DICK ANDERSON CONSTRUCTION,INC

Number: 6A
Date Issued: 07/15/11

RFI 6A

Project: COOLEY LABORATORY RENOVATION

Job: 3146 COOLEY LAB, PPA# 10-0023

Customer: STOFMT MSU BOZEMAN

POTENTIAL IMPACTS
Cost Impact: Yes
Schedule Impact: No

Issued To: CONSTRUCTION MANAGEMENT SERV.
P.O. BOX 7274
BOZEMAN, MT 59715

Attention: DONALD J. PLATISHA
Phone/Fax: 406 585-0611 / 406 585-2698

Coordination copies to:

Item: EXISTING UTILITY PIPING IN COOLEY LAB **Type:** PLUMBING

Reference: M2.0.2, M2.0.3, M3.1 **Spec. Section:**

Attachments:

Description of Request

Question:
Subsequent to RFI #6 we need a sketch or written description of proper connection, routing, and sizing of the compressed air line, doemestic hot water and hot water recirc line. This seems critical to us so we do not upset the current design of new utilities that will feed Cooley and also stay within NIH standards.

Recommendations:
We would propose the same routing as was proposed in RFI #6. The compressed air line appears to be 3/4" copper. The domestic hot water and hot water recirc line appear to be 3/4" and 1 1/2".

Respond By: **By:**

Response

The line size of all piping needs to match the existing line sizes at the connection points in Corridor 125.

The proposed routing of the compressed air line is acceptable. Review the attached sketch for proposed routing for the domestic hot water and recirc lines.

Signed: Donald Platisha **Date:** 11/3/2011

Proceed as Indicated: **Date:**

Owner Authorized Representative

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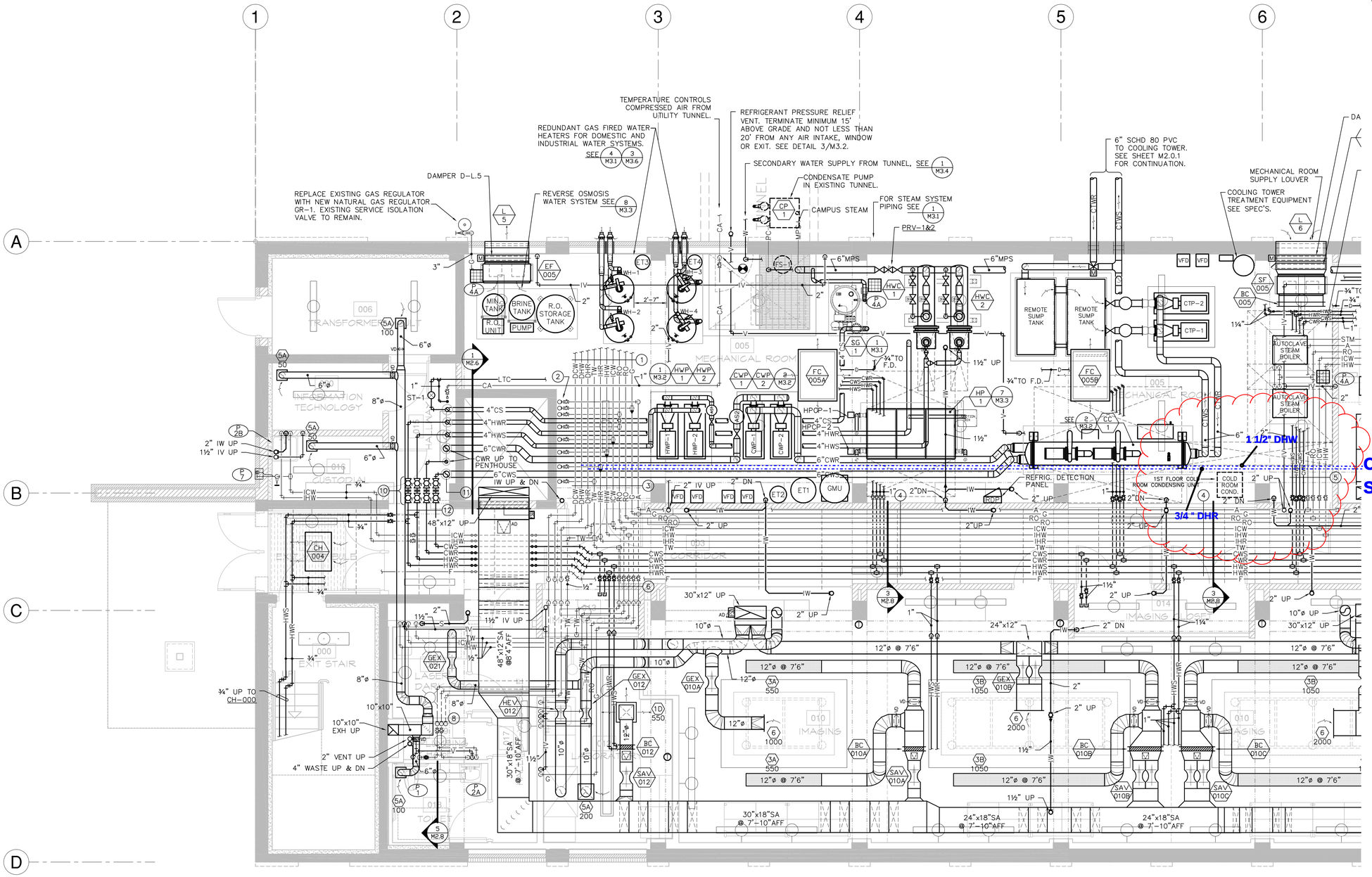


SPECIFIC SHEET NOTES:

1. FOR PIPING BRANCH SIZES SEE THE FOLLOWING:

DCW	= 3"	IHW	= 1½"
DHW	= 1"	ICW	= 2"
DHR	= ¾"	RO	= 1¼"
TW	= 1½"	RO	= 1¼"
IHR	= 1¼"	G	= 2"

2. FOR RISER SIZES SEE THE FOLLOWING:

A	= 1"	ICW	= 2"
G	= 2"	IHW	= 1½"
RO	= 1¼"	IHR	= 1¼"
RO	= 1¼"	TW	= 1½"

3. FOR PIPING BRANCH SIZES SEE THE FOLLOWING:

DCW	= 3"	ICW	= ¾"
DHW	= 1"	RO	= 1¼"
DHR	= ¾"	RO	= 1¼"
TW	= 1½"	G	= 1¼"
IHR	= ¾"	A	= ¾"
IHW	= 1"		

4. FOR PIPING BRANCH SIZES SEE THE FOLLOWING:

A	= ¾"	IHR	= ¾"
G	= 1¼"	TW	= 1½"
RO	= 1¼"	CWS	= 2"
RO	= 1¼"	CWR	= 2"
ICW	= ¾"	HWS	= 1½"
IHW	= ¾"	HWR	= 1½"

5. FOR PIPING BRANCH SIZES SEE THE FOLLOWING:

HWS	= 1¼"	RO	= 1¼"
HWR	= 1¼"	ICW	= ¾"
CWS	= 1"	IHW	= ¾"
CWR	= 1"		
A	= ½"		

6. FOR PIPING BRANCH SIZES SEE THE FOLLOWING:

CWS	= 1¼"	IHW	= ½"
CWR	= 1¼"	RO	= ½"
TW	= 1½"	G	= ½"
ICW	= ¾"		

7. FOR PIPING BRANCH SIZES SEE THE FOLLOWING:

HWS	= ¾"	ICW	= ¾"
HWR	= ¾"	IHW	= ½"
TW	= 1½"	RO	= ½"

8. FOR RISER SIZES SEE THE FOLLOWING:

DCW	= 3"		
DHW	= 1"		
DHR	= ¾"		

9. PROVIDE ISOLATION VALVE AND SOLENOID VALVE WITH TIME CLOCK FOR TRAP PRIMER.

10. HEATING WATER AND CHILLED WATER FLOOR SUPPLY ISOLATION VALVES AND DIELECTRIC FLANGES FOR PIPE MATERIAL CHANGE. SEE DETAIL 2, SHEET M2.2.1.

11. FOR RISER SIZES SEE THE FOLLOWING:

CA	= 1"	HWS	= 4"
LTC	= 1"	CWR	= 6"
CS	= 4"	CWR	= 2"
HWR	= 4"	CWS	= 6"

12. FOR PIPING BRANCH SIZES SEE THE FOLLOWING:

HWR	= 2"
HWS	= 2"
CWR	= 2"
CWS	= 2"

1 BASEMENT MECHANICAL PLAN (WEST)
1/4"=1'-0"

0 1 2 4 6 8 12 16
SCALE:1/4"=1'-0"

NOTE: COORDINATE ALL DUCT AND PIPE HANGERS TO AVOID STRUCTURAL CEILING STRIPS. WHERE CONFLICTS OCCUR, BRIDGE OVER THE STRUCTURAL STRIPS WITH UNISTRUT AND SPACERS.

Montana State University
Cooley Lab Renovation
Bozeman, Montana

DRAWN BY:	MJB
CHECKED BY:	DJB
APPROVED BY:	MJB

REV	DESCRIPTION	DATE
NIH	SD/DD	07.23.2010
NIH	CD	12.01.2010
NIH	FINAL	03.16.2011

BID SET

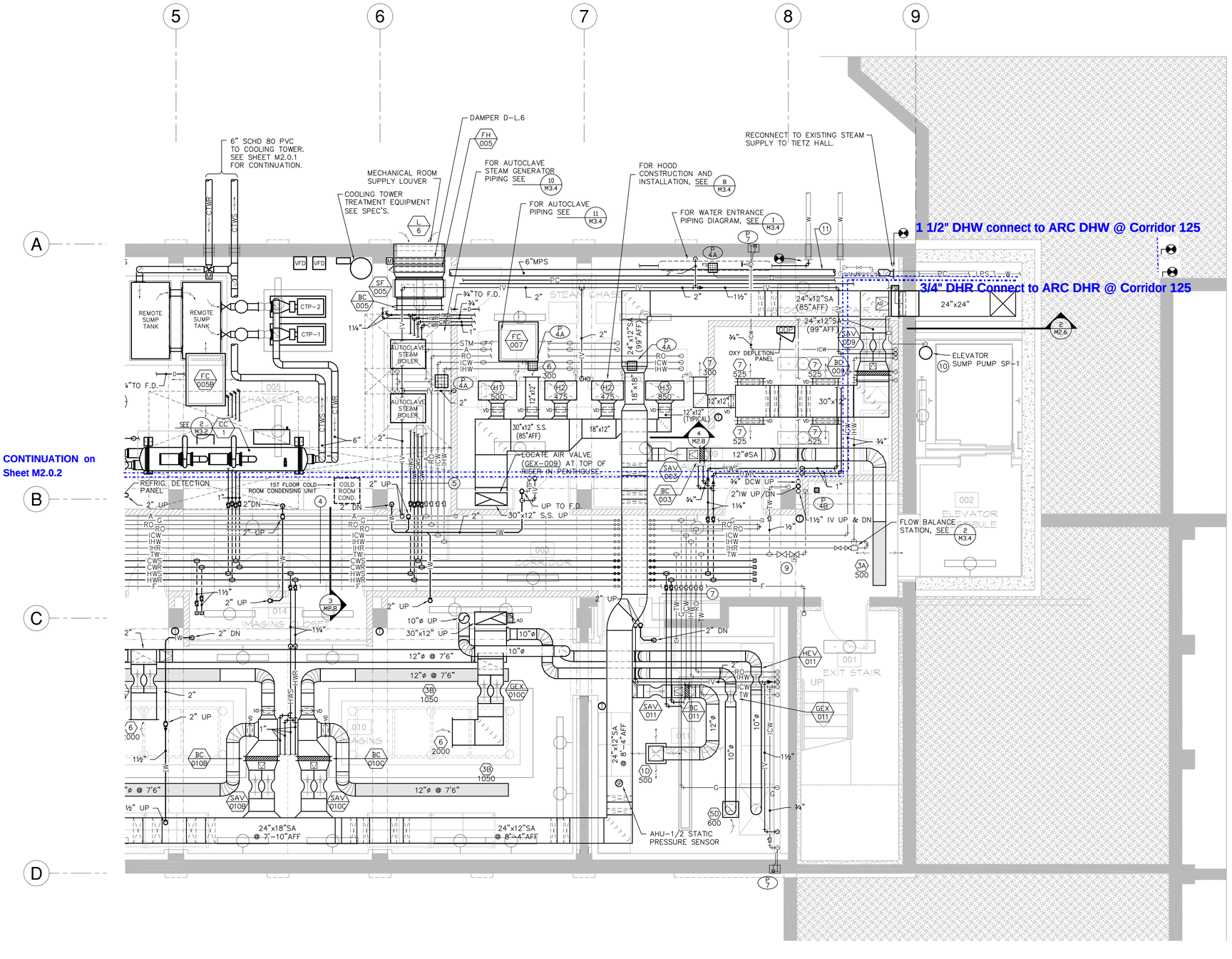
MICHAEL J. BENDER 12079 PROFESSIONAL ENGINEERS

M.S.U. PPA 10-0023
ADG 10-020

BASEMENT MECHANICAL PLAN (WEST)

M2.0.2

March 14, 2011



1 BASEMENT MECHANICAL PLAN (EAST)
1/4"=1'-0"

SCALE: 1/4"=1'-0"

SPECIFIC SHEET NOTES:

(1) FOR PIPING BRANCH SIZES SEE THE FOLLOWING:

DCW	= 3"	IHW	= 1½"
DHW	= 1"	ICW	= 2"
DHR	= ¾"	RO	= 1¼"
TW	= 1½"	RO	= 1¼"
IHR	= 1¼"	G	= 2"

(2) FOR RISER SIZES SEE THE FOLLOWING:

A	= 1"	ICW	= 2"
G	= 2"	IHW	= 1½"
RO	= 1¼"	IHR	= 1¼"
RO	= 1¼"	TW	= 1½"

(3) FOR PIPING BRANCH SIZES SEE THE FOLLOWING:

DCW	= 3"	ICW	= ¾"
DHW	= 1"	RO	= 1¼"
DHR	= ¾"	RO	= 1¼"
TW	= 1½"	G	= 1¼"
IHR	= ¾"	A	= ¾"
IHW	= 1"		

(4) FOR PIPING BRANCH SIZES SEE THE FOLLOWING:

A	= ¾"	IHR	= ¾"
G	= 1¼"	TW	= 1½"
RO	= 1¼"	CWS	= 2"
RO	= 1¼"	CWR	= 2"
ICW	= ¾"	HWS	= 1½"
IHW	= ¾"	HWR	= 1½"

(5) FOR PIPING BRANCH SIZES SEE THE FOLLOWING:

HWS	= 1¼"	A	= ½"
HWR	= 1¼"	RO	= 1¼"
CWS	= 1"	ICW	= ¾"
CWR	= 1"	IHW	= ¾"

(6) FOR PIPING BRANCH SIZES SEE THE FOLLOWING:

CWS	= 1¼"	IHW	= ½"
CWR	= 1¼"	RO	= ½"
TW	= 1½"	G	= ½"
ICW	= ¾"		

(7) FOR PIPING BRANCH SIZES SEE THE FOLLOWING:

HWS	= ¾"	ICW	= ¾"
HWR	= ¾"	IHW	= ½"
TW	= 1½"	RO	= ½"
G	= ½"	TW	= ½"

(8) FOR RISER SIZES SEE THE FOLLOWING:

DCW	= 3"
DHW	= 1"
DHR	= ¾"

(9) TEMPERED WATER PURGE ASSEMBLY. SEE DETAIL 9, SHEET M3.4.

(10) ROUTE 1¼" TYPE 'L' COPPER ELEVATOR SUMP PUMP DISCHARGE TO NEAREST FLOOR DRAIN.

(11) RELOCATE EXISTING ISOLATION VALVE AND ACTUATOR AND PRESSURE SENSOR FROM EXISTING TIETZ HALL STEAM SUPPLY LINE TO THE NEW LINE IN A SIMILAR ARRANGEMENT AND LOCATION.

NOTE: COORDINATE ALL DUCT AND PIPE HANGERS TO AVOID STRUCTURAL CEILING STRIPS. WHERE CONFLICTS OCCUR, BRIDGE OVER THE STRUCTURAL STRIPS WITH UNISTRUT AND SPACERS.

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REV	DESCRIPTION	DATE
NIH	SD/DD	07.23.2010
NIH	CD	12.01.2010
NIH	FINAL	03.14.2011

BID SET

MONTANA
MICHAEL J. BENDER
13207PE
PROFESSIONAL ENGINEERS

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ADG 10-020

BASEMENT MECHANICAL PLAN (EAST)

M2.0.3

March 14, 2011