

2. AMENDMENT/MODIFICATION NO. <b>005</b>	3. EFFECTIVE DATE <b>October 7, 1999</b>	4. REQUISITION/PURCHASE REQ. NO. <b>99-302100014</b>	5. PROJECT NO. (If applicable)
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6. ISSUED BY <b>Bureau of Reclamation Lower Colorado Region P.O. Box 61470 Boulder City NV 89006-1470</b>	CODE <b>LC-3117</b>	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)	(T)	9A. AMENDMENT OF SOLICITATION NO. <b>99-SI-30-0011</b>
	T	9B. DATED (SEE ITEM 11) <b>August 20, 1999</b>
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 13)

**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, [ X ] is not extended.

Offerors 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 1 copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. **FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER.** If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

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

(T)	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 and return \_\_\_\_\_ copies to the issuing office.

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

**Project Title:** Two Mile Wash Restoration, Kaibab-Paiute Indian Reservation, Kaibab, Arizona

**Purpose of Amendment:** The purpose of this amendment is to revise Division 5 of the specifications.

**Receipt of Bids:** The date for receipt of bids remains October 14, 1999. The time and place for receipt of bids remain 2:00 p.m., local time, at the Bureau of Reclamation, Lower Colorado Regional Office, Nevada Highway and Park Street, Annex Building, Room AA-123, Boulder City, Nevada.

**Acknowledgment:** See block 11 above regarding how to acknowledge this amendment. The acknowledgment must be received at the place designated for receipt of bids (see block 8 of the "Solicitation, Offer, and Award," Standard Form 1442).

**Bid Modification:** See block 11 above if you have submitted your bid and now desire to modify it or withdraw it.

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	16B. UNITED STATES OF AMERICA
15C. DATE SIGNED	16C. DATE SIGNED
_____ (Signature of person authorized to sign)	BY _____ (Signature of Contracting Officer)

Description of the Changes:

1. In Division 5 -- Sheet Piling Cutoff Barrier of the specifications:
  - a. The "Properties of sections" table was revised, and
  - b. Vinyl was added as an acceptable sheet piling material.

***Instructions:***

**Remove**  
Pages C-35 and C-36

**Replace with Revised**  
Pages C-35 and C-36

DIVISION 5 -- SHEET PILING CUTOFF BARRIER

SECTION 5.1--SHEET PILING CUTOFF BARRIER

5.1.1. Sheet Piling Cutoff Barrier

% a. General - The sheet piling cutoff barrier shall consist of ~~42~~ **52 linear feet of** twenty-foot interlocking piles driven to the point of refusal or to the elevation shown on the drawings.

b. Materials - Sheet piling - ~~The steel sheet piling shall be PS28 as manufactured by United States Steel or equal.~~ **Sheet piling may be steel or vinyl.** The steel sheet piling shall conform to the requirements of ASTM designation: A328. Piling shall be furnished, set, and driven in full length unspliced sheets unless otherwise approved. All the piling shall be products of the same manufacturer. The manufacturer's logo and ASTM designation: A 328 **(steel sheeting)** shall be stamped on each sheet piling. All Contractor-furnished piling shall be new and unused. Piling shall have the properties equivalent to those listed in the following table:

Properties of sections

Type of section	Nominal web thickness (in.)	Section modulus per lin. ft. of wall (in. <sup>3</sup> )	Weight per square ft. of wall (lb.)	Weight per lin. ft. of pile (lb.)
PS28	<del>3/8</del> <b>0.25-0.375</b>	<b>2.4 or greater</b>	28.0	35.0

c. Submittals. - The Contractor shall submit the following:

- (1) Material certification for sheet piling.
- (2) Method of driving sheet piling.

d. Installation -

(1) Placing sheet piling. - Piling shall be placed in a plumb position with each pile interlocked with adjoining piles for its entire length so as to form a continuous diaphragm. Plumbness is defined as a deviation from the vertical of less than one-eighth of an inch per foot of length along the interlock. Interlocks shall be properly engaged with the thumb of each pile gripped by the thumb and finger of the adjacent pile. All piling shall be placed as true to line as required to meet the limits for plumbness.

(2) Driving sheet piling. - Piles which are to be driven shall be driven by approved methods in such a manner as not to subject the piles to damage and to ensure proper interlocking throughout the length of the piles. Pile hammers shall be of approved sizes and

types necessary to install the piling as specified, and shall be maintained in proper alignment during driving operations by use of suitable leads or guides attached to the hammer. A protecting cap of approved design, consisting of steel casing slotted to fit the top of the sheet pile shall be employed when driving with an impact hammer to prevent damage to the tops of the piling. All sheets shall be driven to the elevation shown on the drawing or to the point of refusal. Refusal shall be defined as a minimum of 10 blows per inch. Adequate precautions shall be taken to ensure that piles are driven plumb. Piles driven out of interlock with adjacent piles, or otherwise damaged, shall be removed and replaced with a pile that meets the specifications at the Contractor's expense.

(3) Cutting - The Contractor shall, after driving the sheet piling to refusal, leave the sheet piling at the elevation shown on the drawings. Piles extending above this elevation shall be cut off to required grade. Piles cut off by burning shall be burned off using a straightedge to avoid abrupt nicks which could start fractures and splits.

(4) Seepage holes - Seepage holes shall be provided on every sheet pile prior to driving. The seepage holes shall be 2 inches in diameter and spaced every two feet vertically from within 2 feet of the tip and to within 5 feet of the top.

e. Measurement and payment - Payment for placing and driving the sheet pile will be made at the applicable lump sum price bid therefor in the schedule. This lump sum price shall include all cost of delivering, handling, driving, cutting off excess lengths, cutting or drilling seepage holes and all other material and work incidental to complete the work as specified in this paragraph.