

MEMO TO: Board of Education
TOPIC: Regular School Board Meeting
FROM: Steve D. Cairns, Superintendent
DATE: September 27, 2017

A Regular School Board Meeting of the Board of Education will be held October 2, 2017 at 7:30 PM in the High School Room 101.

Agenda

1. SCHOOL BOARD ACTION

2. CALL TO ORDER

A. Pledge - Chairman Broden

3. PREVIEW OF AGENDA

During this time any board member may pull any item(s) from the Consent Agenda

4. ADDITIONS TO THE AGENDA

5. CONSENT AGENDA

A. Minutes - September 18 4

6. COMMUNICATIONS

A. Enrollment 6

B. Meet and Confer Committee Dates

December 7 at 7:30 pm

February 22 at 7:30 pm

April 26 at 7:30 pm

All meetings are held in the High School Staff Lounge

2017 Committee Members - Adam Broden, Jeremy Davies, LeAnn Agnes and Steve Cairns

C. School District-wide evacuation drill on Friday, October 13th, beginning at 2:15 PM.

Students will go to the evacuation centers and dismissed to go home. Buses will be running very close to their normal after school schedules.

D. 6-12 Parent/Teacher Conferences will be held on Monday, October 2, 2017 from 4:00-7:30 PM.

E. Monday, October 9, Minnesota School Boards Association will be holding "Listening Sessions". A group of Senior High Students @ 12:30 PM, Teachers in both buildings @ 3:15 PM, the School Board @ 5:00 PM, Community @ 6:30 PM. World's Best Workforce Public Hearing to follow around 7:15 PM.

7. STUDENT INPUT AND RECOGNITION

A. Student Council Update

8. PUBLIC PARTICIPATION

A. Volleyball Concern - Parents and Students

9. COMMITTEE REPORTS

A. Transportation

B. Policy

C. Facilities

D. Negotiations

E. Athletics

F. Security

G. Wellness

H. Other

10. REPORTS AND PRESENTATIONS

11. SCHOOL BOARD ACTION

A. Payment to Peterson Sheet Metal, \$22,556. This is a change order (April 22, 2015) for adding radiant heat to the ECSE lobby area. The invoice was never submitted by the contractor to the School District for payment until recently. Recommendation is to pay the bill using building construction funds. 9

B. Maranda Pula, math teacher at the high school would like to start math league at the high school this year. The math league advisor position is on the extra-curricular schedule as a level VII.

C. We need a Board Representative for the Indian Parent Committee. The Board member would attend monthly meetings.

D. Staffing

1) Child Care Disability Leave of Absence - Employee A

2) Resignation - Ruben Johnson, Jr. as a bus driver effective October 3.

3) Request for Personal Leave for Mayce Rikhus, Para Educator. Mayce is requesting two additional days off.

4) Hire - John Schliauter as a .5 FTE Physical Education Teacher

12. NEXT MEETINGS AGENDA ITEMS - *Chairman Broden*

13. MEETING SCHEDULE - *Chairman Broden*

Monday, October 9, Minnesota School Boards Association will be holding "Listening Sessions" for School Board @ 5:00 p.m., the Community @ 6:30 p.m. World's Best

Workforce Public Hearing to follow around 7:15 PM.

Public Hearing - Monday, October 16, 2017, at 6:00 p.m. at the Rice Lake Community Center. The regular school board meeting will follow about 7:00 p.m.

14. **ADJOURNMENT**

15. **SCHOOL BOARD ACTION**

**BAGLEY PUBLIC SCHOOLS
REGULAR SCHOOL BOARD MEETING
SEPTEMBER 18, 2017
MINUTES**

The regular meeting of the School Board, Independent School District #162 was held on September 18, 2017, at 7:30 p.m. in High School Room 101. Members present: Adam Broden, Wendy Fultz, Amy Fontaine, LeAnn Agnes, Renee Benson, Jeremy Davies, Jamie Grover and Superintendent Cairns. Members absent: None.

Chairman Broden called the meeting to order and opened with the Pledge of Allegiance to the Flag.

1. A motion was made by Wendy Fultz, seconded by LeAnn Agnes to approve the following consent agenda items:
 - A. September 5 Minutes
 - B. September 2017 Invoices - \$291,390.04 – Ck# 58369-58455
 - C. August 2017 Hand Payables - \$379,092.96 – Ck #32084-32116
 - D. August 2017 Statement of Cash Balances - \$4,337,116.95
 - E. August 2017 Budget Comparison
 - F. August 2017 Wires Payments - \$56,811.49
 - G. BES & BHS Auxiliary AccountsMotion passed 7-0.
2. Superintendent Cairns distributed miscellaneous communications.
3. A motion was made by Jeremy Davies, seconded by Wendy Fultz to authorize the District to move forward in transferring the high school land parcel from the City of Bagley.
4. A motion was made by Wendy Fultz, seconded by Jamie Grover to levy the “Maximum” for the 2017 Payable 2018 Proposed Levy Limitation. Motion passed 7-0.
5. A motion was made by Jeremy Davies, seconded by Amy Fontaine to approve the School Board’s external survey to include the two additional questions. Motion passed 7-0.
6. A motion was made by Amy Fontaine, seconded by LeAnn Agnes to approve the School Board’s internal survey. Motion passed 7-0.
7. A motion was made by LeAnn Agnes, seconded by Wendy Fultz to accept the resignation of Ashley Gunderson as a para educator.
8. A motion was made by Amy Fontaine, seconded by Renee Benson to hire Dawn Thorson as a general para educator contingent upon a satisfactory background check.
9. A motion was made by Renee Benson, seconded by Jamie Grover to hire Amy Sather as a highly qualified para educator.
10. A motion was made by Amy Fontaine, seconded Jamie Grover to hire Donna Gumeringer as a highly qualified para educator contingent upon a satisfactory background check and meeting the No Child Left Behind requirements.
11. A motion was made by LeAnn Agnes, seconded by Jamie Grover to hire Jeremy Davies as a substitute bus driver contingent upon receipt of a satisfactory background check and licensure.

Roll call: Adam Broden – yes; Wendy Fultz – yes; Jeremy Davies – yes; Renee Benson – yes; Jamie Grover – yes; LeAnn Agnes – yes; Amy Fontaine – yes. Motion passed 7-0.

12. A motion was made by Jamie Grover, seconded by LeAnn Agnes to accept the double convection oven quote of Naylor's Heating & Refrigeration in the amount of \$7,640. The quote includes the cost of the oven, labor and installation. USFoods quote in the amount of \$6,292.14 and Culinex quote in the amount of \$6,282.25 were not accepted.

13. ITEMS FOR THE NEXT AGENDA:

- A. Staffing
- B. Fall Student Enrollment
- C. School Board Strategic Planning

14. The next School Board meeting will be held on October 2, 2017, at 7:30 p.m. in High School Room 101.

15. A motion was made by LeAnn Agnes to adjourn the meeting at 8:58 p.m. Motion passed 7-0.

Adam Broden, Chairman
School Board
Ind. School District #162

Wendy Fultz, Clerk
School Board
Ind. School District #162

Bagley School				
Enrollment K -12				
SY 2017-2018				
	10/2/17	9/19/17	6/1/17	9/20/16
HK	11	10	13	6
K	63	64	70	77
1	84	84	71	67
2	71	71	90	92
3	85	87	75	74
4	74	75	103	104
5	97	98	82	80
6	81	82	78	80
Total K-6	566	571	582	580
7	80	80	76	76
8	76	75	69	68
9	74	74	70	75
10	61	63	72	70
11	82	81	74	82
12	73	74	57	63
Total 7-12	446	447	418	434
Total K-12	1,012	1,018	1,000	1,014

Bagley School													
Enrollment K -12													
Comparison 05/06 - 17/18 SY													
	9/19/17	9/20/16	9/15/15	9/16/14	9/16/13	9/17/12	9/20/11	9/7/10	9/8/09	9/15/08	9/14/07	9/15/06	9/1/05
HK	10	6	14	13	5	12	20	13	15	14	17	6	8
K	64	77	60	78	76	88	69	74	74	66	60	75	74
1	84	67	91	79	99	87	84	73	76	66	67	81	84
2	71	92	75	100	81	82	77	73	69	66	85	80	65
3	87	74	102	84	87	74	71	65	71	77	76	66	71
4	75	104	77	87	78	74	65	79	77	75	67	66	84
5	98	80	84	80	73	65	82	82	77	64	67	87	79
6	82	80	80	71	68	75	84	81	66	73	93	79	76
Total K-6	571	580	583	592	567	557	552	540	525	501	532	540	541
7	80	76	74	68	79	86	88	71	77	90	80	76	101
8	75	68	68	77	83	83	66	71	90	79	77	97	76
9	74	75	77	90	80	66	75	79	78	75	105	74	96
10	63	70	86	86	62	68	81	77	86	100	67	92	97
11	81	82	70	62	66	70	69	70	104	63	92	97	71
12	74	63	56	63	76	62	68	86	73	86	84	67	78
Total 7-12	447	434	431	446	446	435	447	454	508	493	505	503	519
Total K-12	1,018	1,014	1,014	1,038	1,013	992	999	994	1,033	994	1,037	1,043	1,060

Bagley School													
Enrollment K -12													
Comparison 05/06 - 17/18 SY													
	10/2/17	10/3/16	10/1/15	10/1/14	10/1/13	10/1/12	10/1/11	10/1/10	10/1/09	10/1/08	10/1/07	10/2/06	10/3/05
HK	11	7	16	12	5	13	19	13	15	14	17	6	9
K	63	76	59	78	78	87	70	74	74	65	57	76	74
1	84	67	91	77	101	86	84	72	76	66	67	81	85
2	71	92	75	100	81	82	78	73	69	66	85	82	68
3	85	74	102	84	88	74	71	65	71	77	75	65	73
4	74	103	77	85	78	74	66	79	77	76	65	66	86
5	97	79	83	81	73	65	82	83	77	64	67	88	78
6	81	80	80	71	68	75	86	81	66	72	93	79	78
Total K-6	566	578	583	588	572	556	556	540	525	500	526	543	551
7	80	76	75	67	78	87	88	70	73	87	80	74	99
8	76	68	68	78	85	83	66	73	89	78	75	97	71
9	74	76	77	90	80	67	75	79	77	73	101	73	96
10	61	71	86	85	62	67	81	76	85	97	67	89	99
11	82	82	67	57	67	70	69	72	98	62	90	93	71
12	73	63	56	60	75	64	68	87	72	85	85	63	75
Total 7-12	446	436	429	437	447	438	447	457	494	482	498	489	511
Total K-12	1,012	1,014	1,012	1,025	1,019	994	1,003	997	1,019	982	1,024	1,032	1,062



3728 BEMIDJI AVENUE NORTH
BEMIDJI, MN 56601

(218) 751-4502
(218) 444-4505 FAX

Date: 04/17/17

Invoice 90191

Bill to:
JOHNSON CONTROLS, INC
2605 FERNBROOK LANE N
SUITE T
PLYMOUTH, MN 55447

Job: CC1403
BAGLEY SCHOOLS 2014
HVAC REMODEL
202 BAGLEY AVE NW
BAGLEY, MN 56621

Remarks: FROM DRAW REQUEST BILLING ENTRY

Invoice #: 90191
Customer Code: JOHNS16

Date: 04/17/17

Customer P.O. #: PAY APPLICATION #13
Payment Terms: NET 30- 1.5% FIN CHG

Remarks: FROM DRAW REQUEST BILLING ENTRY

Quantity	Description	U/M	Unit Price	Extension
	CHANGE ORDER #5			22,556.00
Billing Total			Subtotal:	22,556.00
			Total:	22,556.00

<p>To Owner: JOHNSON CONTROLS, INC 2605 FERNBROOK LANE N SUITE T PLYMOUTH, MN 55447</p> <p>From (Contractor): PETERSON SHEET METAL, INC. 3728 BEMIDJI AVE N BEMIDJI, MN 56601-4491</p> <p>Phone: 218 751-4502</p>	<p>Project: BAGLEY SCHOOLS 2014 HVAC REMODEL 202 BAGLEY AVE NW BAGLEY, MN 56621</p> <p>Contractor Job Number: CC1403</p> <p>Via (Architect): HEPPEL OLSON</p> <p>Contract For: HEPPEL OLSON ARCHITECTS PROJECT #2013-21</p>
<p>Application No: 13</p> <p>Period To: 04/30/17</p> <p>Architect's Project No:</p> <p>Contract Date: 03/27/14</p> <p>Date: 04/17/2017</p>	

Contractor's Application For Payment

Application is made for payment, as shown below, in connection with the Contract Continuation Sheet, AIA Document G703, is attached.

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the owner, and that current payments shown herein is now due.

Original contract sum	3,829,000.00
Net change by change orders	-26,869.00
Contract sum to date	3,802,131.00
Total completed and stored to date	3,802,131.00
Retainage	
0.0% of completed work	0.00
0.0% of stored material	0.00
Total retainage	0.00
Total earned less retainage	3,802,131.00
Less previous certificates of payment	3,779,575.00
Current payment due	22,556.00
Balance to finish, including retainage	0.00

Contractor: *Jaron Jahn*
By: *Donna Ruth Andersen*
State of: Minnesota **County of:** Beltrami
Date: 4/17/17
 Subscribed and sworn to before me this *17* day of *April* 2017.
Notary public: *Donna Ruth Andersen*
 My commission expires *January 31, 2021*



CERTIFICATE FOR PAYMENT

In accordance with the contract Documents, based on on-site observations and the data comprising this application, the Construction manager and Architect certify to the Owner that to the best of their knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED \$ _____
 (Attach explanation if amount certified differs from the amount applied for. Initial all figures on the Application and on the Continuation Sheet that changed to conform to the amount certified.)

CONSTRUCTION MANAGER

By: _____ Date: _____
 ARCHITECT: _____ Date: _____

This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

Change Order Summary	Number	Date Approved	Additions	Deductions
Change orders approved in previous months by owner			56,631.00	-83,500.00
Change orders approved this month				
Totals				
Net change by change orders				-26,869.00

Application and Certificate For Payment -- page 2

To Owner: JOHNSON CONTROLS, INC
 From (Contractor): PETERSON SHEET METAL, INC.
 Project: BAGLEY SCHOOLS 2014

Application No: 13 Date: 04/17/17 Period To: 04/30/17
 Contractor's Job Number: CC1403
 Architect's Project No:

Item Number	Description	Scheduled Value	Work Completed		Materials Presently Stored	Completed and Stored to Date	%	Balance to Finish	Retention	Memo
			Previous Application	This Period						
01	GENERAL CONDITIONS	106,875.00	106,875.00	0.00	0.00	106,875.00	100.00	0.00	0.00	0.00
02	SHOP MATERIAL	62,475.00	62,475.00	0.00	0.00	62,475.00	100.00	0.00	0.00	0.00
03	SHOP LABOR	35,020.00	35,020.00	0.00	0.00	35,020.00	100.00	0.00	0.00	0.00
04	FIELD MATERIAL	79,000.00	79,000.00	0.00	0.00	79,000.00	100.00	0.00	0.00	0.00
05	FIELD LABOR	215,520.00	215,520.00	0.00	0.00	215,520.00	100.00	0.00	0.00	0.00
06	SERVICE LABOR	27,550.00	27,550.00	0.00	0.00	27,550.00	100.00	0.00	0.00	0.00
07	PLUMBING LABOR	81,313.00	81,313.00	0.00	0.00	81,313.00	100.00	0.00	0.00	0.00
08	CHILLED PIPING LABOR	219,875.00	219,875.00	0.00	0.00	219,875.00	100.00	0.00	0.00	0.00
09	HEAT PIPING LABOR	376,625.00	376,625.00	0.00	0.00	376,625.00	100.00	0.00	0.00	0.00
10	RAIN LEADER LABOR	52,625.00	52,625.00	0.00	0.00	52,625.00	100.00	0.00	0.00	0.00
11	INSULATION	370,232.00	370,232.00	0.00	0.00	370,232.00	100.00	0.00	0.00	0.00
12	RENTAL EQUIPMENT	38,750.00	38,750.00	0.00	0.00	38,750.00	100.00	0.00	0.00	0.00
13	HVAC DEMO	40,918.00	40,918.00	0.00	0.00	40,918.00	100.00	0.00	0.00	0.00
14	PIPING DEMO	70,000.00	70,000.00	0.00	0.00	70,000.00	100.00	0.00	0.00	0.00
15	TEMPERATURE CONTROLS	440,000.00	440,000.00	0.00	0.00	440,000.00	100.00	0.00	0.00	0.00
16	PIPING EQUIPMENT	476,453.00	476,453.00	0.00	0.00	476,453.00	100.00	0.00	0.00	0.00
17	HVAC EQUIPMENT	555,370.00	555,370.00	0.00	0.00	555,370.00	100.00	0.00	0.00	0.00
18	PIPING MATERIAL	492,500.00	492,500.00	0.00	0.00	492,500.00	100.00	0.00	0.00	0.00
19	PLUMBING FIXTURES	87,899.00	87,899.00	0.00	0.00	87,899.00	100.00	0.00	0.00	0.00
CO001	CHANGE ORDER #1 Billing Total	-83,500.00	-83,500.00	0.00	0.00	-83,500.00	100.00	0.00	0.00	0.00
CO002	CHANGE ORDER #2 Billing Total	5,452.00	5,452.00	0.00	0.00	5,452.00	100.00	0.00	0.00	0.00
CO003	CHANGE ORDER #3 Billing Total	11,886.00	11,886.00	0.00	0.00	11,886.00	100.00	0.00	0.00	0.00
CO004	CHANGE ORDER #4 Billing Total	16,737.00	16,737.00	0.00	0.00	16,737.00	100.00	0.00	0.00	0.00
CO005	CHANGE ORDER #5 Billing Total	22,556.00	0.00	22,556.00	0.00	22,556.00	100.00	0.00	0.00	0.00
Application Total		3,802,131.00	3,779,575.00	22,556.00	0.00	3,802,131.00	100.00	0.00	0.00	0.00

AIA Document G701™ – 2001

Change Order

PROJECT (Name and address): Bagley Public Schools - ISD #162 202 Bagley Avenue Northwest Bagley, MN 56621	CHANGE ORDER NUMBER: 005 DATE: March 27, 2017	OWNER: <input checked="" type="checkbox"/> ARCHITECT: <input type="checkbox"/> CONTRACTOR: <input checked="" type="checkbox"/> FIELD: <input type="checkbox"/> Construction Manager: <input checked="" type="checkbox"/>
TO CONTRACTOR (Name and address): Peterson Sheet Metal 3728 Bemidji Avenue North Bemidji, MN 56601	ARCHITECT'S PROJECT NUMBER: 3PZX-0004 CONTRACT DATE: April 1, 2014 CONTRACT FOR:	

THE CONTRACT IS CHANGED AS FOLLOWS:

(Include, where applicable, any undisputed amount attributable to previously executed Construction Change Directives)

Pricing for MRP #11

Cost includes materials (glycol, equipment, piping, fasteners, caulking), subcontracting (controls and instillation), labor (installation, drain and refill) and mark-up.

Total Cost: \$22,556.00

The original Contract Sum was	\$	3,829,000.00
The net change by previously authorized Change Orders	\$	-49,425.00
The Contract Sum prior to this Change Order was	\$	3,779,575.00
The Contract Sum will be increased by this Change Order in the amount of	\$	22,556.00
The new Contract Sum including this Change Order will be	\$	3,802,131.00

The Contract Time will be increased by Zero (0) days.

The date of Substantial Completion as of the date of this Change Order therefore is unchanged

NOTE: This Change Order does not include changes in the Contract Sum, Contract Time or Guaranteed Maximum Price which have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.

JOHNSON CONTROLS, INC. (Construction Manager) <hr/> ARCHITECT (Firm name) 2605 Fernbrook Lane N, Suite T Plymouth, MN 55447 <hr/> ADDRESS <hr/> BY (Signature) <hr/> Jeff Martin Market Team Operations Manager <hr/> (Typed name) 3/29/17 <hr/> DATE	PETERSON SHEET METAL <hr/> CONTRACTOR (Firm name) 3728 Bemidji Avenue North Bemidji, MN 56601 <hr/> ADDRESS <hr/> BY (Signature) <hr/> Jason Tjader Project Manager <hr/> (Typed name) 3/28/17 <hr/> DATE	BAGLEY PUBLIC SCHOOLS - ISD #162 <hr/> OWNER (Firm name) 202 Bagley Avenue NW Bagley, MN 56621 <hr/> ADDRESS <hr/> BY (Signature) <hr/> Steve Cairns Superintendent <hr/> (Typed name) 9-26-17 <hr/> DATE
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3728 Bemidji Ave N
 Bemidji, MN 56601
 P: 218-751-4502
 F: 218-444-4505

Bagley Schools
 Bagley, MN
 Job# CC1403
 Change Request # 14R1

April 22, 2015

Submitted to: JCI

Pricing for MPR-11

Material

Piping Materials		1567.00
Glycol		120.00
Equipment		3200.00
Misc Fastners, Caulking, Etc.		100.00

Subtotal Material 4,987.00

Labor

Installation	80 hr x \$ 85/hr	6,800.00
Drain & Refill	20 hr x \$ 85/hr	1,700.00

Subtotal Labor 8,500.00

Sub-Contractors

Controls		4,030.00
Insulation		3,800.00
Piping		0.00
Test & Balance		
Excavation		0.00

Subtotal Sub-Contractor 7,830.00

	Material	4,987.00
	Labor	<u>8,500.00</u>
	Sub Total	13,487.00
	10% Overhead	498.70
	Tax on Material	349.09
	Subcontractor Total	7,830.00
	5% Sub-Commission	391.50
	Total Change	<u><u>22,556</u></u>

MECHANICAL PROPOSAL REQUEST – MPR# 11

Date: January 14, 2015
Project: Bagley School Improvements
Proj. No.: 2013045
RE: Additional Heat in Rooms L21, L23 and 34

Please submit an itemized quotation for the change(s) described below to the proposed modifications to the Contract Documents.

THIS IS NOT A CHANGE ORDER OR DIRECTION TO PROCEED WITH WORK STATED HEREIN.

1. Add cabinet unit heater and all associated piping, valves, thermostat, and control wiring in Room L21. See attached drawings for additional information.
2. Add finned tube radiation and all associated piping, valves and control wiring in Room L23. See attached drawings for additional information.
3. Add finned tube radiation and all associated piping, valves and control wiring in Room 34. See attached drawings for additional information.

Respectfully,
ONE, Inc.



Tony Johnson

Attachment(s): R1/2M9.1, R2/2M9.1, R1/2M9.5, R1/5M4.3 & R1/5M4.4

Cc: JCI, ONE

FARGO

2201 12th St. N. Suite E
Fargo, ND 58102

t: 701.280.0500
f: 701.280.0522

GRAND FORKS

311 4th St. S. Suite 203
Grand Forks, ND 58201

t: 701.775.2594
f: 701.775.0231

BISMARCK

233 Rosser Ave. W.
Bismarck, ND 58501

t: 701.222.0520
f: 701.222.3770

ALEXANDRIA

503 Hawthorne St. Suite 141
Alexandria, MN 56308

t: 320.846.0300
f: 701.280.0522



Fargo ■ Grand Forks ■ Bismarck
Alexandria ■ 877.380.0501

Construction Manager:

Johnson Controls, Inc.
Professional Services Group
2320 12th St. N.
Fargo, ND. 58102
(800) 678-1130

This drawing is copyrighted and shall not be reproduced without Engineer's written permission.
© 2014, Obermiller Nelson Engineering, Inc.

Project Name:
Bagley School Improvements

Project Location:
Bagley, MN

Project Information:

Project No. : Project Number
Drawn By : AWJ
Checked By : JLC
Date : JANUARY 14, 2015
File Name: 013045_2M9.1_AREA A.dwg

Revision:

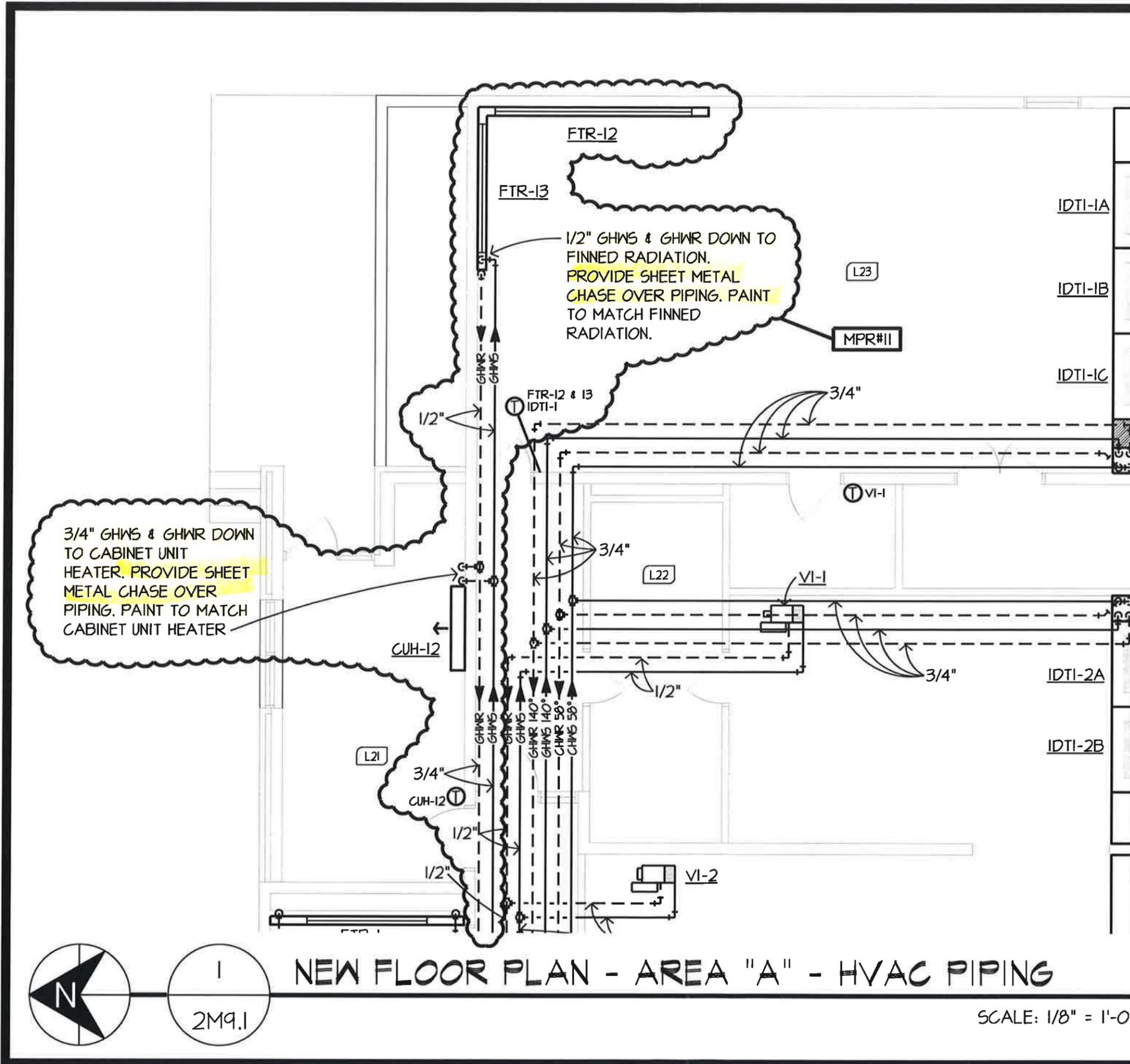
MPR# 11

Revision Number:

R2

Sheet Number:

2M9.1



1
2M9.1

NEW FLOOR PLAN - AREA "A" - HVAC PIPING

SCALE: 1/8" = 1'-0"



Fargo ■ Grand Forks ■ Bismarck
Alexandria ■ 877.380.0501

Construction Manager:

Johnson Controls, Inc.
Professional Services Group
2320 12th St. N.
Fargo, ND. 58102
(800) 678-1130

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Project Name:
Bagley School Improvements

Project Location:
Bagley, MN

Project Information:

Project No. : Project Number
Drawn By : AWJ
Checked By : JLC
Date : JANUARY 14, 2015
File Name: 013045_2M9.5_AREA E.dwg

Revision:

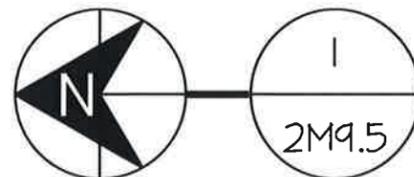
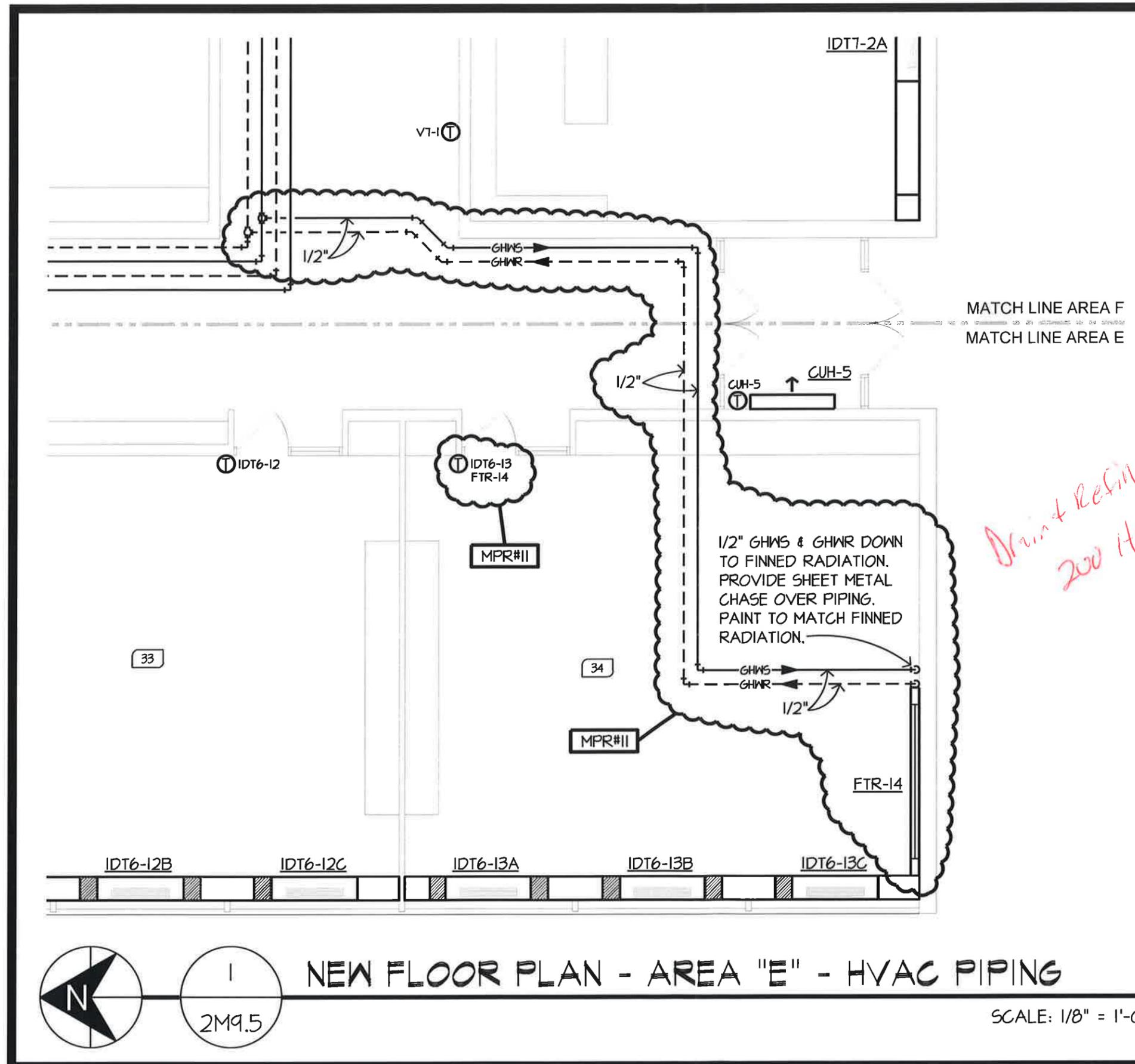
MPR# 11

Revision Number:

RI

Sheet Number:

2M9.5



NEW FLOOR PLAN - AREA "E" - HVAC PIPING

SCALE: 1/8" = 1'-0"



Fargo ■ Grand Forks ■ Bismarck
Alexandria ■ 877.380.0501

Construction Manager:

Johnson Controls, Inc.
Professional Services Group
2320 12th St. N.
Fargo, ND. 58102
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Bagley School Improvements

MPR#11

Project Location:
Bagley, MN

Project Information:

Project No. : Project Number
Drawn By : AWJ
Checked By : JLC
Date : JANUARY 14, 2015
File Name: 2013045_5M4.3.dwg

Revision:

MPR#11

Revision Number:

RI

Sheet Number:

5M4.3

UNIT HEATER SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	TYPE	CFM	EAT	LAT	OUTPUT MBH	MOTOR			DISC BY	EWT	LWT	GPM	RECESS	NOTES
							HP	VOLT	PH						
CUH-1	VULCAN WI-1100-06	WH/I	630	60	110	34.6	1/10	120	I	MC	180	150	3	-	I
CUH-2	VULCAN WI-1100-06	WH/I	630	60	110	34.6	1/10	120	I	MC	180	150	3	-	I
CUH-3	VULCAN WI-1100-06	WH/I	630	60	110	34.6	1/10	120	I	MC	180	150	3	-	I
CUH-4	VULCAN WI-1100-06	WH/I	630	60	110	34.6	1/10	120	I	MC	180	150	3	-	I
CUH-5	VULCAN WI-1100-06	WH/I	630	60	110	34.6	1/10	120	I	MC	180	150	3	-	I
CUH-6	VULCAN RWI-1130-06	SR/I	630	60	110	34.6	1/10	120	I	MC	180	150	3	6"	I
CUH-7	VULCAN RWI-1130-06	SR/I	630	60	110	34.6	1/10	120	I	MC	180	150	3	6"	I
CUH-8	VULCAN RWI-1130-14	SR/I	1410	60	99	59.9	(2) 1/10	120	I	MC	180	150	6	6"	I
CUH-9	VULCAN WI-1100-14	WH/I	1410	60	99	59.9	(2) 1/10	120	I	MC	180	150	6	-	I
CUH-10	VULCAN WI-1100-14	WH/I	1410	60	99	59.9	(2) 1/10	120	I	MC	180	150	6	-	I
CUH-11	VULCAN WI-1100-14	WH/I	1410	60	99	59.9	(2) 1/10	120	I	MC	180	150	6	-	I
CUH-12	VULCAN WI-1100-06	WH/I	630	60	110	34.6	1/10	120	I	MC	180	150	3	-	I
SUH-1	VULCAN HV-60	H	900	60	91	30.3	1/20	120	I	MC	180	150	4.4	-	I
SUH-2	VULCAN HV-36	H	550	60	90	18.1	16 W	120	I	MC	180	150	2.7	-	I
SUH-3	VULCAN HV-36	H	550	60	90	18.1	16 W	120	I	MC	180	150	2.7	-	I
SUH-4	VULCAN HV-36	H	550	60	90	18.1	16 W	120	I	MC	180	150	2.7	-	I
SUH-5	VULCAN HV-36	H	550	60	90	18.1	16 W	120	I	MC	180	150	2.7	-	I
SUH-6	VULCAN HV-36	H	550	60	90	18.1	16 W	120	I	MC	180	150	2.7	-	I

W WATER
H HORIZONTAL
I INVERTED
R RECESSED
SR SEMI RECESSED
WH WALL HUNG
DISC DISCONNECT
MC MECHANICAL CONTRACTOR
EC ELECTRICAL CONTRACTOR

NOTES:

1. CAPACITIES BASED ON 50% ETHYLENE GLYCOL SOLUTION.



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File Name: 2013045_5M4.4.dwg

Revision:

MPR# 11

Revision Number:

RI

Sheet Number:

5M4.4

FIN RADIATION SCHEDULE

UNIT NO.	MANUFACTURER & MODEL NO.	FLUID TYPE	COVER TYPE	COVER HEIGHT (IN)	COVER DEPTH (IN)	COVER LENGTH (FT)	ROWS	TUBE SIZE (IN)	FINS PER FT	FIN LENGTH (FT)	BTU PER FT	TOTAL MBH	NOTES
FTR-1	VULCAN LVS-VC3	E	ST	11"	4-3/8"	W-W	1	3/4"	40	7.0	600	4.2	1, 2, 3
FTR-2	VULCAN LVS-VC3	E	ST	11"	4-3/8"	W-W	1	3/4"	40	11.0	600	6.6	1, 2, 3
FTR-3	VULCAN LVS-VC3	E	ST	11"	4-3/8"	W-W	1	3/4"	40	10.0	600	6.0	1, 2, 3
FTR-4	VULCAN LVS-VC3	E	ST	11"	4-3/8"	W-W	1	3/4"	40	10.0	600	6.0	1, 2, 3
FTR-5	VULCAN LVS-VC3	E	ST	11"	4-3/8"	W-W	1	3/4"	40	8.0	600	4.8	1, 2, 3
FTR-6	VULCAN LVS-VC3	E	ST	11"	4-3/8"	W-W	1	3/4"	40	8.0	600	4.8	1, 2, 3
FTR-7	VULCAN LVS-VC3	E	ST	11"	4-3/8"	W-W	1	3/4"	40	9.0	600	5.4	1, 2, 3
FTR-8	VULCAN LVS-VC3	E	ST	11"	4-3/8"	W-W	1	3/4"	40	9.0	600	5.4	1, 2, 3
FTR-9	VULCAN LVS-VC3	E	ST	11"	4-3/8"	W-W	1	3/4"	40	5.0	600	3.0	1, 2, 3
FTR-10	VULCAN LVS-VC3	E	ST	11"	4-3/8"	11'-0"	1	3/4"	40	9.0	600	5.4	1, 2, 3
FTR-11	VULCAN LVS-VC3	E	ST	11"	4-3/8"	20'-0"	1	3/4"	40	18.0	600	10.8	1, 2, 3
FTR-12	VULCAN LVS-VC3	E	ST	11"	4-3/8"	13'-6"	1	3/4"	40	12.0	600	7.2	1, 2, 3, 4
FTR-13	VULCAN LVS-VC3	E	ST	11"	4-3/8"	9'-6"	1	3/4"	40	7.5	600	4.5	1, 2, 3, 4
FTR-14	VULCAN LVS-VC3	E	ST	11"	4-3/8"	11'-0"	1	3/4"	40	9.0	600	5.4	1, 2, 3, 4

W WATER
ST SLOPE TOP
W-W WALL TO WALL

MPR#11

NOTES:

- CAPACITIES BASED ON 180°F AVG. WATER TEMP AND 65°F EAT
- BOTTOM OF COVER 6" ABOVE FLOOR
- HEATING CAPACITIES BASED ON 50% ETHYLENE GLYCOL SOLUTION.
- FIN TUBE RADIATION SHALL BE RUN IN SERIES USING A SINGLE CONTROL VALVE.