974
County : PINELLAS

Date Added : 940811

Date Changed : 040414

Recovered By :
Company (1) FORESIGHT
Person (1) D.RIORDAN
Date (1) 6/02
Condition (1) GOOD

(2) PBI
(2) SUBER
(2) 26/98
(2) GOOD

LOCATED AT TREASURE ISLAND, PINELLAS COUNTY, FLORIDA.

TO REACH FROM THE SOUTH END OF JOHNS PASS BRIDGE, GO WEST 89 FEET TO CONCRETE BULKHEAD AT THE SOUTH SIDE OF JOHNS PASS AND STATION LOCATION.

STATION IS LOCATED AT THE 0.60 FEET INSIDE OF CORNER OF CONCRETE BULKHEAD, 89 FEET WEST OF WEST SIDE OF BRIDGE; 1.9 FEET SOUTHEAST OF NORTHWEST P.I. OF CONCRETE BULKHEAD AND 15.7 FEET SOUTHWEST OF NORTHEAST CORNER OF CONCRETE BULKHEAD.

MARK IS A STANDARD FLORIDA DEPARTMENT OF NATURAL RESOURCES DISK SET FLUSH IN TOP OF A 4-INCH SQUARE PRECAST CONCRETE POST, 1.0 FOOT ABOVE GROUND AND STAMPED: "R-126 PNLs, 1974".

NEAREST LANDMARK IS JOHNS PASS SOUTHWEST SIDE, 0.3 FEET SOUTH OF SOUTH EDGE, 15.8 FEET WEST OF NORTHEAST CORNER OF SEAWALL, 35.5 FEET WEST OF WEST END OF GUARD RAIL, MONUMENT FLUSH AND LEVEL WITH SEAWALL AT NORTHWEST CORNER.

DNR ELEV. 5.49

Monument ID: PI R 0126 A

Locality-Project : JOHNS PASS
Latitude : 0° 0' 0.00000"
X(E) : 246841.278
Zone : FLW
Horizontal Datum : NAD-27/79
Order : THIRD
State : FL
Monument Set By : USACOE

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1253605.331
Elevation : 4.9410
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1991
County : PINELLAS

Date Added : 910814

Date Changed : 040414

Recovered By :
Company (1) PBI (2)
Person (1) SUBER (2)
Date (1) 6/98 (2)
Condition (1) GOOD (2)

LOCATED AT TREASURE ISLAND, PINELLAS COUNTY, FLORIDA.

TO REACH FROM THE SOUTH END OF JOHNS PASS BRIDGE, GO SOUTH ON GULF BLVD.
0.075 MILE TO 127TH AVE. TURN RIGHT AND PROCEED WEST ON 127TH AVE. 0.05
MILE TO WEST END OF ROAD AND STATION LOCATION.

STATION IS LOCATED ON BEACH WEST OF THE "NORVIND" CONDOMINIUM, 150 FEET
NORTH OF EXTENDED CENTERLINE OF 127TH AVE.; 14 FEET NORTH OF CENTER OF
WOODEN BOARDWALK AND IS AT THE WEST EDGE OF VEGETATION LINE.

MARK IS A STANDARD U.S. ARMY CORPS OF ENGINEERS BRONZE DISK SET FLUSH IN
TOP OF A CONCRETE FILLED 6-INCH DIAMETER PVC PIPE, 0.5 FEET ABOVE GROUND
AND IS STAMPED: "PL R-126 A, 1991, JAX FLA".

Monument ID: PI R 0126 B

Locality-Project : JOHNS PASS
Latitude : 0° 0' 0.00000"
X(E) : 246922.055
Zone : FLW
Horizontal Datum : NAD-27/79
Order : THIRD
State : FL
Monument Set By : USACOE

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1253419.455
Elevation : 7.7620
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1991
County : PINELLAS

Date Added : 910814

Date Changed : 040414

Recovered By :
Company (1) PBI (2)
Person (1) SUBER (2)
Date (1) 6/98 (2)
Condition (1) GOOD (2)

LOCATED AT TREASURE ISLAND, PINELLAS COUNTY, FLORIDA.

TO REACH FROM THE SOUTH END OF JOHNS PASS BRIDGE, GO SOUTH ON GULF BLVD.
0.075 MILES TO 127TH AVENUE TURN RIGHT AND PROCEED WEST ON 127TH AVENUE
0.05 MILE TO "SEA OATS" APARTMENTS ON LEFT AND STATION LOCATION.

STATION IS LOCATED ON BEACH AT THE WEST EDGE OF VEGETATION, 70 FEET WEST
OF WEST SIDE OF PORCH OF "SEA OATS" APARTMENT BUILDING; 57 FEET SOUTH OF
EXTENDED CENTERLINE OF 127TH AVE. AND 26.2 FEET NORTH OF CENTER OF A
6-INCH DIAMETER PINE TREE.

MARK IS A STANDARD U.S. ARMY CORPS OF ENGINEERS BRONZE DISK SET FLUSH IN
TOP OF A CONCRETE FILLED 6-INCH DIAMETER PVC PIPE, 0.7 FEET ABOVE GROUND
AND IS STAMPED: "PL R-126 B.

Monument ID: PI R 0126 C

Locality-Project : JOHNS PASS
Latitude : 0° 0' 0.00000"
X(E) : 247030.702
Zone : FLW
Horizontal Datum : NAD-27/79
Order : THIRD
State : FL
Monument Set By : USACOE

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1253230.014
Elevation : 7.4720
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1991
County : PINELLAS

Date Added : 910814

Date Changed : 040414

Recovered By :
Company (1) PBI (2)
Person (1) SUBER (2)
Date (1) 6/98 (2)
Condition (1) GOOD (2)

LOCATED AT TREASURE ISLAND, PINELLAS COUNTY, FLORIDA.

TO REACH FROM THE SOUTH END OF JOHNS PASS BRIDGE, GO SOUTH ON GULF BLVD.
0.1 MILE TO 126TH AVENUE TURN RIGHT AND PROCEED WEST ON 126TH AVENUE 0.05
MILE TO STATION LOCATION.

STATION IS LOCATED ON BEACH AT THE NORTH EDGE OF SEA OAT/VEGETATION AREA,
42.7 FEET NORTH OF NORTH EDGE OF 126TH AVENUE AND 43 FEET WEST OF EXTENDED
CENTERLINE OF 1ST STREET WEST.

MARK IS A STANDARD U.S. ARMY CORPS OF ENGINEERS BRONZE DISK SET FLUSH IN
TOP OF A CONCRETE FILLED 6-INCH DIAMETER PVC PIPE, 0.7 FEET ABOVE GROUND
AND IS STAMPED: "PL R-126 C, 1991, JAX FLA".

Monument ID: PI R 0126 D

Locality-Project : JOHNS PASS
Latitude : 0° 0' 0.00000"
X(E) : 247005.260
Zone : FLW
Horizontal Datum : NAD-27/79
Order : THIRD
State : FL
Monument Set By : USACOE

Date Added : 910814

Recovered By :
Company (1) PBI
Person (1) SUBER
Date (1) 6/98
Condition (1) GOOD

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1252986.731
Elevation : 6.8400
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1991
County : PINELLAS

Date Changed : 020725

(2)
(2)
(2)
(2)

Monument ID: PI R 0127

Locality-Project : TREASURE ISLAND
Latitude : 0° 0' 0.00000"
X(E) : 247178.767
Zone : FLW
Horizontal Datum : NAD-27
Order : THIRD
State : FL
Monument Set By : FDNR

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1252868.523
Elevation : 8.4200
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1974
County : PINELLAS

Date Added : 871214

Date Changed : 040414

Recovered By :
Company (1) PBI
Person (1) SUBER
Date (1) 6/98
Condition (1) GOOD
(2) G.F.YOUNG
(2) MUNSEY
(2) 6/97
(2) GOOD

LOCATED AT TREASURE ISLAND, PINELLAS COUNTY, FLORIDA.

TO REACH FROM THE SOUTH END OF JOHN'S PASS BRIDGE, GO SOUTH ON GULF BLVD.
TO 125TH AVENUE, THENCE WEST ON 125TH AVENUE TO 1ST STREET WEST. TURN
SOUTH ON 1ST STREET WEST, 34 FEET TO THE RESIDENCE NUMBERED 12498 1ST
STREET WEST AND STATION LOCATION.

STATION IS LOCATED 26.9 FEET NORTHWEST OF THE NORTHWEST CORNER OF MAIN
STRUCTURE AND 26.6 FEET EAST OF A CLUSTER OF 3 PILLINGS.

MARK IS A FDNR BRONZE DISK SET IN A 4 INCH X 4 INCH PRECAST CONCRETE
MONUMENT STAMPED: "R-127 PNLs 1974" AND PROJECTS 0.8 FEET ABOVE GROUND.

FDNR COORDINATES: X = 247178.73 Y = 1252868.69
FDNR ELEV. 8.39

NEAREST LANDMARK IS 125TH AVENUE AND 1ST STREET WEST.
19.8 FEET NORTHWEST OF NORTHWESTERN CORNER POST OF 12498 RESIDENCE. 5.6
FEET WEST OF PILING WITH TAG #5-35. 22.5 FEET SOUTH OF CENTERLINE TRAIL TO
BEACH. NO WITNESS POST, 0.7 FEET ABOVE GROUND.

Monument ID: PI R 0127 A

Locality-Project : JOHNS PASS
Latitude : 0° 0' 0.00000"
X(E) : 247367.427
Zone : FLW
Horizontal Datum : NAD-27/79
Order : THIRD
State : FL
Monument Set By : USACOE

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1252335.855
Elevation : 6.0480
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1991
County : PINELLAS

Date Added : 910814

Date Changed : 040414

Recovered By :
Company (1) PBI (2)
Person (1) SUBER (2)
Date (1) 6/98 (2)
Condition (1) GOOD (2)

LOCATED: AT TREASURE ISLAND, PINELLAS COUNTY, FLORIDA.

TO REACH: FROM THE SOUTH END OF JOHNS PASS BRIDGE, GO SOUTH ON GULF BLVD.
0.3 MILE TO 123RD AVENUE TURN RIGHT AND PROCEED WEST ON 123RD AVENUE 0.05
MILE TO 1ST STREET WEST TURN LEFT AND PROCEED SOUTH ON 1ST STREET WEST FOR
ABOUT 100 FEET TO "CEDAR SAND" CONDOMINIUM NO. #12274 AND STATION
LOCATION.

STATION IS LOCATED: ON EAST EDGE OF VEGETATION LINE MARKED BY WOODEN 4X4
POSTS WITH ROPE; 129 FEET WEST OF WEST SIDE OF "CEDAR SAND" CONDOMINIUM;
70.4 FEET SOUTH OF EXTENDED CENTERLINE OF WOODEN BOARDWALK AND 25.4 FEET
SOUTH OF USACOE MONUMENT "JPPL-1, 1984".

Monument ID: PI R 0128

Locality-Project : JOHNS PASS
Latitude : 0° 0' 0.00000"
X(E) : 247822.470
Zone : FLW
Horizontal Datum : NAD-27
Order : THIRD
State : FL
Monument Set By : FDNR

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1252009.670
Elevation : 7.6000
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1990
County : PINELLAS

Date Added : 940811

Date Changed : 040414

Recovered By :
Company (1) G.F.YOUNG
Person (1) MUNSEY
Date (1) 6/97
Condition (1) GOOD

(2) PBI
(2) SUBER
(2) 6/98
(2) GOOD

LOCATED AT TREASURE ISLAND, PINELLAS COUNTY, FLORIDA.

TO REACH FROM THE SOUTH END OF JOHNS PASS BRIDGE, GO SOUTH ON GULF BLVD.
0.4 MILE TO 121ST AVENUE TURN RIGHT AND PROCEED WEST ON 121ST AVENUE 0.05
MILE TO WEST END OF ROAD AT NORTHWEST CORNER OF "RAMADA INN" PARKING AREA
AND STATION LOCATION.

STATION IS LOCATED AT THE WEST END OF 121ST AVENUE 19 FEET NORTH OF NORTH
END OF 8-INCH WIDE CONCRETE BLOCK WALL THAT RUNS ALONG WEST SIDE OF
"RAMADA INN" PARKING AREA AND 33 FEET SOUTH OF CENTER OF A 4 FOOT SQUARE
CONCRETE PAD WITH TELEPHONE FACILITY.

MARK IS A STANDARD FDNR BRONZE DISK SET FLUSH IN TOP OF A 4-INCH SQUARE
PRECAST CONCRETE POST.

FDNR COORDINATES: X=247822.46 Y=1252009.670 FDNR ELEVATION: 6.58

NEAREST LANDMARK IS 121ST AVENUE - RAMADA INN, SET AT WEST END OF 121ST
AVENUE, 14.0 FEET NORTH OF 30.0 FEET SOUTHWEST OF SOUTHWEST CORNER OF
CONCRETE SLAB FOR PHONE, WITNESS AT CONCRETE MONUMENT.

Monument ID: PI R 0128 A

Locality-Project : JOHNS PASS
Latitude : 0° 0' 0.00000"
X(E) : 247986.603
Zone : FLW
Horizontal Datum : NAD-27/79
Order : THIRD
State : FL
Monument Set By : USACOE

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1251600.301
Elevation : 5.9090
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1991
County : PINELLAS

Date Added : 910814

Date Changed : 040414

Recovered By :
Company (1) PBI (2)
Person (1) SUBER (2)
Date (1) 6/98 (2)
Condition (1) GOOD (2)

LOCATED AT TREASURE ISLAND, PINELLAS COUNTY, FLORIDA.

TO REACH FROM THE SOUTH END OF JOHNS PASS BRIDGE, GO SOUTH ON GULF BLVD.
0.45 MILE TO 120TH AVENUE TURN RIGHT AND PROCEED WEST ON 120TH AVENUE 0.05
MILE TO END OF ROAD AND STATION LOCATION.

STATION IS LOCATED IN VEGETATION AREA, 61.2 FEET NORTH OF EXTENDED CENTER-
LINE OF 120TH AVENUE 85 FEET NORTHWEST OF NORTHWEST CORNER OF WOODEN
BOARDWALK AND 17 FEET EAST OF ROPE FENCE AT WEST EDGE OF VEGETATION AREA.

MARK IS A STANDARD U.S. ARMY CORPS OF ENGINEERS BRONZE DISK SET FLUSH IN
TOP OF A CONCRETE FILLED 6-INCH DIAMETER PVC PIPE, 1 FOOT ABOVE GROUND AND
IS STAMPED "PL R-128 A, 1991, JAX FLA".

Monument ID: PI R 0128 B

Locality-Project : JOHNS PASS
Latitude : 0° 0' 0.00000"
X(E) : 248289.664
Zone : FLW
Horizontal Datum : NAD-27/79
Order : THIRD
State : FL
Monument Set By : USACOE

Date Added : 910814

Recovered By :
Company (1) PBI (2)
Person (1) SUBER (2)
Date (1) 6/98 (2)
Condition (1) GOOD (2)

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1251282.697
Elevation : 6.2410
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1991
County : PINELLAS

Date Changed : 040414

LOCATED AT TREASURE ISLAND, PINELLAS COUNTY, FLORIDA.

TO REACH FROM THE SOUTH END OF JOHNS PASS BRIDGE, GO SOUTH ON GULF BLVD.
0.5 MILE TO THE "HOLIDAY INN". TURN RIGHT AND PROCEED TO THE SOUTHWEST
CORNER OF PARKING AREA. PROCEED WEST APPROXIMATELY 250 FEET TO BEACH
AND A SMALL SAND DUNE COVERED WITH SEA OATS AND STATION LOCATION.

STATION IS LOCATED ON NORTH SIDE OF SMALL SAND DUNE COVERED WITH SEA OATS;
APPROXIMATELY 250 FEET WEST OF THE SOUTHWEST CORNER OF "HOLIDAY INN"; 15
FEET SOUTH OF ROPE FENCE AT NORTH SIDE OF DUNE AND 99 FEET SOUTHWEST OF
SOUTHWEST CORNER OF WOODEN BOARDWALK.

MARK IS A STANDARD U.S. ARMY CORPS OF ENGINEERS BRONZE DISK SET FLUSH IN
TOP OF A CONCRETE FILLED 8-INCH PVC PIPE.

Monument ID: PI R 0129

Locality-Project : TREASURE ISLAND
Latitude : 0° 0' 0.00000"
X(E) : 248620.763
Zone : FLW
Horizontal Datum : NAD-27
Order : THIRD
State : FL
Monument Set By : FDNR

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1251383.270
Elevation : 5.5000
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1974
County : PINELLAS

Date Added : 871214

Date Changed : 040414

Recovered By :

Company (1) PBI
Person (1) SUBER
Date (1) 6/98
Condition (1) GOOD
(2) G.F. YOUNG
(2) MUNSEY
(2) 6/97
(2) GOOD

LOCATED AT TREASURE ISLAND, PINELLAS COUNTY, FLORIDA.

TO REACH FROM THE SOUTH END OF THE JOHN'S PASS BRIDGE, GO SOUTH ON GULF BLVD. 0.5 MILES TO THE SANDS MOTEL, 11800 GULF BLVD. AND STATION LOCATION.

STATION IS LOCATED IN SANDY AREA, 177.5 FEET SOUTHWEST OF THE NORTHWEST CORNER OF STAIR CASE AND 177.7 FEET NORTHWEST OF THE SOUTHWEST CORNER OF STAIRCASE ON WEST SIDE OF THE SANDS MOTEL. MARK IS LOCATED AT BASE (ON EAST SIDE) OF STEEL WITNESS POST WITH SIGN.

MARK IS A FDNR BRONZE DISK SET FLUSH IN A 4 X 4 INCH PRECAST CONCRETE MONUMENT AND STAMPED: "R-129 PNLs, 1974" AND IS 0.2 FEET BELOW SAND.

FDNR COORDINATES: X=248620.80 Y=1251383.50

FDNR ELEVATION: 5.46

NEAREST LANDMARK IS THE SANDS, 28 FEET SOUTHWEST OF 4 X 4 POST.
47 FEET SOUTHWEST OF SOUTHWEST END OF ANGLE IN FENCE, 44 FEET WEST OF WESTERN MOST PALM, 0.3 FEET EAST OF WITNESS, MONUMENT 0.4 FEET BELOW GROUND.

Monument ID: PI R 0130

Locality-Project : TREASURE ISLAND
Latitude : 0° 0' 0.00000"
X(E) : 249536.930
Zone : FLW
Horizontal Datum : NAD-27
Order : THIRD
State : FL
Monument Set By : YOUNG.G.F

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1250760.199
Elevation : 5.8500
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1997
County : PINELLAS

Date Added : 940811

Date Changed : 040414

Recovered By :

Company (1)
Person (1)
Date (1)
Condition (1)

LOCATED AT TREASURE ISLAND BEACH, PINELLAS COUNTY, FLORIDA

TO REACH FROM THE INTERSECTION OF TREASURE ISLAND CAUSEWAY (107TH AVENUE) AND GULF BOULEVARD, GO NORTH ON GULF BOULEVARD 0.3 MILES TO THE "EL DORADO MOTEL" AND STATION LOCATION.

STATION IS LOCATED IN THE WEST EDGE OF A CONCRETE WALK PARALLELING THE BEACH AND IS 8.6 FEET EAST OF A CONCRETE WALL ALONG WALK, 80.4 FEET SOUTH OF A WOOD POWER POLE NO. A90823, AND 98.4 FEET WEST OF THE SOUTHWEST CORNER OF THE NORTHERN WING OF THE MOTEL.

MARK IS A STANDARD FDNR BRONZE DISK GROUTED INTO CONCRETE WALK AND IS STAMPD. "R-130 PNL5 1997".

FDNR COORDINATES: X = 249417.10 Y = 1250584.02
FDNR ELEVATION: 5.11

Monument ID: PI R 0131

Locality-Project : TREASURE ISLAND
Latitude : 0° 0' 0.00000"
X(E) : 250420.089
Zone : FLW
Horizontal Datum : NAD-27/79
Order : THIRD
State : FL
Monument Set By : FDNR

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1249949.066
Elevation : 6.6400
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1974
County : PINELLAS

Date Added : 871214

Date Changed : 040414

Recovered By :
Company (1) PARTY #6
Person (1) WOODWARD
Date (1) 6/91
Condition (1) GOOD

(2) PARTY #6
(2) WOODWARD
(2) 4/90
(2) GOOD

LOCATED AT TREASURE ISLAND, PINELLAS COUNTY, FLORIDA.

TO REACH FROM THE SOUTH END OF JOHN'S PASS BRIDGE, GO SOUTH ON GULF BLVD.
1.0 MILE TO "SURF OF TREASURE ISLAND MOTEL", 11040 GULF BLVD. AND
"TREASURE SANDS MOTEL", 11000 GULF BLVD. AND STATION LOCATION.

STATION IS LOCATED SOUTH OF "SURF OF TREASURE ISLAND MOTEL" AND NORTH OF
"TREASURE SANDS MOTEL", WHERE SOUTH END OF CHAIN LINK FENCE MEETS
NORTHWEST CORNER OF CONCRETE WALL AROUND INSIDE PARKING FOR "TREASURE
SANDS MOTEL" ON THE WEST SIDE.

MARK IS A FLORIDA DEPARTMENT OF NATURAL RESOURCES DISK SET IN A 4 INCH X 4
INCH PRECAST CONCRETE MONUMENT AND IS STAMPED: "R-131 PNLs 1974" AND
PROJECTS 0.2 FEET ABOVE GROUND.

FDNR COORDINATES: X=250420.11 Y=1249949.24
FDNR ELEVATION: 7.22

NEAREST LANDMARK IS 11000 "TREASURE SANDS", 6.5 FEET WEST OF NORTHWEST
CORNER BUILDING GARAGE, 2.0 FEET SOUTH OF TELEPHONE JUNCTION BOX, CM IS ON
NORTHWEST CORNER PARKING GARAGE OF BEACH SIDE OF "TREASURE SANDS" NO
WITNESS POST, 0.3 FEET ABOVE GROUND.

(PI R 0131 Description Continued on Next Page)

(PI R 0131 Description Continued from Previous Page)

Monument ID: PI R 0132

Locality-Project : TREASURE ISLAND
Latitude : 0° 0' 0.00000"
X(E) : 251058.365
Zone : FLW
Horizontal Datum : NAD-27
Order : THIRD
State : FL
Monument Set By : FDNR

Date Added : 940812

Recovered By :
Company (1)
Person (1)
Date (1)
Condition (1)

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1248970.598
Elevation : 5.6800
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set :
County : PINELLAS

Date Changed : 040414

(2)
(2)
(2)
(2)

FDNR COORDINATES:
FDNR ELEVATION: 5.68

MONUMENT IS 2.5 FEET WEST OF BUILDING. 5.6 FEET EAST OF SOUTHEAST PALM.
82.9 FEET NORTH OF SOUTH END OF BUILDING. 0.1 FEET BELOW WEST EDGE OF
FOOTER.

Monument ID: PI R 0133

Locality-Project : TREASURE ISLAND
Latitude : 0° 0' 0.00000"
X(E) : 251476.160
Zone : FLW
Horizontal Datum : NAD-27/79
Order : THIRD
State : FL
Monument Set By : USACOE

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1247912.210
Elevation : 6.4100
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1985
County : PINELLAS

Date Added : 871214

Date Changed : 040414

Recovered By :
Company (1) PARTY #6
Person (1) WOODWARD
Date (1) 6/91
Condition (1) GOOD

(2) PARTY #6
(2) WOODWARD
(2) 4/90
(2) GOOD

00330-51

LOCATED AT TREASURE ISLAND, PINELLAS COUNTY, FLORIDA.

TO REACH FROM THE INTERSECTION OF 107TH AVENUE AND GULF BLVD., PROCEED SOUTH ON GULF BLVD. 0.3 MILES TO 10324 GULF BLVD. (SWANEE COTTAGES) AND STATION LOCATION.

STATION IS LOCATED ON BEACH, 0.8 FEET SOUTH OF A 3 FEET HIGH WOODEN FENCE; 29 FEET EAST OF THE WEST END OF WOODEN FENCE AND 35.5 FEET WEST OF THE NORTHWEST CORNER OF THE MOST NORTHERLY FRAME BLDG. (SWANEE COTTAGE).

MARK IS A STANDARD U.S. ARMY CORPS OF ENGINEERS BRONZE DISK SET FLUSH IN TOP OF A 6 INCH DIAMETER CONCRETE FILLED PVC PIPE, 5 INCHES ABOVE GROUND AND IS STAMPED: "PL R-133, 10-5-85, 1985, JAX, FL".

FDNR COORDINATES: X = 251476.19 Y = 1247912.50
FDNR ELEVATION: 6.38

NEAREST LANDMARK IS "SWANEE COTTAGES" 10324 GULF BLVD., TREASURE ISLAND. STATION IS ON BEACH ON NORTHWEST PROPERTY CORNER AREA.

0.8 FEET SOUTH OF 3 FEET HIGH WOODEN FENCE ON NORTH PROPERTY LINE, 35.5 FEET WEST OF NORTHWEST CORNER OF NORTHMOST FRAME "SWANEE COTTAGE".

(PI R 0133 Description Continued on Next Page)

(PI R 0133 Description Continued from Previous Page)

29 FEET EAST OF THE WEST END OF THE SAME WOODEN FRAME.

STATION MARK IS A STANDARD COE DISK, FLUSH IN TOP OF A 6 INCH DIAMETER CONCRETE FILLED PVC PIPE, BURIED 0.6 FEET BELOW SURFACE AND STAMPED PL R-133, 10/5/85, JAX, FL.

DNR ELEV. 6.37

Monument ID: PI R 0134

Locality-Project : TREASURE ISLAND
Latitude : 0° 0' 0.00000"
X(E) : 251864.060
Zone : FLW
Horizontal Datum : NAD-27
Order : NOTE
State : FL
Monument Set By : FDNR

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y(N) : 1246940.130
Elevation : 6.0700
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1990
County : PINELLAS

Date Added : 931008

Date Changed : 040414

Recovered By :
Company (1)
Person (1)
Date (1)
Condition (1)

(2)
(2)
(2)
(2)

NEAREST LANDMARK IS "PENTHOUSE BEACH CLUB" AND #10178 RESIDENCE.
CAP SET ON CONCRETE SEAWALL AT NORTHWEST POWER LINE OF #10178 AND
SOUTHWEST POWER LINE OF PENTHOUSE BEACH CLUB, 0.6 FEET EAST OF EAST EDGE
OF 16 INCH HIGH CONCRETE BLOCK WALL, 0.2 FEET SOUTH OF SOUTH EDGE OF 2-1/2
FEET HIGH STUCCOED EAST/WEST WALL ALONG POWER LINE.

NO WITNESS POST.

NOTE: THESE ARE PRELIMINARY COORDINATES , OBTAINED BY MR. TOM WATERS,
FDNR BEACHES AND SHORES SECTION, AND ARE SUBJECT TO SLIGHT CORRECTIONS.
FINAL ADJUSTMENT NOT COMPLETED AS OF 10/8/93.

FDNR COORDINATES: X = 251863.87 Y = 1246940.11
FDNR ELEVATION: 6.03

Monument ID: PI R 0138.5

Locality-Project : TREASURE ISLAND
Latitude : 0° 0' 0.00000"
X (E) : 253251.340
Zone : FLW
Horizontal Datum : NAD-27
Order : THIRD
State : FL
Monument Set By : MEK

Date Added : 960517

Recovered By :
Company (1) MEK
Person (1) B. GEORGE
Date (1) 6/96
Condition (1) GOOD

Monument Type : DISK
Longitude : 0° 0' 0.00000"
Y (N) : 1242381.030
Elevation : 5.6666
Vertical Datum : NGVD-29
Linear Units : FEET
Date Set : 1996
County : PINELLAS
Date Changed : 040414

(2) PBI
(2) SUBER
(2) 6/98
(2) GOOD

NO DESCRIPTION AVAILABLE.

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DIVISION 01 - GENERAL REQUIREMENTS

SECTION 01110

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SECTION 01110

SUMMARY OF WORK

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)

COE EM 385-1-1

(2003) U.S. Army Corps of Engineers Safety
and Health Requirements Manual

1.2 WORK COVERED BY CONTRACT DOCUMENTS

1.2.1 Project Description

This project includes renourishment of the Long Key and the Treasure Island segments of the Pinellas County Beach Erosion Control Project. The Treasure Island portion will be an option. On Long Key, approximately 250,000 cubic yards of sand will be placed on Upham Beach, which is located on the south side of Blind Pass. On Treasure Island, approximately 100,000 cubic yards of sand will be placed on Sunset Beach which is located about 1 mile north of Blind Pass. The berm will be constructed to an elevation of ~~6.0 mean low water (MLW).~~ +6.0 feet mean low water (MLW). The width of the berm will vary for both segments. The beach slope will be constructed at one-foot vertical on 20-foot horizontal and one-foot vertical on 30-foot horizontal.

The beach fill material will come from Pass-A-Grille Pass, a borrow area that has been previously used. It is located 3.5 nautical miles south of Upham Beach at the south end of Long Key. Oil-contaminated deposits may be present in the vicinity of the borrow source; therefore, as a precaution to potential exposure, a single containment boom shall be placed around the dredge area and discharge area. ~~If contaminants should be found, a clean-up program will have to be initiated.~~

Access is limited to the beach site. Upland access on Long Key will be provided at a park at Upham Beach. Upland access to Treasure Island will be provided at street endings. Pipeline access will be accomplished by placing pipe along the beaches seaward of the Erosion Control Line/Mean High Water Line.

1.2.2 Location

The work shall be located on the west coast of Florida in Pinellas County.

The exact location is shown on drawing 1/1.

1.2.3 Safety Requirements

See Section 01525 GENERAL SAFETY REQUIREMENTS and COE EM 385-1-1.

1.2.4 Work Performed by Others

See paragraph PROJECT COORDINATION of Section 01310 ADMINISTRATIVE PROCEDURES.

1.3 COMMENCEMENT, PROSECUTION AND COMPLETION OF WORK

a. Read this paragraph in conjunction with the Clause COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (FAR 52.211-10) of Section 00700 CONTRACT CLAUSES.

b. In addition to the above, the following shall apply: The words "commence work" means "commence dredging."

c. Turtle monitoring and nest location/relocation activities are required from April 1st through November 30th or until completion of the work on the beach, whichever is earlier. Turtle monitoring and nest location/relocation will be performed by Pinellas County. The Contractor's attention is directed to SECTION 01355: ENVIRONMENTAL PROTECTION.

1.4 LIQUIDATED DAMAGES - CONSTRUCTION

Refer to the Clause LIQUIDATED DAMAGES - CONSTRUCTION (FAR 52.211-12 of Section 00700 CONTRACT CLAUSES.

1.5 PHYSICAL DATA

Read this paragraph in conjunction with the Clause PHYSICAL DATA (FAR 52.236-4) of Section 00700 CONTRACT CLAUSES.

1.5.1 Physical Conditions

The indications of physical conditions on the drawings and in the specifications are the result of site investigations by surveys and/or by core borings. When the indicated physical conditions are the result of site investigations by core borings, the core boring logs and laboratory data are in Section 00320 GEOTECHNICAL DATA and the core boring locations are shown on the drawings. Also, see Section 00320 GEOTECHNICAL DATA for instructions concerning availability of core borings for inspection.

1.5.2 Weather, Water Stage and Tide Data

See Section 00335 WEATHER, WATER STAGE AND TIDE DATA.

1.5.3 Contractor Investigation

In addition to the information given in the contract drawings, the

Contractor shall make his own investigation of available roads for transportation, load limits for bridges and roads, and other road conditions affecting the transportation of materials and equipment to the site. The Contractor shall investigate the availability of railroad sidings, and shall make all arrangements for use of any sidings for the delivery of any materials and equipment to be used on the work.

1.5.4 Maritime Traffic

Marine Traffic in the project area consists of cruise ships, commercial, pleasure, and small recreational vessels of all types and sizes which can be accommodated by existing depths.

1.5.5 Obstruction of Channel

The Government will not undertake to keep the channel free from vessels or other obstructions, except to the extent of such regulations, if any, as may be prescribed by the Secretary of the Army, in accordance with the provisions of Section 7 of the River and Harbor Act approved 8 August 1917.

The Contractor will be required to conduct the work in such manner as to obstruct navigation as little as possible, and in case the Contractor's plant so obstructs the channel as to make difficult or endanger the passage of any vessels, said plant shall be promptly moved on the approach of any vessel to such an extent as may be necessary to afford a practicable passage. Upon completion of the work the Contractor shall promptly remove his plant, including ranges, buoys, piles, and other marks placed by him under the contract in navigable waters or on shore.

1.6 LAYOUT OF WORK

Read this paragraph in conjunction with the Clause LAYOUT OF WORK (FAR 52.236-17) of Section 00700 CONTRACT CLAUSES.

1.6.1 Established Monuments

The Government has established monuments, control data and elevations for the work site(s) as indicated on the contract drawings. Control monument descriptions are in Section 00330 CONTROL MONUMENT DESCRIPTIONS.

1.6.2 Layout

From the monuments, control data and elevations established by the Government, the Contractor shall complete the layout of the work and shall be responsible for all measurements that may be required for the execution of the work to the location and limit marks prescribed in the specifications or on the contract drawings, subject to such modifications as the Contracting Officer may require to meet changed conditions or as a result of necessary modifications to the contract work.

1.6.3 Survey

The Contractor shall furnish, at his own expense, such stakes, templates, platforms, equipment, tools and material, and all labor as may be required in laying out any part of the work from the monuments, control data and

elevations established by the Government. It shall be the responsibility of the Contractor to maintain and preserve all stakes and other marks established by the Contracting Officer until authorized to remove them, and if such marks are destroyed by the Contractor or through his negligence, prior to their authorized removal, they may be replaced by the Contracting Officer, at his discretion, and the expense of replacement will be deducted from any amounts due or to become due the Contractor. The Contracting Officer may require that work be suspended at any time when location and limit marks established by the Contractor are not reasonably adequate to permit checking of the work.

1.7 DAMAGE TO WORK

The responsibility for damage to any part of the permanent work shall be as set forth in Clause PERMITS AND RESPONSIBILITIES of Section 00700 CONTRACT CLAUSES. However, if, in the judgment of the Contracting Officer, any part of the permanent work performed by the Contractor is damaged by flood, earthquake, hurricane, or tornado, which damage is not due to the failure of the Contractor to take reasonable precautions or to exercise sound engineering and construction practices in the conduct of the work, the Contractor will make the repairs as ordered by the Contracting Officer and full compensation for such repairs will be made at the applicable contract unit or lump sum prices as fixed and established in the contract. If, in the opinion of the Contracting Officer, there are no contract unit or lump sum prices applicable to any part of such work, an equitable adjustment pursuant to Clause CHANGES of Section 00700 CONTRACT CLAUSES will be made as full compensation for the repairs of that part of the permanent work for which there are no applicable contract unit or lump sum prices. Except as herein provided, damage to all work (including temporary construction), utilities, materials, equipment and plant shall be repaired to the satisfaction of the Contracting Officer at the Contractor's expense, regardless of the cause of such damage.

1.8 EXISTING WORK

In addition to "FAR 52.236-9, Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements":

- a. Remove or alter existing work in such a manner as to prevent injury or damage to any portions of the existing work which remain.
- b. Repair or replace portions of existing work which have been altered during construction operations to match existing or adjoining work, as approved by the Contracting Officer. At the completion of operations, existing work shall be in a condition equal to or better than that which existed before new work started.

1.9 TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER (31 OCT 1989)

This provision specifies the procedure for the determination of time extensions for unusually severe weather in accordance with the Clause DEFAULT (FIXED-PRICE CONSTRUCTION) of Section 00700 CONTRACT CLAUSES. In order for the Contracting Officer to award a time extension under this clause, the following conditions must be satisfied:

a. The weather experienced at the project site during the contract period must be found to be unusually severe; that is, more severe than the adverse weather anticipated for the project location during any given month.

b. The unusually severe weather must actually cause a delay to the completion of the project. The delay must be beyond the control and without the fault or negligence of the Contractor.

~~1.14.1 Schedule of Monthly Anticipated Adverse Weather Delays~~

~~The schedule of monthly anticipated adverse weather delays is based upon National Oceanic and Atmospheric Administration (NOAA) or similar data for the project location and will constitute the base line for monthly weather time evaluations. The Contractor's progress schedule must reflect these anticipated adverse weather delays in all weather dependent activities. See Section 00335 WEATHER, WATER STAGE AND TIDE DATA to obtain MONTHLY ANTICIPATED ADVERSE WEATHER DELAY WORK DAYS BASED ON 5-DAY WORK WEEK.~~

1.9.1 Contractor Responsibility

Upon acknowledgment of the Notice to Proceed (NTP) and continuing throughout the contract, the Contractor will record on the daily CQC report the occurrence of adverse weather and resultant impact to normally scheduled work. Actual adverse weather delay days must prevent work on critical activities for 50 percent or more of the Contractor's scheduled work day. The number of actual adverse weather delay days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day of each month, and be recorded as full days. ~~If the number of actual adverse weather delay days exceeds the number of days anticipated in Section 00335 WEATHER, WATER STAGE AND TIDE DATA, the Contracting Officer will convert any qualifying delays to calendar days, giving full consideration for equivalent fair weather work days, and issue a modification in accordance with the Clause DEFAULT (FIXED PRICE CONSTRUCTION) of Section 00700 CONTRACT CLAUSES.~~

1.10 UNITS OF MEASURE

The standard U.S. system or the metric systems of measure may be utilized by the Contractor in the performance of his work. All survey records, official documentation, engineering data, and all correspondence, including any submittals and shop drawings, shall clearly denote which system of measure is being utilized, referenced or discussed. Any omission, unprofessional or inaccurate use of a unit of measure on the part of the Contractor shall not relieve him of his responsibilities under the contract terms. The unit of measure used in this specification is the standard U.S. system. The contract drawings denote both standard U.S. system and metric system where appropriate. If no unit of measure is indicated on the drawing such as on ranges, stations, slope elevations, and distance numbers, then they are to be considered the standard U.S. system.

1.11 CONSTRUCTION FORMS AND DETAILS

From the Jacksonville District Home Page, click the links ORGANIZATIONS,
ENGINEERING, then CONSTRUCTION FORMS AND DETAILS. See web site address
www.saj.usace.army.mil/cadd/end/construction_forms_and_details.htm.

PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION (NOT APPLICABLE)

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PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION (NOT APPLICABLE)

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SECTION 01270

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 LUMP SUM PAYMENT ITEMS

Payment items for the work of this contract for which contract lump sum payments will be made are listed in the LINE ITEMS AND PRICING SCHEDULE and described below. All costs for items of work, which are not specifically mentioned to be included in a particular lump sum or unit price payment item, shall be included in the listed lump sum item most closely associated with the work involved. The lump sum price and payment made for each item listed shall constitute full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for which separate payment is not otherwise provided.

1.1.1 Mobilization and Demobilization (Line Item 0001AA and 0002AA)

Payment will be made for costs associated with or incidental to mobilization and demobilization and establishment of initial project management and coordination. See Clause PAYMENT FOR MOBILIZATION AND DEMOBILIZATION of Section 00700 CONTRACT CLAUSES and Section 01310 ADMINISTRATIVE PROCEDURES.

1.1.2 Turbidity Monitoring (Line Item 0001AD and 0002AD)

Payment will be made for costs associated with or incidental to obtaining, analyzing, and reporting the results of monitoring for turbidity. See Section 01411 TURBIDITY AND DISPOSAL MONITORING.

1.1.3 Construction/Vibration Control and Monitoring (Line Item 0001AE and 0002AE)

Payment will be made for costs associated with or incidental to the protection of existing structures from construction activities and monitoring. See Section 02290 VIBRATION MONITORING REQUIREMENTS FOR EXISTING STRUCTURES.

1.1.4 ~~Contamination~~Oil Containment (Line Item 0001AF and 0002AF)

~~Payment will be made for costs associated with labor, materials and operations necessary for containment of any contamination encountered. Placement of a single containment boom around the dredge area shall be required.~~ Payment will be made for costs associated with labor, materials and operations necessary for containment measures. This includes placement of a single containment boom around the dredge area and the discharge area

during all dredging and beach fill operations. Also included shall be costs associated with labor, materials and operations necessary to deploy the second containment boom and oil-absorbent material at each location in the event oil is encountered.

1.2 UNIT PRICE PAYMENT ITEMS

Payment items for the work of this contract on which the contract unit price payments will be made are listed in the LINE ITEMS AND PRICING SCHEDULE and described below. The unit price and payment made for each item listed shall constitute full compensation for furnishing all plant, labor, materials, and equipment, and performing any associated Contractor quality control, environmental protection, meeting safety requirements, tests and reports, and for performing all work required for each of the unit price items.

1.2.1 Beach Fill (Line Item 0001AB and 0002AB)

1.2.1.1 Payment

a. Payment will be made for costs associated with or incidental to barricades and signs, debris removal, ~~rock removal/disposal~~, pipeline crossing, excavation and transportation of beach fill, constructing the beach profile and final dressing; noise control; dive reports; installation, operation, or maintenance of the electronic positional monitoring equipment; ~~condition surveys and monitoring of hardbottom/reef communities and operational box for protection of hardbottom/reef communities~~; monitoring sea turtles; and, monitoring and reporting turbidity. See Sections 01355 ENVIRONMENTAL PROTECTION, 01411 TURBIDITY AND DISPOSAL MONITORING, and 02325 DREDGING AND BEACH FILL.

b. In addition to the above, payment will be made for in-place beach fill to plus 0.5 foot tolerance line on both berm and slope. Payment quantities will be determined by the Contracting Officer using average end area method of calculation. When beach fill is placed up-slope above slough zone to compensate for wave action, payment of end area will be based on a cut and fill calculation. No payment will be made for material placed on the up-slope above the tolerance A(u) that exceeds A(s) (Refer to Beach Fill Tolerance figure in the paragraph CONSTRUCTION FORMS AND DETAILS of Section 02325 DREDGING AND BEACH FILL).

1.2.1.2 Measurement

a. The maps and/or drawings already prepared (paragraph CONTRACT DRAWINGS, MAPS, AND SPECIFICATIONS of Section 00700 CONTRACT CLAUSES) are believed to represent accurately the existing conditions at the time the surveys were performed, but the depths and elevations shown thereon may be verified and corrected by elevations and soundings taken before commencing the work. Determination of quantities placed and the deductions made therefrom to determine quantities by place measurement to be paid for within a specified reach or section, after having once

been made, will not be reopened, except on evidence of collusion, fraud, or obvious error.

b. Beach fill satisfactorily placed will be measured for payment by use of the average end area method. The quantities shall be computed by the Government in accordance with paragraph QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES. Measurement of quantity placed for pay purposes will be based on original and final cross sections made on the section or reach indicated on the drawings. The Contractor shall give 3 calendar days advance notice, in writing, to the Contracting Officer's Representative of the need to perform the original and final surveys. Quality Control Surveys shall be the responsibility of the Contractor. Monthly partial payments will be based on approximate quantities determined by measurement of the in-place beach fill and in accordance with paragraph QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES.

c. In accordance with paragraph QUANTITY SURVEYS of Section 00700 CONTRACT CLAUSES, Contracting Officer will perform pre- and post-construction topographic survey at profile monument stations shown from base line to point slope intercepts pre-construction surveyed condition shore surface. In order to achieve final grade in slough zone, Contractor shall place material to final grade within tolerance for entire slope or may stockpile beach fill up-slope of slough zone. After stockpiled beach fill is measured for payment, Contractor shall shape slope to within 0.5 foot of final grade from top of slope to waterline producing a smooth uniform slope. Once post-construction survey is performed, no measurements will be revised except on suspicion of fraud or obvious error.

1.2.1.3 Unit of Measure

Cubic yard

1.2.2 Beach Tilling (Line Item 0001AC and 0002AC)

1.2.2.1 Payment

Payment will be made for costs associated with or incidental beach tilling
See Section 01355 ENVIRONMENTAL PROTECTION.

1.2.2.2 Unit of Measure

Unit of measure: Acre

PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION (NOT APPLICABLE)

-- End of Section --

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- 3.2 PROGRESS MEETING AGENDA

-- End of Section Table of Contents --

SECTION 01310

ADMINISTRATIVE PROCEDURES

PART 1 GENERAL

1.1 SUMMARY

Manage project and coordinate activities of own employees, subcontractors, suppliers and offsite fabricators. Contractor shall use computers, E-mail, and Internet resources for administrative work. Notify Contracting Officer of important meetings, schedule events and activities. Furnish labor and materials and equipment required to plan and execute project management functions and coordination. Coordinate activities and manage resources to construct project conforming to contract, on time and within budget. Related Sections are , 01320 CONSTRUCTION PROGRESS DOCUMENTATION, and 01452 DREDGING/BEACH FILL PLACEMENT - CONTRACTOR QUALITY CONTROL.

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. Transmit submittal items in accordance with Section 01330 SUBMITTAL PROCEDURES. Bring following administrative submittal items to Preconstruction Conference:

SD-01 Preconstruction Submittals

List of Subcontractors

Documentation of compliance with Clauses SUBCONTRACTS (LABOR STANDARDS) and LIMITATIONS ON SUBCONTRACTING of Section 00700 CONTRACT CLAUSES, and, if included, paragraph LIMITATIONS ON SUBSTITUTIONS FOR CERTAIN POSITIONS AND/OR SUBCONTRACTORS of Section 00800 SPECIAL REQUIREMENTS. Use QCS Software to generate a list of Subcontractors with the following data:

Responsibility Code
Contractor Name
Trade
Full Company Name
Address
POC Name
Phone Number
Fax Number
Indicate if Small Business

Signature Authority

Furnish a power of attorney or a notarized letter of authority

from Contractor identifying local representatives authorized to sign contract documents.

Drug-Free Work Place Record

Documentation of compliance with Clause DRUG-FREE WORKPLACE of Section 00700 CONTRACT CLAUSES (see subparagraphs (b)(1) through (b)(7)).

Contractor Insurance

Submit certificate of insurance coverage for General Insurance, Auto Insurance, and Workers Compensation with expiration dates for each. In first QCS Enter Contractor and Subcontractor policy expiration dates for General Insurance, Auto Insurance, Workers Compensation and date the Standard Form 1413 incorporating Contract Clauses in Subcontracts is acknowledged.

1.3 PROJECT COORDINATION

1.3.1 Quality Control System (QCS)

Contractor shall use Corps of Engineers Quality Control System, referred to as Quality Control System (QCS), for construction information management. See Section 01312 QUALITY CONTROL SYSTEM (QCS).

1.3.2 Access to Public

Maintain access to the public for areas not in immediate active work areas. Restrict access to immediate active work areas by use of signs and temporary boundary marking such as posts with warning tape.

1.4 PROJECT MEETINGS

Contracting Officer requires following types of project meetings:

- Preconstruction Conference
- Partnering Meeting
- Partnering Regroup Meetings
- Coordination Meeting
- Preparatory and Initial Phase meeting for each feature of work
- Project Progress Meetings

Project meetings are described in detail in subparts below.

1.5 PRECONSTRUCTION CONFERENCE

Contracting Officer will conduct a Preconstruction Conference for this project in accordance with Clause PRECONSTRUCTION CONFERENCE of Section 00700 CONTRACT CLAUSES. Preconstruction Conference will be after Notice of Award (NOA) but prior to Notice to Proceed (NTP). (Refer to subparagraph "Preconstruction Conference Submittals" below.) Contracting Officer will notify Contractor of time, place, and agenda. Contractor shall notify key subcontractors and suppliers to attend. Contracting Officer will discuss

contract "ground rules" and general issues including:

- Lines of Contracting Officer authority
- Lines of Contractor authority
- 00700 Contract Clauses
- 00800 Special Contract Requirements
- Contract Administration
- Progress Payment
- Correspondence Procedures
- Project Schedule
- Submittal Register
- Labor requirements
- General Site Safety

1.5.1 Preconstruction Conference Minutes

Contracting Officer will take detailed minutes of Preconstruction Conference discussions and may use an audio or video tape. Copies of typed minutes will be provided to the Contractor to review for accuracy, sign and return. Signed minutes become part of the contract file. Audio or video tapes if used will be made available for Contractor to review or copy at Area Office.

1.5.2 Preconstruction Conference Submittals

The timing of submission of submittals and completion of the Preconstruction Conference is intended to allow the Contractor and the Government adequate time to prepare for commencement of work. However, should the Contractor fail to submit required items within the times stated, the Contracting Officer may issue NTP prior to receipt of submittals and prior to the Preconstruction Conference. If NTP is issued prior to the Contractor's compliance with submittal requirements and prior to the Preconstruction Conference, the Contractor will not be permitted to commence work until these requirements have been satisfied. Any delays attributable to the Contractor's failure to comply with these pre-work requirements shall be at the Contractor's expense and may be cause for remedial action by the Contracting Officer. Submittals required by this Section are described in paragraph SUBMITTALS above.

1.5.2.1 Other Division 01 Submittals

In addition to the above, bring listed Division 01 submittals in draft form to Preconstruction Conference:

- Construction Schedule - See Section 01320 CONSTRUCTION PROGRESS DOCUMENTATION
- Submittal Register - See Section 01330 SUBMITTAL PROCEDURES
- Environmental Protection Plan - See Section 01355 ENVIRONMENTAL PROTECTION
- 01452 DREDGING/BEACH FILL PLACEMENT - CONTRACTOR QUALITY CONTROL
- Temporary Facilities Plan - See Section 01500 TEMPORARY CONSTRUCTION FACILITIES

Contracting Officer reviews submitted draft plans to prepare Coordination

Meeting agenda and understand Contractor procedures.

1.5.2.2 Divisions 02 through 16 Submittals

In addition to the above, bring submittal items for materials, workmanship, plans or events required early in project schedule which are ready for transmittal to Contracting Officer. Prepare transmittal of submittal items in accordance with Section 01330 SUBMITTAL PROCEDURES.

1.6 PARTNERING

Contracting Officer wants to have a bilateral project partnership with Contractor that draws on strengths of both organizations to identify and achieve common goals. Typical partnering goals include:

- Effective and efficient contract performance
- Project completion on time and within budget
- Construction completed according to plans and specifications
- Development of cooperative management teams
- Project success with customer (stakeholders) satisfaction
- Improved Project communication

1.6.1 Initial Partnering Meeting

Contractor, key subcontractors and suppliers shall attend a one-day project "Partnering Meeting". The Partnering Meeting is a project team building workshop facilitated by trained persons. Contracting Officer attendees and invited persons may include:

Administrative Contracting Officer Representative (Area Engineer)
Construction Quality Assurance Representatives
Jacksonville District - Construction Branch persons
Jacksonville District - Engineering Division Designers
Local Sponsor (Owner) - Ms. Nicole Elko

Pinellas County of Public Works

440 Court Street, Clearwater, Florida 34616

Goal of initial Partnering Meeting is to build trust, identify common goals, and understand individual project members expectations and organizational values. Usual results include better communication between contract parties, shortened project learning curve and a cohesive two party contract partnership. Participants usually sign a voluntary partnering agreement generally describing mutual obligation to cooperate to achieve project goals and maintain effective communication. Contracting Officer will pay costs for workshop site rental and facilitator fees.

1.6.2 Partnering Regroups

After initial Partnering Meeting participation will be voluntary in accordance with a signed Partnering Agreement. After initial Partnering Workshop, ~~costs will be agreed to by both partners and split shared equally, without changing contract price.~~ partnering sessions will be hosted

by both parties on an alternating basis with the hosting party being responsible for all costs associated with their meeting. At no time will these costs be used to change the contract price. Partnering Agreements include provisions for Contracting Officer and Contractor to request "Partnering Regroups" when needed. A "Partnering Regroup" is usually a short (4 hours - 1 day) informal partnering session where senior level Contractor and Contracting Officer project members and other interested parties review project issues of concern. Issues of conflict are reviewed, attempt to affirm common project goals and understand concerns of other partner.

1.7 NOTICE TO PROCEED

Notice to proceed (NTP) will be issued shortly after completion of the preconstruction conference. If the Contractor has failed to submit specified plans, including, but not limited to, Accident Prevention Plan - Section 01525 GENERAL SAFETY REQUIREMENTS, Quality Control Plan - Section 01452 DREDGING/BEACH FILL PLACEMENT - CONTRACTOR QUALITY CONTROL, and Environmental Protection Plan - Section 01355 ENVIRONMENTAL PROTECTION, or has not yet received the Contracting Officer's conditional approval to work under an interim plan, the Contractor shall not proceed with the work and shall consider the work to be suspended in accordance with the Suspension Of Work clause of the contract. While the Contractor is working under a conditionally accepted interim plan, funds may be retained from progress payments in accordance with the Payments Under Fixed-Price Construction Contracts clause of this contract until such time as the Contractor submits an acceptable plan. If the Contractor does not submit an acceptable plan within a reasonable time, as determined by the Contracting Officer, the Contracting Officer may order the Contractor to suspend work. Any suspension order issued for the Contractor's failure to submit an acceptable plan will not constitute unreasonable delay under the Suspension Of Work clause and the Contractor will not be entitled to an equitable adjustment of either performance period or contract price.

1.8 COORDINATION MEETING

Coordination Meeting is scheduled, convened and conducted by Contracting Officer after a Preconstruction Conference and prior to starting physical construction. Draft plans submitted after NOA (i.e., Quality Control Plan, Environmental Protection Plan and Accident Prevention Program) will have been reviewed. Coordination Meeting is primarily for on-site Contractor Quality Control staff, including subcontractor and supplier employees performing quality control, to meet and discuss the project in detail with Contracting Officer's Quality Assurance Representatives. Purposes of Coordination Meeting are:

- Achieve mutual understanding with Contractor of required Quality Control
- Jointly review submitted draft plans; resolve issues of concern
- Discuss project plans and specifications, schedule, documentation
- Establish a good working relationship between the Contractors Quality Control Staff and Quality Assurance Representatives

1.9 PROGRESS MEETINGS

Schedule, convene and preside over progress meetings as required. As project activities increase ("ramp up"), a minimum of one progress meeting per week is typical of a project of this scope. Convene additional meetings as required, or when requested by Contracting Officer. Notify persons needed to be present to discuss agenda issues. Contracting Officer may direct attendance by key Contractor suppliers, or fabricators as needed. A sample meeting agenda is provided in paragraph GENERAL MEETING REQUIREMENTS below.

1.9.1 Progress Meeting Participants

Typical participants include:

- Contracting Officer or Contracting Officer's Representative
- Contractor's Site Superintendent
- Contractor's Quality Control Manager
- Contractor's Safety Coordinator
- Subcontractors, as appropriate to the agenda
- Suppliers, as appropriate to the agenda
- Others as appropriate to the agenda

PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION

3.1 GENERAL MEETING REQUIREMENTS

See Section 01452 DREDGING/BEACH FILL PLACEMENT - CONTRACTOR QUALITY CONTROL and Section 01312 QUALITY CONTROL SYSTEM (QCS) for generating Preparatory and Initial Phase meeting checklists. Contractor is responsible for phase and progress meetings to include:

- Meeting notification to participants
- Prepare agenda for meetings
- Use phase checklists for Preparatory and Initial Phase meetings
- Physical arrangements for meetings
- Preside at meetings
- Record minutes recording proceedings and decisions
- Copy and send minutes to:
 - Meeting participants
 - Project parties affected by decisions
 - Contracting Officer (No later than 3 working days)

3.2 PROGRESS MEETING AGENDA

Modify agenda as needed for on-going work.

- Review minutes from previous progress meetings
- Review work progress since previous meeting
- Review current definable features of work:
 - Identify phases of current features of work
 - Identify pending phase changes

- Identify features for discussion in next scheduled meeting

Discuss problem prevention:

- Field observations
- Deficiencies and tracking
- Procedures working well
- Problems, conflicts
- Methods to improve

Review construction schedule:

- Identify delays
- Discuss proposed corrective actions to regain schedule

Submittals and Requests for Information (design interpretation):

- Review submittal register
- Identify submittals to expedite as required

Review off-site activities:

- Fabrications
- Material and equipment delivery schedule

Review Testing:

- Type, Schedule
- Received Results

Review changes to construction schedule:

- Planned progress during succeeding work period
- Coordination of various schedules
- Effect of changes on construction and completion date

Review site safety

Discuss maintaining contract quality for materials and workmanship

Discuss pending modifications, changes and substitutions

Discuss other business, as appropriate

-- End of Section --

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION

Pinellas County, Long Key Treasure Island SPP

CONTRACTOR

A C T I V I T Y N O	T R A N S M I T T A L N O	S P E C I F I C S E C T	D E S C R I P T I O N	P A R A G R A P H G #	G O V E R N M E N T C L A S S I F I C A T I O N	C O N T R A C T O R : S C H E D U L E D A T E S			C O N T R A C T O R A C T I O N		A P P R O V I N G A U T H O R I T Y				M A I L E D T O C O N T R A C T O R / R E M A R K S			
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(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	
	01310		SD-01 Preconstruction Submittals															
			List of Subcontractors															
			Signature Authority															
			Drug-Free Work Place Record															
			Contractor Insurance															
	01312		SD-01 Preconstruction Submittals															
			First QCS Export		G COR													
	01320		SD-01 Preconstruction Submittals															
			QCS Export File		G COR													
	01330		SD-01 Preconstruction Submittals															
			First QCS Export		G COR													
	01355		SD-01 Preconstruction Submittals															
			Environmental Protection Plan		G PD													
			SD-02 Shop Drawings															
			Turtle Deflector Device	3.1.5.6	G COR													
			SD-07 Certificates															
			Sea Turtle Trawling and															
			Relocation (For Hopper Dredges															
			Only) Permit															
			Bird Monitoring Qualifications	3.1.5.11	G PD													
			SD-11 Closeout Submittals															
			Logs/Final Summary Report															
			Project Environmental Summary	1.7														
			Sheet															
			Logs/Summary of Bird Nesting															
			Monitoring															

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION

Pinellas County, Long Key Treasure Island SPP

CONTRACTOR

A C T I V I T Y N O	T R A N S M I T T A L N O	S P E C I F I C S E C T	D E S C R I P T I O N	P A R A G R A P H #	G O V E R N M E N T C L A S S I F I C A T I O N	C O N T R A C T O R : S C H E D U L E D A T E S			C O N T R A C T O R A C T I O N		A P P R O V I N G A U T H O R I T Y				M A I L E D T O C O N T R A C T O R	R E M A R K S		
						S U B M I T	B Y	B Y	A C T I O N	D A T E O F	D A T E F R O M	D A T E F R O M	D A T E F R O M	D A T E F R O M			D A T E O F	D A T E F R O M
	01411		SD-03 Product Data Calibration Standard															
			SD-06 Test Reports Turbidity Monitoring															
	01452		SD-01 Preconstruction Submittals Quality Control Plan Personnel Qualifications Letter of Authority		G COR G COR													
	01500		SD-01 Preconstruction Submittals Mobilization/Demobilization Plan Security Plan Manufacturer's Literature for Equipped Boat, Trailer, and Hand-Held Radios	3.6														
			SD-02 Shop Drawings Contractor's Temporary Facilities Temporary Electric Drawings	3.5														
			SD-07 Certificates Boat Operator's License															
	01525		SD-01 Preconstruction Submittals Accident Prevention Plan (APP) Activity Hazard Analyses (AHA) Employee Safety and Health Indoctrination (ESHI) and Training Plan Hazard Communication Plan	1.6 1.7 1.9	G COR G COR													

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION

Pinellas County, Long Key Treasure Island SPP

CONTRACTOR

ACTIVITY NO	TRANSMITTAL NO	SPEC SECT	DESCRIPTION	PARAGRAPH	G O V C L A S S I F I C A T I O N	CONTRACTOR: SCHEDULE DATES			CONTRACTOR ACTION		APPROVING AUTHORITY				REMARKS		
						SUBMIT	BY	BY	A C T I O N C O D E	DATE OF ACTION	DATE FWD TO APPR AUTH/ FROM CONTR	DATE FWD TO OTHER REVIEWER	DATE RCD FROM OTH REVIEWER	A C T I O N C O D E		DATE OF ACTION	DATE RCD FRM APPR AUTH
(a)	(b)	(c)	(d)	(e)	(f)												(r)
	01525		Emergency Response Plan	1.11													
			Hurricane and Severe Storm Plan	1.10	G COR												
			Dive Operations Plan		G COQ												
			Confined Space Plan	1.14	G COR												
			Spill Response Plan		G COR												
			SD-07 Certificates														
			Safety Officer Qualifications	1.16.1	G COR												
			Dredge Plant Inspection Checklists		G COR												
	01780		SD-02 Shop Drawings														
			Final Environmental Summary and Site Restoration														
	02290		SD-01 Preconstruction Submittals														
			Vibration Control Specialist		G ED												
			Vibration Control Specialist		G ED												
			Alternate														
			Vibration Monitoring Technician(s)		G ED												
			Structural Inspection/Evaluation Engineer		G ED												
			Pre-Construction Structural Survey		G ED												
			Vibration Control Plan		G ED												
			SD-06 Test Reports														
			Vibration Monitoring Report														
			Daily Instrument Logs														

SUBMITTAL REGISTER

CONTRACT NO.

TITLE AND LOCATION

Pinellas County, Long Key Treasure Island SPP

CONTRACTOR

A C T I V I T Y N O	T R A N S M I T T A L N O	S P E C I F I C S E C T	D E S C R I P T I O N	P A R A G R A P H #	C L A S S I F I C A T I O N	C O N T R A C T O R : S C H E D U L E D A T E S			C O N T R A C T O R A C T I O N		A P P R O V I N G A U T H O R I T Y				M A I L E D T O C O N T R A C T O R	R E M A R K S		
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	02290		Post-Construction Structural Survey		G ED													
	02325		SD-01 Preconstruction Submittals															
			Notice of Intent to Dredge															
			Relocation of Navigation Aids															
			Work Plan		G COR													
			Construction and Grade Stakes		G COR													
			Recovery Plan															
			Beach Sampling															
			Certified Testing Laboratory															
			SD-03 Product Data															
			Beach Sampling During															
			Construction															
			SD-07 Certificates															
			Grade Stake Recovery		G COR													
			Equipment and Performance															
			Data															
			Notification of Discovery of															
			Historical Period Shipwreck Sites															
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			Operations															
			Notice of Misplaced Material															
			Declaration of Inspection															
			Stateside															

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- 1.4 PERMITS AND AUTHORIZATIONS
- 1.5 SUBMITTALS
- 1.6 SUBCONTRACTORS
- 1.7 NOTIFICATION
- 1.8 CONTRACTOR PERSONNEL QUALIFICATIONS IN POLLUTION CONTROL

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SECTION 01355

ENVIRONMENTAL PROTECTION

PART 1 GENERAL

1.1 SCOPE

This Section covers prevention of environmental damage as the result of construction operations under this contract and for those measures set forth in other Technical Requirements of these specifications. For the purpose of this specification, environmental damage is defined as the presence of hazardous, physical, chemical, or biological elements or agents which adversely affect human health or welfare; unfavorably alter ecological balances; affect other species, biological communities, or ecosystems; or degrade the quality of the environment for aesthetic, cultural, and/or historical purposes. The control of environmental damage requires consideration of land, water, and air, and includes management of visual aesthetics, noise, solid waste, radiant energy and radioactive materials, as well as other pollutants.

1.2 REFERENCES

1.2.1 Miscellaneous Environmental Laws And Regulations

There are numerous environmental laws and regulations. At the Federal level, the applicable laws and regulations include compliance with the Clean Water Act (CWA); Clean Air Act (CAA); Coastal Zone Management Act (CZMA); Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); Endangered Species Act (ESA); Fish and Wildlife Coordination Act (FWCA); Marine Protection, Research, and Sanctuaries Act (MPRSA); Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA); National Environmental Policy Act (NEPA); National Historic Preservation Act (NHPA); National Pollution Discharge Elimination System (NPDES); Research and Sanctuaries Act; Native American Graves Protection and Repatriation Act (NAGPRA); Resource Conservation and Recovery Act (RCRA); Rivers and Harbors Act (R&H); Safe Drinking Water Act (SDWA); Toxic Substance Control Act (TSCA); Wild and Scenic Rivers Act (WSRA); Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA); Code of Federal Regulations (CFRs); Executive Orders; and, Environmental Protection Agency (EPA) requirements. NEPA compliance measures specified in an Environmental Assessment (EA) or Environmental Impact Statements (EIS) are also applicable with regard to compliance.

1.2.2 Publication Reference(s)

The publication(s) listed below form(s) a part of this specification to the extent referenced. The publication(s) are referred to in the text by basic designation only.

U.S. ARMY CORPS OF ENGINEERS (USACE)

COE EM 385-1-1	(2003) U.S. Army Corps of Engineers Safety and Health Requirements Manual
COE EM 1110-1-1003	(1996) NAVSTAR Global Positioning System Surveying
COE ER 1110-1-5	(1984) Plant Pest Quarantined Areas and Foreign Soil Samples

1.3 QUALITY CONTROL

The Contractor shall establish and maintain quality control for environmental protection of all items set forth herein. The Contractor shall record on daily quality control reports or attachments thereto, any problems in complying with laws, regulations and ordinances, and corrective action taken.

1.4 PERMITS AND AUTHORIZATIONS

The Contractor shall obtain all needed permits or licenses. The Government will not obtain any permits for this project; see Clause PERMITS AND RESPONSIBILITIES of Section 00700 CONTRACT CLAUSES. The Contractor shall be responsible for implementing the terms and requirements of the appropriate permits as needed and for payment of all fees.

In addition to the above, the Contractor shall comply with all requirements under the terms and conditions set out in the following permit(s) and authorization(s) obtained by the Corps of Engineers listed below. These permit(s) and authorization(s) are available for review by contacting the Jacksonville District, Operations and Technical Support Section at 904-232-2539.

- a. Florida Department of Environmental Protection Permit No. ~~0198734~~ 0221569-001-JC; Effective date and Expiration date pending. Permit information is available at:
http://bcs.dep.state.fl.us/env-prmt/pinellas/jcp/pending/0221569-001-JC_Treasure_Island_Long_Key_Nourishment/

1.5 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Environmental Protection Plan; G|PD

Within 10 calendar days after the date of Notice of Award, the

Contractor shall submit an Environmental Protection Plan for review and acceptance by the Contracting Officer. The Government will consider an interim plan for the first 30 days of operations.

However, the Contractor shall furnish an acceptable final plan no later than 30 calendar days after receipt of Notice to Proceed. Acceptance of the Contractor's plan shall not relieve the Contractor of his responsibility for adequate and continuing control of pollutants and other environmental protection measures.

Acceptance of the plan is conditional and predicated on satisfactory performance during construction. The Government reserves the right to require the Contractor to make changes to the Environmental Protection Plan or operations if the Contracting Officer determines that environmental protection requirements are not being met. No physical work at the site shall begin prior to acceptance of the Contractor's plan or an interim plan covering the work to be performed. The Environmental Protection Plan shall include but not be limited to the following:

a. A list of Federal, State and local laws, regulations, and permits concerning environmental protection, pollution control, and abatement that are applicable to the Contractor's proposed operations and the requirements imposed by those laws, regulations, and permits.

b. Methods for protection of features to be preserved within authorized work areas. The Contractor shall prepare a listing of methods to protect resources needing protection, i.e., trees, shrubs, vines, grasses and ground cover, landscape features, air and water quality, fish and wildlife, soil, historical, archeological, and cultural resources.

c. Procedures to be implemented to provide the required environmental protection and to comply with the applicable laws and regulations. The Contractor shall provide written assurance that immediate corrective action will be taken to correct pollution of the environment due to accident, natural causes, or failure to follow the procedures set out in accordance with the environmental protection plan.

d. A permit or license for and the location of the solid waste disposal area.

e. Drawings showing locations of any proposed temporary excavations or embankments for haul roads, stream crossing, material storage areas, structures, sanitary facilities, and stockpiles of excess or spoil materials.

f. Environmental monitoring plans for the job site, including land, water, air, and noise monitoring.

g. Traffic control plan.

h. Methods of protecting surface and ground water during construction activities.

i. Spill prevention. The Contractor shall specify all potentially hazardous substances to be used on the job site and intended actions to prevent accidental or intentional introduction of such materials into the air, ground, water, wetlands, or drainage areas. The plan shall specify the Contractor's provisions to be taken to meet Federal, State and local laws and regulations regarding labeling, storage, removal, transport, and disposal of potentially hazardous substances.

j. Spill contingency plan for hazardous, toxic, or petroleum material.

k. Work area plan showing the proposed activity in each portion of the area and identifying the areas of limited use or nonuse. Plan should include measures for marking the limits of use areas.

l. Plan of borrow area(s).

m. A statement as to the person who shall be responsible for implementation of the Environmental Protection Plan. The Contractor personnel responsible shall report directly to the Contractor's top management and shall have the authority to act for the Contractor in all environmental protection matters.

n. Recycling and Waste Management Plan. Executive Order 12873 of 20 October 1993 requires a number of considerations in planning a project. Fallen trees should not be burned or buried. Mulching, composting, and other uses for trees should be considered. Also, recovery of metals at the job site, including aluminum cans, should be considered with proceeds to be retained by the Contractor. Non-Federal recycling and waste minimization efforts shall also be incorporated into this plan.

o. Operational plan to achieve protection of sea turtles during hopper dredge(s) operation.

p. Construction activities shall be conducted in a manner as not to impact migratory birds or induce their nesting.

q. A detail/site specific contamination containment plan to minimize any oil or crude oil spreading into the water column.

SD-02 Shop Drawings

Turtle Deflector Device; G|COR

If the Contractor proposes to use a hopper dredge for this work, detail drawings shall be submitted showing the proposed device and its attachment to the Contractor's equipment. Contractor's drawings to be submitted shall include the approach angle for any and all depths to be dredged during this contract. A copy of the approved drawings and calculations shall be available on the

vessel during the life of this contract. No dredging work shall be allowed to commence until approval of the installed turtle deflector device.

SD-07 Certificates

Sea Turtle Trawling and Relocation (For Hopper Dredges Only) Permit

The Contractor shall submit a certified copy of National Marine Fishery Service (NMFS) permit for sea turtle trawling and relocation as well as a statement as to the person responsible for implementation of the NMFS permit.

Bird Monitoring Qualifications; G|PD

Within 10 calendar days after the date of Notice of Award, the Contractor shall furnish to the Contracting Officer for approval, the qualifications of the bird monitor/observer. Appropriate qualifications for bird monitor/observer shall be a demonstrated ability to find and/or identify bird species, nesting behavior, eggs and nests, and habitat requirements. The Contractor shall consult with and coordinate all monitoring plans and activities with Eric Gasch @ 904-232-3140.

SD-11 Closeout Submittals

Logs/Final Summary Report

Contractor shall submit as specified, logs and final summary report of sightings and incidents with endangered species.

Project Environmental Summary Sheet

Contractor shall submit within 30 days following completion of the project, a written report of the absence or occurrence of environmental incidents. In addition, for construction activities whose anticipated duration is more than one calendar year, the Contractor shall complete a sheet each May 31st (plus/minus 14 days).

Logs/Summary of Bird Nesting Monitoring

Contractor shall submit as specified, logs and summary of monitoring detailing nesting and nesting success.

1.6 SUBCONTRACTORS

Assurance of compliance with this section by subcontractors shall be the responsibility of the Contractor.

1.7 NOTIFICATION

The Contracting Officer will notify the Contractor in writing of any observed noncompliance with the aforementioned Federal, State or local laws

or regulations, permits and other elements of the Contractor's environmental protection plan. The Contractor shall, after receipt of such notice, inform the Contracting Officer of proposed corrective action and take such action as may be approved. If the Contractor fails to comply promptly, the Contracting Officer may issue an order stopping all or part of the work until satisfactory corrective action has been taken. No time extensions shall be granted or costs or damages allowed to the Contractor for any such suspension.

Additionally, the Contractor shall notify the Contracting Officer, in writing, of the absence or occurrence of environmental incidents, as required on the Project Environmental Summary Sheet, copy on the web site indicated in paragraph CONSTRUCTION FORMS AND DETAILS below. Refer to paragraph SUBMITTALS above.

1.8 CONTRACTOR PERSONNEL QUALIFICATIONS IN POLLUTION CONTROL

The Contractor's personnel shall be qualified to perform all phases of environmental protection, including methods of detecting and avoiding pollution, familiarization with pollution standards, both statutory and contractual, and careful installation and monitoring of the project to ensure adequate and continuous environmental pollution control. Quality Control and supervisory personnel shall be thoroughly knowledgeable of Federal, State and local laws, regulations, and permits as listed in the Environmental Protection Plan submitted by the Contractor. Quality Control personnel will be identified in the Quality Control Plan submitted in accordance with Section 01452 DREDGING/BEACH FILL PLACEMENT - CONTRACTOR QUALITY CONTROL.

PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION

3.1 PROTECTION OF ENVIRONMENTAL RESOURCES

For contract work, the Contractor shall comply with all applicable Federal, State or local laws and regulations. The environmental resources within the project boundaries and those affected outside the limits of permanent work under this contract shall be protected at least during the entire period of this contract. The Contractor shall confine his activities to areas defined by the drawings and specifications. Deviations from drawings or specifications (e.g., proposed alternate borrow areas, disposal areas, staging areas, and alternate access routes) could result in the need for the Government to reanalyze and re-approve the project from an environmental standpoint. Environmental protection shall be as stated in the following subparagraphs.

3.1.1 General Project Environmental Design and Installation Criteria

Some project sites have features that shall not be impacted in any way, including cultural, historic, or archeological features. At all sites, project plans should minimize disturbance to existing features at the site to the extent possible, including vegetative, topographic, and drainage pattern features. Wetland impacts (temporary access, detours, staging

areas, and other work area impacts) to project sites should be avoided and may require separate permitting action. Any wetlands temporarily impacted shall have its soil restored upon project completion. Expansion of previously permitted project footprints may likewise require separate permitting action.

In all cases, the design and/or installation of project system shall provide for protection of the environment during handling, installing, storing, utilizing, transporting, servicing, testing, refilling, transferring, pumping, processing, removing waste products, repairing and maintaining systems and their components. Necessary design protection shall also be considered that would prevent contamination of the environment from impacts to the system caused by storm water runoff and flooding. Retrofit of connected systems on project sites to modern environmental protection design standards shall also be considered.

In the event environmental protection measures fail, the Contractor shall implement procedures to control and correct environmental damage.

3.1.1.1 Sewage-Based Systems Environmental Design and Installation Criteria

In general, there shall be no waste or debris discharges of any kind for a project unless authorized by the Contracting Officer. This shall include the Contractor's providing sufficient temporary sanitary equipment and facilities for the project. The design and/or installation of temporary or permanent sewage systems shall ensure that waters will be free of effects of sewage discharges. Applicable Federal, State or local codes and requirements regarding sewage shall be strictly adhered to in the design, such as those of the EPA and, in the case of the State, Chapter 62-620 (Wastewater Facilities) of the FAC. Best Management Practices from the applicable agencies shall also be adhered to in the design.

3.1.2 Protection of Land Resources

Prior to the beginning of any construction, the Contractor shall identify all land resources to be preserved or avoided within the Contractor's work area. Materials displaced into uncleared areas shall be removed. The Contractor shall not remove, cut, deface, injure, or destroy land resources including trees, shrubs, vines, grasses, topsoil, and land forms without special permission from the Contracting Officer. The Contractor shall engage a qualified tree surgeon to perform all tree surgery. The Contractor shall be responsible to repair injuries to bark, trunk, branches, and roots of protected trees by dressing, cutting, and painting as specified for Class I Fine Pruning, of the National Arborist Association Pruning Standards for Shade Tree or as per State's Agricultural Extension Agency Guidelines, immediately as occurrences arise. No ropes, cables, or guys shall be fastened to or attached to any trees for anchorage unless specifically authorized. Where such special emergency use is permitted, the Contractor shall provide effective protection for land and vegetation resources at all times as defined in the following subparagraphs.

3.1.2.1 Work Area Limits

Prior to any construction, the Contractor shall mark the areas that are not

required to accomplish all work to be performed under this contract. Isolated areas within the general work area which are to be saved and protected shall also be marked or fenced. The Contractor shall protect from damage all existing trees designated to remain. Protection of tree roots shall be provided against noxious materials in solution caused by run-off or spillage. Fires shall be located outside the canopy of protected trees. No materials, trailers, or equipment shall be stored within the drip line of any protected tree. Monuments and markers shall be protected before construction operations commence. Where construction operations are to be conducted during darkness, the markers shall be visible. The Contractor shall convey to his personnel the purpose of marking and/or protection of all necessary objects.

The Contractor shall thoroughly clean all construction equipment and tools at the prior job site in a manner that ensures all residual soil is removed and that egg deposits from plant pests are not present. The Contractor shall consult with the U.S. Department of Agriculture (USDA) regarding additional cleaning requirements that may be necessary. In addition, if this contract involves the identification, shipping, storage, testing, or disposal of soils from such a quarantined area, the Contractor agrees to comply with the provisions of COE ER 1110-1-5 and attachments. The Contractor agrees to assure compliance with this obligation by all subcontractors.

3.1.2.2 Contractor Facilities and Other Work Areas

The Contractor's field offices, staging areas, stockpile storage, and temporary buildings shall be placed in areas designated on the drawings or as directed by the Contracting Officer. Temporary movement or relocation of Contractor facilities shall be made when approved by the Contracting Officer. Borrow areas shall be managed to minimize erosion and to prevent sediment from entering nearby watercourses, wetlands, or lakes. Spoil areas shall be managed and controlled to limit spoil intrusion into areas designated on the drawings and to prevent erosion of soil or sediment from entering nearby watercourses, wetlands, or lakes. Spoil areas shall be developed in accordance with the grading plan indicated on the drawings. Temporary excavation and embankments for plant and/or work areas shall be controlled to protect adjacent areas from despoilment. If there is suspicion that sediment may be unsuitable for disposal at a specified location, the Contractor shall immediately take measures to contain the suspect sediment and notify the Contracting Officer.

3.1.2.3 Solid Wastes

Solid wastes (excluding clearing debris) shall be placed in containers which are emptied on a regular schedule. All handling and disposal shall be conducted to prevent contamination. Solid waste materials shall be hauled to an approved solid waste disposal site designated by the Contracting Officer. The Contractor shall comply with Federal, State and local regulations pertaining to the use of the solid waste disposal site.

3.1.2.4 Fuel, Oil, and Lubricants

Fuel, oil, and lubricants shall be managed so as to prevent spills and

evaporation. To prevent spills, fuel dispensers shall have a 4-foot square, 16-gauge metal pan with borders banded up and welded at corners right below the bibb. Edges of the pans shall be 8-inch minimum in depth to ascertain that no contamination of the ground takes place. Pans shall be cleaned by an approved method immediately after every dispensing of fuel and wastes disposed of offsite in an approved area. Should any spilling of fuel occur, the Contractor shall immediately recover the contaminated ground and dispose of it offsite in an approved area. Petroleum waste generated shall be stored in marked corrosion-resistant containers and recycled or disposed of in accordance with 40 CFR 279, State and local regulations.

3.1.2.5 Dredge Material with Oil or Crude Oil Contamination Containment

As a precaution to the potential exposure of contaminant deposits, a single containment boom shall be placed around the dredge area and at the discharge site at the beach, establishing a containment area. ~~The Contractor is responsible for monitoring and identifying any potential sources of oil contamination during the dredging operation. operations at the beach and borrow sites. Should contaminants be found, the Contractor shall contact the COR, stop dredging operations, and initiate the clean up process~~ deploy a second oil-absorbent containment boom around the dredge site and at the discharge site at the beach. A second layer of booms and oil Oil-absorbing material will be placed in the containment area. ~~A containment area around the discharge pipe will be established by two-layer deep containment booms and oil-absorbing material. The discharge will be directed to the containment area by two parallel dikes. Establishment of the containment area and dikes will be reset as necessary during the dredging process.~~

3.1.2.6 Hazardous Waste

Hazardous wastes are defined in 40 CFR 261. The Contractor shall ensure that hazardous wastes are stored and disposed of in accordance with 40 CFR 261 and State and local regulations. The Contractor shall ensure that hazardous wastes are packed, labeled, and transported in accordance with 49 CFR 173 and State and local regulations.

3.1.2.7 Hazardous Materials

The Contractor shall ensure that hazardous materials are labeled, stored, and transported in accordance with 49 CFR 173, State and local regulations.

3.1.2.8 Disposal of Other Materials

Other materials than previously discussed (Construction and Demolition, vegetative waste, etc.) shall be handled as directed.

3.1.3 Preservation and Recovery of Historic, Archeological, and Cultural Resources

3.1.3.1 Applicable Law

A number of Federal laws require protection of cultural resources. Two

laws, in particular, can be potentially involved with dredging activities:
(1) the National Historic Preservation Act, as amended; and, (2) the
Abandoned Shipwreck Act.

3.1.3.2 Known Resources

If known historic, archeological and cultural resources within the Contractor's work area(s) are present, it will be designated as a "sensitive environmental area" on the contract drawings or other documents.

If so designated, the Contractor shall install protection for these resources and shall be responsible for their preservation during the contract's duration. The Contractor shall not distribute maps or other information on these resource locations except for distribution among the Contractor's staff with a "need to know" technical responsibility for protecting the resources.

3.1.3.3 Inadvertent Discoveries

If, during or other construction activities, the Contractor observes items that may have historic or archeological value, such observations shall be reported immediately to the Contracting Officer so that the appropriate Corps staff may be notified and a determination for what, if any, additional action is needed. Examples of historic, archeological and cultural resources are bones, remains, artifacts, shell, midden, charcoal or other deposits, rocks or coral, evidences of agricultural or other human activity, alignments, and constructed features. The Contractor shall cease all activities that may result in the destruction of these resources and shall prevent his employees from further removing, or otherwise damaging, such resources.

The possibility of encountering submerged cultural resources is inherent in dredging and snagging operations. Such findings could include shipwrecks, shipwreck debris fields (such as ~~streamed~~steam engine parts), prehistoric watercraft (such as log "dugouts"), and other structural features intact or displaced. The materials may be deeply buried in sediment, resting in shallow sediments or above them, or protruding into water. Suspected cultural materials inadvertently gathered from a water-saturated context should be kept moist by re-immersion, spraying, or some other expedient means of wetting until the appropriate Corps staff provide further directives. No interviews or other contact with media shall occur without clear authorization from the Contracting Officer or the appropriate Corps representative.

3.1.3.4 Claims for Downtime due to Inadvertent Discoveries

Upon discovery and subsequent reporting of a possible inadvertent discovery of cultural resources, the Contractor shall seek to continue work well away from, or otherwise protectively avoiding, the area of interest, or in some other manner that strives to continue productive activities in keeping with the contract. Should an inadvertent discovery be of the nature that substantial impact(s) to the work schedule are evident, such delays shall be coordinated with the Contracting Officer. Contract adjustments resulting from compliance with this paragraph shall be determined in accordance with Clause DIFFERING SITE CONDITIONS of Section 00700 CONTRACT

CLAUSES.

3.1.4 Protection of Water Resources

The Contractor shall keep construction activities under surveillance, management, and control to avoid pollution of surface, ground waters, and wetlands. The Contractor shall plan his operation and perform all work necessary to minimize adverse impact or violation of the water quality standard. Special management techniques as set out below shall be implemented to control water pollution by the listed construction activities which are included in this contract. The Contractor's construction methods shall protect wetland and surface water areas from damage due to mechanical grading, erosion, sedimentation and turbid discharges. There shall be no storage or stockpiling of equipment, tools, or materials within wetlands or along the shoreline within the littoral zone unless specifically authorized.

3.1.4.1 Stream Crossings

Stream crossings shall be controlled during construction. Crossings shall provide movement of materials or equipment without violating water pollution control standards of the Federal, State or local government.

3.1.4.2 Monitoring of Water Areas

Monitoring of water areas affected by construction activities shall be the responsibility of the Contractor. All water areas affected by construction activities shall be monitored by the Contractor.

3.1.4.3 Turbidity

The Contractor shall conduct his operations in a manner to minimize turbidity. Refer to Section 01411 TURBIDITY AND DISPOSAL MONITORING for further instructions.

3.1.4.4 Oil, Fuel, and Hazardous Substance Spill Prevention and Mitigation

The Contractor shall prevent oil, fuel, or other hazardous substances from entering the air, ground, drainage, local bodies of water, or wetlands. This shall be accomplished by design and procedural controls. In the event that a spill occurs despite the design and procedural controls, the following shall occur:

(1) Immediate action shall be taken to contain and cleanup any spill of oil, fuel or other hazardous substance.

(2) Spills shall be immediately reported to the Contracting Officer.

(3) Spill contingency planning shall be strictly in accordance with the criteria of 40 CFR, Part 109.

(4) To control the spread of any potential spill, absorbent materials shall be readily available and capable of absorbing the

contents of the single largest tank.

(5) To control the spread of any potential spill, the Contractor shall provide a written certification of commitment of manpower, equipment, and materials required to expeditiously cleanup and dispose of spill materials.

a. Spill Preventive Systems: System design and installation requirements have been discussed at the beginning of this Section. Temporary or portable tanks shall conform to applicable Federal, State and local codes and requirements and shall not be placed where they may be affected by storm, flooding, or washout. Diversionary structures for spills shall be put in place in advance where practical. Both spill preventive systems and any deviations from associated requirements must be approved by the Contracting Officer prior to implementation.

b. Liabilities: The Contractor shall be liable in the amounts established in 40 CFR, Part 113 when it can be shown that oil was discharged as a result of willful negligence or willful misconduct. The penalty for failure to report the discharge of oil shall be in accordance with the provision of 33 CFR, Part 153.

3.1.5 Protection of Fish and Wildlife Resources

The Contractor shall keep construction activities under surveillance, management, and control to minimize interference with, disturbance to, and damage of fish and wildlife. Species that require specific attention along with measures for their protection shall be listed in the Contractor's Environmental Protection Plan prior to the beginning of construction operation.

In the event that a threatened or endangered species is harmed as a result of construction activities, the Contractor shall cease all work and notify the Contracting Officer. The order of contact within the Corps of Engineers shall be as follows:

Order of Contact of Corps Personnel

<u>Title</u>	<u>Telephone Number</u>	
	<u>Work Hours</u>	<u>After Hours</u>
Corps, Inspector	On site	Lodging Location
Area Engineer, (CESAJ-CO-G)	813-840-0824	To be Provided
Dr. Loren Mason, Chief, Environmental Branch, Planning Division (CESAJ-PD-E)	904-232-2202	To be Provided
Chief, Construction Branch Construction-Operations Division (CESAJ-CO-C)	904-232-1122	To be Provided
Chief, Construction-Operations Division (CESAJ-CO)	904-232-3765	To be Provided

3.1.5.1 Endangered Species Protection

The Contractor shall instruct all personnel associated with the project of the potential presence of manatees, sea turtles, dolphins and whales in the area, and the need to avoid collisions with and harming these animals. All construction personnel shall be advised that there are civil and criminal penalties for harming, harassing, or killing manatees, sea turtles, dolphins and whales which are protected under the Marine Mammal Protection Act of 1972, the Endangered Species Act of 1973, and/or the Florida Manatee Sanctuary Act. The Contractor shall be held responsible for any manatee, sea turtle, or whale harmed, harassed, or killed as a result of construction activities.

a. Siltation Barriers: If siltation barriers are used, they shall 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.

b. Special Operating Conditions:

(1) All vessels associated with the project shall operate at "no wake/idle" speeds at all times while in waters where the draft of the vessel provides less than a four-foot clearance from the bottom, and vessels shall follow routes of deep water whenever possible. Boats used to transport personnel shall be shallow-draft vessels, preferably of the light-displacement category, where navigational safety permits. Mooring bumpers shall be placed on all barges, tugs, and similar large vessels wherever and whenever there is a potential for manatees to be crushed between two moored vessels. The bumpers shall provide a minimum stand-off distance of four feet.

(2) If a manatee(s) is sighted within 100 yards of the project area, all appropriate precautions shall be implemented by the Contractor to ensure protection of the manatee. These precautions shall include the operation of all moving equipment no closer than 50 feet of a manatee. If a manatee is closer than 50 feet to moving equipment or the project area, the equipment shall be shut down and all construction activities shall cease within the waterway to ensure protection of the manatee. Construction activities shall not resume until the manatee has departed the project area.

(3) Dredging operations shall cease if 3 turtles are taken until the Contracting Officer notifies the Contractor to resume dredging.

c. Manatee Monitoring (Clamshell Only): During clamshell dredging operations, a dedicated observer shall monitor for the presence of manatees. The dedicated observer shall have experience in manatee observation and be equipped with polarized sunglasses to aid in observing. If manatees are present, the observer shall document all activities with the use of a video camera with the capabilities of

video taping at night. The video tape shall have date/time signature and record all manatee movements in the construction area and note any reactions to turbidity, sound, and light. Nighttime lighting of waters within and adjacent to the work area shall be illuminated, using shielded or low-pressure sodium-type lights, to a degree that allows the dedicated observer to sight any manatee on the surface within 200 feet of the operation. The dredge operator shall gravity-release the clamshell bucket only at the water surface, and only after confirmation that there are no manatees within the safety distance identified in the standard construction conditions. The Contractor shall forward 3 copies to Chief, Environmental Branch, P.O. Box 4970, Jacksonville, Florida, 32232-0019, within 10 days of completion of the dredging.

d. Manatee Signs: Prior to commencement of construction, each vessel involved in construction activities shall display at the vessel control station or in a prominent location, visible to all employees operating the vessel, a temporary sign at least 8-1/2" x 11" reading, "CAUTION: MANATEE HABITAT/IDLE SPEED IS REQUIRED IN CONSTRUCTION AREA." In the absence of a vessel, a temporary 3' x 4' sign reading "CAUTION: MANATEE AREA" shall be posted adjacent to the issued construction permit. A second temporary sign measuring 8-1/2" x 11" reading "CAUTION: MANATEE HABITAT. EQUIPMENT MUST BE SHUTDOWN IMMEDIATELY IF A MANATEE COMES WITHIN 50 FEET OF OPERATION" shall be posted at the dredge operator control station and at a location prominently adjacent to the issued construction permit. The Contractor shall remove the signs upon completion of construction. Sample Manatee Caution Signs are on the web site indicated in the paragraph CONSTRUCTION FORMS AND DETAILS below.

3.1.5.2 Endangered Species Observers (Hopper Dredge Only)

During dredging operations, an observer approved by the National Marine Fisheries Service (NMFS) for sea turtles and whales shall be aboard to monitor for the presence of the species. During transit to and from the disposal area, the observer shall monitor from the bridge during daylight hours for the presence of endangered species, especially the right whale, during the period December through March. During dredging operations, the observer shall monitor the inflow screening for turtles and/or turtle parts.

a. Observation Sheets: The results of the monitoring shall be recorded on the appropriate observation sheet. An observation sheet shall be completed for each dredging cycle whether or not sea turtle or sea turtle parts are present. Sample observation sheets are on the web site indicated in paragraph CONSTRUCTION FORMS AND DETAILS below.

b. Endangered Species Observer(s): NMFS-approved firms shall provide and manage the endangered species observer(s). A list of acceptable firms can be obtained by contacting NMFS Chief of Office of Protective Species in St. Petersburg, Florida at 727-570-5312. The trained observer(s) shall require quarters on board the dredge.

3.1.5.3 Manatee, Sea Turtle, and Whale Sighting Reports

Any take concerning a manatee, sea turtle, or whale or sighting of any

injured or incapacitated manatees, sea turtles, or whales shall be reported immediately to the Corps of Engineers by notifying the personnel indicated in the table "Order of Contact of Corps Personnel" above.

A copy of the incidental take report shall be provided within 24 hours of the incident. The Contractor shall also immediately report any collision with and/or injury to a manatee to the Florida Marine Patrol "Manatee Hotline" 1-800-342-5367 as well as the U.S. Fish and Wildlife Service, Vero Beach Field Office 561-562-3909 for South Florida.

3.1.5.4 Disposition of Turtles or Turtle Parts

All turtles lethally taken by the dredge shall have a tissue sample collected for genetic analysis by the observer. The observer shall follow the NMFS "Protocol for Collecting Tissue from Dead Turtles for Genetic Analysis" posted on the web site indicated in the paragraph CONSTRUCTION FORMS AND DETAILS below. After sample collection, positively identified turtle parts shall be disposed of in accordance with the direction of the Contracting Officer. Turtle parts which cannot be positively identified on board the dredge or barge(s) shall be preserved by the observer(s) for later identification. Observer(s) shall measure, weigh, tag, and release any uninjured turtles incidentally taken by the dredge. Observer(s) (or their authorized representative) shall transport, as soon as possible, any injured turtles to a rehabilitation facility such as Sea World at Orlando, Florida.

3.1.5.5 Report Submission

The Contractor shall maintain a log detailing all incidents, including sightings, collisions with, injuries, or killing of manatees, sea turtles, or whales occurring during the contract period. The data shall be recorded on forms provided by the Contracting Officer (sample forms are on the web site indicated in paragraph CONSTRUCTION FORMS AND DETAILS below). All data in original form shall be forwarded directly to Chief, Environmental Branch, P. O. Box 4970, Jacksonville, Florida, 32232-0019, within 10 days of collection and copies of the data shall be supplied to the Contracting Officer. Following project completion, a report summarizing the above incidents and sightings shall be submitted to the following:

Florida Fish and Wildlife Conservation Commission
Bureau of Protected Species Management
620 South Meridian Street
Tallahassee, Florida 32399-1600

Chief, Environmental Branch
U.S. Army Corps of Engineers (CESAJ-PD-E)
P.O. Box 4970
Jacksonville, Florida 32232-0019

Area Engineer
U.S Army Corps of Engineers
Gulf Coast Area Office
P.O. Box 19247
Tampa, Florida 33686-9247

U.S. Fish and Wildlife Service
1339 20th Street
Vero Beach, Florida 32960-3559

National Marine Fisheries Service
Protected Species Management Branch
9721 Executive Center Drive
St. Petersburg, Florida 33702

3.1.5.6 Hopper Dredge Equipment

Hopper dredge drag heads shall be equipped with rigid sea turtle deflectors which are rigidly attached. No dredging shall be performed by a hopper dredge without an installed turtle deflector device approved by the Contracting Officer. Sample Turtle Deflector Design Details are on the web site indicated in paragraph CONSTRUCTION FORMS AND DETAILS below.

a. Deflector Design:

(1) The leading v-shaped portion of the deflector shall have an included angle of less than 90 degrees. Internal reinforcement shall be installed in the deflector to prevent structural failure of the device. The leading edge of the deflector shall be designed to have a plowing effect of at least 6" depth when the drag head is being operated. Appropriate instrumentation or indicator shall be used and kept in proper calibration to insure the critical "approach angle". (Information Only Note: The design "approach angle" or the angle of lower drag head pipe relative to the average sediment plane is very important to the proper operation of a deflector. If the lower drag head pipe angle in actual dredging conditions varies tremendously from the design angle of approach used in the development of the deflector, the 6" plowing effect does not occur. Therefore, every effort should be made to insure this design "approach angle" is maintained with the lower drag pipe.)

(2) If adjustable depth deflectors are installed, they shall be rigidly attached to the drag head using either a hinged aft attachment point or an aft trunnion attachment point in association with an adjustable pin front attachment point or cable front attachment point with a stop set to obtain the 6" plowing effect. This arrangement allows fine-tuning the 6" plowing effect for varying depths. After the deflector is properly adjusted there shall be NO openings between the deflector and the drag head that are more than 4" by 4".

b. In Flow Basket Design:

(1) The Contractor shall install baskets or screening over the hopper inflow(s) with no greater than 4" x 4" openings. The method selected shall depend on the construction of the dredge used and shall be approved by the Contracting Officer prior to commencement of dredging. The screening shall provide 100%

screening of the hopper inflow(s). The screens and/or baskets shall remain in place throughout the performance of the work.

(2) The Contractor shall install and maintain floodlights suitable for illumination of the baskets or screening to allow the observer to safely monitor the hopper basket(s) during non-daylight hours or other periods of poor visibility. Safe access shall be provided to the inflow baskets or screens to allow the observer to inspect for turtles, turtle parts or damage.

c. Hopper Dredge Operation:

(1) The Contractor shall operate the hopper dredge to minimize the possibility of taking sea turtles and to comply with the requirements stated in the Incidental Take Statement provided by the National Marine Fisheries Service in their Biological Opinion.

(2) The turtle deflector device and inflow screens shall be maintained in operational condition for the entire dredging operation.

(3) When initiating dredging, suction through the drag heads shall be allowed just long enough to prime the pumps, then the drag heads must be placed firmly on the bottom. When lifting the drag heads from the bottom, suction through the drag heads shall be allowed just long enough to clear the lines, and then must cease. Pumping water through the drag heads shall cease while maneuvering or during travel to/from the disposal area. (Information Only Note: Optimal suction pipe densities and velocities occur when the deflector is operated properly. If the required dredging section includes compacted fine sands or stiff clays, a properly configured arrangement of teeth may enhance dredge efficiency which reduces total dredging hours and "turtle takes." The operation of a drag head with teeth must be monitored for each dredged section to insure that excessive material is not forced into the suction line. When excess high-density material enters the suction line, suction velocities drop to extremely low levels causing conditions for plugging of the suction pipe. Dredge operators should configure and operate their equipment to eliminate all low level suction velocities. Pipe plugging in the past was easily corrected, when low suction velocities occurred, by raising the drag head off the bottom until the suction velocities increased to an appropriate level. Pipe plugging cannot be corrected by raising the drag head off the bottom. Arrangements of teeth and/or the reconfiguration of teeth should be made during the dredging process to optimize the suction velocities.)

(4) Raising the drag head off the bottom to increase suction velocities is not acceptable. The primary adjustment for providing additional mixing water to the suction line should be through water ports. To insure that suction velocities do not drop below appropriate levels, the Contractor's personnel shall

monitor production meters throughout the job and adjust primarily the number and opening sizes of water ports. Water port openings on top of the drag head or on raised stand pipes above the drag head shall be screened before they are utilized on the dredging project. If a dredge section includes sandy shoals on one end of a tract line and mud sediments on the other end of the tract line, the Contractor shall adjust the equipment to eliminate drag head pick-ups to clear the suction line.

(5) Near the completion of each payment section, the Contractor shall perform sufficient surveys to accurately depict those portions of the acceptance section requiring cleanup. The Contractor shall keep the drag head buried a minimum of 6 inches in the sediment at all times. Although the over depth prism is not the required dredging prism, the Contractor shall achieve the required prism by removing the material from the allowable over depth prism.

(6) During turning operations the pumps must either be shut off or reduced in speed to the point where no suction velocity or vacuum exists.

(7) These operational procedures are intended to stress the importance of balancing the suction pipe densities and velocities in order to keep from taking sea turtles. The Contractor shall develop a written operational plan to minimize turtle takes and submit it as part of the Environmental Protection Plan.

(8) The Contractor must comply with all requirements of this specification and the Contractor's accepted Environmental Protection Plan. The contents of this specification and the Contractor's Environmental Protection Plan shall be shared with all applicable crew members of the hopper dredge.

3.1.5.7 Recording Charts for Hopper Dredge(s)

All hopper dredge(s) shall be equipped with recording devices for each drag head that capture real time, drag head elevation, slurry density, and at least two of the following: Pump(s) slurry velocity measured at the output side, pump(s) vacuum, and/or pump(s) RPM. The Contractor shall record continuous real time positioning of the dredge, by plot or electronic means, during the entire dredging cycle including dredging area and disposal area. Dredge location accuracy shall meet the requirements of the latest version of COE EM 1110-1-1003. A copy of the EM can be downloaded from the following web site:

<http://www.usace.army.mil/inet/usace-docs/eng-manuals/em.htm>. The recording system shall be capable of capturing data at variable intervals but with a frequency of not less than every 60 seconds. All data shall be time correlated to a 24 hour clock and the recording system shall include a method of daily evaluation of the data collected. Data shall be furnished to the Contracting Officer for each day's operation on a daily basis. A written plan of the method the Contractor intends to use in order to satisfy these requirements shall be included with the Contractor's Quality Control Plan.

3.1.5.8 Sea Turtle Risk Assessment (For Hopper Dredges Only)

a. Sea Turtle Trawling and Relocation: A sea turtle risk assessment survey shall be conducted following the take of three sea turtles and continue until directed by the Contracting Officer. The results of each trawl shall be recorded on Sea Turtle Trawling Report on the web site indicated in paragraph CONSTRUCTION FORMS AND DETAILS below. A final report shall be prepared and submitted to the Contracting Officer prior to re-commencement of dredging summarizing the results of the survey (with all forms and including total trawling times, number of trawls and number of captures). Any turtles captured during the survey shall be measured and tagged in accordance with standard biological sampling procedures with sampling data recorded on Sea Turtle Tagging and Relocation Report on the web site indicated in paragraph CONSTRUCTION FORMS AND DETAILS below. Any captured sea turtles shall be relocated south of the work area at least 3 miles from the location recorded on the Sea Turtle Tagging and Relocation Report form.

b. Sea Turtle Trawling Procedures: An approved sea turtle trawling and relocation supervisor shall provide researchers and nets to capture and relocate sea turtles, shall conduct Sea Turtle Risk Assessment Survey, and shall conduct any initiated sea turtle trawling. Turtles shall be captured with trawl nets to determine their relative abundance in the channel during dredging. Methods and equipment shall be standardized including data sheets, nets, trawling direction to tide, length of station, length of tow, and number of tows per station. Data on each tow shall be recorded using Sea Turtle Trawling Report on the web site indicated in paragraph CONSTRUCTION FORMS AND DETAILS below. The trawler shall be equipped with two 60-foot nets constructed from 8-inch mesh (stretch) fitted with mud rollers and flats as specified in Turtle Trawl Nets Specifications appended to the end of this Section. Paired net tows shall be made for 10 to 12 hours per day or night. Trawling shall be conducted with the tidal flow using repetitive 15-30 minute (total time) tows in the channel. Tows shall be made in the center, green and red sides of the channel such that the total width of the channel bottom is sampled. Positions at the beginning and end of each tow shall be determined from GPS Positioning equipment. Tow speed shall be recorded at the approximate midpoint of each tow. Refer to COE EM 1110-1-1003, paragraph 5.3 and Table 5-1, for acceptable GPS criteria.

c. Water Quality and Physical Measurements: Water temperature measurements shall be taken at the water surface each day using a laboratory thermometer. Weather conditions shall be recorded from visual observations and instruments on the trawler. Weather conditions, air temperature, wind velocity and direction, sea state-wave height, and precipitation shall be recorded on the Sea Turtle Trawling Report on the web site indicated in paragraph CONSTRUCTION FORMS AND DETAILS below. High and low tides shall be recorded.

d. Initiation of Trawling: Initiate trawling if three turtles are taken. The Contractor must initiate trawling and relocation activity

in the dredging area within 8 hours of the occurrence of the take. Trawling shall continue until suspended by the Contracting Officer.

e. Approved Trawling Supervisor: Trawling shall be conducted under the supervision of a biologist approved by the NMFS. A letter of approval from NMFS shall be provided to the Contracting Officer prior to commencement of trawling.

f. Turtle Excluder Devices: Approval for trawling for sea turtles without Turtle Excluder Devices (TEDs) must be obtained from NMFS. Approval for capture and relocation of sea turtles must be obtained from the Florida Fish and Wildlife Conservation Commission (FF&WCC). Approvals must be submitted to the Contracting Officer prior to trawling.

g. Report Submission: Following completion of the project, a copy of the Contractor's log regarding sea turtles shall be forwarded to the Chief, Environmental Branch and the Area Engineer, Area Office within 10 working days.

3.1.1.5.9 Sea Turtle Beach Nest Monitoring

Clearwater Marine Aquarium will conduct the sea turtle beach nest monitoring and relocating activities. The Contractor shall be responsible for maintaining contact with the Clearwater Marine Aquarium turtle monitor on a daily basis. Aquarium POC is Dale Schmidt @ 888-239-9414.

~~a. Sea Turtle (Work Stoppage) Window and Monitoring: If dredging and placement of material in the beach fill area along Florida Beaches has commenced on or before March 1st, turtle monitoring and nest location shall commence on March 1st and continue concurrently with the performance of work. If dredging and placement of material on Florida Beaches has not commenced prior to March 1st, the Contractor shall commence turtle monitoring and nest location activities for a period of 65 days prior to performing any work (including movement of equipment) in the beach fill area or commence turtle monitoring March 1st whichever date is later. In such case, after turtle monitoring and nest location activities have been performed for a period of 65 days, the Contractor shall commence work in the beach fill area and continue the monitoring activities concurrently with performance of the work. In any case turtle monitoring and nest location/relocation activities are required through November 30th or until completion of the work on Florida Beaches, whichever is earlier.~~

~~b. Daily Visual Inspection: Turtle monitoring activities shall include performance of daily visual inspections of the beach at sunrise by a person permitted by the FF&WCC for handling sea turtle eggs. Any nests discovered shall be excavated and relocated prior to 9:00 a.m. to a nearby self-release beach location where artificial lighting and/or other disturbances shall not interfere with successful incubation, hatching nor hatchling orientation. A log of the results of turtle egg monitoring and recovery activities shall be kept and a copy submitted weekly to the Chief, Environmental Branch, Jacksonville District (sample Marine Turtle Nesting Summary Report form is on the web site~~

~~indicated in paragraph CONSTRUCTION FORMS AND DETAILS below).~~

~~c. Turtle Subcontractor: The Contractor shall have a FF&WCC permitted subcontractor approved by the Contracting Officer to accomplish the sea turtle monitoring of this section unless he demonstrates to the satisfaction of the Contracting Officer the capability to accomplish sea turtle monitoring and recovery by obtaining a permit from the FF&WCC to take turtles.~~

~~d. Report Submission: Following completion of the project, a copy of the Contractor's log regarding sea turtles shall be forwarded to the Chief, Environmental Branch and the Area Engineer, Area Office.~~

3.1.5.10 Beach Placement Restrictions

a. Equipment Lighting During Sea Turtle Nesting Period May 1 to November 30: Direct lighting of the beach and near shore waters shall be limited to the immediate construction area and shall comply with safety requirements. Lighting on offshore or onshore equipment shall be minimized through reduction, shielding, lowering, and appropriate placement to avoid excessive illumination of the waters surface and nesting beach while meeting all Coast Guard, COE EM 385-1-1, and OSHA requirements. Light intensity of lighting plants should be reduced to the minimum standard required by OSHA for General Construction areas, in order not to misdirect sea turtles. Shields should be affixed to the light housing and be large enough to block light from all lamps from being transmitted outside the construction area. Refer to Beach Lighting Schematic on the web site indicated in paragraph CONSTRUCTION FORMS AND DETAILS below.

b. Pipeline Placement: Any construction pipes placed parallel to the shoreline shall be placed as far landward as possible up to the vegetated dune line.

c. Beach Tilling: Till the fill area between the landward edge and the seaward edge of the top of the berm with equipment operated so as to penetrate and loosen beach sand (a) to a depth of 36 inches and (b) laterally without leaving unloosened compact sand between the adjacent paths of tines or penetrating part of the equipment. (Suitable equipment is Caterpillar D9L/No. 9 Adjustable Parallelogram Multishank Ripper, or equal.) The Contractor shall be careful not to drag the beach where rock structures have been covered with less than 3 feet of sand.

3.1.5.11 Protection of Migratory Bird Species

The Contractor shall keep construction activities under surveillance, management, and control to prevent impacts to migratory birds and their nests. All construction personnel shall be advised that migratory birds are protected by the Florida Endangered and Threatened Species Act of 1977, Title XXVIII, Chapter 372.072, and the U.S. Fish and Wildlife Service pursuant to the Migratory Bird Treaty Act of 1918 and the Endangered and Threatened Species Act of 1982, as amended. The Contractor may be held responsible for harming or harassing the birds, their eggs or their nests

as a result of the construction.

a. Monitoring of Construction Area: In order to meet these responsibilities, the Contractor shall conduct monitoring of the construction area beginning 1 April through 31 August, if construction activities occur during that period. Daily monitoring using the Daily Bird Monitoring Report shall be conducted during the dawn or dusk time frames by a bird monitor approved by the Contracting Officer. (Caution shall be taken by the monitor to avoid disturbance to the nesting birds.) The Contractor shall maintain a daily log detailing monitoring and nesting activity (not all bird species are listed). Sample monitoring report and qualification sheet are on the web site indicated in paragraph CONSTRUCTION FORMS AND DETAILS below. Within 30 days after completion of construction, a summary of monitoring shall be submitted to the Corps detailing nesting and nesting success/failure including species, number of nests created, location, number of eggs, number of offspring generated during the project and reasons for nesting success or failure, if known.

b. Presence/Absence Survey: At least 3 visits must be made to each site during April-July. A 6-minute point count (variable circular plot) should be conducted between sunrise and 3 hours after or 1 hour prior to sunset. If breeding birds are encountered, nests shall be located and observed without disturbance to the nesting activity. Nests shall be marked and visited every 3-5 days to determine fate.

c. Nesting Activity Notification: Any nesting activity observed by the Contractor shall be reported immediately to the Contracting Officer who shall have sole authority for any work stoppages, creation of the buffer area, or restart of construction activities. In addition, notify the personnel indicated in the table "Order of Contact of Corps Personnel" above.

d. Nesting Within Construction Area:

(1) Should nesting begin within the construction area, a temporary, 200-foot buffer shall be created around the nests and marked to avoid entry (the Contracting Officer will provide signs). The area shall be left undisturbed until nesting is completed or terminated, and the chicks fledge. The decision to allow construction in a former nesting site will be determined by the Contracting Officer in consultation with the U.S. Fish and Wildlife Service and the FF&WCC. Access to the nesting sites by humans (except limited access when accompanied by the bird monitor or Contracting Officer), equipment or pets under control of the Contractor is prohibited.

(2) If nesting occurs within the construction area, a bulletin board shall be placed and maintained by the Contractor in the contracting shed with the location map of the construction site showing the bird nesting areas and a warning, clearly visible, stating that "BIRD NESTING AREAS ARE PROTECTED BY THE FLORIDA THREATENED AND ENDANGERED SPECIES ACT AND THE FEDERAL MIGRATORY BIRD TREATY ACT".

(3) Birds will find the top of the dike or the flat interior desirable nesting habitat. If construction activity ceases for any period of time, nesting may occur before work can resume. Any stoppage of activity could induce nesting, subsequently, construction could be altered or stopped to avoid impacting the birds. Areas which are potentially suitable for nesting can be altered to make the area undesirable. One approved method is the placement of stakes at 10- to 15-foot intervals and tie flagging between the stakes in a web fashion. This may dissuade bird nesting until construction can be resumed. In addition, the disposal area basin can be flooded prior to the beginning of nesting season to the elevation required for displacement from the disposal of dredged material in order to make the basin undesirable for bird nesting.

e. Bird Monitoring Qualifications: The Contractor's Environmental Protection Plan shall contain the qualifications of the bird monitor and the steps to be taken to construct the project in such a manner as not to impact migratory birds or induce their nesting. The qualifications of the bird monitor are a demonstrated ability to identify bird species, general and nesting behavior characteristics, nests and eggs, and a knowledge of habitat requirements. In addition, references must be provided to verify non-educational experience.

f. Work Delay: Delays in work due to the fault of negligence of the Contractor or the Contractor's failure to comply with this specification shall not be compensable. Any adjustments to the contract performance period or price that are required as a result of compliance with this section shall be made in accordance with the Clause SUSPENSION OF WORK of Section 00700 CONTRACT CLAUSES.

~~3.1.5.12 Hardground/Reef Protection~~

~~Existing hardground/reef areas within the Contractor's work area will be so designated on the contract drawings and precaution will be taken to preserve these resources as they existed prior to construction. The Contractor shall install all protection for these resources so designated on the drawings and shall be responsible for their preservation during this contract. Pipelines will be placed only in approved areas and anchoring will be permitted in sandy areas only. Pipeline will be monitored for leaks. Any leaks that develop shall be repaired immediately, especially over hardgrounds/reefs, and the pumpout operations shall be shutdown until repairs are completed. Refer to Section 02325 DREDGING AND BEACH FILL.~~

3.1.6 Seagrass Protection Measures

a. The Contractor shall instruct all personnel associated with the project of the presence of seagrasses, especially the Federally-listed threatened Johnson's Seagrass (*Halophlia johnsonii*), and the need to avoid contact with seagrasses.

b. All construction personnel shall be advised that there are civil and criminal penalties for harming or destroying seagrasses, especially

Johnson's Seagrass which is protected under the Endangered Species Act of 1973, as amended. The Contractor may be held responsible for any seagrasses harmed or destroyed due to construction activities.

c. The Contractor shall not anchor, place pipeline, or stage equipment in a manner that will cause any damage to seagrasses or hardbottoms. Anchoring, placing pipeline, or staging equipment shall avoid these sensitive areas. If such activities cannot be done without affecting these sensitive areas, the activities shall cease and the Contracting Officer and Chief, Environmental Branch (904-232-1010) shall be immediately notified (no later than the morning following the next working day if the incident occurs after normal working hours). Any actual or potential incident involving damage to, or disturbance of, seagrasses or hardbottoms shall be reported.

3.1.7 Protection of Air Resources

The Contractor shall keep construction activities under surveillance, management, and control to minimize pollution of air resources. All activities, equipment, processes and work operated or performed by the Contractor in accomplishing the specified construction shall be in strict accordance with the applicable air pollution standards of the State of Florida (Florida Statute, Chapter 403 and others and Chapters 200 series of the FAC) and all Federal emission and performance laws and standards, including the U.S. Environmental Protection Agency's Ambient Air Quality Standards. Information regarding Florida Statutes can be obtained from the following web sites:

<http://www.dep.state.fl.us/ogc/documents/statutes/text/403.doc>;

<http://www.dep.state.fl.us/ogc/documents/rules/aiur/62-213.doc>; and,

<http://www.dep.state.fl.us/ogc/documents/rules/mainrule.htm>.

3.1.7.1 Particulates

Particulates, such as dust, shall be controlled at all times, including weekends, holidays, and hours when work is not in progress. The Contractor shall maintain excavations, stockpiles, haul roads, permanent and temporary access roads, plant sites, spoil areas, borrow areas, and work areas within or outside the project boundaries free from particulates that would cause air pollution standards to be exceeded or that would cause a hazard or nuisance. The Contractor shall have the necessary equipment and approved methods to control particulates as the work proceeds and before a problem develops.

3.1.7.2 Burning

All burning shall be subject to State and local requirements, including requirements for burn permits and bans during certain conditions such as droughts.

3.1.7.3 Odors

Odors shall be controlled at all times for all construction activities.

3.1.8 Protection of Sound Intrusions

The Contractor shall keep construction activities under surveillance and control to minimize damage to the environment by noise.

3.2 POSTCONSTRUCTION CLEANUP

The Contractor shall clean up any area(s) used for construction.

3.3 PRESERVATION AND RESTORATION OF LANDSCAPE AND MARINE VEGETATION DAMAGES

The Contractor shall restore all landscape features and marine vegetation damaged or destroyed during construction operations outside the limits of the approved work areas. Such restoration shall be a part of the Environmental Protection Plan as defined in subparagraph "Environmental Protection Plan" of paragraph SUBMITTALS above. This work shall be accomplished at the Contractor's expense.

3.4 MAINTENANCE OF POLLUTION CONTROL FACILITIES

The Contractor shall maintain all constructed facilities and pollution control facilities and devices for the duration of the contract or for that length of time construction activities create the particular pollutant.

3.5 CONSTRUCTION FORMS AND DETAILS

From the Jacksonville District Home Page, click the links ORGANIZATIONS, ENGINEERING, then CONSTRUCTION FORMS AND DETAILS. See web site address www.saj.usace.army.mil/cadd/end/construction_forms_and_details.htm.

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SECTION 01500

TEMPORARY CONSTRUCTION FACILITIES

PART 1 GENERAL

1.1 SUMMARY

In addition to Construction Facilities this Section covers:

- Temporary Utilities
- Construction Aids
- Vehicular Access and Parking
- Project Identification

See Section 01355 ENVIRONMENTAL PROTECTION for requirements including silt control, trailer placement, fueling restrictions, dust control, solid waste, and clean-up. Upon completion of project, clean-up and restore area in accordance with Clause CLEANING UP of Section 00700 CONTRACT CLAUSES.

a. Construction Facilities include, but are not limited to, the following:

- (1) Contractor Offices
- (2) Information Bulletin Board
- (3) Material and Equipment Storage Area
- (4) Fueling Area
- (5) Secured Storage Area
- (6) Employee Parking Area
- (7) Construction Signage to include Project Sign; Safety Sign; and, Construction Warning Signs

b. Temporary Utilities include, but are not limited to, the following:

- (1) Water
- (2) Electric
- (3) Sewage
- (4) Communications
- (5) Lighting

1.2 REFERENCES

The publications listed below form a part of this specification to extent referenced. The publications are referred to in text by basic designation only.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI C2 (1997) National Electrical Safety Code

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 70 (1999) National Electrical Code

U.S. ARMY CORPS OF ENGINEERS (USACE)

COE CESAJR 385-1-1 (1998) Safety and Occupational Health
Program

COE EM 385-1-1 (2003) U.S. Army Corps of Engineers Safety
and Health Requirements Manual

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. Within 10 days following date of receipt of Notice to Proceed and prior to mobilization to site submit following in accordance with Section 01330
SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Mobilization/Demobilization Plan

Plan shall include, but not be limited to, the following:

a. Mobilization Requirements:

- (1) Methods, equipment and materials
- (2) Connection of utilities
- (3) Placement of site facilities and temporary controls
- (4) Construction of facilities

b. Demobilization Requirements (methods, equipment and materials required to clean-up and restore site at project conclusion):

- (1) Collection, recycle and disposal of solid waste
- (2) Contract-generated material
- (3) Utility disconnection
- (4) Removal of Contractor facilities
- (5) Repair and restoration of site (i.e., fences, roads, or permanent facilities)

Security Plan

Prepare a Security Plan for Contracting Officer describing site security as follows:

- a. Day and night security
- b. Weekend and holiday security
- c. General security duties

Manufacturer's Literature for Equipped Boat, Trailer, and Hand-Held Radios

Within 10 calendar days after date of Notice of Award, the Contractor shall submit manufacturer's literature of all items to be furnished for exclusive use of Government personnel.

SD-02 Shop Drawings

Contractor's Temporary Facilities

General layout sketch of temporary site facilities shall include, but not be limited to, the following:

- a. Trailer locations
- b. Parking areas
- c. Material storage
- d. Equipment lay down area
- e. Fuel areas
- f. Supplemental or other staging area
- g. Temporary well, water supply
- h. Septic field or holding tanks, port-a-lets
- i. Contaminated water handling
- j. Concrete cleaning area and methods of disposal
- k. Fences -- location and dimensions, entrance and exit points, and details of installation

Temporary Electric Drawings

Electricity supply and lighting - from transformer source sketch layout locations, fixtures, and materials, to include outdoor lighting as described in subparagraph "Electric Power" below.

SD-07 Certificates

Boat Operator's License

Within 10 calendar days after date of receipt of Notice to Proceed, the Contractor shall furnish proof of the operator's license.

1.4 EXISTING UTILITIES

Nearest electric line is within nearby road right of way. Contractor is responsible to coordinate with local utilities to furnish all required utilities. There is no potable water, sanitary sewer, or natural gas available at the site. Contractor is responsible for furnishing at the project site.

1.4.1 Water

In addition to the above, the Contractor shall provide and maintain at his own expense an adequate supply of water for his use for construction, and to install and maintain necessary supply connections and piping for same, but only at such locations and in such manner as may be approved by the Contracting Officer. The Contractor shall also provide and maintain his own temporary toilet and washing facilities. Toilet and washing facilities shall be installed and maintained in a location approved by the Contracting Officer. Refer to paragraph AVAILABILITY AND USE OF UTILITY SERVICES below.

1.4.2 Electricity

In addition to the above, all electric current required by the Contractor shall be furnished at his own expense. All temporary lines will be furnished, installed, connected, and maintained by the Contractor in a workmanlike manner satisfactory to the Contracting Officer and shall be removed by the Contractor in like manner at his expense prior to completion of the construction. Refer to paragraph AVAILABILITY AND USE OF UTILITY SERVICES below.

~~1.5 TEMPORARY SERVICES~~

~~Furnish following services for Contracting Officer's Field Office:~~

- ~~a. Janitorial service~~
- ~~b. Lawn service~~
- ~~c. Waste removal~~
- ~~d. Office Services -- Photo-static copy machine~~

1.5 QUALITY CONTROL SYSTEM (QCS)

Contractor shall use Government furnished Quality Control System (QCS) software for construction information management (CIM). Refer to Section 01312 QUALITY CONTROL SYSTEM (QCS).

1.6 BRIDGE-TO-BRIDGE COMMUNICATION

In order that radio communication may be made with passing vessels, all dredges/marine equipment engaged in work under this contract shall be equipped with bridge-to-bridge radio telephone equipment. The radio equipment shall operate on a single channel very high frequency (VHF), FM, on a frequency of 156.55 MC per second with low power output having a communication range of approximately ten miles. The frequency has been approved by the Federal Communications Commission. Channels #13 and #16 must be monitored at all times.

PART 2 PRODUCTS

2.1 CONSTRUCTION PROJECT SIGNS

Refer to paragraph BULLETIN BOARD, PROJECT SIGN, AND PROJECT SAFETY SIGN below and the web site indicated in paragraph CONSTRUCTION FORMS AND DETAILS below.

2.1.1 Haul Road Traffic and Construction Warning Signs

1/2 inch HDO plywood, or aluminum sheet, conforming to FDOT Section 700 Uniform Traffic Manual Standard Signs, non-standard signage high visibility orange with black lettering. Orange fabric mesh acceptable for temporary survey crew use.

2.2 STORAGE CONTAINERS

Welded steel construction, locking, shipping containers or equal.

PART 3 EXECUTION

3.1 GENERAL REQUIREMENTS

3.1.1 Identification of Employees

Contractor and subcontractor personnel shall wear identifying markings on hard hats clearly identifying the company for whom the employee works.

3.1.2 Employee Parking

a. Park employee's vehicles in areas designated by Contractor, away from construction traffic, within reasonable walking distance of site. Maintain area free of ruts, mud holes and puddles. Place gravel where required by deteriorated conditions.

b. Contractor should protect unattended equipment as it may be subject to vandalism.

c. Storage trailers and storage area with Government material should be locking type with lighting.

3.1.3 Onsite Information

Keep copy of contract drawings, specifications, and other contract documents at Contractor's Office onsite, available for use at all times.

~~3.1.4 Janitorial Services~~

- ~~a. Daily -- Sweep; empty wastebaskets; service toilets~~
- ~~b. Weekly -- Mop floors; sanitize toilet seats~~
- ~~c. Monthly -- Wash floors, windows (inside and out)~~
- ~~d. Cut grass as needed to keep below 3 inches high~~

3.2 AVAILABILITY AND USE OF UTILITY SERVICES

Install temporary facilities and utilities in accordance with ANSI C2, COE CESAJR 385-1-1, COE EM 385-1-1, NFPA 70. Obtain necessary construction, building, zoning, or soil erosion and sediment control approvals required by local authorities and utility companies. Equip trailer(s) with wind tie downs in accordance with local wind and building code requirements.

3.2.1 Lighting

Electric light, non-glare type luminaries to provide a minimum illumination, level of 30-foot candles at desk height level. Comply with temporary lighting, wiring and Ground Fault Circuit Interrupter (GFCI) requirements found in COE EM 385-1-1.

3.2.2 Heating and Cooling

Adequate equipment to maintain internal ambient air temperature of 75 degrees F in 105 degrees F and 70 degrees F in 30 degrees F. Equip trailer(s) with smoke alarms. If bottled gas is used to heat, equip trailer(s) with carbon monoxide alarms.

3.2.3 Water

Non-potable well water may be used to flush toilets, dish and hand washing. Provide bulk potable water storage tanks or provide bottled water for drinking.

3.2.4 Fire Extinguisher

Refer to COE EM 385-1-1. Non-toxic, dry chemical, fire extinguisher meeting Underwriters Laboratories, Inc., approval for Class A, Class B, and Class C fires with a minimum rating of 2A; 10B; and 10C.

3.2.5 Utility Lines

Install, connect and modify temporary lines as coordinated with owning utility. Conform requirements in accordance with ANSI C2 and NFPA 70 for Temporary Electric Lines. Remove temporary line at completion of project.

3.2.6 Electric Power

Provide electrical service and transformers sufficient to operate heating/air conditioning units. Electrical power shall be purchased directly by Contractor.

3.3 BULLETIN BOARD, PROJECT SIGN, AND PROJECT SAFETY SIGN

3.3.1 Bulletin Board

Immediately upon beginning of work, the Contractor shall provide a weatherproof glass-covered bulletin board not less than 36 by 48 inches in size for displaying the Equal Employment Opportunity poster, a copy of the wage decision contained in the contract, Wage Rate Information poster, and other information approved by the Contracting Officer. The bulletin board shall be located at the project site in a conspicuous place easily accessible to all employees, as approved by the Contracting Officer. Legible copies of the aforementioned data shall be displayed until work is completed. Upon completion of work the bulletin board shall be removed by and remain the property of the Contractor.

3.3.2 Project and Safety Signs

The requirements for the signs, their content, and location shall be as indicated on the web site indicated in paragraph CONSTRUCTION FORMS AND DETAILS below. The signs shall be erected within 10 days after receipt of the Notice to Proceed. The data required by the safety sign shall be corrected daily, with light colored metallic or non-metallic numerals. A Safety Scoreboard sign shall be used on board the dredge. Upon completion of the project, the signs shall be removed from the site.

3.4 PROTECTION AND MAINTENANCE OF ACCESS

During construction the Contractor shall restrict access to the beach and water as needed to insure public safety. Measures for the protection and diversion of vehicular and pedestrian traffic, including the provision of watchmen and flagmen, erection of barricades, placing of lights around and in front of equipment and the work, and the erection and maintenance of adequate warning, danger, and direction signs, shall be as required by the State and local authorities having jurisdiction. The traveling public shall be protected from damage to person and property. The Contractor's traffic on roads selected for hauling material to and from the site shall interfere as little as possible with public traffic. The Contractor shall investigate the adequacy of existing roads and the allowable load limit on these roads. The Contractor shall be responsible for the repair of any damage to roads caused by construction operations.

3.4.1 Barricades

The Contractor shall erect and maintain temporary barricades to limit public access to hazardous areas. Such barricades shall be required whenever safe public access is prevented by construction activities or as otherwise necessary to ensure the safety of both pedestrian and vehicular traffic. Barricades shall be securely placed, clearly visible with adequate illumination to provide sufficient visual warning of the hazard during both day and night.

3.5 CONTRACTOR'S TEMPORARY FACILITIES

3.5.1 Contractor Field Office

Contractor has the option to provide an on-site temporary office at the disposal site or lease office space at a building near the site or at a marina where crew boats are docked. Provide field office of sufficient size and staff capability to manage project activities. Provide Contracting Officer approximately 60-100 square feet of space for QA Representative use. Provide desk, chair and locking filing cabinet. Provide communications and computer capabilities to manage the work, including implementing QCS (refer to Section 01312 QUALITY CONTROL SYSTEM (QCS)), facsimile, electronic mail, reproduction, to schedule and cost tracking. Contractor's field office should include a conference area with table and chairs to accommodate a minimum of 8 people. When a trailer is used, provide handicap access with a 1 on 12 ramp and gravel parking spot marked with handicap parking sign.

3.5.2 Disposal Site Facility

If Contractor does not use office trailer facility within a short walking distance to work site, provide crew shelter in the form of a "dump shack" consisting of a converted small shipping container, or shed with drinking water, generator, heat and HVAC. Provide toilet and hand washing facilities.

3.5.3 Appearance of Trailer(s)

Trailer(s), used for both office and material storage purposes, shall be clean, neat exterior appearance and in good repair. Trailer(s) requiring exterior painting or maintenance will not be allowed on site until determined satisfactory by Contracting Officer.

3.5.4 Waste Storage

Provide dumpsters or suitable debris containers. Prevent wind blown trash; cover as needed. Dispose of offsite when needed. Refer to Section 01355 ENVIRONMENTAL PROTECTION.

3.5.5 Fuel Storage and Fueling Operations

Refer to Section 01355 ENVIRONMENTAL PROTECTION. Provide light when fueling at night.

3.6 SECURITY PLAN

Provide site security person at all times when there are no on-site activities. Maintain 24-hour security during weekends and holidays. Site security shall include, but not be limited, to:

- a. Limit vehicular access to authorized vehicles and personnel only.
- b. Limit public access to travel along access road only. Access road shall be kept closed at all times except for passage of authorized personnel and vehicles.
- c. Maintain a list of authorized personnel and subcontractors available at site offices.
- d. Maintain a sign-in log documenting visitors, deliveries, and security incidents. Include date, name, address, company, time in and time out for each employee and visitor.
- e. Check fenced areas, equipment, trailers on a daily basis. If damage is observed or vandalism is found report to Contracting Officer.

3.6.1 Visitors

No visitors will be allowed on site without knowledge of Contractor and permission of Contracting Officer. Direct visitors to report upon arrival to Contractor's Field Office for site safety and accident prevention briefing. Provide visitors appropriate protective equipment (i.e., ear plugs, safety glasses, etc.).

3.11 CONTRACTOR-FURNISHED BOAT TRANSPORTATION AND MARINE RADIOS FOR
GOVERNMENT PERSONNEL

3.7 General

The Contractor shall furnish a crew boat for Government personnel when requested. The boat shall be properly outfitted to meet all safety requirements of the Corps of Engineers and U.S. Coast Guard. The Contractor shall also provide an operator who possesses an appropriate U.S. Coast Guard operators license for carrying passengers on board. The Contractor shall furnish proof of the operators license within 10 calendar days after receipt of Notice to Proceed. Should the boat become inoperable, the Contractor shall furnish a suitable boat meeting the aforementioned requirements for as long as necessary until the inoperable boat is either fixed or replaced. Should the Contractor fail to furnish the required transportation for any one day, the Contractor will be charged for the cost of alternate transportation, including operator, and the cost deducted from any amounts due the Contractor in accordance with the paragraph INSPECTION of Section 02325 DREDGING AND BEACH FILL.

3.8 Submittal

Within 10 calendar days after award and before issuance of Notice to Proceed, the Contractor shall submit manufacturer's literature of all items to be furnished for the exclusive use of Government personnel under this clause.

3.9 Delivery Schedule

The hand-held radios shall be delivered to the Area Office within 20 calendar days after receipt of Notice to Proceed. No work will be allowed to proceed under this contract until all Contractor-furnished equipment under this clause has been furnished.

3.10 License and Insurance

The Contractor shall be responsible for boat license, insurance, and inspections required by the State of Florida.

3.11 Maintenance

The Contractor shall furnish all fuel, oil, and all parts, materials, and supplies required for the operation and maintenance of the boat. The Contractor shall perform all routine maintenance on the boat at frequencies not to exceed the manufacturer's recommended maintenance schedule. The Contractor shall schedule and provide the labor required to maintain the boat and shall have the boat washed and cleaned once a week. The motors are expected to be run a minimum of 50 hours per month.

3.12 Final Disposition

The boat and hand-held radios furnished under this contract will remain the property of the Contractor and, upon completion of the contract, will be

returned to the Contractor.

3.13 ACCOMMODATIONS AND MEALS FOR INSPECTORS

If the Contractor maintains on this work an establishment for the subsistence of the Contractor's own employees, the Contractor shall, when required, furnish to inspectors employed on the work, and to all Government agents who may visit the work on official business, meals of a quality satisfactory to the Contracting Officer. The meals furnished will be paid for by the Government employees at a rate of \$1.75 per person for each meal.

3.14 PLANT COMMUNICATION

Whenever the Contractor has the individual elements of its plant so located that operation by normal voice between these elements is not satisfactory, the Contractor shall install a satisfactory means of communication, such as telephone or other suitable devices. The devices shall be made available for use by Government personnel.

3.15 CLEANUP

Construction debris, waste materials, packaging material and the like shall be removed from the work site daily. Any dirt or mud which is tracked onto paved or surfaced roadways shall be cleaned away. Materials resulting from demolition activities which are salvageable shall be stored within the fenced area described above or at the supplemental storage area. Stored material not in trailers, whether new or salvaged, shall be neatly stacked when stored. Refer to Section 01355 ENVIRONMENTAL PROTECTION for solid waste and post construction clean-up.

3.16 RESTORATION OF STORAGE AREA

Upon completion of the project and after removal of trailers, materials, and equipment from within the fenced area, the fence shall be removed and will become the property of the Contractor. Areas used by the Contractor for the storage of equipment or material, or other use, shall be restored to the original or better condition. Gravel used to traverse grassed areas shall be removed and the area restored to its original condition, including top soil and seeding as necessary.

3.17 CONSTRUCTION FORMS AND DETAILS

From the Jacksonville District Home Page, click the links ORGANIZATIONS, ENGINEERING, then CONSTRUCTION FORMS AND DETAILS. See web site address www.saj.usace.army.mil/cadd/end/construction_forms_and_details.htm.

-- End of Section --

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SECTION 02325

DREDGING AND BEACH FILL

PART 1 GENERAL

1.1 SCOPE

The work covered by this section consists of furnishing all labor, materials, and equipment, and performing all excavation and placing beach fill on the beach as specified herein or indicated on the drawings. This scope also includes all necessary measures for protection of the environment. Environmental protection requirements under this contract are as important to overall completion of the work as other technical aspects. Failure to meet the requirements of these specifications for environmental protection may result in work stoppages or termination for default. No part of the time lost due to any such work stoppages shall be made the subject of claims for extensions of time or for excess costs or damages by the Contractor. If the Contractor fails or refuses to promptly repair any damage caused by violation of the provisions of these specifications, the Contracting Officer may have the necessary work performed and charge the cost thereof to the Contractor.

1.2 REFERENCES

The publication listed below forms a part of this specification to the extent referenced. The publication is referred to in the text by basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM E 329	(2003) Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction
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1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Notice of Intent to Dredge

Prior to commencement of work on this contract, the Contractor shall notify the Commander, Seventh Coast Guard District of his intended operations to dredge and request that it be published in

the Local Notice to Mariners. This notification must be given in sufficient time so that it appears in the Notice to Mariners at least two weeks prior to the commencement of this dredging operation. A copy of the notification shall be provided to the Contracting Officer.

Relocation of Navigation Aids

The Contractor shall not remove, change the location of, obstruct, willfully damage, make fast to, or interfere with any aid to navigation. Within 7 calendar days following receipt of Notice of Award, the Contractor shall notify the Commander, Seventh Coast Guard District, Miami, Florida, of his plan to dredge adjacent to any aids which require relocation to facilitate dredging. The notification shall be sent via Fax to 305-415-6757, ATTN: Mr. Joe Embres. This notification shall be immediately followed by a formal written request with a copy to the Contracting Officer. The Contractor shall also contact the U.S. Coast Guard for information concerning the position to which the aids will be relocated.

Work Plan; G|COR

Prior to commencement of work, the Contractor shall submit to the COR, for approval, a Work Plan to cover dredging operations and placement of the containment boom. Plan shall include pipeline routes from the borrow area to the beach.

Construction and Grade Stakes Recovery Plan; G|COR

After the Notice to Proceed, the Contractor shall submit a Construction and Grade Stakes Recovery Plan. The Plan will outline the steps that the Contractor will implement to recover all the stakes used on the project. This Plan will include the use of an inventory log that will be made available for review by the appropriate Government personnel. A sample Plan is on the web site indicated in paragraph CONSTRUCTION FORMS AND DETAILS below.

Beach Sampling

Prior to placing sand on the beach, the Contractor shall take three (3) beach sample profile lines each on Long Key and on Treasure Island. These samples with the test results shall form the background data for each respective project beach. Results shall be turned in with the Contractor's Daily Quality Control Report.

Certified Testing Laboratory

A certified testing laboratory shall test the beach samples taken for this project prior to and during construction. A certified testing laboratory refers to a Geotechnical testing laboratory qualified under ASTM E 329 standards and certified by AASHTO (American Association of State Highway and Transportation

Officials) National Voluntary Accreditation Program; or MMRL (AASHTO Materials Reference Laboratory accreditation; and personnel qualified by NICET (National Institute for Certification of Engineering Technicians).

SD-03 Product Data

Beach Sampling During Construction

During beach filling operations, beach samples of newly constructed beach material shall be obtained for each 2,000 cubic yards of placement. The sampling pattern shall be similar to the pre-construction beach sampling program but the location of the sample will alternate. Laboratory testing will be the same as for the background data. Results will be turned in with the Contractor's Daily Quality Control Report.

SD-07 Certificates

Grade Stake Recovery; G|COR

After completion of the project, the Contractor shall provide a letter to the Contracting Officer certifying that all grade stakes have been recovered in accordance with the Contractor's approved Construction and Grade Stake Recovery Plan.

Equipment and Performance Data

The Contractor shall furnish proof of electronic positioning equipment calibration to the Contracting Officer.

Notification of Discovery of Historical Period Shipwreck Sites

The Contractor shall immediately notify the Contracting Officer if any shipwreck, artifact, or other objects of antiquity that have scientific or historical value, or are of interest to the public, are discovered, located, and/or recovered.

Daily/Monthly Report of Operations

The Contractor shall prepare and submit two (2) copies of the Daily Report of Operations, using ENG Form No. 4267, for each dredge and/or unloader working. This report shall be submitted on a daily basis and not in groups (groups = multi-days reports packaged together at one time). A copy of this form is on the web site indicated in paragraph CONSTRUCTION FORMS AND DETAILS below. In addition to the daily report, the Contractor shall prepare a Monthly Report of Operations for each month or partial month's work on ENG Form No. 4267. The monthly report shall be submitted on or before the 7th of each month, consolidating the previous month's work. Upon completion of the job, the Contractor shall submit a consolidated job report, combining the monthly reports. The Contractor shall distribute one copy of each report to the District Engineer; ATTN: CESAJ-EN-C; U.S. Army Engineer District,

Jacksonville, P.O. Box 4970; Jacksonville, Florida 32232-0019.
Reports shall be submitted on a monthly basis with daily reports
accompanying the monthly report and job report.

Additionally, one copy of the form(s) shall be maintained by the
Contractor on the dredge(s) for the Contracting Officer's
inspection purpose. Further instructions on the preparation of
the reports will be furnished at the Preconstruction Conference.

Notice of Misplaced Material

The Contractor shall notify the U.S. Coast Guard Marine Safety
Office of any misplaced material as stated in the Clause
OBSTRUCTION OF NAVIGABLE WATERWAYS of Section 00700 CONTRACT
CLAUSES.

Declaration of Inspection Stateside

Refer to paragraph FUEL OIL TRANSFER OPERATIONS below for
submittal.

1.4 ORDER OF WORK

Beach filling of the Upham Beach segment on Long Key will be the first
order of work. Beach filling to the required grade and section shall
proceed continuously without intervening gaps.

1.5 PUMPING OF BILGES

Contractors are warned that pumping oil or bilge water containing oil into
navigable waters, or into areas which would permit the oil to flow into
such waters, is prohibited by Section 13 of the River and Harbor Act of
1899, approved 3 March 1899 (30 Stat. 1152; 33 U.S.C. 407). Violation of
this prohibition is subject to the penalties under the referenced Acts.

1.6 HISTORICAL PERIOD SHIPWRECK SITES

If any shipwreck, artifact, or other objects of antiquity that have
scientific or historical value, or are of interest to the public, are
discovered, located, and/or recovered, the Contractor acknowledges that:

a. The site(s), articles, or other materials are the property of the
State of Florida, with title vested in the Department of State,
Division of Historical Resource; and that,

b. He will immediately notify the Contracting Officer.

1.7 PERMITS

The Contractor's attention is directed to the Clause PERMITS AND
RESPONSIBILITIES of Section 00700 CONTRACT CLAUSES and the paragraph
PERMITS AND AUTHORIZATIONS of Section 01355 ENVIRONMENTAL PROTECTION.

1.8 FUEL OIL TRANSFER OPERATIONS

In accordance with U.S. Coast Guard regulations (33 CFR 156.120), couplings used in fuel oil transfer operations on any vessel with a capacity of 250 or more barrels of oil shall be either a bolted or full-threaded connection; or a quick-connect coupling approved by the Commandant; or an automatic back-pressure shutoff nozzle used to fuel the vessel. An executed fuel oil transfer (Declaration) form signed by the tanker operator shall be submitted to the Contracting Officer for each refueling operation.

The U.S. Coast Guard shall also be notified prior to any refueling. A copy of the Declaration of Inspection for Refueling is on the web site indicated in the paragraph CONSTRUCTION FORMS AND DETAILS below.

1.9 SIGNAL LIGHTS

The Contractor shall display signal lights and conduct operations in accordance with the General Regulations of the Department of the Army and of the Coast Guard governing lights and day signals to be displayed by towing vessels with tows on which no signals can be displayed, vessels working on wrecks, dredges, and vessels engaged in laying cables or pipe or in submarine or bank protection operations, lights to be displayed on dredge pipe lines, and day signals to be displayed by vessels of more than 65 feet in length moored or anchored in a fairway or channel, and the passing by other vessels of floating plant working in navigable channels, as set forth in Commandant U.S. Coast Guard Instruction M16672.2, Navigation Rules: International-Inland (COMDTINST M16672.2), or 33 CFR 81 Appendix A (International) and 33 CFR 84 through 33 CFR 89 (Inland) as applicable.

1.10 NOTICE TO MARINERS -- DREDGING CONTRACTS

Should the Contractor, during operations, encounter any objects on the channel bottom which could be a hazard to navigation, the Contractor shall immediately notify the Contracting Officer as to the location of said object and shall provide any other pertinent information necessary for the Contracting Officer to prepare and issue a Notice to Mariners.

1.11 FINAL CLEANUP

Final cleanup, as stated in the paragraph COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK of Section 00700 CONTRACT CLAUSES, shall include the removal of all the Contractor's plant and equipment either for disposal or reuse. Plant and/or equipment and/or materials to be disposed of shall ONLY be disposed in a manner and at locations approved by the Contracting Officer. Unless otherwise approved by the Contracting Officer, the Contractor will not be permitted to abandon any equipment in the disposal area or other areas adjacent to the worksite.

- a. Failure to promptly remove all plant, pipeline, equipment, and materials upon completion of the dredging will be considered a delay in the completion of the final cleanup and demobilization work. In such case, the Government will exercise its right as stated in Clause DEFAULT (FIXED-PRICE CONSTRUCTION) of Section 00700 CONTRACT CLAUSES to remove any plant and/or equipment and/or materials at the Contractor's

expense.

1.12 WORK VIOLATIONS

Work done in violation of these specifications or a verbal or written stop order of the Contracting Officer will be considered as unsatisfactory progress for purposes of progress payments in accordance with Clause PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS of Section 00700 CONTRACT CLAUSES.

PART 2 PRODUCTS (NOT APPLICABLE)

PART 3 EXECUTION

3.1 NOTIFICATION OF COAST GUARD

3.1.1 Navigation Aids

Navigation aids located within or near the areas required to be dredged will be removed, if necessary, by the U.S. Coast Guard in advance of dredging operations. The Contractor shall not remove, change the location of, obstruct, willfully damage, make fast to, or interfere with any aid of navigation.

3.1.2 Dredging Aids

The Contractor shall obtain approval from the U.S. Coast Guard for all buoys, dredging aid markers to be placed in the water, and dredging aid markers affixed with a light prior to the installation. Dredging aid markers and lights shall not be colored or placed in a manner that they will obstruct or be confused with navigation aids.

3.2 WORK AREA

3.2.1 Construction Easement and Dredging Area Limits

The construction easements and dredging area limits available to the Contractor for accomplishing the work are shown in the drawings.

The Contractor will be permitted to exclude the public from the work areas in the immediate vicinity of his dredging, transporting, and disposal operations. All beach filling shall be confined to the Contractor's work area. The Contractor shall prevent public access to the discharge end of the pipeline. The Contractor shall erect, maintain, and move as necessary, a restrictive barrier around the discharge of the hydraulic pipeline. The barrier shall be constructed so as to prevent the public from approaching the discharge from any direction closer than 40 feet. The Contractor shall post signs in a conspicuous location with the wording "DANGER - HIGH PRESSURE DISCHARGE FROM DREDGE". Enforcement shall be the Contractor's responsibility at no additional cost to the Government. The enforcement shall be coordinated with local enforcement agencies and will be subject to approval of the Contracting Officer. Additionally, the Contractor shall place a safety person at the discharge end of the disposal pipeline. The safety person shall be present at all times during discharge operations and

will maintain radio communication between the dredge and the disposal operation.

3.2.2 Access and Staging Areas

Construction access and a staging area are provided as shown on the drawings. Procurement of additional access routes for ingress and egress to the construction area shall be obtained by and at the expense of the Contractor. The Contractor shall control wind-blown sand and dust while using the access and staging area shown on the drawings. The Contractor is responsible for preparation of the access and staging area shown on the drawings. Disposal of any cleared vegetation, debris and rubbish shall be in a manner acceptable to the COR.

3.2.3 Protection of Existing Waterways

The Contractor shall conduct his operations in such a manner that material or other debris are not pushed outside of dredging limits or otherwise deposited in existing side channels, basins, docking areas, or other areas being utilized by vessels. The Contractor will be required to change his method of operations as may be required to comply with the above requirements. Should any bottom material or other debris be pushed into areas described above, as a result of the Contractor's operations, the same must be promptly removed by and at the expense of the Contractor to the satisfaction of the Contracting Officer.

3.2.4 Adjacent Property and Structures

Any damage to private or public property or structures resulting from the disposal or dredging operations shall be repaired promptly by the Contractor at his expense. Any damage to structures as a result of Contractor's negligence will result in suspension of dredging and require prompt repair at the Contractor's expense as a prerequisite to the resumption of dredging.

3.2.5 Vegetation Surrounding Beach Fill Area

The Contractor shall not damage the vegetation existing around the beach fill area. Booster pumps, pipeline and equipment shall not be placed or operated on vegetated areas.

3.2.6 Beach Access

The Contractor shall provide and maintain pedestrian access across the pipeline to the beach at 200-foot intervals. At the Contractor's option, these accesses shall be provided by either constructing an earthen ramp over the pipeline or by burying the pipeline.

3.3 EXCAVATION

3.3.1 General

All excavation for beach fill shall be performed within the limits and depths of the borrow area shown on the drawings. Existing conditions of

the borrow area are represented on the hydrographic survey and core boring logs in Section 00320 GEOTECHNICAL DATA. Excavation shall be performed in a uniform and continuous manner so as to avoid creating multiple holes, valleys, or ridges within channels to be dredged. Stockpiling of dredged material on the beach with final truck hauling to final site shall not be allowed.

3.3.2 Contamination Containment

The Contractor shall be aware that there is a potential for oil contamination of the sand in the areas being dredged. Due to the potential for exposure of contaminated deposits, a single containment boom shall be placed around the dredge's operational area and at the discharge site at the beach, as a precaution. The containment boom for the dredge shall be configured for the type of dredge utilized to control/contain any contaminants at the borrow area. In addition, a second oil-absorbent containment boom and oil-absorbing material shall be available ~~on site if needed~~ at the borrow area and at the discharge sites. Should contaminants be found, see Section 01355 ENVIRONMENTAL PROTECTION. ~~If the sand being placed on the beach shows signs of oil contamination, the Contractor shall notify the COR and stop dredging immediately.~~

3.3.3 Turbidity

Excavation and filling operations shall be done in a manner that will minimize turbidity of the water at the excavation site and at the discharge from the fill area. If monitoring shows turbidity exceeds the background at the compliance stations by more than 0 NTU's, construction activities shall cease immediately and not resume until corrective measures have been taken and turbidity has returned to acceptable levels.

3.3.4 Dredge Location Control

The Contractor is required to have electronic positioning equipment that will locate the dredge when operating on the project. The Contractor is required to calibrate the equipment as required by the manufacturer or as required by the Contracting Officer. Proof of calibration shall be submitted to the Contracting Officer. Continuous locations of the dredge shall be made at all times during dredging operations. The location is to be by computed coordinates with a probable range error not to exceed 10 feet and furnished daily as part of the dredge reports, along with a real-time drawing of the track of the dredge in relation to the borrow area. The tracking data shall include tide-corrected dredging depth information. The original shall be dated and signed by the Quality Control Manager and submitted with one copy to the on-site Government Representative on the day following recording. The Contractor's method of location of the dredge shall be submitted for review. LORAN-C shall not be permitted for location control. The Contractor is also required to have a depth of dredging indicator for the cutterhead accurate to within one foot.

The instrument used shall indicate the depth of dredging at all times and draghead depth when the dredge is outside the borrow area limits within 1-foot accuracy. The paper or depth record produced by this instrument shall be submitted daily with the daily dredge report. Flagging or marking the winch cables are not an acceptable option to fulfill this instrument

requirement. The indicators shall be in plain view of drag tenders, quality control and Government inspectors.

3.3.5 Submerged and Floating Pipeline

3.3.5.1 Submerged Pipeline

In the event the Contractor elects to submerge his pipeline, the pipeline shall rest on the bottom, and the top of the submerged pipeline and any anchor securing the submerged pipeline shall be no higher than the project depth for any navigation channel in which the submerged pipeline is placed.

Should the Contractor elect to use a pipeline material which is buoyant or semi-buoyant, such as PVC pipe or similar low density materials, the Contractor shall securely anchor the pipeline to prevent the pipeline from lifting off the bottom under any conditions. The Contractor shall make daily underwater inspections of the submerged pipeline to ensure buoyancy has not loosened the anchors. The Contractor shall remove all anchors when the submerged pipeline is removed. The location of the entire length of submerged pipeline shall be marked with signs, buoys, lights, and flags conforming to U.S. Coast Guard regulations.

3.3.5.2 Floating Pipeline

Should the Contractor's pipeline not rest on the bottom, it will be considered a floating pipeline and shall be visible on the surface and clearly marked. In no case will the Contractor's pipeline be allowed to fluctuate between the surface and the bottom, or lie partly submerged. Lights shall be installed on the floating pipeline as required in paragraph SIGNAL LIGHTS above. The lights shall be supported either by buoys or by temporary piling, provided by the Contractor and approved by the Contracting Officer. Where the pipeline does not cross a navigable channel, the flashing yellow all-around lights shall be spaced not over 200 feet apart, unless closer spacing is required by U.S. Coast Guard personnel, in which case the requirements of the U.S. Coast Guard shall govern, at no additional cost to the Government.

3.3.6 Deduction for Nonconforming Work

Beach fill that is obtained from unauthorized areas will not be paid for under this contract. Excavation in such area(s) is a violation of State of Florida Permits for this work. If it is determined that dredging has been performed outside the borrow area(s) or below the limiting elevation within the borrow area(s), the quantity of the material dredged from these areas will be computed and subtracted directly from the pay quantity of material placed on the beach.

3.4 TRANSPORT OF EXCAVATED MATERIALS

The method of transporting the fill from the borrow area(s) to the fill area shall be approved by the Contracting Officer.

3.4.1 Pipeline Dredge

A pipeline dredge or hydraulic unloader may be used to transport material

to the project site. Offshore dumping or rehandling of dredged material shall not be allowed. The Contractor shall maintain a tight discharge pipeline at all times. The joints shall be so constructed as to preclude spillage and leakage. The development of a leak shall be promptly repaired and the dredge shall be shut down until repairs are completed. Failure to repair leaks or change the method of operations, which is resulting in the spillage that exceeds turbidity and water quality standards, will result in suspension of dredging operations. ~~If a dredging technique is used for this project that requires anchoring, no anchoring shall be allowed outside of the approved work areas.~~ If pilings are used for anchorage at the beach fill site, the pilings shall be well marked and removed in their entirety upon completion of the Contractor's operation.

3.4.2 Work Area

The Contractor shall inventory all anchors, buoys, and buoy cables deployed in the prosecution of the work in a manner acceptable to the Contracting Officer. The Contractor shall use this information to account for and recover these items at the completion of the project.

3.5 BEACH FILL

3.5.1 General

All beach fill sand excavated from the borrow area shall be transported to and deposited on the beach within the lines, grades, and cross section shown on the drawings except as may be modified by the provisions of subparagraph b. of subparagraph "Construction" below. Except as specified in subparagraph "Dressing for Payment" below, the Contractor shall maintain and protect the fill in a satisfactory condition at all times until acceptance of the work. Any fill sand which is lost in transit or permitted to flow into the offshore waters or onto the upland from the point the sand is discharged on the beach will not be subject to payment. The fill shall be free of clay lenses, rock or silt pockets. Any such material remaining in the fill shall be removed and disposed of by the Contractor as approved by the Contracting Officer. Any existing signs, buoys or other structures within the work lines shall be protected and/or removed and later replaced by the Contractor as directed. The Contractor shall provide sand ramp walkways across the beach pipeline at intervals not greater than 300 feet to correspond to the locations of existing public beach access walkways.

3.5.2 Construction

a. Prior to placement of fill, the Contractor shall remove from the site of the work all snags, driftwood and similar debris lying within the foundation limits of the beach fill section. All materials removed shall be disposed of in areas provided by and at the expense of the Contractor and approved by the Contracting Officer. Any groins to remain in place within the fill area shall be adequately ramped over by the Contractor to prevent damage thereto by the Contractor's equipment.

Grading and other construction equipment will not be permitted outside the easement lines shown on the drawings except for designated ingress and egress to and from the site. Mobile equipment of any type

operating within 50 feet of any seawall, building, groins, or other structure as determined by the Contracting Officer shall be rubber wheeled. Tracked equipment shall not be permitted to operate within 50 feet of any seawall, building, groin, or other structure as determined by the Contracting Officer. Hand tools may be required in these areas.

b. The excavated material shall be placed and brought to rest on the beach to the lines, grades, and cross section indicated on the drawings, unless otherwise provided for herein or directed by the Contracting Officer. The Contractor shall not stockpile pipe or any other equipment or debris on private property which is east (landward) of the Erosion Control Line or east of the Mean high waterline as shown on the drawings. Pipe shall be placed parallel to shore and landward as far as possible without compromising the dune system. The beach is subject to changes and the elevations on the beach at the time the work is done may vary from the elevations shown on the drawings. The Contracting Officer reserves the right to vary the width and grade of the berm from the lines and grades shown on the plans in order to establish a uniform beach for the entire length of the project. The beach fill cross sections shown on the drawings are for the purpose of estimating the theoretical amount of fill needed and will be used by the Contracting Officer in making any change in the lines and grades. The Contractor will not be required to dress the fill below the mean high water to the slopes shown but will be required to do the dressing specified in subparagraph "Dressing for Payment" below.

c. Construction staking on the beach shall be made of steel pipe or other material that can and will be removed intact after filling as verified during final walk-through inspection. The Contractor shall inventory all the construction staking used on the project in a manner acceptable to the Contracting Officer.

d. The Contractor shall maintain a tight discharge pipeline for the pumpout operations at all times. The joints shall be so constructed as to preclude spillage and leakage. The development of a leak shall be promptly repaired or the pumpout operations shall be shut down until complete repair has been made to the satisfaction of the Contracting Officer. The Contractor shall be required to maintain barricades, warning signals, and flagmen to insure public safety in the vicinity of the pipe discharge. Any damages to private or public property resulting from the Contractor's operations shall be repaired by the Contractor at his expense.

e. Grade stakes and any other stakes for any purpose shall be made of steel pipe that can and will be removed intact after filling to cross sections accepted by or as directed by the Contracting Officer. All stakes shall have sufficient length above grade so they may not be accidentally covered by fill. The Contractor shall consecutively number each piece of pipe used for grade stakes, shall clearly mark that number upon the pipe, and shall record the location of each numbered pipe in a grade stake log. The removal of each numbered pipe shall be recorded in the grade stake log at the time of the pipe/stake removal. At the request of the Contracting Officer, all of the grade stake pipes shall be displayed after their removal to demonstrate those

pipes that have been removed. All pipes used for grade stakes placed within the limits of the beach fill work shall be numbered and shall be recorded in the log. It is the Contractor's responsibility to track, locate, and completely remove all grade stakes in their entirety to the satisfaction of the Contracting Officer.

f. Temporary longitudinal dikes and spreader and pocket pipe shall be used to prevent gullyng and erosion of the beach and fill and to retain the fill on the beach and within the limits of the fill cross section. As the work progresses, dikes or mounds shall be constructed along the beach as necessary to direct the pipeline discharge longitudinally along the beach to avoid transverse gullyng directly from the discharge point to the ocean, and to build the new berm to design grade. Longitudinal dikes shall initially be 500 feet long in advance of filling operations. They may need to be lengthened to meet water quality standards. Shorter lengths may be subsequently used if approved by the Contracting Officer but not less than 300 feet. More than one series of longitudinal dikes may be required to meet water quality standards, to build to the required lines and grades, and to keep material within the toe-of-fill. The Contractor will not be held responsible for erosion caused by waves after the beach fill has been satisfactorily placed. No undrained pockets shall be left in any fill during or upon completion of the work. The Contractor shall not permit wastewater to flow landward of the fill section or water to pond between the fill and upland. Groins, bulkheads, revetments, piers, and other structures within the fill section shall be protected by the Contractor to prevent damage thereof by the Contractor's operations. Any damages assessed as a result of any of the above items shall be at the Contractor's expense.

g. Mechanical operations may be needed to place material to the required lines and grades. Stockpiling, additional longitudinal dikes, and/or other special handling may be needed. It is the Contractor's responsibility to place material to the specified lines and grades within the fill crossed section.

h. Any material that is rehandled or moved and placed in its final position by methods other than hydraulic shall be placed in horizontal layers not exceeding three (3) feet in thickness. Compaction of the layers will not be required. The Contractor shall schedule his operations to take advantage of the tide so that filling is done in the dry or as directed.

3.5.3 Dressing for Payment

Immediately following placement of the new beach fill the Contractor shall grade, level and dress the beach fill to meet the required elevations and dimensions indicated on the drawings. The dressing for payment shall include the removal of humps, depressions, undrained pockets, excavated material at locations of swales for drainage culverts, and vehicle access ramps, etc., prior to final pay survey being taken of an area of Acceptance Section.

3.5.4 Dressing for Final Acceptance

Immediately upon the completion of beach fill placement and removal of equipment and materials from the beach fill area, the final dressing shall be accomplished by the Contractor for final acceptance. This final dressing is a requirement as part of the post-construction cleanup and prior to the sand compaction measurements required by Section 01355 ENVIRONMENTAL PROTECTION of the contract. The bank caused by wave forces shall be graded down to slope not steeper than 1 vertical to 10 horizontal. Grade stakes shall be removed intact and any excavation required to remove the stakes shall be backfilled.

3.5.5 Tolerances

Final grade (F.G.) shall be within tolerances of plus or minus five-tenths (0.5) of a foot of beach fill grade line. (Refer to Beach Fill Tolerance figure on the web site indicated in paragraph 3.10, CONSTRUCTION FORMS AND DETAILS below.) Tolerance shall extend entire berm and slope to intersection of slope and pre-construction surveyed condition. Contractor may stockpile beach fill above the 0.5 foot tolerance up-slope of the slough zone, to compensate for material expected to be removed by wave action; but smooth slopes shall be maintained. Berm width will vary as directed by the Contracting Officer. Slope shaping shall be accomplished by grading fill into water or as directed by the Contracting Officer.

3.5.6 Misplaced Materials

If any material is deposited other than in places designated or approved, the Contractor may be required to remove such misplaced material and redeposit it where directed at his expense.

3.6 NOISE CONTROL

3.6.1 Hauling and Excavating Equipment Other Than Dredges and Booster Pumps

All hauling and excavating equipment, other than dredges and booster pumps, used on this work shall be equipped with satisfactory mufflers or other noise abatement devices. The Contractor shall conduct his operations so as to comply with all Federal, State, and local laws pertaining to noise.

a. Sound pressure measurements shall be made with a sound level meter and shall be reported to the Contracting Officer under provisions for the Contractor Quality Control.

b. Sound pressure measurements shall be made at distances of 50 feet, 100 feet, 300 feet, and 500 feet from each major piece of equipment such as draglines, dump trucks, dewatering pumps, pneumatic drills, bulldozers, etc., at locations approved by the Contracting Officer. The measurements shall be made by personnel qualified to make such measurements and whose credentials have been verified by the Contracting Officer. The measurements shall be taken during operations every 4 weeks. Temperature, atmospheric pressure, and general weather conditions shall also be recorded with the measurements.

3.6.2 Dredges, Bulk Carriers, and Booster Pumps

Dredges and booster pumps used on this work shall be equipped with satisfactory mufflers or other sound abatement devices to reduce engine noise. The Contractor shall conduct his operations so as to comply with all Federal, State, and local laws pertaining to noise. The use of horns, the use of whistle signals, and handling of dredge pipelines shall be held to the minimum necessary in order to insure as quiet an operation as possible. Sound pressure measurements shall be made by the Contractor at 50-foot, 100-foot, 200-foot, and 300-foot distances from the (1) dredge, (2) booster pumps, if any, and (3) dredge pipeline at locations approved by the Contracting Officer. The measurements shall be made by personnel qualified to make such measurements and whose credentials have been verified by the Contracting Officer. These measurements shall be taken during pumping operations every 4 weeks. The sound pressure measurements and type of material being dredged at the time measurements are taken shall be reported to the Contracting Officer. Sound pressure measurements shall be made twice at the direction of the Contracting Officer during the first 4 weeks of use of whistle signals and drill barges in operation at 50-foot, 100-foot, 200-foot, and 300-foot distances. Temperature, atmospheric pressure and general weather conditions shall also be recorded with the measurements. The sound pressure measurements shall be reported to the Contracting Officer under provisions for the Contractor Quality Control.

3.7 QUALITY CONTROL

The Contractor shall establish and maintain quality control for operations under this section to assure compliance with contract requirements and maintain records of his quality control for materials, equipment, and construction operations, including but not limited to the following:

3.7.1 Preparatory Inspection

(To be conducted prior to commencing work.)

- a. Check location of borrow area and conditions of beach areas to be filled.
- b. Discuss plan of action for dredging, transporting, and placing fill on beach.
- c. See that all equipment is approved and is in satisfactory working condition.
- d. Check safety requirements and, particularly, public safety.
- e. Check the beach site for structures that could be susceptible to damage or which could have further damage caused by the Contractor's activity.

3.7.2 Initial Inspections

(To be conducted after a representative sample of the work is complete.)

- a. Check for proper lines, grades, and elevations.
- b. See that diking and fill discharge is satisfactory.
- c. Check grades and slopes of fill placement.
- d. Check finished area for proper dressing and elimination of undrained pockets and abrupt humps.
- e. Check any adjacent structures to search for damage by Contractor's equipment.

3.7.3 Follow-up Inspection

(To be conducted daily to assure compliance with results of initial inspection.)

- a. Check items mentioned in preparatory and initial inspection.
- b. Damage or defects.

A copy of these records, as well as results of corrective action taken, shall be furnished the Government as directed by the Contracting Officer.

3.7.4 Quality Control for Beach Placement of Sand

The permits for this project require only beach quality sand be placed on the beaches of Florida. The minimum quality beach sand is defined by the Department of Environmental Protection "Rules and Procedures for Application for Coastal Construction Permits" Chapter 62B-41.007(2) j and k, known as the "Sand Rule" at ~~www.dep.state.fl.us~~ <http://www.dep.state.fl.us/beaches/publications/pdf/62b-41.pdf>.

The Contractor shall perform sampling that includes no less sample collection than described in the following plan. The Contractor shall conduct all testing in a location accessible to government inspectors. The Contractor shall include the sampling and testing procedure in the Contractor's Quality Control Plan for government review and acceptance within ten days of notification of acceptance of Bid. The Quality Control Plan shall include the name, address and point of contact for the Certified Testing Laboratory to be used for all laboratory testing. The location of the testing facility to be used for this contract shall also be included in the Quality Control Plan. Laboratory test results shall be turned in daily with the daily quality control reports. Each sample collected shall be approximately one half pound in weight and obtained from a single location. All laboratory test results shall be reported to the Government.

3.7.4.1 Pre-Construction Beach Sampling

To establish background conditions, it is necessary to sample the beach and test the samples prior to placing any sand. Three beach profile lines shall be sampled towards the north, middle and south end of the beach disposal area. Beach samples of approximately one half pound shall be obtained from

the middle of the Backbeach (berm), Foreshore (mid to high tide area) and elevation 0, project datum. If these features are not evident in the beach form, the Backbeach sample shall be taken landward or at the high tide line and the Foreshore sample shall be taken at the mid-tide area. Samples shall not be obtained from the surface of the beach, but obtained from six to twelve inches under the beach surface. All samples and laboratory test results shall be labeled with the Project name, DEP Monument Profile Line designation, the above descriptive sample location, date of obtaining the sample and entitled "Pre-Construction Sample". Any characteristics of the beach, such as scattered rocks, shell piles, other debris not represented in the sand samples shall be documented and photographed or sampled.

3.7.4.2 Beach Sampling During Construction

During beach filling operations, beach samples of the newly constructed beach shall be obtained representing each 2,000 cubic yards of sand placement. Sampling pattern shall be similar to that performed for "Pre-Construction Beach Sample", above, but the location on the newly constructed beach will alternate from Backbeach, to Foreshore, to Elevation 0, Backbeach, Foreshore, Elevation 0, repeating until the completion of fill. All samples and laboratory test results shall be labeled with the Project name, State Plane (X,Y) coordinate location, the above descriptive sample location, date of obtaining the sample and "Beach Disposal Sample". The sampling frequency can approximate the 2,000 cubic yard disposal volume as closely as is reasonable, to distribute the total number of samples evenly across the total fill operation.

3.7.4.3 Laboratory Testing and Reporting

All laboratory testing shall be performed by a Certified Testing Laboratory.

All samples shall be evaluated for visual percent shell and sieved using the three U.S. Standard Sieve sizes 3/4 inch, No.4 (4.76mm) and No.230 (0.063mm). The results shall be tabulated and each parameter averaged to keep a running total average. Each sample results shall state whether the sample MEETS or FAILED the DEP Sand Rule requirement. Each day's laboratory results, and the running average for each parameter shall be submitted with the daily Quality Control reports.

3.7.4.4 Unacceptable Material

As the beach construction progresses, should any beach sample FAIL the State's criteria for Beach Quality Sand, the Contracting Officer's Representative shall be notified at the first available normal business hours. Should three consecutive samples FAIL the State's criteria, dredge and beach filling operations shall be stopped and the COR immediately notified. The Contractor shall move to another location within the borrow area, as directed by the COR. Geotechnical Branch shall be notified immediately of the condition and location by the COR.

3.8 PROTECTION OF EXISTING STRUCTURES FROM CONSTRUCTION ACTIVITIES

Refer to Section 02290 VIBRATION MONITORING REQUIREMENTS FOR EXISTING

STRUCTURES.

3.9 INSPECTION

3.9.1 Quality Assurance Representative (QAR)

The QAR shall be notified prior to the establishment of horizontal control work (baseline layout, ranges, station flags, shore-based control for EPS/RPS, etc.) and vertical control work (tide staff(s), upland cross sections, construction elevations top/invert, maximum/minimum elevations of dredged materials within disposal area(s), etc.), but the presence or absence of the QAR shall not relieve the Contractor of his responsibility for proper execution of the work in accordance with the specifications. The Contractor will be required:

a. To furnish, on the request of the Contracting Officer or any QAR, the use of such boats, boatmen, laborers, and material forming a part of the ordinary and usual equipment and crew of the dredging plant as may be reasonably necessary in inspecting and supervising the work.

b. To furnish, on the request of the Contracting Officer or any QAR, suitable transportation from all points on shore designated by the Contracting Officer to and from the various pieces of plant, and to and from the beach placement.

3.9.2 Failure to Comply

In conjunction with the Clause INSPECTION OF CONSTRUCTION of Section 00700 CONTRACT CLAUSES, should the Contractor refuse, neglect, or delay compliance with these requirements, the specific facilities may be furnished and maintained by the Contracting Officer and the cost thereof will be deducted from any amounts due or to become due the Contractor.

3.10 CONSTRUCTION FORMS AND DETAILS

From the Jacksonville District Home Page, click the links ORGANIZATION, ENGINEERING, then CONSTRUCTION FORMS AND DETAILS. See web site address www.saj.usace.army.mil/cadd/end/construction_forms_and_details.htm.

-- End of Section --

A B C D E F G H

PROFILE LINE CONTROL MONUMENTS			
MONUMENT	PLANE COORDINATES		ELEV. NGVD 29
	X	Y	
LK BP 1	255,929.48	1,238,063.74	5.55
LK BP 1B	255,981.00	1,237,922.52	5.50
LK BP 1A	256,034.85	1,237,791.27	5.66
LK BP 2 RESET (1994)	256,151.95	1,237,577.47	5.79
LK BP 2A RESET (1994)	256,343.84	1,237,499.66	6.02
LK BP 3	256,749.99	1,237,459.19	8.76
LK BP 3A RESET (1994)	256,872.37	1,237,305.01	7.86
LK BP 3B RESET (1994)	256,974.56	1,237,175.60	5.85
LK BP 4 RESET (1994)	257,100.09	1,237,034.34	9.26
LK BP 4A RESET (1994)	257,258.48	1,236,834.62	7.58
LK BP 5	257,302.09	1,236,567.63	6.11
LK BP 5A	257,534.11	1,236,304.60	7.03
LK BP 6	257,913.44	1,236,230.39	7.42
LK BP 7 RESET (1994)	258,118.25	1,235,695.56	6.77
TH 36 RESET			32.19
TH 89			4.76

BEACH RIGHT-OF-WAY ACCESS			
POINT	PLANE COORDINATES		RANGE
	X	Y	
1	256,477.55	1,237,321.53	
2	256,647.00	1,237,568.00	
3	257,169.00	1,237,055.00	
4	257,240.88	1,237,163.68	
5	257,290.56	1,237,130.04	
6	257,186.00	1,237,979.00	
7	257,263.00	1,236,837.00	
8	257,301.27	1,236,565.55	

STATIONING LINE				
P.I.	PLANE COORDINATES		STATION	RANGE
	X	Y		
1	257,533.24	1,236,304.07	0+00.00	2000
2	257,301.27	1,236,565.55	3+49.55	2000
3	256,296.69	1,237,401.96	16+56.75	2000
4	256,125.25	1,237,566.58	18+94.43	2000
5	254,922.94	1,238,061.83	24+29.41	2000

GPS CONTROL TABULATION				
MONUMENT	NAD 27		NGVD 29 ELEV.	
	(X)	(Y)		
BL IND	255857.39	1242419.97	4.17	
LK-BP-1	255928.84	1238063.98	5.74	
LK-BP-1B	255981.00	1237922.52	5.70	
NOAA D	260320.30	1232762.76	5.72	
PI USCE 07-1 6-22-83	247519.17	1254618.23	7.77	
PI TREASURE	246593.98	1254613.40	6.14	
RAINEY	246888.46	1254352.82	30.89	
TURTLE 2 0	260304.37	1250004.82	8.90	
872 6538 A TIDAL	256028.42	1256431.38	5.56	
872 6486 TIDAL 2	271390.49	1237788.71	5.22	

PROFILE MONUMENT TABULATION					
MONUMENT	NAD 27		NGVD 29 ELEV.	AZIMUTH	
	(X)	(Y)			
R126	246897.14	1253989.71	5.49	55-00-00	
R126A	246841.28	1253605.33	4.94	55-00-00	
R126B	246922.06	1253419.46	7.76	55-00-00	
R126C	247030.70	1253230.01	7.47	55-00-00	
R126D	247005.26	1252986.73	6.84	55-00-00	
R127	247178.77	1252868.52	8.42	55-00-00	
R127A	247367.43	1252335.86	6.05	55-00-00	
R128	247822.47	1252009.67	7.60	45-00-00	
R128A	247986.60	1251600.30	5.91	55-00-00	
R128B	248289.66	1251282.70	6.24	55-00-00	
R129	248620.76	1251383.27	5.50	43-00-00	
R130	249536.93	1250760.20	5.85	35-00-00	
R131	250420.08	1249949.06	6.64	55-00-00	
R132	251058.37	1248970.60	5.72	55-00-00	
R133	251476.16	1247912.21	6.41	65-00-00	
R134	251864.06	1246940.13	6.07	65-00-00	
R135	252181.91	1245787.95	9.08	75-00-00	
R136	252436.70	1244906.17	7.98	65-00-00	
R137	252712.26	1243871.52	4.71	80-00-00	
R138	253151.62	1242885.93	6.09	70-00-00	
R138A	253251.34	1242381.03	5.66	70-00-00	
R139	253555.97	1241959.46	7.07	70-00-00	
R139A	253777.74	1241477.12	6.97	70-00-00	
R140	254017.60	1241039.72	5.68	60-00-00	
R141	254446.83	1240132.36	6.19	40-00-00	
R142	255034.37	1239199.49	5.61	55-00-00	
R143	255423.59	1238552.07	7.47	60-00-00	
R144	255928.84	1238063.98	5.74	30-00-00	
LKBP1	255928.84	1238063.98	5.74	60-30-00	
LKBP1B	255981.00	1237922.52	5.70	61-00-00	
LKBP1A	256034.85	1237791.27	5.85	66-00-00	
LKBP2	256151.95	1237577.47	5.98	52-00-00	
LKBP2A	256343.84	1237499.66	6.21	50-00-00	
R145	256680.08	1237545.65	7.33	30-00-00	
LKBP3	256749.99	1237459.19	8.95	47-00-00	
LKBP3A	256872.37	1237305.01	8.04	47-00-00	
LKBP3B	256974.56	1237175.60	6.05	46-00-00	
LKBP4	257100.09	1237034.36	9.43	46-00-00	
LKBP4A	257258.48	1236834.62	7.79	46-00-00	
R146	257321.16	1236671.18	6.24	30-00-00	
LKBP5	257302.09	1236567.63	6.29	46-00-00	
LKBP5A	257534.11	1236304.60	7.20	50-00-00	
LKBP6	257913.44	1236230.39	7.59	50-00-00	
R147	257960.42	1236210.08	7.36	50-00-00	
LKBP7	258116.82	1235695.56	6.93	50-00-00	
R148	258489.33	1235372.35	7.92	55-00-00	
R149	259016.47	1234411.75	8.04	52-00-00	
R150	259453.34	1233444.63	5.62	55-00-00	

EROSION CONTROL LINE			
E.C.L. POINT	PLANE COORDINATES		RANGE
	X	Y	
1	255,922.94	1,238,061.83	
2	256,125.25	1,237,566.58	
3	256,296.69	1,237,401.96	
4	256,316.04	1,237,430.54	
5	256,478.87	1,237,320.30	
6	257,301.27	1,237,565.55	
7	257,533.24	1,237,304.07	



SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
1	Ⓜ	3C	REVISED TO ACCOMPANY AMENDMENT NO. 0002

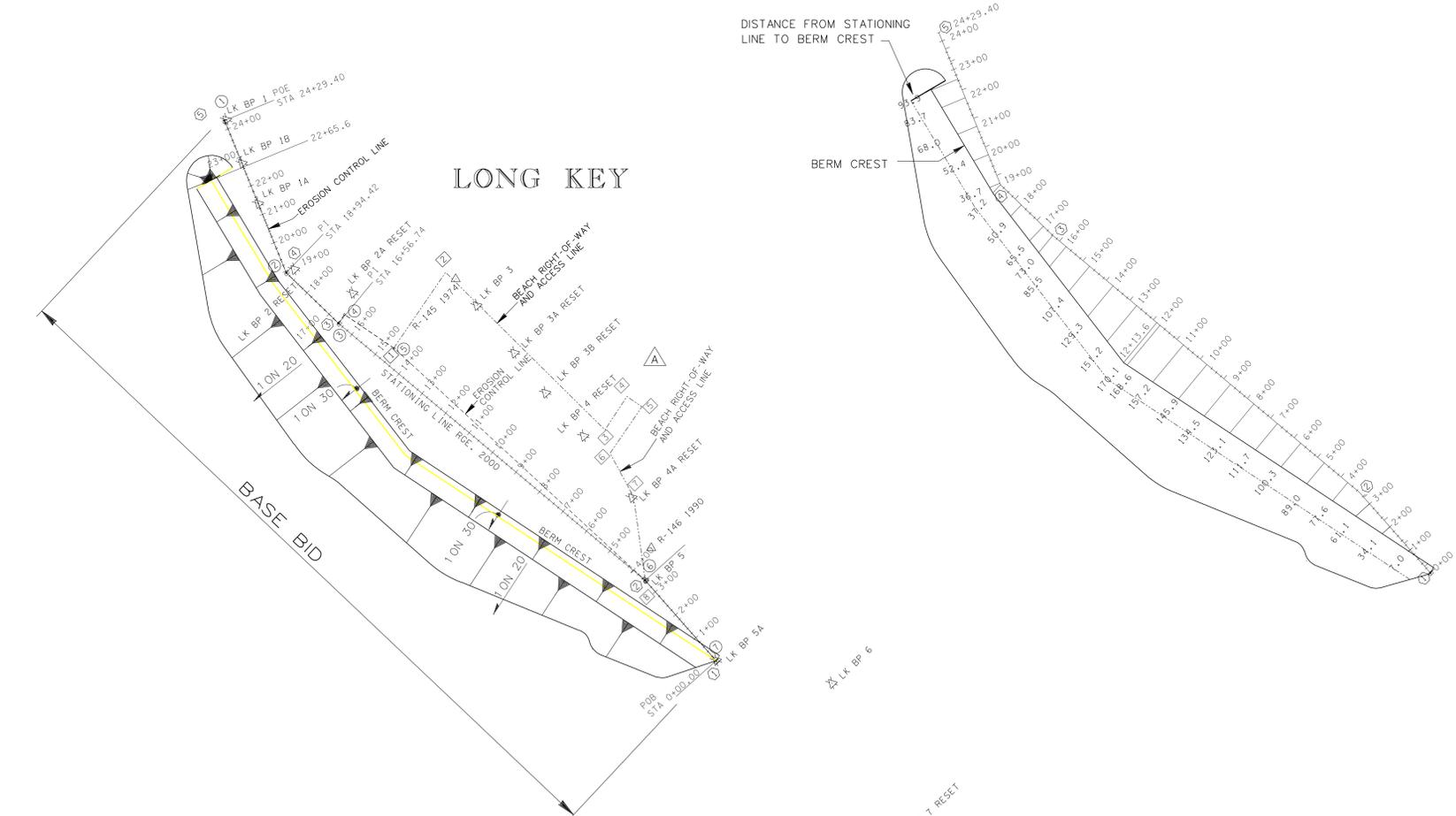
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

File name:	LK5T10102.DGN
Reference files:	LK5T10102.DGN
Drawn by:	FLH
Checked by:	AS SHOWN
Date:	NOV. 2002
Scale:	AS SHOWN
Plot date:	
Plot scale:	

D.O.F. FILE NO. 58-38,356

SHORE PROTECTION PROJECT
PINELLAS COUNTY, FLORIDA
LONG KEY AND TREASURE ISLAND
BEACH RENOURISHMENT 2004
GENERAL
CONTROL DATA - LONG KEY

DRAWING NO.
1/2



CONTROL DATA KEY POINTS
(DETAIL HAS COORDINATE INTEGRITY IN LK5T10101.DGN FILE)

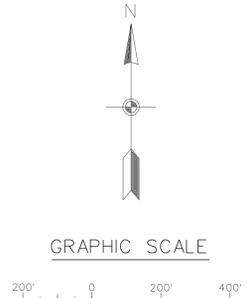
BERM CREST LAYOUT BY STATIONING

LEGEND:

- 1 RIGHT-OF-WAY CONTROL POINTS
- BEACH RIGHT-OF-WAY AND ACCESS LINE
- 2 STATIONING LINE EVENT POINTS
- 3 EROSION CONTROL LINE POINTS
- EROSION CONTROL LINE

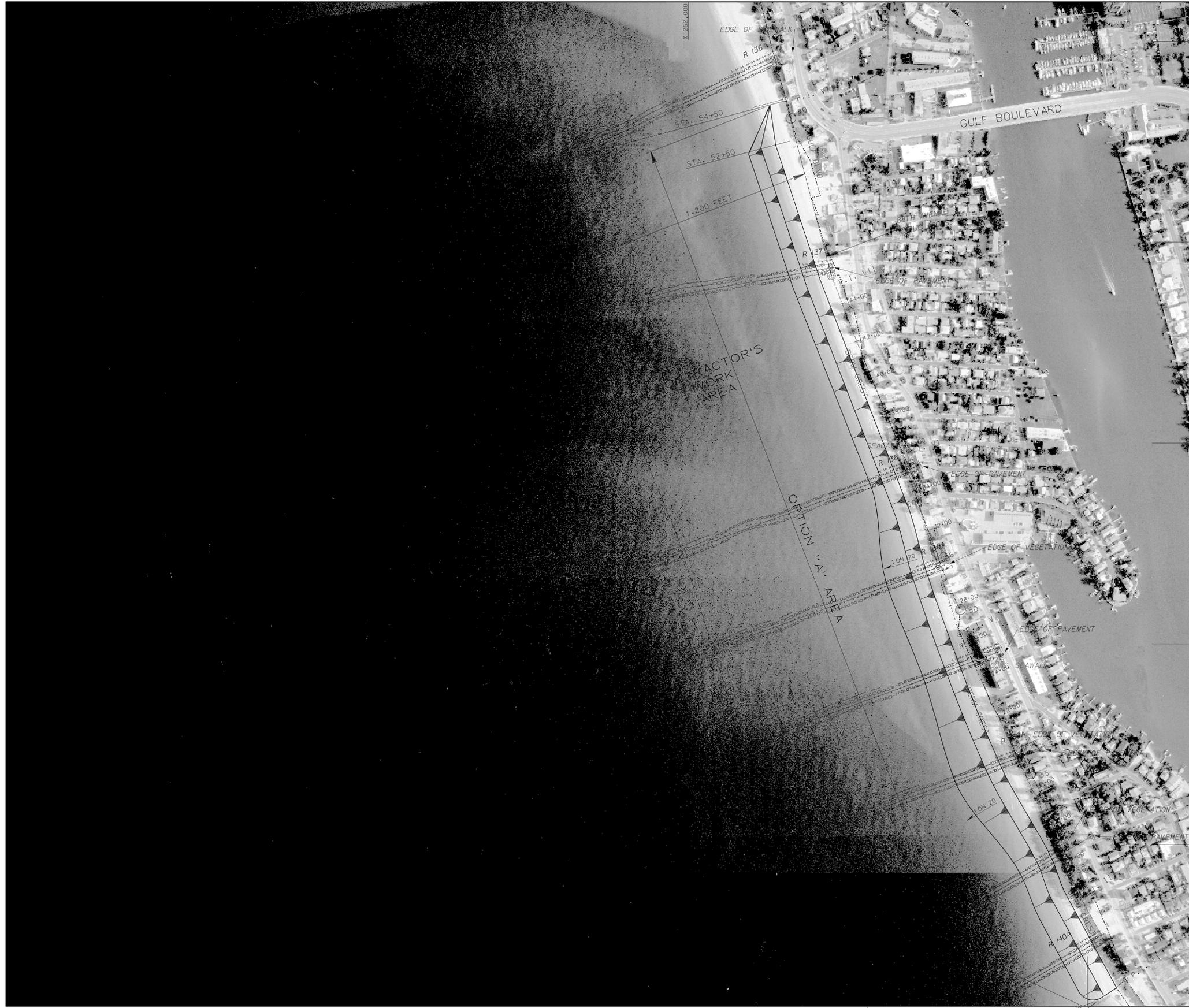
NOTES:

1. SEAWARD BEACH SLOPES ARE PERPENDICULAR TO THE BERM CREST.
2. RANGES OR DISTANCES FROM MONUMENTS SHOWN ON BEACH PROFILES ARE ALONG THE PROFILE AZIMUTH LINES.

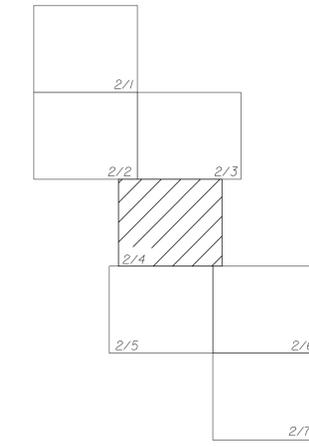


MATCH LINE DWG. NO. 2/2

MATCH LINE DWG. NO. 2/3



MATCH LINE DWG. NO. 2/5



SHEET INDEX

NOTES:
 1. SEE DRAWING NO. 1 FOR NOTES
 2. REFER TO SURVEY NO. 03-138



GRAPHIC SCALE



US Army Corps of Engineers
 Jacksonville District

SAFETY ON THIS JOB
 DEPENDS ON YOU

1	Symbol	Zone	Revised to Accompany Amendment No. 0002	Description	Approved
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DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

File name:	LK510204.DGN	Drawn by:	BNH	Checked by:	BNH	Date:	NOV 2002
Reference files:	LK51FERDR.DGN	Drawn by:	FLH	Checked by:	AS SHOWN	Date:	NOV 2002
	ES85NDG.DGN						
	ES85LVL.DGN						
	ES85HAL.DGN						
	CS8955.TIF						

SHORE PROTECTION PROJECT
 PINELLAS COUNTY, FLORIDA
 LONG KEY AND TREASURE ISLAND
 BEACH RENOURISHMENT 2004
 BEACH PLANS
 TREASURE ISLAND AERIAL PHOTO PLAN

DRAWING NO.

2/4



A

B

C

D

E

F

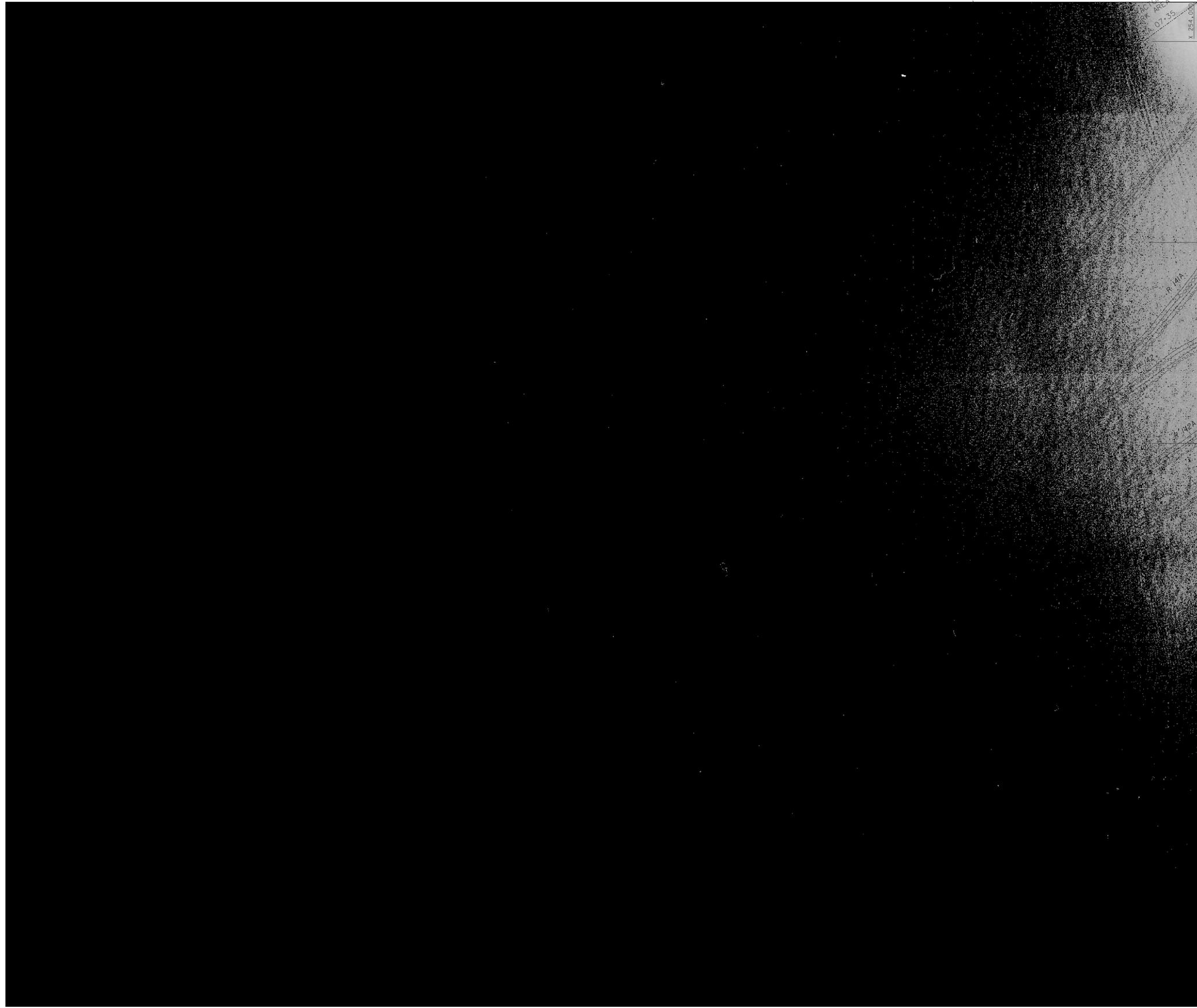
G

H

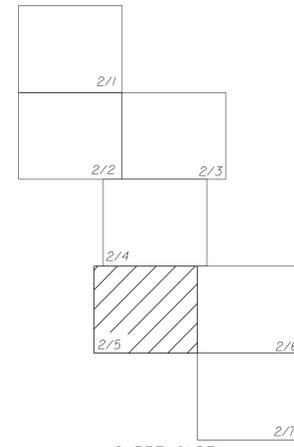
MATCH LINE DWG. NO. 2/4



NO TOPS
FOR AREA
07-35
X 254.000



MATCH LINE DWG. NO. 2/6



US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB
DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved
1		F6	REVISED TO ACCOMPANY AMENDMENT NO. 0002	

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

Designed by: B.N.H.	Checked by: R.L.H.	Inch. No. Date:	Scale: AS SHOWN
Dwn by: R.L.H.	Plot date:	Plot scale:	Date: NOV. 2002

D.O. FILE NO. 58-38,356

File Name: LX570205.DGN	Reference files: LX571800.DGN E1855000.DGN E1855100.DGN E1855200.DGN E1855300.DGN E1855400.DGN E1855500.DGN E1855600.DGN E1855700.DGN E1855800.DGN E1855900.DGN E1856000.DGN
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SHORE PROTECTION PROJECT
PINELLAS COUNTY, FLORIDA
LONG KEY AND TREASURE ISLAND
BEACH RENOURISHMENT 2004
BEACH PLANS
LONG KEY AERIAL PHOTO PLAN

DRAWING NO.
2/5

NOTES:
1. SEE DRAWING NO. 1 FOR NOTES
2. REFER TO SURVEY NO. 03-138



GRAPHIC SCALE

200' 0 200' 400'

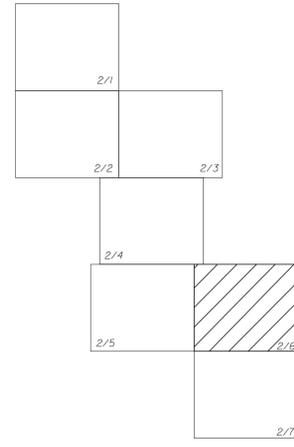
A B C D E F G H

6
5
4
3
2
1

MATCH LINE DWG. NO. 2/5



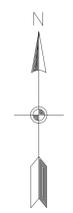
MATCH LINE DWG. NO. 2/7



SHEET INDEX

NOTES:

- SEE DRAWING NO. 1 FOR NOTES.
- REFER TO SURVEY NO. 03-138.
- THE PARKING LOT MAY BE USED FOR A STAGING AREA. THE EXACT LIMITS WILL BE DETERMINED IN THE FIELD.
- EQUIPMENT ACCESS IS AVAILABLE IN THE VICINITY OF 69TH AVENUE. THE CONTRACTOR SHALL RESTORE ACCESS ROUTE INCLUDING THE VEGETATION IF ROUTE IS USED FOR CONSTRUCTION OPERATIONS.



GRAPHIC SCALE



US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB
DEPENDS ON YOU

No.	Symbol	Zone	Description	Approved
1	▲		REVISED TO ACCOMPANY AMENDMENT NO. 0002	

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

File name: L1020206.DGN
Reference files: L1020206.DGN, L1020207.DGN, L1020208.DGN, L1020209.DGN, L1020210.DGN, L1020211.DGN, L1020212.DGN, L1020213.DGN, L1020214.DGN, L1020215.DGN, L1020216.DGN, L1020217.DGN, L1020218.DGN, L1020219.DGN, L1020220.DGN, L1020221.DGN, L1020222.DGN, L1020223.DGN, L1020224.DGN, L1020225.DGN, L1020226.DGN, L1020227.DGN, L1020228.DGN, L1020229.DGN, L1020230.DGN, L1020231.DGN, L1020232.DGN, L1020233.DGN, L1020234.DGN, L1020235.DGN, L1020236.DGN, L1020237.DGN, L1020238.DGN, L1020239.DGN, L1020240.DGN, L1020241.DGN, L1020242.DGN, L1020243.DGN, L1020244.DGN, L1020245.DGN, L1020246.DGN, L1020247.DGN, L1020248.DGN, L1020249.DGN, L1020250.DGN, L1020251.DGN, L1020252.DGN, L1020253.DGN, L1020254.DGN, L1020255.DGN, L1020256.DGN, L1020257.DGN, L1020258.DGN, L1020259.DGN, L1020260.DGN, L1020261.DGN, L1020262.DGN, L1020263.DGN, L1020264.DGN, L1020265.DGN, L1020266.DGN, L1020267.DGN, L1020268.DGN, L1020269.DGN, L1020270.DGN, L1020271.DGN, L1020272.DGN, L1020273.DGN, L1020274.DGN, L1020275.DGN, L1020276.DGN, L1020277.DGN, L1020278.DGN, L1020279.DGN, L1020280.DGN, L1020281.DGN, L1020282.DGN, L1020283.DGN, L1020284.DGN, L1020285.DGN, L1020286.DGN, L1020287.DGN, L1020288.DGN, L1020289.DGN, L1020290.DGN, L1020291.DGN, L1020292.DGN, L1020293.DGN, L1020294.DGN, L1020295.DGN, L1020296.DGN, L1020297.DGN, L1020298.DGN, L1020299.DGN, L1020300.DGN

Designed by: BAN/H
Drawn by: R.L.H.
Scale: AS SHOWN
Plot date:
Plot scale:
Date: NOV. 2002
D.O.F. FILE NO. 58-38,356

SHORE PROTECTION PROJECT
PINELLAS COUNTY, FLORIDA
LONG KEY AND TREASURE ISLAND
BEACH RENOURISHMENT 2004
BEACH PLANS
LONG KEY AERIAL PHOTO PLAN

DRAWING NO.

2/6



