MONTANA STATE UNIVERSITY

FACILITIES PLANNING, DESIGN & CONSTRUCTION
Sixth Avenue and Grant Street • P.O. Box 172760 • Bozeman, Montana 59717-2760
Phone: (406) 994-5413 • Fax: (406) 994-5665

REQUEST FOR PROPOSAL

Project Title: Cooley Laboratory Renovation
Location: Montana State University

PPA No.: 10-0023
RFP No.: 67
Date: September 4, 2012

To: Dick Anderson Construction
4498 Jackrabbit Lane
Bozeman, MT 59718

Attention: Platisha

From: Cecilia Vaniman, Project Manager
Cooley Lab Renovation
Montana State University

Attention:

In order to expedite the Work and avoid or minimize delays in the Work the following information is requested. Please return a response by: 09/11/2012

Date Sent: 09/04//2012
Date Received:

Proposal Requested:

ADD WATER SOFTENER & HOT WATER CONTROL VALVE

.

Scope of work includes; Specification 15050 PIPING & FITTINGS 15041 DOMESTIC & NON POTABLE WATER SYSTEMS

- ADD A WATER SOFTENER AS SPECIFIED
- ADD A HOT WATER CONTROL VALVE AS SPECIFIED.
- PIPING AS REQUIRED TO SOFTENER BYPASS LOOP FOR IHW & ICW TO THE GLASSWASHER EQ-5 – EQ-6 & EQ 7

SEE ATTACHED Pricing/Specification Sheets 1 through 5

This RFP is for pricing purposes only. The contractor shall not proceed with the scope of work described within until pricing is approved by the owner in writing.

Distribution:
☐ Owner ☒ Architect ☐ Engineer
☐ Agency ☒ Contractor ☐ Other

PURE WATER TECHNOLOGIES, INC.

WATER TREATMENT SOLUTIONS

7539 Pioneer Way, Suite A Bozeman, MT 59718 Phone: (406) 582-4411 Fax: (406) 587-5764 www.purewatertechnologies.com

PROPOSAL

September 4, 2012

TO: CMS
Attn: Don

RE: Cooley Hall
MSU, Bozeman MT

Water Treatment System
Water Softening System

H125 Water Softener — $2,495.00

- 64k Capacity
- On Demand Regeneration
- Digital Water Meter
- LCD Display and Programming
- 1-1/4" supply

Pre-Filter — *Included*

- 4"x10" 20 micron cartridge

Installation — *Included*

- Assembly & Set up
- Programming & Start up

TOTAL	$2,495.00

* ***Installation to be done by mechanical contractor.***

- *Prices are Valid for 30 days from bid date.*
- *Terms are Net 30 days.*

H-125 SERIES™

WATER CONDITIONING SYSTEM

Water Management System - Patent Pending

- Agriculture
- Apartment Buildings
- Boiler Water Treatment
- Car Washes
- Commercial Buildings
- Condominiums
- Dairies
- Factories
- Hospitals
- Homes
- Laundries
- Mobile Home Parks
- Motels and Hotels
- Nursing and Rest Homes
- Office Buildings
- Restaurants
- Schools

The H125 Control is User Friendly and Reliable.

- **Modular Design**
- **Non-Corrosive Valve Body & Internals**
- **One Piece Stack Assembly**
- **Piston Operated**
- **No Nuts, Bolts or Screws**
- **Disassemble and Reassemble in Minutes**

Hellenbrand®

H-125 SERIES™
WATER CONDITIONING SYSTEM

Going Green

Brine Reclaim – The H125 standard electronic package is capable of reclaiming up to 30% of the salt used in regeneration for the next regeneration. Salt savings will vary depending on the lbs. of salt per cubic foot of resin used to regenerate.

Water Reclaim – The H125 standard electronic package is capable of reclaiming much of the water used to regenerate the water softener and re-use that water to flush toilets. This water is typically soft and is free of the salt/brine discharge which is diverted to your standard drain/waste system. A holding tank is installed to reclaim this water, along with a re-pressurization and disinfection system. A separate line is required to re-fill this tank when the reclaim water drops below a certain level between regenerations.

H125 Features and Benefits

- 1.25" internal porting, provides higher service flows with less pressure drop
- 12-Volt Operation AC or DC
- Electronic Meter Demand with Calendar Day Override
- Scrolling User Screen shows capacity remaining, time of day and flow rate
- 12-Volt Relay Driver allows multiple dry contact signals
- Service Interval Screen displays preventative maintenance reminder
- Differential Pressure Switch Capability
- Fully Programmable Cycle Position and Times
- Nine Cycle Control
- Soft Water Brine Tank Re-Fill
- Multiple Backwash and Rinse Capabilities
- Quiet Operation
- Variable Reserve automatically adjusts to changing water usage patterns.
- Several programming options including: variable reserve, fixed reserve, calendar day override, delayed or immediate regeneration.
- Diagnostics
  - –Days since last regeneration
  - –Gallons since last regeneration
  - –Gallon reserve capacity last 7 days
  - –63 Days history of daily totals usage
  - –Maximum flow rate for the last seven days
  - –Total number of regenerations
  - –Total days in service
  - –Total gallons processed
- Permanent memory backup of all programming
- 2-1/2 years Time of Day Backup
- Uses less than $2 of electricity per year

System Designs Options
Single, Twin Parallel,
Twin Alternating
Brine Reclaim
No Raw Water Bypass
Separate Source Regeneration

Meter Accuracy
Model: H125
Flow Ranges 0.25-34 GPM
Accuracy: ±5%

HELLENBRAND WARRANTY
Go to www.hellenbrand.com for full details.

Specifications

DEMAND MODEL NAME	MINERAL CU. FT.	LOW SALT GRAINS/LBS.	CAPACITY MED. SALT GRAINS/LBS.	HIGH SALT GRAINS/LBS.	FLOW RATE @ 15 PSI	PEAK FLOW RATE @ 25 PSI	BACK WASH RATE GPM	MINERAL TANK (INCHES)	BRINE TANK[1] TANK SIZE (INCHES)	BRINE TANK[1] SALT STORAGE (POUNDS)
H125-32-10ED	1	19,000/6	28,000/10	32,000/15	22	31	2.2	1044	18x40	330
H125-48ED	1.5	28,500/9	42,000/15	48,000/22.5	19	28	2.2	1054	18x40	330
H125-64ED	2	38,000/12	56,000/20	64,000/30	25	34	4.2	1354	18x40	330
H125-96ED	3	57,000/18	84,000/30	96,000/45	24	33	4.2	1465	18x40	300
H125-128ED	4	76,000/24	112,000/40	128,000/60	25	34	5.3	1665	24x41	640
H125-160ED	5	95,000/30	140,000/50	160,000/75	27	35	7.5	1865	24x50	750
H125-192ED	6	114,000/36	168,000/60	192,000/90	26	34	7.5	1865	24x50	750

[1]Suggested brine tank size with grid plate option.

DEALER NAME:

Hellenbrand®
What's In Your Water?™

Hellenbrand, Inc.
1-800-626-1617
www.hellenbrand.com

MEMBER Water Quality Association

106608
1/10-LBRY

PURE WATER TECHNOLOGIES, INC.

WATER TREATMENT SOLUTIONS

7539 Pioneer Way, Suite A Bozeman, MT 59718 Phone: (406) 582-4411 Fax: (406) 587-5764 www.purewatertechnologies.com

PROPOSAL

September 4, 2012

TO: CMS
Attn: Don

RE: Cooley Hall
MSU, Bozeman MT

Water Treatment System

Hot Water Softening System

4650 Hot Water—Water Softener — $1,295.00

- 15k Capacity
- On Demand Regeneration
- 3/4" supply

Installation — *Included*

- Assembly & Set up
- Programming & Start up

TOTAL	$1,295.00

* ***Installation to be done by mechanical contractor.***

- *Prices are Valid for 30 days from bid date.*
- *Terms are Net 30 days.*

Model 4650

Hot Water Control Valve

Front (without cover)

Back (without cover)

Features

- Designed with double backwash
- Combines rugged, lead-free brass body with time-tested "L" style powerhead
- Uses standard 5600 style yokes and bypasses
- 7-cycle downflow brining control is efficient and reliable
- Injector/drain modules containing the brine valve, flow controls, and injector are removable from the valve's exterior
- Continuous service flow rate of 20 GPM
- Backwash capacity accommodates tanks up to 12" diameter
- Economical - very small annual power consumption; keeps time, and activates the piston/valve mechanics with a single motor

Options

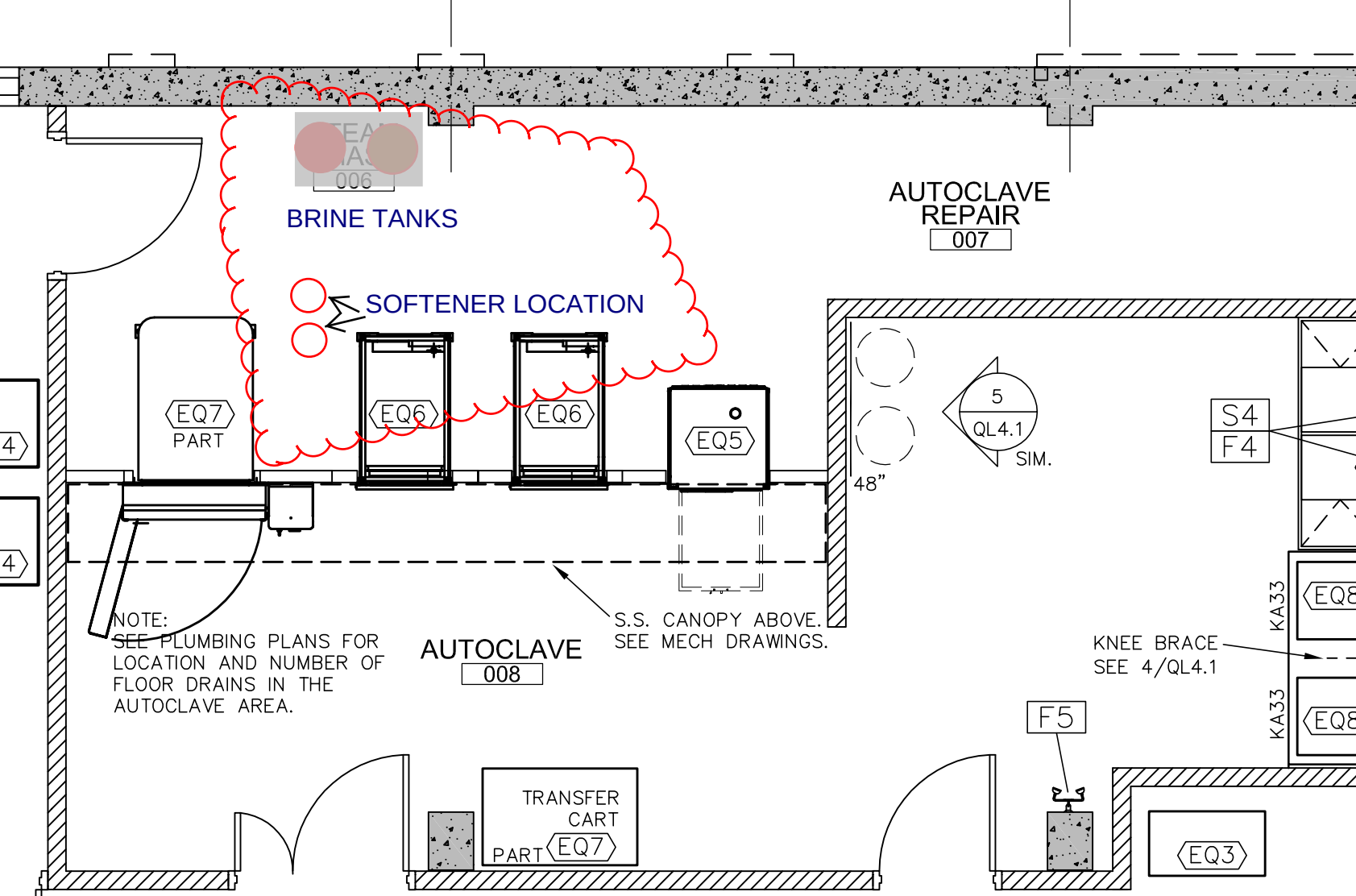
- Fiber-reinforced polymer or stainless steel bypass valve
- Backwash filter
- Auxiliary switches
- Hot water up to 180°F for filters and non-metered control valves
- Choice of 7 or 12 day clock

Valve Specifications	
Valve material	Lead-free brass*
Inlet/Outlet	3/4", 1" or 1-1/4"
Cycles	7
Flow Rates (50 psi Inlet) - Valve Alone	
Continuous (15 psi drop)	20 GPM
Peak (25 psi drop)	26 GPM
Cv (flow at 1 psi drop)	5
Max. backwash (25 psi drop)	7 GPM
Regeneration	
Downflow/Upflow	Downflow only
Adjustable cycles	Brine fill only
Time available	180 minutes per cycle
Dimensions	
Distributor pilot	1-1/20" O.D.
Drain line	1/2" NPTF
Injector brine system	1600
Brine line	3/8"
Mounting base	2-1/2" - 8 NPSM
Height from top of tank	7"
Typical Applications	
Water softener	6" - 12" diameter
Filters	6" - 10" diameter
Additional Information	
Electrical rating **	24 v, 110 v, 220 v - 50 Hz, 60 Hz
Estimated shipping weight	Time clock: 7 lbs.
Pressure	Hydrostatic: 300 psi Working: 20 - 125 psi
Temperature	34° - 110° F (cold water) 34° - 180° F (hot water)

* As defined in the U.S. EPA Safe Drinking Water Act

** 24 VAC Pentair Transformers:
115 VAC +/- 20% Input, 24 VAC Output
230 VAC +/- 20% Input, 24 VAC Output

Part No. 40744 Rev A 3/09


006
BRINE TANKS
SOFTENER LOCATION
AUTOCLAVE
REPAIR
007
EQ7
PART
EQ6
EQ6
EQ5
48"
5
QL4.1
SIM.
S4
F4
NOTE:
SEE PLUMBING PLANS FOR LOCATION AND NUMBER OF FLOOR DRAINS IN THE AUTOCLAVE AREA.
AUTOCLAVE
008
S.S. CANOPY ABOVE.
SEE MECH DRAWINGS.
KNEE BRACE
SEE 4/QL4.1
KA33
KA33
EQ8
EQ8
F5
TRANSFER
CART
PART
EQ7
EQ3