

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES	
			J	1	2
2. AMENDMENT/MODIFICATION NO. 0004	3. EFFECTIVE DATE 13-Sep-2002	4. REQUISITION/PURCHASE REQ. NO. W807PM-2198-4777		5. PROJECT NO.(If applicable)	
6. ISSUED BY CONSTRUCTION & A/E BRANCH 4155 CLAY STREET 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-0042	
			X	9B. DATED (SEE ITEM 11) 16-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-0042 for FC/MR&T, West Bank Mississippi River Levees, Willow Point - Youngs Point, LA, Levee Enlargement, Item 457-R, scheduled for bids to open on 17 September 2002 at 1400 hours is hereby amended as follows: <p style="text-align: center;">BID OPENING DATE</p> A new bid opening date and time of 24 October 2002 at 1400 hours is hereby established.					
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)		13-Sep-2002	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

TECHNICAL SPECIFICATIONS

Section 02542 STONE DITCH PROTECTION is reissued in its entirety. The riprap size has been changed to R400 to agree with the drawings.

RIPRAP GRADATION CURVE, "R400", has been added.

Delete the RIPRAP GRADATION CURVE, "R200", as R200 riprap is not required.

Section 02610 WATER CONTROL GATES is reissued in its entirety.

Pages revised by this amendment have the notation "Revised 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. The page added by this amendment has the notation "Added by Amendment 0004" at the bottom of the page.

Encls: Section 02542, pages 1 thru 7
RIPRAP GRADATION CURVE, "R400"
Section 02610, pages 1 thru 3

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SECTION 02542

STONE DITCH PROTECTION

PART 1 GENERAL

1.1 GOVERNMENT TESTING AND STUDIES

1.1.1 Stone

1.1.1.1 General

All stone shall be durable material as approved by the Contracting Officer. Stone shall be of a suitable quality to ensure permanence in the structure and in the climate in which it is to be used. It shall be free from cracks, seams and other defects that would tend unduly to increase its deterioration from natural causes. The stone shall be clean and reasonably free from earth and dust and shall contain no refuse.

1.1.1.2 Sources

Stone shall be furnished from any of the sources listed at the end of this section.

a. List of Sources. On the basis of information and data available to the Contracting Officer, stone meeting the quality requirements of these specifications has been produced from the sources listed at the end of this section.

b. Selection of Source. The Contractor shall designate in writing only one source or one combination of sources from which he proposes to furnish stone. It is the Contractor's responsibility to determine that the stone source or combination of sources selected is capable of supplying the quantities and gradation needed and at the rate needed to maintain the scheduled progress of the work.

c. Acceptance of Materials. Acceptance of a source of stone is not to be construed as acceptance of all material from that source. The right is reserved to reject materials from certain localized areas, zones, strata, or channels, when such materials are unsuitable for stone as determined by the Contracting Officer. Materials produced from a listed or unlisted source shall meet all the requirements herein.

1.2 SUBMITTALS

Government approval is required for all 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-09 Reports

Gradation Test; FIO.

The gradation tests shall be submitted using the GRADATION TEST DATA SHEET enclosed at end of this section.

SD-13 Certificates

Riprap; FIO.

Certificates of compliance attesting that the riprap materials meet specification requirements shall be submitted to the Contracting Officer.

PART 2 PRODUCTS

2.1 RIPRAP

2.1.1 General

Only quarried stone shall be used. Riprap quality shall be as specified in paragraph GOVERNMENT TESTING AND STUDIES, subparagraph STONE. Gradation shall conform to the table(s) below and to the plate(s) attached at the end of this section. A maximum of 10 percent flat and elongated pieces will be acceptable. A flat and elongated piece of riprap is defined as a stone with either the width or thickness of the piece being less than one-third of the length.

TABLE I
(FOR RIPRAP "R200400")

PERCENT LIGHTER BY WEIGHT (SSD)	LIMITS OF STONE WEIGHT, LB.
100	200 - 80 400 - 160
50	80 - 40 160 - 80
15	40 - 10 80 - 30

2.1.2 Gradation Test

The Contractor shall perform a gradation test or tests on the riprap at the quarry in accordance with paragraph STANDARD TEST METHOD FOR GRADATION OF RIPRAP AND GRADED STONE. The sample shall be taken by the Contractor in the presence of the Contracting Officer. The Contractor shall notify the Contracting Officer not less than 3 days in advance of each test. In the event of unavailability of a Government representative; the Contractor shall perform the tests and certify to the Contracting Officer that the riprap shipped complies with the specifications. At least one gradation test shall be performed. The gradation test shall be reported using the forms, GRADATION TEST DATA SHEET and ENG FORM 4794-R, attached at end of this section. The sample shall consist of not less than 15 tons of R90 riprap, and shall be collected in a random manner which will provide a sample which accurately reflects the actual gradation arriving at the jobsite. Failure of the test on the initial sample and on an additional sample will be considered cause for rejection of the quarry and/or quarry

process, and all riprap represented by the failed tests shall be set aside and not incorporated into the work. Any additional tests required because of the failure of an initial test sample will not be considered as one of the other required tests. If collected by the truckload, each truckload shall be representative of the gradation requirements. The Contracting Officer may direct additional testing of the riprap at the project site if the riprap appears by visual inspection, to be out of gradation. The Contracting Officer may direct this testing under the Contract Clause INSPECTION OF CONSTRUCTION. The Contractor shall provide all necessary screens, scales and other equipment, the operating personnel, and shall grade the sample. Certification and test results shall represent riprap shipped from the quarry. Certification and tests results must be received by the Contracting Officer at the jobsite before the riprap is used in the work.

2.1.3 Riprap Stockpile

Temporary storage of riprap at the worksite will not be permitted.

PART 3 EXECUTION

3.1 BASE PREPARATION

Areas on which riprap are to be placed shall be graded and/or dressed to conform to cross sections shown on the contract drawings within an allowable tolerance of plus 4 inches and minus 2 inches from the theoretical lines and grades shown. The prepared base shall be approved by the Contracting Officer. Where such areas are below the allowable minus tolerance limit they shall be brought to grade by fill with earth similar to the adjacent material and then compacted to a density equal to the adjacent in place material. No additional payment will be made for material thus required. Immediately prior to placing the riprap, the prepared base will be inspected by the Contracting Officer and no material shall be placed thereon until that area has been approved.

3.2 PLACEMENT OF RIPRAP

3.2.1 General

Riprap shall be placed within the limits shown on the drawings.

3.2.2 Placement

Riprap shall be placed in a manner which will produce a reasonably well-graded mass of rock with the minimum practicable percentage of voids, and shall be constructed, within the specified tolerance, to the lines and grades shown on the contract drawings. A tolerance of plus 2 inches and minus 4 inches from the slope lines and grades shown on the contract drawings will be allowed in the finished surface of the riprap, except that the extreme of this tolerance shall not be continuous over an area greater than 100 square feet. The average tolerance of the entire job shall have no more than 50 percent of the tolerances specified above. Riprap shall be placed to its full course thickness in one operation. The large stones shall be well distributed and the entire mass of stones in their final

position shall be graded to conform to the gradation specified in paragraph RIPRAP, subparagraph GENERAL. The finished riprap shall be free from objectionable pockets of small stones and clusters of larger stones. Placing riprap in layers will not be permitted. Placing riprap by dumping it into chutes, or by similar methods likely to cause segregation of the various sizes, will not be permitted. Placing riprap by dumping it at the top of the slope and pushing it down the slope will not be permitted. No equipment shall be operated directly on the completed stone protection system. The desired distribution of the various sizes of stones throughout the mass shall be obtained by selective loading of the material at the quarry or other source by controlled dumping of successive loads during final placing or by other methods of placement which will produce the specified results. Each truckload shall be representative of the gradation requirements. All dump trucks used in placing the riprap shall be equipped with bottom hinged tailgates. The gate releasing mechanism shall be arranged so that it may be operated only from, at, or near the front of the truck. Rearranging of individual stones will be required to the extent necessary to obtain a reasonably well-graded distribution of stone sizes as specified above. The Contractor shall maintain the stone protection until accepted by the Contracting Officer and any material displaced prior to acceptance shall be replaced at his expense and to the lines and grades shown on the contract drawings.

3.3 TESTS

3.3.1 General

The Contractor shall perform gradation tests to assure compliance with contract requirements and shall maintain detailed records.

3.3.2 Reporting

Reporting shall be in accordance with paragraph GRADATION TEST.

3.3.3 Standard Test Method for Gradation of Riprap and Graded Stone

- a. Select a representative sample (Note No. 1), weigh and dump on hard stand.
- b. Select specific sizes (see example) on which to run "individual weight larger than" test. (See Note No. 2). Procedure is similar to the standard aggregate gradation test for "individual weight retained".
- c. Determine the largest size stone in the sample. (100 percent size)
- d. Separate by "size larger than" the selected weights, starting with the larger sizes. Use reference stones, with identified weights, for visual comparison in separating the obviously "larger than" stones. Stones that appear close to the specific weight must be individually weighed to determine size grouping. Weight each size group, either individually or cumulatively.
- e. Paragraph d above will result in "individual weight retained" figures. Calculate individual percent retained (heavier than)

cumulative percent retained and cumulative percent passing (lighter than). Plot percent passing, along with the specification curve on ENG Form 4794-R.

NOTE NO. 1: Sample Selection: The most important part of the test and the least precise is the selection of a representative sample. No "standard" can be devised; larger quarry run stone is best sampled at the shot or stockpile by given direction to the loader; small graded stone is best sampled by random selection from the transporting vehicles. If possible, all parties should take part in the sample selection, and agree before the sample is run, that the sample is representative.

NOTE NO. 2: Selection of Size for Separation: It is quite possible and accurate to run a gradation using any convenient sizes for the separation, without reference to the specifications. After the test is plotted on a curve, then the gradation limits may be plotted. Overlapping gradations with this method are no problem. It is usually more convenient, however, to select points from the gradation limits, such as the minimum 50 percent size, the minimum 15 percent size, and one or two others, as separation points.

F O R

E X A M P L E

O N L Y

EXAMPLE GRADATION
SPECIFICATIONS

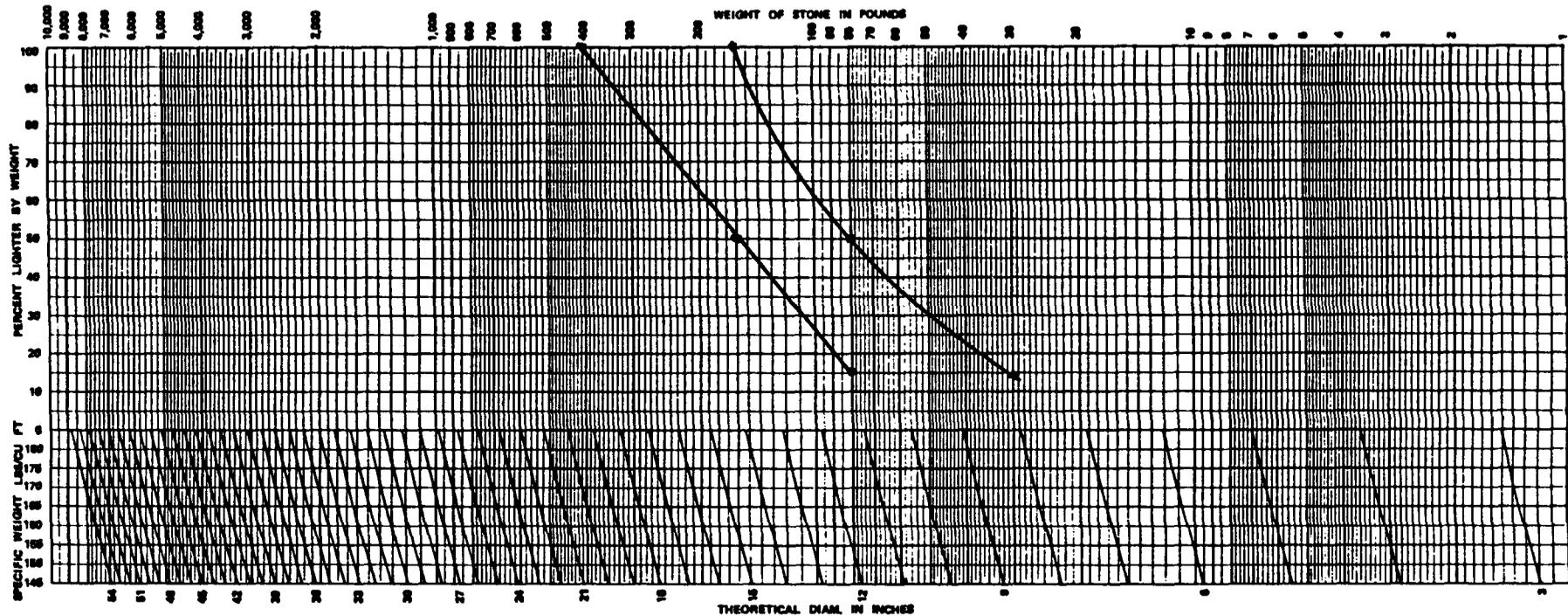
STONE WEIGHT IN LBS.	PERCENT LIGHTER BY WEIGHT
400-160	100
160-80	50
80-30	15

EXAMPLE WORKSHEET

STONE SIZE LBS.	INDIVIDUAL WT. RETAINED	INDIVIDUAL PERCENT RETAINED	CUMULATIVE PERCENT RETAINED	PERCENT PASSING
400	0	0	0	100
160	9,600	30	30	70
80	11,200	35	65	35
30	8,000	25	90	10
-30	3,200	10	100	-
TOTAL	<u>32,000</u> lbs.			

NOTE: Largest stone 251 lbs.

--End of Section--



"R 400"

SPECIFIC WEIGHT OF STONE _____ LBS/CU FT

PROJECT _____

AREA _____

DATE _____ BY _____

RIPRAP GRADATION CURVES

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-- End of Section Table of Contents --

SECTION 02610

WATER CONTROL GATES

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

Water Control Gates and Appurtenances; GA.

The Contractor shall submit shop drawings and all applicable manufacturer's data showing the details of the design and construction of all water control gates and appurtenances to be furnished.

PART 2 PRODUCTS

2.1 COMBINATION FLAP AND SLIDE GATES AND APPURTENANCES

The combination flap and slide gates for the 36-inch diameter corrugated metal pipe culverts at the locations shown on the drawings shall be designed to allow free flow and prevent back flow. The gates shall be round with a spigot back and shall be able to withstand a seating head of 10 feet. The gates and appurtenances shall be manufactured as a self-contained unit. The gate shall have bronze or stainless steel bolts, studs, pins and links, and bronze bushings. Gates shall be furnished complete with all appurtenances necessary for installation. The gate, except bronze or stainless steel, shall be painted in accordance with the manufacturer's standard practice or recommendation. The hand wheel shall be located 4 to 6 inches above the top of the riser. Approval of all gates shall be obtained before delivery to the work site.

2.2 SLIDE GATE AND APPURTENANCES

~~The slide gate for the 24-inch corrugated metal pipe culvert shall be similar and equal to Model C20s Waterman canal gate as manufactured by the Waterman Industries Inc. or Model 20-10C Hydro Gate medium duty sluice gates as manufactured by the Hydro Gate Corporation. Any other manufactured gate that is similar and equal to the above gates and meets the following criteria may be submitted for approval. Approval of all the slide gates shall be obtained before delivery to the work site. The slide gate and appurtenances for the 24-inch diameter corrugated metal pipe culvert at the locations shown on the drawings shall be designed to prevent back flow. The gate shall be cast iron and round with a spigot back and shall be able to withstand a seating head of 20 feet and a unseating head~~

of 10 feet. The gate and appurtenances shall be manufactured as a self-contained unit. The gate shall have bronze or stainless steel bolts, studs, pins and links, and bronze bushings. The gate shall be furnished complete with all appurtenances necessary for installation. The gate, except bronze or stainless steel, shall be painted in accordance with the manufacturer's standard practice or recommendation. The hand wheel shall be located ~~at~~ 4 to 6 inches above the top of the riser.

2.3 FLAP GATE AND APPURTENANCES

The flap gate and appurtenances for the 24-inch corrugated metal pipe culvert at the locations shown on the drawings shall be designed to allow free flow and prevent back flow through the structure. The gate shall be round with a spigot back and shall be able to withstand a seating head of 10 feet. The gate shall have bronze or stainless steel bolts, studs, pins and links, and bronze bushings. The gate shall be furnished complete with all appurtenances necessary for installation. The gate, except bronze or stainless steel, shall be painted in accordance with the manufacturer's standard practice or recommendation. Approval of the flap gate shall be obtained before delivery to the work site.

PART 3 EXECUTION

3.1 INSTALLATION

The water control gates shall be installed on the culverts at the locations shown on the drawings and in strict accordance with the manufacturer's instructions and drawings. Riser pipe shall be constructed in accordance with the applicable provisions of Section 02719 CORRUGATED METAL PIPES, paragraph RISER.

3.2 CONCRETE WORK

Concrete riser foundation shall be constructed in accordance with the details shown on the drawings. Concrete work for the concrete riser foundation shall be in accordance with all requirements for concrete specified in Section 05560 CATTLE GUARDS, paragraph SUBMITTALS and paragraph CONCRETE WORK.

-- End of Section --