

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE J	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 0003		3. EFFECTIVE DATE 14-Oct-2004	4. REQUISITION/PURCHASE REQ. NO. W807PM-4230-7999		5. PROJECT NO.(If applicable)
6. ISSUED BY VBURG CONSOL CONTRACTING OFC 4155 CLAY ST VICKSBURG MS 39183-3435		CODE W912EE	7. ADMINISTERED BY (If other than item 6) See Item 6		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. W912EE-04-B-0018	
			X	9B. DATED (SEE ITEM 11) 10-Sep-2004	
				10A. MOD. OF CONTRACT/ORDER NO.	
CODE				10B. DATED (SEE ITEM 13)	
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; (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.) Reference Solicitation No. W912EE-04-B-0018 for Flood Control/ Mississippi River and Tributaries, Yazoo Basin, Batupan Bogue Watershed, Grenada County, Mississippi, Mississippi Delta Headwaters Project (DEC), Riser Pipe Grade Control Structures, RP-03-06, scheduled to open at 1400 hours on 28 October 2004 is amended as follows <p style="text-align: center;">(CONTINUED ON PAGE 2.):</p>					
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 14-Oct-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

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

Section SF 30, Block 14, Continuation page

TECHNICAL SPECIFICATIONS

Section 02226 EXCAVATION, BACKFILL, EMBANKMENT, AND CONTROL OF WATER is revised and replaced in its entirety. Paragraph 2.1.1.2 entitled "Suitable Materials" has been revised.

Pages revised by this amendment have the notation "Revised by Amendment 0003" at the bottom of the page. Text added by this amendment is shown underlined.

Encls: Section 02226, pages 1 thru 8.

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DIVISION 02 - SITE WORK

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SECTION 02226

EXCAVATION, BACKFILL, EMBANKMENT, AND CONTROL OF WATER

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 basic designation only.

ASTM INTERNATIONAL (ASTM)

ASTM D 698	(2000a) Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/cu. ft. (600 kN-m/cu. m.))
ASTM D 1556	(2000) Density and Unit Weight of Soil in Place by the Sand-Cone Method
ASTM D 2167	(1994; R 2001) Density and Unit Weight of Soil in Place by the Rubber Balloon Method
ASTM D 2216	(1998) Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
ASTM D 2487	(2000) Classification of Soils for Engineering Purposes (Unified Soil Classification System)
ASTM D 2922	(2001) Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)
ASTM D 3017	(2001) Water Content of Soil and Rock in Place by Nuclear Methods (Shallow Depth)

PART 2 PRODUCTS

2.1 MATERIALS

2.1.1 Backfill and Embankment

2.1.1.1 General

The Government makes no guarantee that the quantity of required excavation is adequate to provide the quantity of suitable material needed for required backfill and embankment. Material for backfill and embankment shall be obtained from required excavation and/or furnished by the Contractor from off-site sources at no additional cost to the Government. Material furnished by the Contractor shall be suitable material and shall be approved prior to being used. No frozen material shall be placed and material shall not be placed against frozen surfaces.

2.1.1.2 Suitable Materials

Suitable materials to be used for backfill and embankment shall be clay (CL, CH) or silt (ML) classified by the Contractor in accordance with ASTM D 2487. Material classified in accordance with ASTM D 2487 as gravels (GW, GP, GM) and sands (SW, SP, SM) shall not be used for any required backfill or embankment construction unless suitably blended with less pervious material to the extent that it no longer classifies as these materials. At least one classification determination shall be made for each source, except that one material determination for each 2500 cubic meters of embankment material to be placed shall be made at Sites 1 and 2. Tests results shall be furnished to the Contracting Officer prior to placing material.

2.1.1.3 Unsuitable Materials

Materials which are classified as unsuitable for backfill and embankment material are defined as masses of organic matter, sticks, branches, roots, trash and other debris.

2.1.1.4 Topsoil

Topsoil shall be obtained from required excavation or furnished by the Contractor from off-site sources at no additional cost to the Government. Topsoil shall be natural, friable soil representative of productive, well-drained soils in the area, free of subsoil, stumps, rocks larger than 25 mm diameter, brush, weeds, toxic substances, and other material detrimental to plant growth, and shall be suitable for treatment as specified in Section 02960 EROSION CONTROL.

PART 3 EXECUTION

3.1 EXCAVATION

3.1.1 General

Excavation shall consist of removal of material in preparing the foundation to the lines and grade shown on the drawings. Wherever unsuitable foundation material is encountered, the unsuitable material shall be removed to the depth directed. Overexcavation will not be permitted except to remove unsuitable material as directed. Backfill of authorized (required) overexcavation and of unauthorized overexcavation shall be as specified in paragraph PLACEMENT, subparagraph BACKFILL and paragraph COMPACTION, subparagraph BACKFILL. Excavated materials shall be disposed of as specified in paragraph DISPOSAL OF EXCAVATED MATERIALS.

3.1.2 Excavation for Structures and Channels

The foundations for the structures, riprap and filters shall be excavated to the lines, grades and sections shown on the drawings. The channels at the end of pipes shall be excavated to the lines, grades and sections shown on the drawings within an allowable tolerance of plus or minus 150 mm. All foundations shall be solid, undisturbed or properly compacted material. The bottom of the excavation upon which concrete is to be placed shall be accurately finished to the dimensions prescribed or directed, within an allowable tolerance of plus 13 mm and minus 50 mm. Where disturbed by the Contractor's operations and elsewhere as required, the excavated surfaces shall be moistened with water or dried as necessary and tamped or rolled with suitable tools or equipment for the purpose of thoroughly compacting them and forming firm foundations upon or against which to place the

concrete.

3.1.3 Emergency Spillways

- a. At sites where the emergency spillway is shown as a natural terrain feature, earthwork construction is not required and the natural terrain shall not be disturbed.
- b. At sites where construction is required, the emergency spillway shall be excavated to the lines and grades indicated, within an allowable tolerance of plus or minus 150 mm.

3.1.4 Disposal of Excavated Materials

Excavated materials which are not suitable for use as backfill and embankment, or in excess of that required for backfill and embankment shall be disposed of by placing it in Contractor-furnished upland disposal area(s) outside the Government-furnished rights-of-way. The location and dimensions of the Contractor-furnished disposal area(s) shall be approved prior to disposal of any material and shall not be located in any river, stream, lake or wetland area. The Contractor shall obtain the rights-of-way for the disposal area(s) in accordance with Section 01000 GENERAL CONTRACT REQUIREMENTS, paragraph RIGHTS-OF-WAY. No separate measurement or payment will be made for Contractor-furnished disposal area(s), and all costs therefor shall be included in the applicable contract lump sum prices for the structure sites as listed in the Bidding Schedule.

3.1.4.1 Disposal of Discarded Materials

Discarded material other than those which can be included in the solid waste category shall be disposed of as specified in paragraph EXCAVATION, subparagraph DISPOSAL OF EXCAVATED MATERIALS, above.

3.1.5 Stockpiling of Material

Stockpiles of materials temporarily stored for later use shall be located in approved areas. Stockpiled material shall have a maximum height not to exceed 3 m, shall have end and side slopes not steeper than 1V on 2H. The surfaces of all stockpiles shall be sloped to readily drain and sealed by compacting. Excavation from stockpiles shall be made so as to maintain drainage at all times. No stockpiled material shall be placed within 15 m of top bank of channel excavation or structure excavation. Excavated materials which are suitable for incorporation in the backfill and embankment shall either be placed directly therein or stockpiled and subsequently used in the backfill and embankment.

3.2 FOUNDATION PREPARATION

Immediately prior to the placement of backfill and embankment material, the entire surface on or against which backfill and embankment is to be placed shall be thoroughly broken to a depth of 150 mm. If for any cause this broken surface or other surface that is to receive backfill or embankment becomes compacted in such a manner that a plane of seepage or weakness might be induced, it shall again be thoroughly broken before the depositing of material thereon, at no additional cost to the Government. The foundation receiving backfill or embankment and all partially completed backfill and embankment shall be kept thoroughly drained. No backfill or embankment shall be placed on any part of the foundation until such areas

have been inspected and approved.

3.3 PLACEMENT

3.3.1 General

Embankment shall consist of the placement of material in channel side slopes and any other area where filling is required to obtain the lines and grades above the existing ground surfaces as shown on the drawings. The foundation surface and any concrete surfaces shall be suitably moistened prior to placement of embankment against them. Embankment shall not be placed on or against the concrete riser foundation and top slab less than seven (7) days after placement of concrete.

3.3.2 Embankment

The materials shall be placed or spread in layers, the first layer not more than 150 mm in thickness and the succeeding layers not more than 300 mm in thickness prior to compaction. Layers shall slope to provide satisfactory drainage during construction. Benching into the slope of the existing embankment may be required in order to place and compact the material in horizontal layers. When the surface of any compacted layer is too smooth to bond properly with the succeeding layer, it shall be adequately scarified before the next layer is placed thereon.

3.3.3 Backfill

Backfill shall consist of the refill of excavation and holes to the existing ground surface or to the lines and grades shown on the drawings, if below the existing ground surface, and shall also consist of any material placed within one meter of the outside circumference of pipes, including any material placed as a foundation for a conduit or riser pipe. Backfill material, except where the annular filter drainage rings around the corrugated metal pipe are used, shall be placed in layers not more than 100 mm in thickness prior to compaction. See Section 02220 MISCELLANEOUS ITEMS for annular filter drainage ring construction requirements. No backfill shall be placed against slopes steeper than one (1) horizontal to one (1) vertical, unless otherwise approved.

3.3.4 Topsoil

For areas that have been lime treated, immediately prior to beginning erosion control operations as specified in Section 02960 EROSION CONTROL, topsoil shall be spread to a uniform thickness of not less than 150 mm.

3.4 COMPACTION

3.4.1 Embankment

After a layer of embankment material has been dumped and spread, it shall be harrowed or disked, if required, to break up and blend the materials, unless harrowing or discing is performed to obtain uniform moisture distribution. Harrowing or discing shall be performed with a spring-tooth harrow or other approved harrow or disc to the depth of the uncompacted layer. If one pass of the harrow or disc does not accomplish the breaking up and blending of the materials, additional passes of the harrow or disc may be required, but in no case will more than three passes of the harrow or disc on any one layer be required for this purpose. When the moisture content and the condition of the layer is satisfactory, the lift shall be

compacted to at least 90 percent of the maximum density. The maximum dry density for backfill and embankment shall be determined by the Contractor from representative samples of each type of material at each site in accordance with ASTM D 698. Test results shall be furnished to the Contracting Officer prior to placing material. Portions of the embankment which are not accessible to the roller and portions within 900 mm of concrete shall be placed in 100 mm layers and compacted with power tampers to a degree at least equal to that obtained on the other portions of the compacted embankment by rolling as specified. Dumping, spreading, sprinkling, and compacting may be performed at the same time as different points along a section when there is sufficient area to permit these operations to proceed simultaneously. A tolerance of plus or minus 50 mm will be permitted in the final dressing provided there are no abrupt humps or depressions in surfaces, the slopes are uniform, and the embankment is shaped to drain.

3.4.2 Backfill

Backfill shall be compacted by application of a motor driven hand tamper or other approved hand compaction equipment over the backfill in such a manner that every point of the surface of each layer of pipe backfill shall be compacted to a density at least 95 percent of the maximum density. Backfill around the corrugated metal pipe shall be hand compacted from the circumference of the pipe to a distance of at least one meter from the pipe. The pipe shall be held securely in place at all times while tamping is being performed to ensure proper bond between the pipe and the ground.

3.4.3 Topsoil

Compaction is not required for topsoil.

3.5 MOISTURE CONTROL

3.5.1 Embankment

The materials in each layer of the embankment shall contain the quantity of moisture within the limits specified below. The moisture content shall be as uniform as practicable throughout any one layer of materials. The upper and lower limits of moisture content for clay (CL), silt (ML) or a mixture of these shall not be more than plus or minus 3 percentage points from the optimum moisture content. The upper and lower limits of moisture content for clay (CH) shall not be more than plus or minus 6 percentage points from the optimum moisture content. The Contractor shall determine optimum moisture content from representative samples of each type of material at each site in accordance with ASTM D 698. Test results shall be furnished to the Contracting Officer prior to placing material. The method of determining the optimum moisture content shall be according to ASTM D 2216.

Material that is too wet shall be spread on the embankment and permitted to dry, assisted by discing or harrowing, if necessary, until the moisture content is reduced to a value within the specified limits. When the material is too dry, the Contractor will be required to sprinkle each layer on the embankment. Harrowing or other approved methods will be required to work the moisture into the material until a uniform distribution of moisture is obtained. Water applied on a layer of embankment shall be accurately controlled in quantity so that free water will not appear on the surface during or subsequent to rolling. Should too much water be added to any part of the embankment so that the material is too wet to obtain the desired compaction, the rolling and all work on that section of the embankment shall be delayed until the moisture content of the material is

reduced to a value within the specified limits and such delay shall not be the basis for a claim. If it is impracticable to obtain the specified moisture content by wetting or drying the material on the embankment, the Contractor may be required to prewet or dry back the material at the source. If, in the opinion of the Contracting Officer, the top or contact surfaces of a partial embankment section becomes too dry or too wet to permit suitable bond between these surfaces and the additional embankment to be placed thereon, the Contractor shall loosen the dried or wet materials by scarifying or discing to such depths as may be directed by the Contracting Officer, shall dampen or dry the loosened material to an acceptable moisture content and shall compact this layer as provided in paragraph COMPACTION, to densities comparable to the underlying embankment, at no additional cost to the Government.

3.5.2 Backfill

Moisture control for backfill shall be as specified in paragraph MOISTURE CONTROL, subparagraph EMBANKMENT, above.

3.5.3 Topsoil

Moisture control for topsoil is not required.

3.6 FIELD TESTING CONTROL

Testing shall be the responsibility of the Contractor and shall be performed by an approved commercial testing laboratory or by the Contractor subject to approval. Field density and moisture content tests shall be performed on every other lift of material placed. Field in-place density shall be determined in accordance with ASTM D 1556, ASTM D 2167, or ASTM D 2922. Moisture content tests shall be in accordance with ASTM D 3017. The calibration checks of both the density and moisture gages shall be made at the beginning of a job on each different type of material encountered and at intervals as directed. The Contractor shall submit all results of control tests and reports as well as records of correction action taken in accordance with Section 01451 CONTRACTOR QUALITY CONTROL.

3.7 SLIDES

In case sliding occurs in any part of the prescribed excavation for the inlet or outlet channel during construction or after completion but prior to acceptance, the Contractor shall remove and repair such portions of the slides as directed. In case the slide is caused through fault or negligence of the Contractor, the slide shall be removed and repaired without cost to the Government. In case the slide is not caused through fault or negligence of the Contractor, an equitable adjustment pursuant to the Contract Clause CHANGES will be made for removing and repairing the slide.

3.8 CONTROL OF WATER

3.8.1 Stream Description

The project sites are adjacent to hill streams and connecting ditches. During periods of rainfall, the streams can be subject to a fast rise and fall. No hydraulic or hydrologic data has been measured to date.

3.8.2 Contract Requirements

The Contractor shall take such action as necessary to reroute normal flow through the work sites. The Contractor shall construct such ditches, dikes, collectors, drains and sumps as may be required to collect the water within the work area, regardless of its source (this includes ground subsurface water bleeding into the excavation), and shall provide and operate pumps and discharge lines adequate for disposing of the collected water at a point or points outside the work area. When the rerouting, collection and disposal system, or a portion thereof, is no longer needed, it shall be removed. No separate measurement or payment will be made for control of water and all costs therefor shall be included in the applicable contract lump sum prices for the structure sites as listed in the Bidding Schedule.

-- End of Section --