

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE J	PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 0004		3. EFFECTIVE DATE 04-Sep-2002	4. REQUISITION/PURCHASE REQ. NO. W807PM-2176-3165		5. PROJECT NO.(If applicable)
6. ISSUED BY VBURG CONSOL CONTRACTING OFC 4155 CLAY ST VICKSBURG MS 39183-3435		CODE DACW38	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. DACW38-02-B-0039	
			X	9B. DATED (SEE ITEM 11) 12-Aug-2002	
				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 checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended.					
<p>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:</p> <p>(a) By completing Items 8 and 15, and returning <u>1</u> 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.</p>					
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. DACW38-02-B-0039, for FC/MR&T, Yazoo Basin, Mississippi, Upper Yazoo Projects, Item 5B, Channel Improvement, scheduled for bids to open on 12 September 2002 at 1400 hours is hereby amended as follows: (Continued on next page.)					
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		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
_____ (Signature of person authorized to sign)			BY _____ (Signature of Contracting Officer)		04-Sep-2002

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

BID OPENING

A new bid opening time and date of 19 September 2002, at 1400 hours, is hereby established.

TECHNICAL SPECIFICATIONS

Section 02225 DISPOSAL OF DREDGED MATERIAL is reissued in its entirety. Paragraph 3.2.2.2 AGRICULTURAL FILL has been revised. The reissued section shows both the sentence added by Amendment 0003 to paragraph 1.1.2 Option 2 - Dry Disposal Method, subparagraph c; and the revisions made by this amendment to paragraph 3.2.2.2 AGRICULTURAL FILL.

Section 02610 FLAP GATE is reissued in its entirety. Paragraph 2.1 has been revised to change "flat back" to "spigot back".

Pages revised by this amendment have the notation "Reissued by Amendment 0004" at the bottom of the page. Text added by this amendment is shown as underlined. Text deleted by this amendment is shown as overstruck.

NOTE: The CD-ROM on which this amendment is contained replaces the original issue CD-ROM. THIS CD-ROM INCLUDES THE DACW38-02-B-0039 SOLICITATION AND ITS AMENDMENTS 0001, 0002, 0003, and 0004.

Encls: Section 02225, pages 1 thru 11
Section 02610, pages 1 and 2

SECTION TABLE OF CONTENTS

DIVISION 02 - SITE WORK

SECTION 02225

DISPOSAL OF DREDGED MATERIAL

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

- 1.1.1 Option 1 - Ponded Disposal Method
- 1.1.2 Option 2 - Dry Disposal Method

PART 2 PRODUCTS

2.1 MATERIALS

PART 3 EXECUTION

3.1 GENERAL

3.2 DISPOSAL FACILITIES

- 3.2.1 General
- 3.2.2 Placement
 - 3.2.2.1 Capacity
 - 3.2.2.2 Agricultural Fill
 - 3.2.2.3 Dredged fill
 - 3.2.2.4 Tolerances
- 3.2.3 Control Structures and Control Weirs
 - 3.2.3.1 General
 - 3.2.3.2 Sharp Crested Weirs
 - 3.2.3.3 Weir Length
 - 3.2.3.4 Multiple Structures
 - 3.2.3.5 Drop Inlet Structure
 - 3.2.3.6 Weir Crest and Bottom Slope Tolerances
 - 3.2.3.7 Dredge and Weir Capacities
 - 3.2.3.8 Maintenance
- 3.2.4 Miscellaneous

3.3 EFFLUENT RETURN SYSTEM

- 3.3.1 General
- 3.3.2 Effluent Return Ditch
- 3.3.3 Drainpipe
- 3.3.4 Backwater
- 3.3.5 Damage to Existing Structures

3.4 TURBIDITY TESTING AND COMPLIANCE

3.5 UNWATERING AND DITCHING

3.6 DIKE MAINTENANCE

- 3.6.1 General

3.7 DIKE FAILURE

3.8 EFFLUENT SEDIMENTATION

- 3.8.1 Removal
- 3.8.2 Disposal

3.9 ACCESS

- 3.9.1 Landowner Access
- 3.9.2 Public Roads

-- End of Section Table of Contents --

SECTION 02225

DISPOSAL OF DREDGED MATERIAL

PART 1 GENERAL

1.1 GENERAL REQUIREMENTS

Either of the following two methods for disposal of hydraulically dredged material may be used in each disposal area.

1.1.1 Option 1 - Ponded Disposal Method

The ponded disposal method is, in general, the method that has been required in recent projects of this type, and where discharge of hydraulically dredged material into a disposal area is below the elevation of the weir as shown on the drawings. The ponded disposal method, if used, shall be in accordance with the details shown on the drawings and as specified herein.

1.1.2 Option 2 - Dry Disposal Method

The dry disposal method is, in general, where the discharge of hydraulically dredged material into a disposal area is above the elevation of the weir, with a reduced ponding depth and a lower weir elevation than that shown on the drawings (not to exceed 2 feet). The dry disposal method, if used, shall be in accordance with details shown on the drawings for ponded disposal and as specified herein, and in accordance with the following exceptions and additional requirements (applicable to the dry disposal method only):

- a. The weir lengths shall be maintained as specified herein and as shown on the drawings. The weir elevations shall not be lowered more than 2 feet below the final grade elevation or to an elevation approved by the Contracting Officer.
- b. The Contractor shall construct a sloping berm in front of the weir, using land based equipment, to an elevation that is approximately 3 inches below the weir crest at the weir and sloping downward away from the weir. The berm shall extend approximately 200 feet from the weir and have an elevation that is 1 foot below the weir crest at its outer edge.
- c. The Contractor shall establish vegetation on the entire sloping berm surface as follows: Lightly disk the berm, and plant (by broadcast seeding) a 100 foot strip closest to the weir in Pearl Millet at 25 pounds per acre. Adjacent to the Millet, plant a 50 foot strip of sorghum Sudan grass at 35 pounds per acre. Plant the remaining 50 strip in Milo at 20 pounds per acre. Following broadcasting and a light disking, the area shall be compacted with a conventional agricultural type roller or other approved equipment. The berm shall be watered as necessary to achieve a good stand of mature vegetation with sturdy stalks. No dredge material shall be pumped into the disposal area less than 60 days after the vegetation has been planted, unless the Contracting Officer determines that the vegetation is well established within less than 60 days. Immediately prior to dredging, at the discretion of the Contracting Officer, the sorghum Sudan and

Milo shall be rolled one time to depress the vegetation so that more mass will be available at the ponded level. For fall and winter seeding, the Contractor may substitute an approved mixture of winter vegetation or grasses such as, but not necessarily limited to, winter peas, winter wheat, and oats, provided that the Contractor achieves a good and thick stand of mature vegetation suitable for the intended purpose prior to pumping into the disposal area.

d. A minimum of 5 cross dikes shall be constructed so as to lengthen the travel distance of the flow to a maximum. Either a minimum 100 foot opening at the end of each dike or culverts adequate to carry the flow shall be provided. The openings shall be provided at alternating ends of the dikes.

e. Dredge discharge shall be directed away from the effluent return path at all times.

f. The Contractor will be allowed to discharge above the water surface in the disposal area, but not higher than 1 foot above the weir crest elevation.

g. The Contractor shall place a minimum of 18 inches of agricultural fill over the entire disposal area.

No additional measurement or payment will be made for any additional costs incurred from using either of the two allowable methods for disposal of dredged material discharge, and all costs therefor shall be included in the contract lump sum price for "Dredged Material Disposal Areas".

PART 2 PRODUCTS

2.1 MATERIALS

All wooden members used in the control structures and control weirs shall be treated with Pentachlorophenol in a 4 1/2 - 5 percent solution of heavy petroleum solvent and shall have a minimum net retention of 0.6 pound per cubic foot.

PART 3 EXECUTION

3.1 GENERAL

The material from channel excavation shall be transported and deposited in such a manner to ensure that no damage will occur to growing crops, highways, levees, drainage systems, pipelines, utility lines, structures, or other improvements. All material shall be placed in the designated disposal areas or in required embankments. Haul of any material excavated above the water surface is allowed. It is the responsibility of each prospective bidder to visit the areas as an aid in making his bid. Within 15 days after receipt of Notice of Award of the contract, the Contractor shall submit for approval, complete plans for the location, design, construction, and maintenance of the control structures, control weirs, ditches, and return structures for hydraulic dredged material disposal facilities; and complete haul and grading plans for disposal areas where materials are hauled; and complete plans for the combination thereof. For the hydraulic dredged material disposal areas, approval of the completed dikes (except erosion control), control structures, weirs ditches, return structures, and all additional requirements for dry disposal method if used, including sloped berm and approval of vegetative strips, for each

disposal area shall be obtained from the Contracting Officer before the Contractor may begin placing dredged material into that disposal area.

3.2 DISPOSAL FACILITIES

3.2.1 General

During initial filling of each disposal area, Contractor will be allowed to discharge off the dikes as long as the integrity of the dike is not in danger. When sufficient water exists in the disposal area to float a discharge line, the Contractor may elect the method of placement of material in the disposal area to be from a floating pipeline equipped with cables so that it can be moved back and forth across the width while discharging. Discharge from the floating line shall always be in a direction away from the effluent return structure. Material shall be deposited in a manner that will produce the required material surface conditions for placement of the top one foot (18 inches for dry disposal method) layer of agricultural fill in both disposal areas. Any encroachment by disposed material or effluent into the freeboard requirement shall be sufficient reason to require the Contractor to cease pumping operations until the specified freeboard is attained. A splitter spoon or other approved devices shall be installed on the discharge pipe.

3.2.2 Placement

3.2.2.1 Capacity

The disposal areas shall be filled with required excavation to not more than the elevations shown, within allowable tolerance. The elevation shown is based on quantities determined from river survey sections taken at approximate 500 foot intervals and completed April 1994 and assumes all excavated material is placed in the disposal areas.

3.2.2.2 Agricultural Fill

The top one foot (18 inches for dry disposal method), minimum, of material deposited in all disposal areas shall be agricultural fill as shown on the drawings. Agricultural fill shall consist of any or all~~either~~ of the following:

- a. Material from required channel excavation above the water surface that is excavated by land based means and hauled and placed in the disposal area as specified in Section 02229 CHANNEL EXCAVATION - LAND BASED.
- b. Material in the retaining dikes above a line from the intersection of the inside finished disposal material surface and the inside face of the dike, to the outside toe of dike.
- c. The upper material stripped or excavated from within the disposal areas prior to beginning disposal operations and temporarily stockpiled for the purpose of covering the dredged material.

The minimum one foot (18 inches for dry disposal method) layer of agricultural fill is designed to give the Contractor maximum latitude in placing dredged material below the top one foot. The means of hauling, placing and spreading agricultural fill shall be the sole responsibility of the Contractor. Where any portion of a disposal area is filled by dredge, and grading of the disposal area is necessary to meet surface

specifications, the Contractor shall have to contend with working in saturated, unconsolidated soils to depths as can be determined from the site plans for the disposal area. The Government makes no warranty as to the possibility of accomplishing these tasks with conventional earth work equipment.

3.2.2.3 Dredged fill

No dredged fill placed under this contract will be considered as "agricultural fill". Dredged fill placed below the required top one foot (18 inches for dry disposal method) layer of agricultural fill in all disposal areas may be placed by any means suited to the Contractor's operation, however the following conditions shall be met:

- a. As a minimum, the top one foot (18 inches for dry disposal method) layer of material within all disposal areas shall be agricultural fill as defined in paragraph AGRICULTURAL FILL.
- b. Dredged fill that intrudes into the space designated for agricultural fill in the disposal areas shall be removed prior to placement of agricultural fill. The Contractor shall be solely responsible for the means by which this is accomplished knowing the adverse conditions that will exist in the partially filled disposal area.
- c. The method of dredge placement shall not remove any material from the retaining dike minimum cross section requirement.
- d. Effluent shall meet all effluent quality requirements. The State of Mississippi effluent standards require that the turbidity 750 feet downstream of the discharge effluent do not exceed the upstream turbidity by more than 50 Nephelometric Turbidity Units (NTU).

3.2.2.4 Tolerances

The dredged material shall be placed to the required elevation. A tolerance of plus or minus five tenths of a foot from the required elevation will be permitted. The elevation shown is a target surface elevation for placing the dredged material. It is not a target elevation for the unwatered and consolidated surface. The Contractor shall remove all material deposited above the target elevation plus allowable tolerance.

3.2.3 Control Structures and Control Weirs

3.2.3.1 General

The Contractor shall design, construct, and maintain the control structures and control weirs. The weirs for controlling the release of return water to the river shall be designed and built so as to minimize the approach velocities to the structure and limit the flow depth over the weir. The same structures shall be used for effluent return and unwatering of the disposal area. The weirs shall be located as shown on the drawings.

3.2.3.2 Sharp Crested Weirs

Weirs shall be designed, built, and required to perform as a sharp crested weir. "Sharp crested" shall mean that the thickness of the weir is small in comparison to the depth of flow over the weir. The weirs utilized in the disposal facilities will be considered "sharp crested" when the weir

thickness is less than 2/3 the design depth of flow over the weir. The weirs shall be designed to limit the depth of flow over the weir crest to a maximum of one inch. However, if during dredging operations the depth of flow over a weir should reach a maximum depth of 2 inches or weir trough becomes drowned, dredging operations shall be halted until the depth of flow over the weir is reduced to one inch or less or drowning subsides, at which time dredging operations may resume.

3.2.3.3 Weir Length

Minimum weir lengths are specified as follows:

DREDGE DISCHARGE RATE	MINIMUM WEIR LENGTH
47 cfs	600 feet
40 cfs	520 feet
32 cfs	440 feet
26 cfs	360 feet

As an example, for a weir with a semicircular or rectangular cross section and both top edges at the required weir elevation, the lengths of both top edges would be added to determine the total length of the weir.

The longest side of the weir shall be constructed no closer to the inside crown of the adjacent paralleling dike than 400 feet.

3.2.3.4 Multiple Structures

If multiple structures are constructed in the disposal facility, the following distances shall be observed between the structures:

ADJACENT WEIR SIDE LENGTH	MINIMUM DISTANCE TO ADJACENT STRUCTURES*
180 feet	1,800 feet
220 feet	2,200 feet
260 feet	2,600 feet
300 feet	3,000 feet

*For weir side lengths other than those shown, the distance to adjacent structure(s) must not be less than ten times the weir length.

3.2.3.5 Drop Inlet Structure

The structure shall be a four-sided drop inlet weir closed by stop logs on one side. No side shall be less than 4 feet in length. All four sides of each drop inlet weir shall be constructed to and maintained at an elevation 1 foot above the weir's elevation crown prior to discharging in the disposal area drained by the structure. The stop logs shall not be installed on the dike side of the structure. Each of the nine uppermost stop logs shall be no taller than 4 inches. Taller boards may be used for the remaining stop logs. The Contractor shall minimize leakage between the stop logs. The stop logs shall extend down to the elevation of the outlet invert, providing the capability for complete disposal area unwatering. Stop logs may be removed as necessary to protect the integrity of the dikes. The outlet structure invert shall be at the minimum elevation of the finished disposal material.

3.2.3.6 Weir Crest and Bottom Slope Tolerances

A tolerance of plus or minus 1/4 inch in elevation will be allowed along the length of the weir crest. The weirs shall be designed and constructed such that the top of the weir can be adjusted to maintain this plus or minus 1/4 inch tolerance during dredge pumping operations. Weirs shall be constructed with adequate cross sectional areas and slope in the weir trough bottom to prevent drowning of the weir.

3.2.3.7 Dredge and Weir Capacities

The Contractor shall provide the dredge capacities to the Contracting Officer in cfs or gpm and the percent solids being pumped at the dredge for the maximum output. The capacity will be verified by a Contractor furnished nonintrusive constant recording flow meter. Flow will be recorded during all pumping operations. The weir flow can be verified with the weir flow equation ($Q=CLH^{1.5}$) at the disposal area. The coefficient for the equation will be 3.2 (Brator and King Sixth Edition, page 5-11). Ponding depth was based on a 4 day retention time with a 20 inch dredge pumping 32 cfs for 16 of 24 hours pumping time with a minimum of 3 feet required for equipment floating within the disposal area. If dredge capacities exceed design parameters, the Contractor shall be required to provide a minimum 4 day retention time by increasing the ponding depth using the table below. The bid package shall include the proposed dredge capacity and correct ponding depth from the following table.

DREDGE DISCHARGE VERSUS PONDING DEPTH
BY DISPOSAL AREA SIZE

Flow-cfs	20	25	30	35	40	45	50	55
Flow-cy/hr	2666	3333	4000	4666	5333	6000	6666	7333
Flow-cy/day	64000	80000	96000	112000	128000	144000	160000	176000

Retention Time-24 Hours Pumping/Day

60 Acres

3 ft	4.53	3.63	3.02	2.59	2.27	2.01	1.81	1.65
4 ft	6.04	4.83	4.03	3.45	3.02	2.69	2.42	2.20
5 ft	7.55	6.04	5.03	4.32	3.78	3.36	3.02	2.75
6 ft	9.06	7.25	6.04	5.18	4.53	4.03	3.63	3.30
7 ft	10.57	8.46	7.05	6.04	5.29	4.70	4.23	3.84

80 Acres

3 ft	6.04	4.83	4.03	3.45	3.02	2.69	2.42	2.20
4 ft	8.06	6.44	5.37	4.60	4.03	3.58	3.22	2.93
5 ft	10.07	8.06	6.71	5.75	5.03	4.48	4.03	3.66

100 Acres

3 ft	7.55	6.04	5.03	4.32	3.78	3.36	3.02	2.75
4 ft	10.07	8.06	6.71	5.75	5.03	4.48	4.03	3.66
5 ft	12.59	10.07	8.39	7.19	6.29	5.59	5.03	4.58

3.2.3.8 Maintenance

The Contractor shall maintain the structures in good working order and fully operable condition throughout the entire contract. Weirs shall be

maintained in good working order and fully operable throughout the period of disposal operations at a disposal facility.

3.2.4 Miscellaneous

All control structures, control members, and pipes shall remain Government property upon completion of the contract. During the performance of this contract, the Contractor shall remove water surface control members as necessary for mosquito control, sediment consolidation, and greater storage. These removed members shall be stored by the Contractor as directed. The Contractor shall not permanently pond water within the dredged material disposal areas.

3.3 EFFLUENT RETURN SYSTEM

3.3.1 General

The Contractor shall design, construct and maintain a return system to carry the dredge effluent flow from each disposal area outlet structure to the receiving stream to enter the receiving stream 5 feet below its water surface and parallel with the water surface with a 3 outlet manifold system. Each system must convey flow into the river without deteriorating or eroding the bank. All damage and erosion between each disposal facility and the river surface shall be satisfactorily corrected by the Contractor within 5 working days after the occurrence. If the effluent return system fails to operate as designed, dredging operations shall be halted until all deficiencies are corrected.

3.3.2 Effluent Return Ditch

The Contractor may elect to utilize existing ditches, construct new ditches, or utilize some other method upon approval. If existing ditches are used, the Contractor shall restore the ditches to their capacity prior to the Contractor's operations. The effluent return ditch shall be contained within the rights-of-way shown on the drawings. The design velocity in the return ditch shall not exceed 2 feet per second. Ditch protection, approved by the Contracting Officer, shall be provided by the Contractor at the location where dredge effluent flow enters the return ditch from the disposal area outflow structure and at any other locations in the return ditch where scour and erosion problems can occur.

3.3.3 Drainpipe

In each existing or newly constructed effluent return ditch, a drainpipe of sufficient diameter to collect all flow in the return ditch at a point prior to its confluence with the receiving stream and to divert the effluent flow under the receiving stream water surface a minimum of 5 feet and parallel to flow shall be installed. Effluent returned to the river through existing drainage structures with protected channels will require the construction of underwater return drainpipes. This drainpipe shall be constructed and maintained to prevent seepage of flow in the ditch around the pipe to the receiving stream. The drainpipe shall be installed in the effluent return ditch prior to any effluent discharge being pumped into the disposal area. After the disposal area has been unwatered, the Contractor shall remove the drainpipe structure from the effluent return ditch except where noted on the drawings to be left in place. Removed drainpipe structures shall remain the property of the Contractor and shall be removed from the site of work.

3.3.4 Backwater

Backwater shall be confined to the limits of the effluent return ditch and shall not impede the design discharge of the effluent weir structure.

3.3.5 Damage to Existing Structures

The Contractor shall be responsible for any damage to flood gates and/or inlet and outlet channels and drainage ditches resulting from his operations.

3.4 TURBIDITY TESTING AND COMPLIANCE

a. The Contractor shall take daily turbidity readings in accordance with the procedures outlined in STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, 1989, 17th edition. A portable turbidimeter that is properly calibrated shall be adequate for taking the turbidity readings. The testing sites shall be as follows:

- (1) 100 feet upstream on the Tallahatchie River of the effluent return confluence with the receiving stream for both Disposal Areas No. 1 and No. 2.
- (2) Immediately downstream on the Tallahatchie River of the effluent return confluence with the receiving stream for both Disposal Areas No. 1 and No. 2.
- (3) 750 feet downstream of testing site (2).
- (4) 750 feet downstream of the dredge.
- (5) 100 feet upstream of the dredge.

Each week the Contractor shall submit signed and dated turbidity Testing Reports to the Contracting Officer and to:

U.S. Army Engineer District, Vicksburg
ATTN: CEMVK-ED-HW
4155 Clay Street
Vicksburg, MS 39183-3435
Telephone (601) 631-7221
Fax (601) 631-7231
e-mail Dave.R.Johnson@MVK02.usace.army.mil

b. If the turbidity increases by more than 50 NTU's from testing site (1) to testing site (3) on 2 consecutive days, the Contractor shall immediately notify the Contracting Officer. Turbidity testing shall continue as long as water is being returned to the river from a disposal area.

3.5 UNWATERING AND DITCHING

a. The Contractor shall delay unwatering of each disposal area for 30 days after the last pumping into the disposal area. The disposal area unwatering shall be accomplished by removing only the uppermost stop log of the control structure until the disposal area has been unwatered (not to exceed 4 inches per 24 hours) to the elevation of the next stop log. This process shall be repeated until the disposal area is drained of all ponded water. In no case shall the Contractor allow settled

dredged slurry to crest the stop logs.

b. Within 60 calendar days of unwatering each disposal area, the area shall be ditched as necessary to maintain the surface free of all standing water. The retaining dikes shall be breached to the elevation of the bottom of the perimeter ditches at intervals not exceeding 1,000 feet. Material from construction of the ditches and of the dike breaching shall be placed on the dikes.

3.6 DIKE MAINTENANCE

3.6.1 General

The Contractor shall maintain the retaining dikes against blowouts, leaks, erosion, and all other deterioration in order to maintain the integrity of the retaining dikes and to protect adjacent property.

3.7 DIKE FAILURE

If the retaining dikes fail, for any reason, during hydraulic dredging operations, the Contractor shall immediately cease pumping into the affected disposal area until the retaining dikes have been restored to the satisfaction of the Contracting Officer. The Contractor shall remove all material which is deposited in the dredged channel and in all other locations as a result of such failure. In the event the failure is caused through the fault or negligence of the Contractor, as determined by the Contracting Officer, restoration of the dikes and removal of material shall be by and at the expense of the Contractor. In the event the failure is not caused through the fault or negligence of the Contractor, payment for restoration of the dikes and for removal of material will be made in accordance with the Contract Clause CHANGES.

3.8 EFFLUENT SEDIMENTATION

3.8.1 Removal

In areas not yet accepted or not yet dredged, the Contractor shall remove all dredging effluent sedimentation from the channel at no expense to the Government. In areas previously accepted for payment, and in areas of the channel where no work is required, the Contractor shall remove, at no expense to the Government, all effluent sedimentation from the channel within 500 feet of the point where the effluent is returned to the channel.

3.8.2 Disposal

All excavated material shall be placed in the disposal facilities. Should the Contractor refuse, or delay compliance with the above requirement, such material may be removed by the Contracting Officer, and the cost of such removal may be deducted from any money due or to become due the Contractor.

3.9 ACCESS

3.9.1 Landowner Access

The Contractor shall provide all landowners access across the pipelines and dredge effluent return system during the performance of this contract and until the system is removed. Any drainage pipes placed in ditches for access shall remain in place upon completion of this contract.

3.9.2 Public Roads

If influent or effluent piping crosses public roads, the Contractor shall be responsible for obtaining all necessary permits and permissions for conducting work on public road rights-of-way. (See the Section 01000 GENERAL CONTRACT REQUIREMENTS, paragraph RIGHTS-OF-WAY and the Contract Clause entitled PERMITS AND RESPONSIBILITIES.) Traffic on public roads shall remain open with access provided across the pipelines and dredge effluent return system during the performance of this contract and until the system is removed. The Contractor is responsible for designing, constructing, maintaining, and removing such all weather access(s), including all required traffic control and warning signs, at no additional cost to the Government.

-- End of Section --

SECTION TABLE OF CONTENTS

DIVISION 02 - SITE WORK

SECTION 02610

FLAP GATE

PART 1 GENERAL

1.1 SUBMITTALS

PART 2 PRODUCTS

2.1 FLAP GATE AND APPURTENANCES

PART 3 EXECUTION

3.1 INSTALLATION

-- End of Section Table of Contents --

SECTION 02610

FLAP GATE

PART 1 GENERAL

1.1 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 01330 SUBMITTAL PROCEDURES:

SD-04 Drawings

Flap Gate and Appurtenances; GA.

The Contractor shall submit shop drawings showing the details of the design and construction of the gate and appurtenances to be furnished.

PART 2 PRODUCTS

2.1 FLAP GATE AND APPURTENANCES

The flap gate and appurtenances for the 48-inch corrugated metal pipe shall be designed to allow free flow and prevent back flow through the pipe. The gate shall be round with a ~~flat~~ flatspigot back and shall be able to withstand a seating head of 25 feet. The gate shall have bronze or stainless steel bolts, studs, pins and links, and bronze bushings. They shall be furnished complete with all appurtenances necessary for installation. The gate, except bronze or stainless steel, shall be painted according to the manufacturer's standard practice.

PART 3 EXECUTION

3.1 INSTALLATION

The flap gate shall be installed in strict accordance with the manufacturer's instructions and drawings.

-- End of Section --