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|---|-------------------------------|--|--------------------------------|
| 2. AMENDMENT/MODIFICATION NO. R0002 | 3. EFFECTIVE DATE 01/15/04 | 4. REQUISITION/PURCHASE REQ. NO. | 5. PROJECT NO. (If applicable) |
| 6. ISSUED BY US ARMY ENGINEER DISTRICT, AK CEPOA-CT (DACA85) PO BOX 6898 ELMENDORF AFB, AK 99506-6898 CHRISTINE DALE (907)753-5618 | CODE J4P0000 | 7. ADMINISTERED BY (If other than Item 6) CODE US ARMY ENGINEER DISTRICT, AK CEPOA-CO-SAO PO BOX 6898 ELMENDORF AFB, ALASKA 99506-6898 DACA85 | |

| | | |
|---|-----|---|
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) | (X) | 9A. AMENDMENT OF SOLICITATION NO. W911KB-04-R-0001 |
| | X | 9B. DATED (SEE ITEM 11) 12/19/03 |
| | | 10A. MODIFICATION OF CONTRACT/ORDER NO. |
| | | 10B. DATED (SEE ITEM 13) |
| CODE: 089C4 | | FACILITY CODE |

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.

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 0 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 ACKNOWLEDGEMENT 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)

PROJECT TITLE AND LOCATION: 2004-2005 Maintenance Dredging, Port of Anchorage, Alaska

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

(X) 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.)

PROPOSAL DUE DATE IS EXTENDED TO 26 JAN 2004, at 4:00 pm, local time, at US Army Corps of Engineers, 2204 Third St, Elmendorf AFB, Anchorage, Alaska.

NOTICE TO OFFERORS: PLEASE MARK OUTSIDE OF ENVELOPE IN WHICH BID IS SUBMITTED TO SHOW AMENDMENTS RECEIVED. YOU ARE REQUIRED TO ACKNOWLEDGE RECEIPT OF THIS AMENDMENT ON THE REVERSE SIDE OF STANDARD FORM 1442.

IMPORTANT NOTE: Keep in mind that the base is still under tight security measures, base access to non-DOD personnel is limited or restricted and requires extra time to process through the Boniface Gate.

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 SIGNER (Type or print) | | |
| 15B. CONTRACTOR/OFFEROR | 15C. DATE SIGNED | 16B. UNITED STATES OF AMERICA BY _____ | 16C. DATE SIGNED |
| <i>(Signature of person authorized to sign)</i> | | <i>(Signature of Contracting Officer)</i> | |

| | | | | |
|---|------------------------|---|----------------|---------------|
| SOLICITATION, OFFER, AND AWARD <i>(Construction, Alteration, or Repair)</i> | 1. SOLICITATION NUMBER | 2. TYPE OF SOLICITATION | 3. DATE ISSUED | PAGE OF PAGES |
| | W911KB-04-R-0001 | <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP) | | |

IMPORTANT - The "offer" section on the reverse must be fully completed by the offeror.

| | | |
|--------------------|--|-------------------|
| 4. CONTRACT NUMBER | 5. REQUISITION/PURCHASE REQUEST NUMBER | 6. PROJECT NUMBER |
|--------------------|--|-------------------|

| | | |
|--|--------|---|
| 7. ISSUED BY | CODE | 8. ADDRESS OFFER TO |
| | W911KB | |
| US ARMY ENGINEER DISTRICT, ALASKA CEPOA-CT (W91KB) PO BOX 6898 ANCHORAGE, AK 99506-6898 | | US Army Engineer District, Alaska 2204 3rd Street Elmendorf AFB, Alaska 99506 Mailing: PO Box 6898 Anchorage, AK 99506-6898 |

| | | |
|-------------------------|----------------|--|
| 9. FOR INFORMATION CALL | A. NAME | B. TELEPHONE NUMBER (Include area code) (NO COLLECT CALLS) |
| | CHRISTINE DALE | (907)753-5618/ email christine.a.dale@usace.army.mil |

SOLICITATION

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS (Title, identifying number, date):

NAICS: 237990
 PROJECT TITLE/LOCATION: 2004-2005 Maintenance Dredging, Port of Anchorage, Alaska
 OPEN TO LARGE AND SMALL BUSINESSES
 DESCRIPTION OF WORK: The requirements are to maintain the harbor at -38 feet M.W. Perform maintenance dredging of an estimated 1,000,000 cubic yards of material per year at the Port of Anchorage, Alaska. The Contractor is to furnish all labor, equipment, supplies, materials, supervision and other items and services necessary to accomplish the work. The period of work is May 1, 2004 to November 1, 2004 (Base Item 2004) and May 1, 2005 to November 1, 2005 (Optional Item 2005) (if awarded). Type of contract is firm-fixed price. POINT OF CONTACT IS CHRISTINE DALE, CONTRACT SPECIALIST, 907-753-5618, fax 907-753-2544 or email christine.a.dale@usace.army.mil. THIS SOLICITATION WILL BE ISSUED USING ELECTRONIC BID SETS (EBS) AND PROVIDED ON OUR WEBSITE AT NO CHARGE. <https://ebs.poa.usace.army.mil/AdvertisedSolicitations.asp>

11. The Contractor shall begin performance within 10 calendar days and complete it within _____ calendar days after receiving
 award, notice to proceed. This performance period is mandatory, negotiable. (See SCR-1 (also calendar days) _____.)

| | |
|---|--------------------|
| 12A. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE PAYMENT BONDS? (If "YES," indicate within how many calendar days after award in Item 12B.) | 12B. CALENDAR DAYS |
| <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | 10 |

13. ADDITIONAL SOLICITATION REQUIREMENTS:

A. Sealed offers in original and _____ copies to perform the work required are due at the place specified in Item 8 by 4:00 PM (hour) local time AM#2 21 Jan 04 26 Jan 04 AM#2. If this is a sealed bid solicitation, offers will be publicly opened at that time. Sealed envelopes containing offers shall be marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.

B. An offer guarantee is, is not required.

C. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.

D. Offers providing less than 60 calendar days for Government acceptance after the date offers are due will not be considered and will be rejected.

W911KB-04-R-0001
2004-2005 MAINTENANCE DREDGING – PORT OF ANCHORAGE, AK
AMENDMENT 0002 (01/15/04)

The following additional question was brought to our attention for the RFP on the 2004-2005 Maintenance Dredging Port of Anchorage, Anchorage, Alaska (W911KB-04-R-0001). Below is the question and answer for your information.

15. QUESTION: In the Question and Answer portion of the Anchorage Pre-Proposal Conference in the RFP dated December 2003, the answer to question #10 referencing STS 01016, paragraph, 3.2 that states “All surveys shall be performed on a rising tide, and shall be coordinated with the Contracting Officer's Representative and any other hydrographic survey vessels operating within the Survey Limits.” When you look in that section of the RFP, it is not there.

ANSWER: The Answer to question #10 of the Anchorage Pre-Proposal Conference dated 4 Dec 03 is incorrect. What is stated in STS 01016, paragraph 3.2 is correct and is what should be used by the offerors when writing their responses to the RFP.

SECTION 01016

SPECIAL ITEMS

PART 1 GENERAL

1.1 SCOPE

Items included in this section cover special features and/or requirements which are not specified or indicated elsewhere.

1.2 CAMP FACILITIES

There are no Government owned buildings or camp facilities at the site of the work for the Contractor's use.

1.3 UTILITIES

The furnishing of water, electricity, and other utilities for work under this contract will be the Contractor's responsibility.

1.4 INSPECTION

1.4.1 General Requirements

The Contractor shall install and maintain any required gauges, ranges, location marks and limit marks, in proper order and position. The presence of the Contracting Officer's representative shall not relieve the Contractor of the responsibility for the proper execution of the work in accordance with the specifications.

1.4.2 Contractor Furnished Equipment, Labor and Materials

The Contractor shall furnish, upon request of the Contracting Officer's representative and as required by the Government for inspection of the work, use of such boats, boatmen, laborers, and materials forming a part of the ordinary and usual equipment and crew of the dredging plant. The Contractor shall also furnish 2 VHF handheld radios and/or 2 cellular telephones, as determined by the Contracting Officer, with a local Anchorage number subscribed to a local Anchorage system.

1.4.3 Contractor Furnished Transportation

The Contractor shall furnish, upon request of the Contracting Officer's representative, suitable transportation from all points on shore designated by the representative to and from the various pieces of plant, and to and from the disposal area.

1.4.4 Noncompliance

Should the Contractor refuse, neglect, or delay compliance with these requirements, the specific facilities may be furnished and maintained by the Contracting Officer, and the cost thereof will be deducted from any amounts due or to become due the Contractor.

1.5 EXAMINATION AND ACCEPTANCE

1.5.1 Examination

As soon as practicable after completion of each phase of dredging, such work shall be thoroughly examined as specified in paragraph SURVEYS herein. Should any shoals, lumps, or other lack of depth 1 foot or more above Project Depth be disclosed by this examination, the Contractor will be required to remove same.

1.5.2 Acceptance

Acceptance of the whole or a part of the work and the deductions or corrections of deductions made thereon will not be reopened after having once been made, except on evidence of collusion, fraud, or obvious error. The acceptance of a completed section shall not change the time of payment of the retained percentages of the whole or any part of the work.

1.6 GOVERNMENT FIELD OFFICE

The Contractor shall provide the Contracting Officer's Representative with access to an office, with a desk, copier; access to a toilet; and an area to observe the project operations while protected from the weather; to the satisfaction of the Contracting Officer. All costs shall be borne by the Contractor and included in the contract price.

1.7 PARTNERING

a. The Government intends to encourage the foundation of a cohesive partnership with the Contractor and its subcontractors. This partnership will be structured to draw on the strengths of each organization to identify and achieve reciprocal goals. The objectives are effective and efficient contract performance, intended to achieve completion within budget, on schedule, and in accordance with plans and specifications.

b. This partnership will be bilateral in makeup, and participation will be totally voluntary. **AM 2... Typical partnering costs include travel and per diem costs of attendees to the partnering site, meeting room rentals, and facilitator costs.** ...AM 2 Any costs associated with effectuating this partnership will be agreed to by both parties and will be shared equally. To implement this partnership initiative, it is anticipated that within 30 days after Notice to Proceed the Contractor's on-site Project Manager and the Government's on-site representative will attend a partnership development seminar followed by a team-building workshop to be attended by the Contractor's key on-site staff and Government's personnel. Follow-up workshops will be held periodically throughout the duration of the contract, as agreed to by the Contractor and the Government.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.1 COORDINATION WITH OTHERS

3.1.1 Traffic

Dredging may be interrupted by vessels maneuvering or moored anywhere within the dredging limits. The Contractor shall keep advised of vessel arrivals and departures and conduct operations so that interference with vessels will not occur. The Contractor's operations shall allow access to and from the Port at all times. All dredging activities, with special emphasis placed upon those dredging activities near the face of the Port and P.O.L. terminal docks, shall be coordinated with the Port of Anchorage Operations Manager at (907) 343-6200. The Contractor shall also coordinate with the Port of Anchorage Operations Manager in the unlikely event that it becomes necessary to have vessels moved out of the way of dredging operations. Pursuant to Contract Clause OTHER CONTRACTS (FAR 52.236-008) of this contract, the Contractor may be required to work in close proximity to another contractor and share the same disposal site. In the event that multiple contractors are required to work within the project limits, work areas for each contractor will be coordinated with the Contracting Officer's Representative and the Port of Anchorage Operations Manager at the required weekly coordination meetings.

3.2 SURVEYS

Surveys shall be performed as follows, through the use of an independent, certified hydrographic surveyor, for the basic requirement and option year 2005 (if awarded). Pre-dredge, intermediate, and post-dredge surveys shall, as a minimum, include the entire area within the **Survey Limits** as shown on the drawings. In addition, actual area(s) dredged between successive surveys shall be shown on each successive survey to include clamshell and hopper dredges, as appropriate. Special care must be exercised to ensure that dredged areas between successive surveys are accurately reflected on the plan view survey drawings since these dredged areas will be used for computations of any dredging below the Maximum Pay Line or outside the authorized dredging prism for payment purposes. All surveys shall be made as close as practical along the face of the Port and P.O.L. 2. In addition, all pre-dredge, post-dredge, and Wednesday Intermediate surveys shall include lead-line soundings off the face of the Port and P.O.L. 2 on 50-foot stations. All surveys shall be coordinated with the Contracting Officer's Representative and any other hydrographic survey vessels operating within the Survey Limits.

3.2.1 Pre-Dredge Surveys

Phase I: A pre-dredge survey of the entire area, as described in paragraph SURVEYS and shown on the contract drawings, shall be performed prior to the start of any PHASE I dredging. The Contractor shall notify the Contracting Officer in writing of its intent to perform a phase I pre-dredge survey at least 10 days in advance. The Contractor shall complete the pre-dredge survey within 5 days prior to the start of any Phase I dredging.

Phases II and III: A pre-dredge survey of the entire area, as described in paragraph SURVEYS and shown on the contract drawings, shall be performed prior to the start of any Phase II or Phase III dredging. Intermediate survey(s) may be re-scheduled, as needed, from the specified Monday/Wednesday/Friday sequence to most accurately reflect startup

conditions for Phase II and Phase III dredging. The Contractor shall complete the pre-dredge survey(s) within 1 day prior to the start of any Phase II or Phase III dredging. If agreed to by both parties, the post-dredge surveys for completion of Phase I and Phase II dredging may also be utilized as the pre-dredge surveys for Phase II and Phase III dredging, respectively.

3.2.2 Intermediate Surveys

~~AM 2... Except as noted under paragraphs PRE-DREDGE SURVEYS and POST-DREDGE SURVEYS, Intermediate surveys shall be performed every Monday, Wednesday, and Friday from 1 August 2004 through 29 October 2004, inclusive, for Basic Item 0007 (2004), and 1 August 2005 through 28 October 2005, inclusive, for Optional Item 0014 (2005), if awarded. Except as noted under paragraphs PRE-DREDGE SURVEYS and POST-DREDGE SURVEYS, Intermediate surveys during Phase I shall be performed every Wednesday following the initial pre-dredge survey through 28 July 2004 for Basic Item 0007 (2004), and every Wednesday following the initial 2005 pre-dredge survey through 27 July 2005, inclusive, for Optional Item 0014 (2005), if awarded. Intermediate surveys during Phase II shall be performed every Monday, Wednesday, and Friday beginning 2 August 2004 through 15 September 2004, inclusive, for Basic Item 0007 (2004) and 1 August 2005 through 14 September 2005, inclusive, for Optional Item 0014 (2005), if awarded. Intermediate surveys during Phase III shall be performed every Wednesday following the Phase II post-dredge survey through 27 October 2004 for Basic Item 0007 (2004), and every Wednesday following the Phase II post-dredge survey through 26 October 2005, inclusive, for Optional Item 0014 (2005), if awarded. ...AM 2~~

3.2.3 Post-Dredge Surveys

Post-dredge survey(s) of the entire area, as described in paragraph SURVEYS above and shown on the contract drawings, shall be performed within 1 day following completion of final dredging of Basic Items 0003 (Phase I), 0004 (Phase II), 0005 (Phase II), 0006 (Phase III), and Optional Items (if awarded) 0010 (Phase I), 0011 (Phase II), and 0012 (Phase II), and 0013 (Phase III), to verify final dredging results for each phase. Intermediate survey(s) may be re-scheduled, as needed, from the specified Monday/Wednesday/Friday sequence to accurately reflect final dredging conditions for Phase I dredging. The Contractor shall notify the Contracting Officer in writing of its intent to perform any post-dredge survey at least 3 days in advance. If agreed to by both parties, the pre-dredge survey(s) for startup of Phases II and III dredging may also be utilized as the post-dredge survey(s) for Phases I and II dredging. However, if the results of any post-dredge survey indicate that the specified project depth has not been achieved for any part of the project, dredging shall resume until the condition has been corrected and the post-dredge survey shall be repeated at no additional cost to the Government. This process shall continue until the specified project depth has been achieved.

3.2.4 Equipment

The Contractor shall provide information to the Contracting Officer on electronic, horizontal positioning and recording/depth finding equipment to be used in the work, demonstrating that it will provide surveys meeting all requirements of EM 1110-2-1003 for Class 1 surveys. The information provided shall include, as a minimum, the name, model and year of

manufacture of the equipment, the electronic frequencies of the horizontal positioning and depth finding equipment, and the manufacturer's stated positioning accuracy and capability. In addition, the Contractor shall provide proof that the vessel to be used is safe and suitable for operation in the waters in which the work is to be performed, and that experienced staff will be used for operation of the vessel as well as the positioning and recording/depth finding equipment.

3.2.5 Quantity Computations and Cross-Section Drawings

Quantity computations shall be performed for all surveys. Quantity computations for pre-dredge survey(s) shall show quantities available to project depth, required over-depth, and maximum pay-line for each area, calculated using the average-end-area method and given in cubic yards. Quantity computations over the entire project area, comparing successive hydrographic surveys, shall show dredge/scour and fill (shoal) quantities to project depth, required over-depth, and maximum pay-line and any dredging below the maximum pay-line or outside the dredging prism, for each area, calculated using the average-end-area method and given in cubic yards.

Additional quantity computations, comparing successive hydrographic surveys, shall show dredged quantities only to project depth, required over-depth, and maximum pay-line, plus any dredging below the maximum pay-line or outside the dredging prism, only for area(s) dredged since the previous survey, calculated using the average-end-area method and given in cubic yards. The independent hydrographic surveyor shall furnish cross-sections for each 25-foot baseline station increment across the Survey Limits as shown on the contract drawings. For each station within the Projects Limits, side slope(s), Project Depth, Required Over-depth, and Maximum Pay-line shall be shown on the cross-sections. Paper plots of cross-sections shall be computer generated by the independent hydrographic surveyor and plotted at scales of 1 inch equals 20 feet vertical and 1 inch equals 50 feet horizontal. Cross-sections shall also be submitted as drawing files on CD-ROM disk(s), in .DWF and .DWG formats, and capable of reproducing the complete plotted cross-section drawings. Preliminary quantity and cross-section materials shall be furnished to the Contracting Officer within 4 days after completion of any survey. Final quantity and cross-section materials shall be furnished to the Contracting Officer within 10 days after completion of any survey.

3.2.6 Plan-View Drawings

3.2.6.1 Government-Furnished

The Contracting Officer will provide the Contractor with a CD-ROM disk(s) containing data in .DWF and .DWG formats capable of producing a basic survey contract drawing, complete with area map, borders, title block, and miscellaneous information.

3.2.6.2 Contractor Submittals

3.2.6.2.1 Surveys

The Contractor shall provide CD(s) of all raw survey data to the Contracting Officer's Representative in the field immediately following any survey, Also following each survey, the Contractor shall reduce the survey depth soundings for all surveys to the nearest one-tenth (0.1) foot and plot them

onto plan-view mylars computer-generated by the independent hydrographic surveyor from the CD(s) provided. Soundings shall be recorded and plotted at 25-foot intervals along 25-foot baseline station lines across the entire Survey Limits as shown on the contract drawings. Intermediate soundings shall be recorded and plotted where topographic anomalies or obstacles of 2 feet or greater are encountered. All pertinent title block information shall be printed within the block. Dredged areas shall be shown as required under SURVEYS above. Proposed title block information shall be submitted to the Contracting Officer in advance for approval. Any information found in error on the Government-furnished drawings provided in paragraph Government-Furnished above, such as vicinity maps, notes, shorelines, floats, docks, navigational aids, control coordinates, etc., shall be eradicated and replaced with accurate data as it becomes known. Each drawing shall contain all pertinent data ink-plotted by machine legibly and accurately at above spacing. Final survey drawings shall be signed, dated and stamped by the independent hydrographic surveyor, complete and ready for Government review and signatures. Survey drawings shall also be submitted on CD(s) as specified above, capable of reproducing the complete plotted survey drawings. Preliminary drawings and CD(s) including point files shall be submitted within 4 days after completion of any survey. Final drawings and CD(s), including point files, shall be submitted within 10 days after completion of any survey.

3.2.6.2.2 Dredging

The Contractor shall provide a completed ENG Form 27A - Daily Report of Operations - Hopper Dredges, to the Contracting Officer for each day of hopper dredging. A blank ENG Form 27A is attached at the end of this section.

3.2.7 Field Notes

Upon completing any survey, quantity calculations, or plan-view drawings, the Contractor shall furnish the originals of all field notes, notebooks, fathometer data, sorted and corrected electronic point files, and any other records relating to the survey or to the layout of the work to the Contracting Officer. The Contractor shall retain copies of all such materials furnished to the Contracting Officer.

3.2.8 Existing Monuments

As part of the pre-dredge survey, the position, elevation, and condition of existing control points mentioned or shown on the drawings shall be verified.

If, during the performance of the work, the Contractor removes or destroys previously set brass or aluminum survey caps, the survey caps, shall be reinstated by the Contractor at its expense.

3.2.9 Accuracy

All surveys for layout, quantities and final As-Built conditions shall conform to standard third order traverse requirements as specified in Field Manual FM 5-232, Ch. 1. The following accuracies shall be attained:

- a. Azimuth closure shall not exceed 5 seconds per angle in traverse.
- b. Distance closure error, after azimuth adjustment, shall not exceed

1 part in 5,000 parts.

- c. Traverse adjustment shall be by the Compass Rule.
- d. Levels shall be to third order standards.
- e. Vertical control shall be in feet and refer to Mean Lower Low Water Datum (MLLW = 0.0 feet).
- f. Horizontal control shall be as stated on the individual contract drawings.

3.2.10 Certification

The independent hydrographic surveyor shall be a State of Alaska Registered Land Surveyor (RLS) or have current hydrographic certification from the American Congress for Surveying and Mapping (ACSM), valid in the State of Alaska. The surveyor shall document at least 3 years of experience in hydrographic surveying of navigable channels.

3.3 EQUIPMENT

The Contractor agrees to keep equipment on the job sufficient to meet the requirements of the work. The equipment shall be in satisfactory operating condition and capable of safely and efficiently performing the work as set forth in the specifications and shall be subject to inspection by the Contracting Officer or his representative at all times. The equipment used shall be of a design and have characteristics similar to equipment which has been used successfully for a minimum of 3 years under similar conditions. Any clamshell bucket shall be at least 14 cubic yard capacity and a minimum weight of 50,000 pounds. It shall be the responsibility of the Contractor to prove the equipment has sufficient capacity to accomplish the work in a timely manner without damage to existing port facilities, or obstructing navigation. Prior to the start of any dredging, certifications showing the most recent load and performance test results, recent certification of inspection, and inspector's name, qualifications, and address shall be provided to the Contracting Officer for all cranes/derricks.

3.4 MOBILIZATION AND PROGRESS SCHEDULE

The Contractor shall furnish a complete mobilization and projected work progress schedule within 10 days of Notice to Proceed. The equipment listed, manpower to be utilized and proposed work schedule shall be furnished in sufficient detail to permit determination by the Contracting Officer that the contract requirements can readily be met.

3.5 EQUIPMENT SCHEDULE

The PLANT AND EQUIPMENT SCHEDULE attached to this section shall be completed by the Contractor as hereafter described, and submitted within 10 days of receipt of the Notice to Proceed.

3.5.1 Number

For equipment, give identifying number or name.

3.5.2 Type

Under this heading give general description. Sufficient detailed information shall be furnished to properly delineate the proposed equipment and operation.

3.5.3 Capacity

Under this heading, state the estimated capacity of the plant in cubic yards per day when working materials similar to those anticipated in the work, for each location, accounting for the variable distances to disposal sites. No reduction in the stated capacity of the plant employed on the work shall be made except by written permission of the Contracting Officer. (The measure of the "capacity of the plant" shall be its actual performance on the work which these specifications apply).

3.6 HISTORICAL QUANTITIES DREDGED

The following listed **AM#1... pay ...AM#1** quantities are those recorded for fiscal years 1999 through 2003:

| <u>Year</u> | <u>Quantity</u> |
|-------------|--|
| 1999 | 1,037.163 cy * |
| 2000 | 913,181 cy |
| 2001 | 426,430 cy AM#1... * ...AM#1 |
| 2002 | 749,454 cy |
| 2003 | AM#1... 1,000,000 844,968 ...AM#1 cy ** |

* Includes **AM#1... 565,000 563,604 ...AM#1** cy removed as emergency dredging by the Portland District's hopper dredge *ESSAYONS* **AM#1... (Completed ENG Form 27A attached) ...AM#1.**

** Includes 300,000 cy removed as emergency dredging by Manson Construction Co., Inc.'s hopper dredge *WESTPORT* **AM#1... (Completed ENG Form 27A attached) ...AM#1.**

AM#1... In addition to the above historical pay quantities, a completed ENG Form 27A for fiscal year 2004 emergency dredging by Great Lakes Dredge & Dock's hopper dredge *SUGAR ISLAND* is attached. ...AM#1

3.7 SCHEDULING

Phase I dredging shall begin no earlier than May 1, 2004, but not later than May 15, 2004 for Base Item 0003, and no earlier than May 1, 2005, but not later than May 15, 2005 for Optional Item 0010 (if awarded). Phase I is defined as dredging work required to accomplish, as a minimum, Required Over-depth for Areas 'A', 'C', and 'E', and -36 feet MLLW for Areas 'D' as shown on the contract drawings. Phase I dredging will be accepted as substantially completed at the end of Phase I if an Intermediate Survey indicates that the entire Phase I project area has been dredged and maintained at the minimum depths specified above. Phase II dredging shall commence not later than August 1, 2004 for Base Items 0004 and 0005, and not later than August 1, 2005 for Optional Items 0011 (if awarded), and 0012 (if awarded). Phase II is defined as dredging work required to accomplish, as a minimum, Required Over-depth for Areas 'A', 'B', 'C', 'D', and 'E' within the project area as shown on the contract drawings. Phase II dredging will

be accepted as substantially completed at the end of Phase II if an Intermediate Survey indicates that the entire Phase II project area has been dredged and maintained at the minimum depths specified above. Phase III dredging shall commence not later than September 16, 2004 for Base Item 0006, and not later than September 16, 2005 for Optional Item 0013 (if awarded). Phase III is defined as dredging work required to accomplish, as a minimum, Required Over-depth for Areas 'A', 'B', 'C', 'D', and 'E' within the project area as shown on the contract drawings. Phase III dredging will be accepted as substantially completed at the end of Phase III if an Intermediate Survey indicates that the entire Phase III project area has been dredged and maintained at the minimum depths specified above. Failure to perform any, or all, of these Phases may result in Liquidated Damages being assessed pursuant to Special Contract Requirement SCR-3 - LIQUIDATED DAMAGES. For clamshell dredging, Areas 'A' and 'C' are the highest priority for all phases, followed by Area 'D', then 'E'. Periods of standby are to be expected during all phases of dredging. Re-dredging during each phase shall commence immediately for any areas that are one foot or more above Required Over-depth for any portion of Areas 'A' or 'C' as shown on the contract drawings, or two feet or more above Required Over-depth for Areas 'B', 'D', or 'E' as shown on the contract drawings. In general, Phase II dredging of Area 'B' shall be accomplished from seaward and progress toward Area 'D' so as to prevent a ridge of shoal material from forming parallel to the Port. Historically, shoaling of 3,000 to 19,000 cubic yards per day occurs within the project area.

3.8 PLANT AND EQUIPMENT SCHEDULE

Minimum Plant To Be Used *

| <u>No.</u> | <u>Type</u> | <u>Capacity</u> | <u>Crew Requirements</u> | <u>Age and Condition</u> | <u>Location</u> |
|------------|-------------|-----------------|--------------------------|--------------------------|-----------------|
|------------|-------------|-----------------|--------------------------|--------------------------|-----------------|

*NOTE: In preparing the above tabulation, the Contractor shall insert the following information under the appropriate heading, using a separate line for each major item and additional pages if necessary.

a. Number. For dredges, towboats, and material scows give identifying number or name.

b. Type. Under this heading give description as follows: For clamshell dredges, show bucket capacity in cubic yards, horsepower of hoist engine, type of power, number of swings per hour, and maximum draft, beam, and length of dredge. Show pump size and pump and cutter-head horsepower (hp) for pipeline dredges. For hopper dredges, show number of drag arms including diameter(s) and length(s), hopper capacity, pump size(s) and horsepower, maximum draft, length, beam, and type and horsepower of propulsion. Show maximum draft, length, beam, and hopper capacity of material scows. Show maximum draft, length, beam, and horsepower of towboat. Indicate number of crew required for each item of plant.

AM#1...

3.9 ATTACHMENTS

Blank ENG Form 27A - Daily Report of Operations - Hopper Dredges

Completed ENG Form 27A for the Corps'hopper dredge *ESSAYONS*

Completed ENG Form 27A for Manson Construction Co., Inc.'s hopper
dredge *WESTPORT*

Completed ENG Form 27A for Great Lakes Dredge & Dock's hopper dredge
SUGAR ISLAND ..AM#1

-- End of Section --