

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF	PAGES
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2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
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6. ISSUED BY CODE	7. ADMINISTERED BY (If other than Item 6) CODE
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	(X)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 11)

CODE	FACILITY CODE
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11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended, is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

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

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

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

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

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

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

1. The specifications and drawings for Invitation No. DACW64-03-B-0002, Dredging Bolivar Roads to Pier "B," U. S. Army Corps of Engineers Boat Basin, and U. S. Coast Guard Docking Facilities in Galveston County, Texas, advertised 15 October 2002, and for which bids are rescheduled to be opened on 14 November 2002 are hereby modified as follows:

(a) Specifications.

(1) STANDARD FORM 1442, Item 10. - In the third sentence, change "10" to "5."

(2) STANDARD FORM 1442, Item 12b. - Change "10" to "5."

(3) Page 00800-2, Paragraph 1(e). - In the index of drawings, change "42 Sheets" to "43 Sheets."

(4) Page 01100-1, Paragraph 1. - Delete this Paragraph and substitute the following therefor:

"1. COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (CESWG). The Contractor will be required to commence work under this contract within 5 calendar days after the date of receipt of Notice to Proceed, to prosecute said work diligently and to complete the entire work ready for use not later than 275 calendar days after date of receipt of Notice to Proceed. If the total quantity of material to be paid for and actually removed under this contract exceeds the limit established in the Paragraph: VARIATIONS IN ESTIMATED QUANTITIES below, additional time will be allowed at the rate of 1 calendar day for each 27,000 cubic yards in excess of the established limit. The time stated for completion shall include final clean-up of the premises."

(5) Page 01100-5. - At the end of this Section, add the following new Paragraph:

"15. TIME EXTENSIONS FOR UNUSUALLY SEVERE WEATHER. (31 OCT 1989) (ER 415-1-15).

"15.1 This provision specifies the procedure for determination of time extensions for unusually severe weather in accordance with the CONTRACT CLAUSE entitled DEFAULT: (FIXED-PRICE CONSTRUCTION). 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.

"15.2 The following schedule of monthly anticipated adverse weather delays is based on 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.

MONTHLY ANTICIPATED ADVERSE WEATHER CALENDAR DAYS

<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>
(12)	(9)	(10)	(7)	(8)	(9)	(9)	(9)	(9)	(7)	(9)	(10)

"15.3 Upon acknowledgement of the Notice to Proceed and continuing throughout the contract, the Contractor will record on the daily Contractor Quality Control 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 in each month, and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated in Subparagraph 15.2 above, 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 CONTRACT CLAUSE entitled DEFAULT (FIXED-PRICE CONSTRUCTION)."

(6) SECTION 02226, REMOVAL OF EXISTING WEIR STRUCTURES. - The enclosed new SECTION 02226 entitled REMOVAL OF EXISTING WEIR STRUCTURES shall be added to and become a part of this Invitation.

(7) SECTION 02312, EXCAVATION, FILLING, AND BACKFILLING FOR STRUCTURES. - The enclosed new SECTION 02312 entitled EXCAVATION, FILLING, AND BACKFILLING FOR STRUCTURES shall be added to and become a part of this Invitation.

(8) Page 02329-1, Subparagraph 1.5.1. - Delete the sentence and substitute the following: "Levee embankment materials and backfill for structures shall not be measured for payment."

(9) Page 02329-2, Subparagraph 1.6.2. - Delete this Subparagraph and substitute the following:

"1.6.2 Levee Construction. Payment for excavation and placement for the fill for levee construction will be included in the contract lump sum price for "Levees, Drop-outlets, and Ditches," which shall include the cost of labor, material, and equipment associated with the construction."

(10) Page 02329-2, Subparagraph 2.2.1. - Delete the first line, delete "the uncompacted embankments" and substitute "embankments and backfilling for structures."

(11) Page 02329-3, Subparagraph 3.3.2. - After Subparagraph 3.3.2, add the following new Subparagraph:

"3.3.3 Semi-compacted Fill. The perimeter and interior embankments shall be constructed to the required templates using satisfactory semi-compacted materials obtained from the borrow areas shown. Fill material shall be placed and spread in maximum 8-inch thick layers prior to compaction. The moisture content of each layer of material shall be suitable to obtain the maximum compaction with the equipment used. If the fill material is either too wet or too dry to obtain compaction, it shall be disked and aerated until dry or moistened and disked to distribute moisture throughout each layer. When the moisture of the fill material is satisfactory, each layer shall be compacted by not less than three (3) coverages of a crawler-type tractor conforming to the requirements of the Paragraph: EQUIPMENT above. In areas where soft foundation material exists, the initial layer of the semi-compacted fill shall be advanced across the foundation area using a method that will force displaced soft foundation material progressively outward from the center of the embankment to prevent trapping soft material within the embankment fill."

(12) SECTION 02378, GEOTEXTILES USED AS FILTERS. - The enclosed new SECTION 02378 entitled GEOTEXTILES USED AS FILTERS shall be added to and become a part of this Invitation.

(13) Page 02482-2, paragraph 1.2. - At the beginning of this Paragraph, add the following:

"The Contractor shall complete repair at Pelican Island Placement Area and commence placing material with the confines of the Placement Area on or before 25 February 2003."

(14) Page 02482-8, Subparagraph 3.3.2.1. - At the end of this Subparagraph, add the following:

"If dredged material is not expected to be pumped prior to March 15, then the Contractor will flood Cells A and B and maintain the flooded state until dredging commences. This action will require that work on Pelican Island Placement Area be complete in a time frame to allow the pumping of water into Cells A and B. The Contractor shall make the necessary adjustments to equipment and labor to accomplish the work to facilitate the use of this

Placement Area when dredging in the reaches designated to be placed in this Area is started. There is a bird window for this Area between March 15 and August 31 and the purpose of the flooding is to prevent the use of the area for nesting and allow its use during the time period.

(15) Page 02619-4, Paragraph 3.3. - Delete this Paragraph in its entirety.

(16) Page 02700-2, Subparagraph 1.4.2. - Delete this Subparagraph.

(17) Page 02700-2, Subparagraph 1.4.3. - Renumber this Subparagraph to read 1.4.2.

(18) Page 02700-2, Subparagraph 1.4.4. - Delete this Subparagraph.

(19) Page 02700-3, Subparagraph 2.1.5. - In the first line, delete "No. 2 dense" and substitute "No. 1."

(20) SECTION 02701, WEIR STRUCTURES. - The enclosed new SECTION 02701 entitled WEIR STRUCTURES shall be added to and become a part of this Invitation.

(b) Drawings.

(1) Sheet 3 of 43. - In the left upper corner of this Sheet, at the point the DREDGE PIPELINE ROUTE 'E' crosses into the PLACEMENT AREA, manually add the words "ACCESS POINT." Also, on the left middle area of this Sheet, at the point the DREDGE PIPELINE ROUTE crosses into the PLACEMENT AREA, manually add the words "ACCESS POINT."

(2) Sheet 21 of 43. - The enclosed new SKETCH NO. 1 shall be added to this Sheet.

(3) Sheet 29 of 43. - The enclosed new SKETCH NO. 2 shall be added to this Sheet.

(4) Sheet 42 of 43. - Delete this Sheet 42 of 43. Also, add the enclosed new Sheets 42A of 43, 42B of 43, and 42C of 43.

2. This Amendment shall be attached to and become a part of the specifications.

6 Encls:

1. Section 02226
2. Section 02312
3. Section 02378
4. Section 02701
5. Sketches Nos. 1 & 2
6. Shts 42A, 42B, & 42C of 43

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SECTION 02226 - REMOVAL OF EXISTING WEIR STRUCTURES

PART 1 - GENERAL

1.1 SCOPE OF WORK. The work covered in this Section consists of furnishing plant, labor, materials, and equipment and performing the operations in connection with removal of four (4) existing Weir Structures at Pelican Island. Locations are as shown.

1.2 PAYMENT for the work covered herein and the costs in connection therewith, will be included in the contract lump sum price for "Levees, Drop-outlets, and Ditches." The contract price shall constitute full compensation for labor and equipment used to complete the work specified herein.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 REMOVAL OF EXISTING WEIR STRUCTURES. Wood and structural steel that comprise the superstructure shall be removed above its concrete slab base. The concrete slab is to be allowed to remain intact.

3.2 DISPOSAL OF MATERIALS. Unsuitable soft materials shall be disposed inside the Placement Area. Wood, metal, and other related debris shall become the property of the Contractor and shall be disposed off-site at locations provided by the Contractor in compliance with the Federal, State, and local laws and ordinances.

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**SECTION 02312 - EXCAVATION, FILLING, AND BACKFILLING
FOR STRUCTURES**

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**SECTION 02312 - EXCAVATION, FILLING, AND BACKFILLING
FOR STRUCTURES**

PART 1 - GENERAL

1.1 SCOPE OF WORK. The work covered in this Section consists of furnishing plant, labor, materials, and equipment and performing the earthwork operations in connection with construction of the Structures as shown. Construction of the Structures shall be in a dry condition.

1.2 MEASUREMENT. The work specified in this Section shall not be measured for payment.

1.3 PAYMENT for work specified in this Section will be included in the contract lump sum price for "Levees, Drop-outlets, and Ditches," which shall include full compensation for labor, equipment, and performing the operations in connection with construction of the structures.

PART 2 - PRODUCTS

2.1 SATISFACTORY SOILS. The definition for satisfactory materials to be used for backfilling are specified as "semi-compacted" in the SECTION entitled EMBANKMENT CONSTRUCTION.

PART 3 - EXECUTION

3.1 EXCAVATION.

3.1.1 General. Excavation for the structures shall conform to the dimensions and elevations as shown. Excavation carried below indicated depths of the structure will not be permitted except to remove unsatisfactory material as directed. Unsatisfactory material shall be excavated below the depths shown and replaced with satisfactory material. Material removed below the depths shown shall be replaced to the indicated excavation grade with satisfactory materials placed and compacted as specified in the SECTION entitled EMBANKMENT CONSTRUCTION.

3.1.2 Drainage. Excavation shall be performed using a method that will ensure that the area of the site and the area immediately surrounding the site are continually and effectively drained. Water shall not be permitted to accumulate in the excavation. The excavation shall be drained by satisfactory methods to prevent softening of the foundation bottom, undercutting of footings, or other actions detrimental to proper construction procedures.

3.1.3 Excavated Materials. Satisfactory excavated material, as specified, in the SECTION entitled EMBANKMENT CONSTRUCTION., required for fill or backfill shall be placed in the proper section of the permanent work specified herein or shall be separately stockpiled if it cannot be readily placed. Stockpiles shall be placed, graded, and shaped for proper drainage.

3.1.4 Final Grade. Soft spots encountered within the subgrade foundation area shall be removed, replaced by approved satisfactory materials of similar soil type and shall be compacted as specified.

3.2 FILLING AND BACKFILLING FOR STRUCTURES.

3.2.1 General. Backfill and fill shall be placed evenly around the completed structures to the lines and grades shown. Equipment used in filling and backfilling shall conform to the requirements specified in the SECTION entitled EMBANKMENT CONSTRUCTION.

3.2.2 Preparation of Ground Surfaces. Unsatisfactory material in surfaces to receive fill shall be removed and replaced with satisfactory materials. The placing and compaction of satisfactory materials shall be as specified in the SECTION entitled EMBANKMENT CONSTRUCTION.

3.2.3 Placement. Backfill and fill for structures shall be placed in horizontal layers not to exceed 8 inches in loose depth and then compacted. Material shall not be placed on a surface that is muddy, frozen, or contains frost. Backfilling shall not begin until construction of the structures has been approved, and the excavation cleaned of trash and debris. Backfill and fill shall be brought up to the indicated finished grade. Where material is to be placed against both sides of a wall, the placement of lifts shall be controlled so that the difference between the earth elevation on one side and the earth elevation on the other side of the wall is as small as practicable. However, the difference in elevations may not exceed 2 feet unless the finished grade on one side of the wall differs from the finished grade on the other, and the earth surface on both sides of the wall has been brought up to the lower finished grade. Unless otherwise shown, backfill and fill for structures shall be sloped to drain away from the structure. Unless otherwise directed, the placing and compaction of backfill and fill material shall conform to the provisions specified in the SECTION entitled EMBANKMENT CONSTRUCTION. Heavy equipment for spreading or compacting shall not be operated closer than 3 feet to a foundation or wall. Material within 3 feet of foundations, walls, and tops of structures shall be compacted by power-driven tampers.

3.2.5 Drop-outlet Structure Pad. Satisfactory material may be placed on top of the rock pad to even the surface but should not be thicker than 6 inches.

3.3 CONTRACTOR QUALITY CONTROL.

3.3.1 Compliance Inspection. The Contractor shall inspect for compliance with this contract requirements and record the inspection of operations including, but not limited to the following:

- (1) Materials - Satisfactory materials.
- (2) Foundation Preparation - Drainage of water and drying.
- (3) Backfill and Fill Construction - Layer thickness; finished fill, lines and grades,; proper compaction.

3.3.2 Records. A copy of the records and of inspections and tests, as well as the records of corrective action taken, shall be submitted as directed.

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SECTION 02378 - GEOTEXTILES USED AS FILTERS**PART 1 - GENERAL**

1.1 SCOPE OF WORK. The work covered in this Section consists of furnishing plant, labor, material, and equipment; and performing the operations required for furnishing, hauling, and placing the geotextile, complete as specified herein and as shown.

1.2 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.

American Society for Testing and Materials (ASTM) Publications.

D 123-01	Standard Terminology Relating to Textiles
D 3884-01 (E 2002)	Abrasion Resistance of Textile Fabrics (Flexing and Abrasion Method)
D 4355-02	Deterioration of Geotextiles from Exposure to Light, Moisture, and Heat in a Xenon Arc Type Apparatus
D 4491-99A	Water Permeability of Geotextiles by Permittivity
D 4533-91 (R 1996)	Trapezoidal Tearing Strength of Geotextiles.
D 4632-91 (R 1996)	Grab Breaking Load and Elongation of Geotextiles
D 4751-99A	Determining Apparent Opening Size of a Geotextile
D 4833-00 (E 2002)	Index Puncture Resistance of Geotextiles, Geomembranes, and Related Products
D 4884-96	Strength of Sewn or Thermally Bonded Seams of Geotextiles.

1.3 SUBMITTALS. Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with SECTION entitled SUBMITTAL PROCEDURES.

1.3.1 SD-13 Certificates.

1.3.1.1 Geotextile: GA. A certificate of compliance, attesting that the geotextile meets the chemical, physical, and manufacturing requirements specified herein.

1.3.2 SD-14 Samples.

1.3.2.1 Textile Pins: GA. At least two (2) temporary textile pins shall be submitted prior to delivery of material to the work site.

1.3.2.2 Geotextile Fabric: FIO. Two (2) fabric samples measuring approximately 2 feet by 2 feet shall be submitted to the Area Office to be forwarded to Geotechnical and Structures Section for material files.

1.4 SHIPMENT AND STORAGE. Synthetic geotextiles that are not to be installed immediately and during periods of shipment and storage, shall be protected from direct sunlight, ultra-violet rays, temperatures above 140 degrees Fahrenheit, mud, dirt, dust, and debris. To the extent possible, the fabric shall be maintained wrapped in a heavy-duty protective covering.

1.5 MEASUREMENT. The geotextile placed to the required dimensions as specified shall not be measured for payment.

1.6 PAYMENT for the work covered herein will be included in the contract lump sum price for "Levees, Drop-outlets, and Ditches," which price shall include full compensation for providing plant, labor, material, and equipment and performing the operations necessary for the complete and satisfactory installation of the geotextile.

PART 2 - PRODUCTS

2.1 GEOTEXTILE.

2.1.1 General. The geotextile shall be a woven pervious sheet of plastic yarn in accordance with ASTM D 123 and shall meet the physical requirements listed in TABLE 1 below. The geotextile fiber shall consist of a long-chain synthetic polymer composed of at least 85 percent by weight of propylene, ethylene, ester, amide, or vinylidene-chloride, and shall contain stabilizers or inhibitors added to the base plastic if necessary to make the filaments resistant to deterioration due to ultra-violet and heat exposure. The outer edges of the geotextile shall be finished to prevent the outer fiber from pulling away from the geotextile.

2.1.2 Dimensions and Direction of Seams and Weave. The Contractor shall determine dimensions of the fabric sheets and direction and alignment of seams and weave to accomplish placement as shown.

2.2 SEAMS. The seams shall be sewn with thread of a material meeting the chemical requirements given above for geotextile yarn or shall be bonded by cementing or by heat. The sheets of geotextile shall be attached at the factory or other approved location, if necessary, to form sections not less than 18 feet wide. Seams shall be tested in accordance with ASTM D 4884, using 1-inch square jaws and 12 inches per minute constant rate of traverse. The strengths shall not be less than 90 percent of the required tensile strength, listed in TABLE 1 below, of the unaged geotextile in any principal direction.

2.3 ACCEPTANCE REQUIREMENTS. Brands of geotextile and seams to be used shall be accepted on the following basis. The Contractor shall submit, in duplicate, a mill certificate or affidavit signed by a legally authorized official from the company manufacturing the geotextile. The mill certificate or affidavit shall attest that the geotextile meets the chemical, physical, and manufacturing requirements specified herein.

TABLE 1 - PHYSICAL REQUIREMENTS FOR GEOTEXTILE

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>UNIT</u>	<u>MINIMUM TEST VALUE</u>
Apparent Opening	ASTM D 4751	U.S. Sieve	#70
Permittivity	ASTM D 4491	sec-1	0.015 (or greater)
Puncture	ASTM D 4833	lbs	130
Grab Tensile -In any principal direction	ASTM D 4632	lbs and %	250, 15% minimum strain
Trapezoidal Tear	ASTM D 4533	lbs	55
Ultraviolet Degradation (percent Strength retained at at 500 hours)	ASTM D 4355	%	70% strength retained for all classes
Seam Strength	ASTM D 4884	lbs	160
Abrasion Resistance	ASTM D 3884	lbs	55% residual breaking load in any principal direction

TABLE 1 - PHYSICAL REQUIREMENTS FOR GEOTEXTILE (Cont'd)

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>UNIT</u>	<u>MINIMUM TEST VALUE</u>
Percent Open Area	Specification Paragraph title DETERMINATION OF PERCENT OF OPEN AREA	%	4

2.4 DETERMINATION OF PERCENT OF OPEN AREA. Five (5) samples of unaged woven geotextile shall be placed separately in a 2-inch by 2-inch slide holder and the image projected with a slide projector on a rigid screen. A square block of twenty-five (25) openings near the center of that image shall be selected and the length and width of each of the twenty-five (25) openings shall be measured to the nearest 0.02-inch. The total area shall be determined by measuring the length of the sides of the five (5) openings and five (5) adjacent fibers in each direction to the nearest 0.02 inch. The Percent Open Area (POA) is determined by dividing the sum of the twenty-five (25) open areas by the total area of the twenty-five (25) openings and their adjacent fibers. The POA shall be quoted as the percent determined by averaging the POAs of the five (5) individual specimens. However, if more than one (1) of the five (5) specimens are outside the specified POA limits, the fabric shall be considered to have failed the test.

PART 3 - EXECUTION

3.1 EXCAVATION AND PLACEMENT OF FILL is covered in the SECTION entitled EXCAVATION, FILLING, AND BACKFILLING FOR STRUCTURES.

3.2 GEOTEXTILE INSTALLATION. The geotextile shall be placed at the locations shown. At the time of installation, the geotextile shall be rejected if it has defects, rips, holes, flaws, deterioration, or damage incurred during manufacture, transportation, or storage. The wing wall surface to receive the geotextile shall be prepared to a relatively smooth condition free of protuberances or sharp edges that have potential to puncture or tear the fabric. The geotextile shall be laid smooth and free of tension, stress, folds, wrinkles, or creases. Individual fabric sheets or strips shall be placed to provide a minimum width of 18 inches of overlap for each joint. Temporary pinning of the textile to help hold it in place shall be allowed. The temporary pins shall be removed as the backfill is placed behind the wing wall. The geotextile shall be protected from damage prior to and during backfill placement.. Geotextile damaged during installation shall be replaced by the Contractor at no cost to the Government.

3.3 CONTRACTOR QUALITY CONTROL.

3.3.1 Compliance Inspections. The Contractor shall inspect for compliance with this contract requirements and record the inspection of operations.

3.3.2 Contract Specifications and Drawings. The on-site Quality Control Supervisor shall have a copy of the specifications and drawings at the site at all times for use in performance of Quality Control activities. The specifications and drawings shall be referenced directly during Government Quality Assurance inspections with regards to questions or discussions about performance of work or quality requirements.

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SECTION 02701 - WEIR STRUCTURES**PART 1 - GENERAL**

1.1 SCOPE OF WORK. The work covered in this Section consists of furnishing plant, labor, materials, and equipment and performing the operations in connection with the construction of the Weir Structures at Pelican Island. The term "Weir Structure" shall include Support Stanchions, Support Bracing, Concrete, Walkways, and Handrails as shown.

1.2 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.

American Society for Testing and Materials (ASTM) Specifications.

A 36-01	Carbon Structural Steel
A 123-01	Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
A 325-02	Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength
A 588-01	High Strength Low-Alloy Structural Steel with 50 ksi (345 MPa) Minimum Yield Point to 4 in. (100 mm) Thick
A 593-02	Stainless Steel Bolts, Hex Cap Screws, and Studs.

American Institute of Steel Construction (AISC) Specifications.

American Welding Society (AWS) Standard.

D1.1-02	Structural Welding Code - Steel.
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American Wood-Preservers' Association (AWPA) Standards.

C 2-99	Lumber, Timbers, Bridge Ties and Mine Ties - Pressure Treatment
M 4-99	Care of Preservative-Treated Wood Products.

Federal Specification (Fed. Spec.).

RR-G-1602C Grating, Metal, Other Than Bar Type (Floor,
Except for Naval Vessels).

Western Wood-Preservers' Institute (WWPIA) Publication.

01-95 Best Management Practices for the Use of
Treated Wood in Aquatic Environments.

1.3 STRUCTURES.

1.3.1 Weir Structures at pelican Island. The Weir Structures shall be constructed at the locations shown and shall conform to the details specified and as indicated.

1.4 SUBMITTALS. Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only. The following shall be submitted in accordance with the SECTION entitled SUBMITTAL PROCEDURES.

1.4.1 SD-04 Drawings.

1.4.1.1 Structures: GA. Five (5) sets of shop drawings for the components of each structure shall be submitted.

1.4.2 SD-13 Certificates.

1.4.2.1 Materials: GA. Certificates of Compliance from suppliers which demonstrate compliance with the applicable specifications shall be submitted for structural steel, lumber, lumber treatment, grating, concrete, reinforcement steel and paint.

1.4.2.2 Best Management Practices: FIO. The producer of the treated wood products shall submit certification that Best Management Practices (BMPs) for the use of Treated Wood in Aquatic Environments were utilized, including a written description and appropriate documentation for the BMPs utilized.

1.5 PROTECTION OF EXISTING WORK. Before beginning work on the new structures, the Contractor shall remove the existing work in accordance with the SECTION entitled REMOVAL OF EXISTING WEIR STRUCTURES."

1.6 PAYMENT.

1.6.1 Weir Structures. Payment for the work specified herein will be included in the contract lump sum price for “Levees, Drop-outlets, and Ditches” which shall constitute full payment for material, labor, and inspection necessary to complete the work.

PART 2 - PRODUCTS

2.1 MATERIALS for the Structures shall meet the following requirements:

2.1.1.1 Concrete and related materials shall conform to the requirements specified in the SECTION entitled CONCRETE.

2.1.2 Structural Steel shall conform to the requirements of ASTM A 36.

2.1.3 Bolts, Nuts, and Washers shall be of the material, Grade, Type, Class, Style, and finish indicated or best suited for intended use.

2.1.3.1 High-strength Bolts, Nuts, and Washers shall conform to ASTM A 325, Type 3.

2.1.3.2 Epoxy Anchors shall be as shownl.

2.1.3.3 Stainless Steel Bolts, Nuts, and Washers shall conform to ASTM A 593, Group 1.

2.1.4 Grating shall be of plank type and shall conform to the requirements of Fed. Spec. RR-G-1602C, galvanized, Type II, serrated. The grating shall have an anti-slip surface .

2.1.5 Lumber shall be southern yellow pine rough No. 1, minimum allowable bending stress of 1,400 psi. Cuts in timber or abraded surfaces of new work shall receive a field treatment in accordance with AWP A M 4.

2.1.5.1 Treated Timber shall be furnished and installed by the Contractor on the sides of the structures from the top of the concrete slab or headwall to the elevations shown. Lumber thickness and length shall be as shown. Lumber shall be 8-inch nominal width. Lumber to be furnished shall be straight, even sawed, sound, and entirely free from defects that can impair its durability or its usefulness for the purpose intended. Lumber shall bear the official Grade mark of the association under whose rules it is purchased or in lieu thereof, each shipment shall be accompanied by a certificate of inspection issued by the inspection association. Lumber shall have a Chromated Copper Arsenate (CCA) preservative treatment and shall be accompanied by a certificate from a recognized treatment company certifying the amount of treatment.

2.1.5.2 Preservative Treatment by pressure processes shall be in accordance with AWWA C 2. Timber shall receive a treatment of 2.5 pcf of CCA solution.

2.2 FABRICATION.

2.2.1 Structural Steel shall be fabricated in accordance with the latest specifications of the AISC.

2.2.2 Welding shall meet the requirements of the AWS Standard D1.1.

2.2.3 Galvanizing of steel handrails and grating shall conform to the requirements of ASTM Standard A 123. Galvanizing shall be 2 ounces of hot-dip zinc coating per square foot of surface area. Galvanized areas damaged, abraded or where galvanized material has been broken by field welding, cutting, drilling, handling, storage, or by other means shall be coated with two (2) coats of Galvaweld or other material as approved.

2.2.4 Painting. Structural steel, except steel handrails, shall be painted with two (2) coats of Devoe Catha-Coat 300 zinc self-curing primer and coated with two (2) coats of Devoe 221 Devtar 5A corrosion control coating or equivalent products as approved. Surface preparation and paint application shall follow the manufacturer's recommendations. Safety precautions included with the application instructions shall be observed during storage, handling, and use. Steel handrails shall be galvanized after fabrication as specified above.

PART 3 - EXECUTION

3.1 ERECTION OF STRUCTURAL STEEL shall be in accordance with the latest specifications of the AISC.

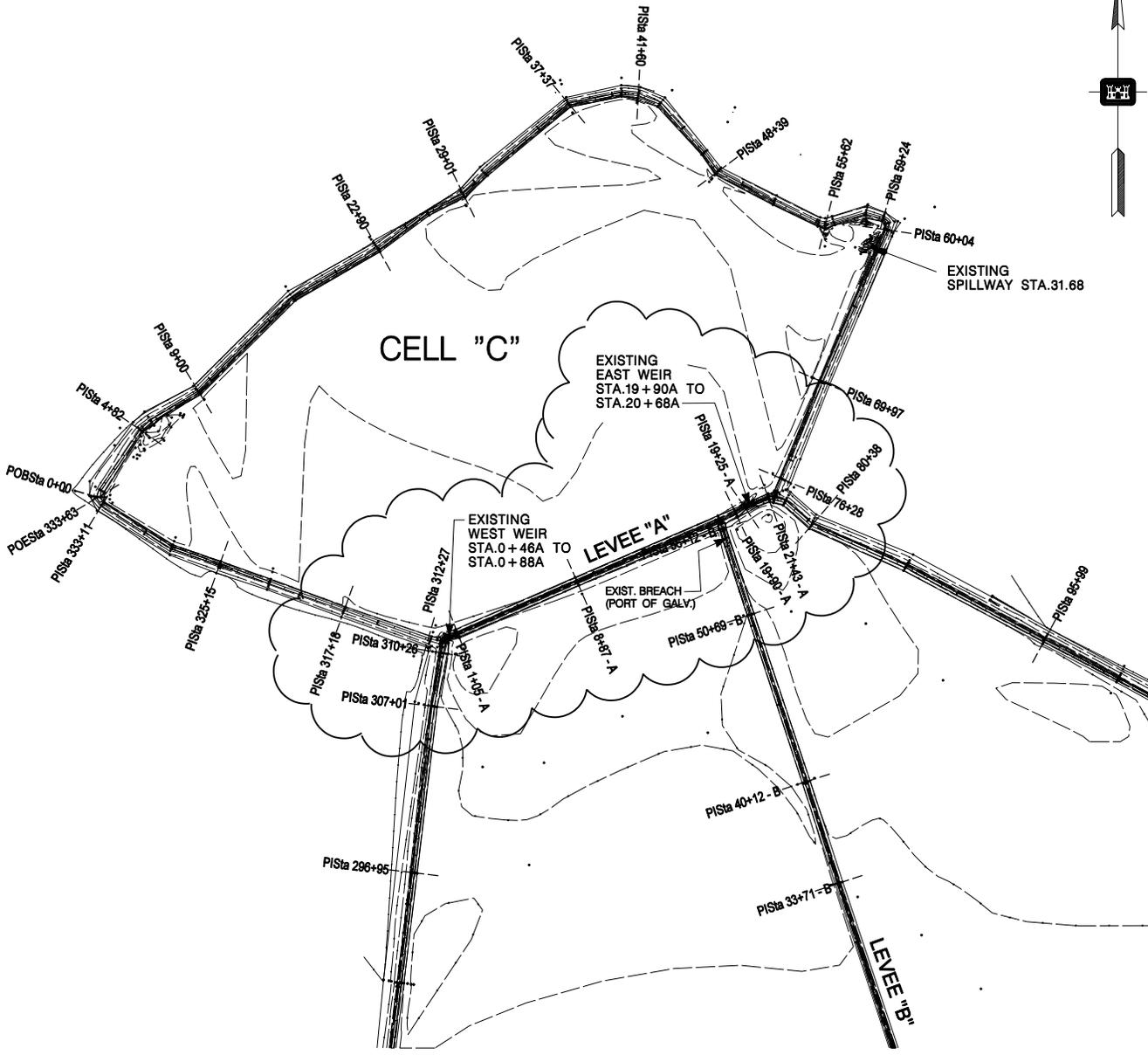
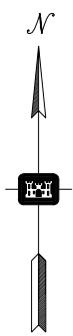
3.2 CONTRACTOR QUALITY CONTROL.

3.2.1 Compliance Inspection. The Contractor shall inspect for compliance with contract requirements and record the inspection of the operations including but not limited to the following:

Materials. - Certificates shall be submitted to show conformance with applicable specifications and drawings; visual and dimensional inspections.

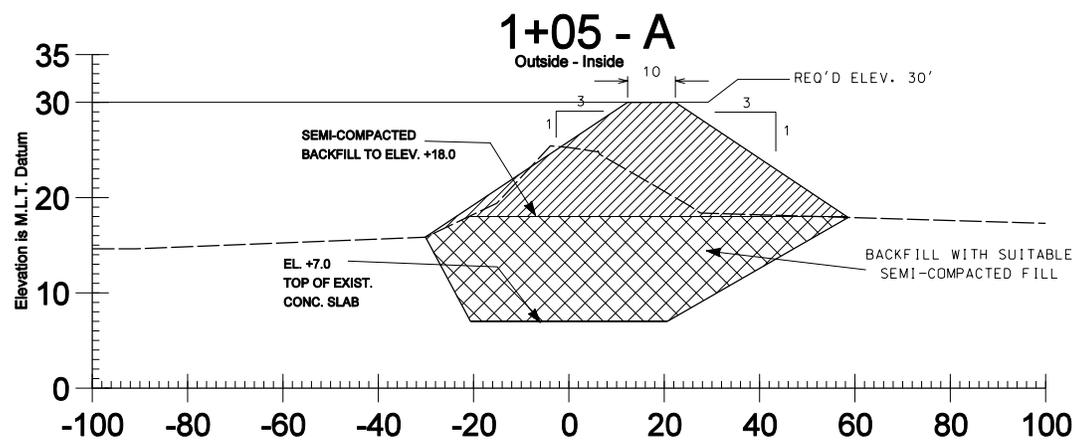
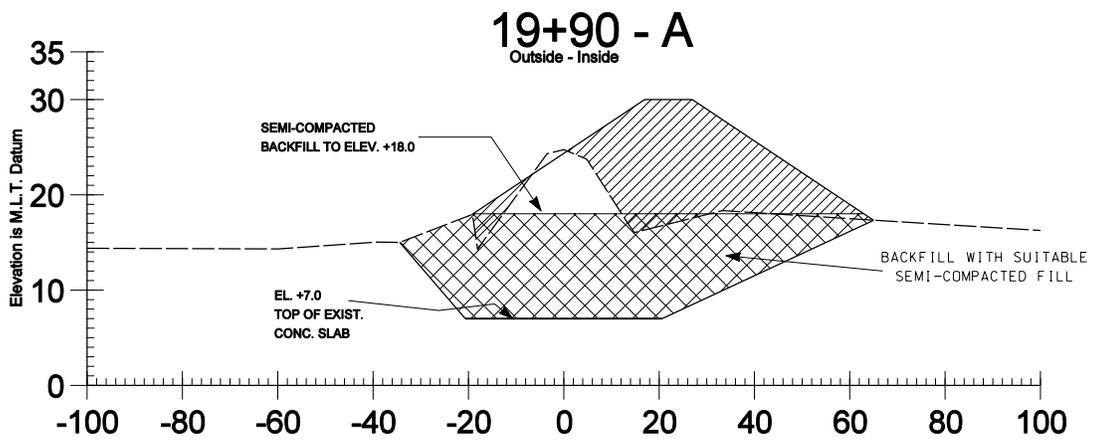
3.2.2 Records. A copy of the records of inspections and tests, as well as the records of corrective action taken shall be submitted as directed.

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"TO BE ADDED TO SHT. 21 of 43"

"THIS SKETCH ACCOMPANIES
AMENDMENT NO. 0003 TO
INVITATION NO. DACW64-03-B-0002."



"THIS SKETCH ACCOMPANIES
 AMENDMENT NO. 0003 TO
 INVITATION NO. DACW64-03-B-0002."

"REPLACE SECTIONS FOR
 STA. 19+90A AND STA. 1+05A
 ON SHT. 29 of 43"