

MUSGROVE ENGINEERING, P.A.

234 Whisperwood Way
Boise, Idaho 83709
(208) 384-0585

ADDENDUM #1

JOB #:
ME #13-115

DATE: August 30,
2013

SHEET 1 OF 7

PREPARED BY: CHARLES PAULIN

PROJECT: DPW #13603 - Chiller Replacement Idaho State Veterans Home - Lewiston, ID.

NOTICE TO BIDDERS:

THIS **ADDENDUM NO. 1** IS HEREBY MADE A PART OF THE PROJECT REQUIREMENTS AND CONTRACT DOCUMENTS FOR THE PROJECT REFERENCED ABOVE.

1. See the attached pre-bid agenda, sign in sheet, and plan holders list
 2. The following manufacturers are approved for bidding. The manufacturers listed below must meet the requirements of the plans and specifications:
 - a. Water Cooled Chiller – Clima Cool
 3. Sheet M2.1
 - a. The gas solenoid valve shall be included as part of this contract. It's up to the Prime Contractor to determine who is providing the valve within their bid price.
 - b. Keyed Note #8 – The last part of the sentence "RE: Sheet E1.1" shall be removed.
 - c. The new chillers shall be anchored to the concrete housing pad.
 4. Sheet M2.2
 - a. B&G circuit setters will be added to the chilled water outlet side of each chiller, for total of (2) circuit setters. The circuit setters shall be line size.
 5. Sheet M3.1
 - a. The Rotary Screw Water Cooled Chiller shall include (2) chillers, CH-1 and CH-2, both will be 75 tons chiller. The performance for both chillers shall match what is listed in the schedule.
 6. Specification Section 15100 – 3.6 Balancing. All water and air balancing shall be provided under this contract. See the revised specification section below.
- 3.6 BALANCING:
- A. Scope:
1. Prior to final acceptance by the Owners, all air and water systems shall be balanced to deliver the quantities as specified or directed. The air and water balancing shall be performed by an independent agency specializing in testing, adjusting, and balancing, and is certified by the Testing, Adjusting, and Balancing Bureau (TABB), and the National Environmental Balancing Bureau (NEBB). Both air and water systems shall be balanced by the same firm. Total system balance shall be in accordance with TABB.
 2. Balance contractor's main office shall be located within 150 miles from the project site.
 3. The Mechanical Contractor shall provide assistance to the Balancing Contractor by identifying all installed mechanical systems and assisting access to all installed mechanical systems. All mechanical systems shall be completely operational and functional prior to the Balancing Contractor performing his specified work.

B. Air Balancing:

1. Balancing of the air system shall consist of:

- a. Adjust all air volumes, including outside air, to the quantities shown, with allowable variation of plus 10, minus 10 percent.
- b. Record all system, outside air, zone, diffuser, grille, and register C.F.M. Use volume control devices to regulate air quantities only to the extent that adjustments do not create objectionable air motion or sound levels. Balancing Engineer shall work with the Contractor to set the CFM quantities for zone dampers or zone damper/heaters.
- c. Test and record all system static pressures, inlet and discharge the fan. Vary total system air quantities by adjustment of fan speeds. Provide drive changes as necessary. Vary branch air quantities by damper regulation.
- d. Test and record motor full load amps and nameplate amps.
- e. Adjust all automatically operated dampers, in cooperation with the Control Contractor, to the required settings. Adjust outside air automatic dampers, outside air, return air, and exhaust dampers for design conditions within specified tolerances. Where modulating dampers or economizers are provided, take measurements at full return air, minimum outside air, and 100 percent outside air mode of operation.
- f. Air systems shall be balanced in accordance with standard procedures and recognized practices of the Associated Air Balance Council, and the Testing, Adjusting, and Balancing Bureau.

C. Water Balancing:

1. Balancing of the water system shall consist of:

- a. Adjust all cooling water system flows to within 5 percent of the design quantities shown.
- b. Record all system and terminal unit g.p.m.'s.
- c. Test and record all pump and chiller entering and leaving water temperatures and pressures.
- d. Test and record all pump full load amps and nameplate amps.
- e. Mark all final positions of all balancing cocks, valves, and operators with a centerpunch.

D. Quality Assurance:

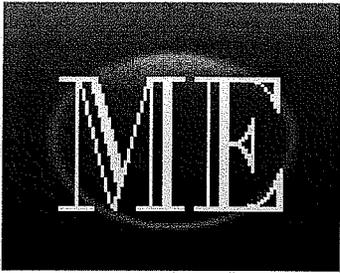
1. The Balancing Contractor shall demonstrate to the Engineer of record, flow verification for at least 10% of the balanced devices as selected by the Engineer. If more than 25% of the tested devices do not meet the designed or balance report, then the entire system balance must be rebalanced.

E. Balance Reports:

1. Submit four copies of the air and water system balance reports to the Architect/Engineer for evaluation and approval. Reports shall be on TABB/SMACNA forms that indicate information addressing each of the testing methods, readings, and adjustments.

7. Specification Section 15300 2.4 – Piping System Cleaning & Chemical Treatment: The system will be filled with 100% clean water and chemical inhibitors. Glycol is not required.

8. Specification Section 15300 2.5 – Insulation: The chilled water pump accessories shall also be insulated. This includes but is not limited to the suction diffusers, pump impeller, valves, etc.



**MUSGROVE
ENGINEERING, P.A.**

Charles E. Paulin, P.E. ~ Principal
Bill A. Carter, P.E. ~ Principal
David O. Musgrove, P.E. ~ Principal
Todd Nelson, P.E. ~ Principal

August 28, 2013

DPW
502 N. 4th Street
P.O. Box 83720
Boise, Idaho 83720-0072

Attention: Keith Dempsey

Re: Pre-bid Meeting Notes:

Project: DPW #13603 Chiller Replacement – Idaho State Veterans Home
ME # Project Number 13115

Meeting: Meeting Date: 08/28/13

Copy To: Keith Dempsey, Kelly Berard, Marvin Delp, Plan holders of record

Note: This is a record of the above meeting. Please inform us immediately of any omissions or discrepancies.

1. Introduction of project personnel:
 - a. DPW Field Representative: Keith Dempsey
 - b. DPW Project Manager: Kelly Berard
 - c. Veterans Home Building Representative: Marvin Delp
 - e. M.E. Project Manager: Charles Paulin, PE
 - f. M.E. Project Engineer: Charles Paulin, PE
2. Attendance Sign-Up Sheet is on file at the Engineer's office and attached to these minutes.
3. Project will be bid as a single project
 - a. Refer to Bid Proposal Form
 - b. Read instructions carefully and fill out all forms completely. **DO NOT LEAVE ANY BLANKS ON THE BID FORM**
 - c. Bid Opening will be September 5th, 2013 at 2:00 PM at the Lewiston DPW office.
4. Project Contract time: 180 Calendar days after notice to proceed.
5. Administrative Requirements
 - a. Public Works Contractor's License is required and the number must be indicated on the Bid Proposal. Also required for major subcontractors - see the Bid Proposal.
 - b. Acknowledgment of all Addenda is required.
 - c. Fill out price completely in both words and numbers.
 - d. Include Bid Bond (5% of total bid amount including add alternates)
 - e. Sealed envelope addressed properly on the front
 - f. Contractor's Affidavit Concerning Alcohol and Drug Free Workplace must be included with the Bid.



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- g. Bidder's Acknowledgement Statement must be included with the Bid.
6. Addenda will be published no later than four days prior to bid date and will be distributed to all plan holders of record. Addenda published and distributed later than 4 days prior to the bid date shall provide a revised bid date and time.
7. Post Bid submittals (required from successful contractor within 10 days of receipt of Letter of Intent to Award Contract – See POST-AWARD SUBMITTALS in Instructions to Bidders [ITB-7]). This will be the documentation required in the Notice of Intent to Award and generally consists of:
- a. All required bonds
 - b. Proof of Insurance
 - c. Documentation required by the Idaho State Tax Commission
 - i. Affidavit Concerning Taxes
 - ii. Public Works Contract Report
 - d. When you receive a notice of intent to award contracts get submittals for critical equipment items to Engineer as soon as possible so that we can process the submittals and you can place orders as soon as you receive your contract.
8. Post Bid submittals (required from successful bidder within 10 days after awarding of the Contract)
- a. Schedule of Values (Section 01290)
 - b. Contractor's Construction Schedule
9. Bid Documents are available for a refundable deposit of \$50.00 (See Advertisement for Bids) at:
- a. Musgrove Engineering
234 S. Whisperwood Way
Boise, Idaho 83709
Phone: 208-384-0585, Fax: 208-384-0765
 - b. Plans are also available for examination at: DPW, Idaho AGC, Blueprints Specialties, Lewiston Clarkston, Musgrove Engineering
10. Project Description and Overview:
- a. See Section 01010.
 - b. The work shall consist of providing a new chiller with new 150 ton unit. Replace concrete pad, electrical, piping, valves and controls as required. The new system should coordinate with all existing equipment
 - b. Alternates shall consist of: None
11. Miscellaneous Items To Note:
- a. On site Work Hours: Activities creating excessive noise shall occur between 7:00 am and 7:00 pm
 - b. A staging area will be provided by the Veteran Home. Security is the responsibility of the contractor.
 - c. Balancing will be under a separate, DPW contract



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12. REVIEW OF PLANS

13. QUESTIONS/COMMENTS

- a. The Veterans Home wanted to emphasize that the safety of their residences and staff is their first priority and that the Contract must put safety first.
- b. Don't let the residences get too close to the construction activities. They have a tendency to be curious.
- c. The campus is a 100% drug free work-place.

14. Site Tour

END OF MEETING NOTES



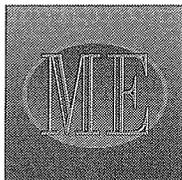
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OVER 30 YEARS OF EXCELLENCE

PROJECT: Replace Chiller - Idaho State Vet's Home
Deposit: \$50.00

Bid Date: 9/5/13 @ 2:00 p.m.
DPW# 13603
ME Job No.: 13-115
Pre-Bid: 8/28/13 @ 10:00 a.m.

BID SET NO.	COMPANY	PHONE #	FAX #	email address	DATE SET & CHECK RETURNED
1	AGC - Boise	344-2531	343-5321	<u>kwade@idahoaagc.org</u>	
2	Arc of Idaho	342-4141	343-5894	<u>boise.print@e-arc.com</u>	
3	DPW - Kelly Berard	332-1913	334-4031	<u>kelly.berard@adm.idaho.gov</u>	
4	Blueprint Specialties	377-0294		<u>shawn@bpsboise.com</u>	
5	Lewiston-Clarkston Planroom	208-746-3591		<u>lcplan@valint.net</u>	
6	4J Electric Inc.	208-746-5573		<u>4jelectric@cableone.net</u>	
7	Reed Construction Data	630-288-7971		<u>jason.gause@reedbusiness.com</u>	
8	Spokane Reg. Plan Center	509-328-9600		<u>projectinfo@plancenter.net</u>	
9	Shannon Industrial Contractors, Inc.	208-765-2403		<u>industrial@shannoncompanies.net</u>	
10	Mike's Heating & Cooling	208-743-0776		<u>mikel@cableone.net</u>	
11	Guardian Plumbing, Heating & A/C			<u>brettb@guardiancomfort.com</u>	
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 Over 35 Years of Engineering Excellence

JOB _____

SHEET NO. _____ OF _____ DATE _____

<u>Name</u>	<u>Company</u>	<u>Phone</u>
Charles Paulin	Musgrove Engr	384-0585
MIKE LINDSEY	MIKE'S HVAC	208-790-2632
Kelly WATKINS	MIKE'S HVAC	208-790-0979
Bill SCHARNHORST	GUARDIAN Plb, HTg+A/C	208-746-3087
Doug Engel	4J/Engel	208-743-5030
Chris Clemens	Green Water Energy	509-254-5610
TRAVIS KNOX	KNOX CONCRETE LLC	208-790-4081
Kenny Oakes	RM Mechanical	208-750-0496
Keith Dempsey	DPW	208-799-5066
MARVIN DElp	ISVH-L	208-484-9032