

# SUBMITTAL REVIEW



CLIENT NAME: \_\_\_\_\_  
PROJECT TITLE: \_\_\_\_\_  
SUBMITTAL No.: \_\_\_\_\_ H2M PROJECT No.: \_\_\_\_\_  
SUBMITTAL NAME: \_\_\_\_\_

SUBMITTAL REVIEW	
<b>REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS</b>	
<input type="checkbox"/> NO EXCEPTIONS TAKEN	<input type="checkbox"/> SUBMIT SPECIFIED ITEM
<input type="checkbox"/> MAKE CORRECTIONS NOTED <small>(RESUBMISSION NOT REQUIRED)</small>	<input type="checkbox"/> NO ACTION TAKEN <small>(REVIEW IS THE RESPONSIBILITY OF ANOTHER PARTY)</small>
<input type="checkbox"/> REVISE & RESUBMIT	<input type="checkbox"/> NO ACTION TAKEN <small>(THIS SUBMITTAL IS NOT REQUIRED BY THE CONTRACT)</small>
<input type="checkbox"/> REJECTED - SEE REMARKS	<input type="checkbox"/> RECEIVED FOR RECORD
<p>Corrections or comments made on the shop drawings during this review do not relieve contractor from compliance with requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating their work with that of all other trades; and performing the work in a safe and satisfactory manner.</p>	
Date: _____	By: _____
<small>Rev.: 2020-05-20</small>	

## Comments:

CONTRACTOR'S COMPANY NAME  
ADDRESS

**SUBMISSION TRANSMITTAL FORM**  
**CLIENT NAME:** Vails Gate Fire District  
**PROJECT TITLE:** VGFD2001-New Firehouse

**H2M PROJECT NO.:** VGFD2001

Product, Item, or System Submitted:			
Submission Date:		Submission Log No.:	
Specification Section:		Paragraph Reference:	
Contract Drawing Reference(s):			
Manufacturer's Name:			
Manufacturer's Mailing Address:			
Manufacturer's Contact Information:	<i>Name</i>	( ) <i>Tel. no.</i>	<i>Email</i>
Supplier's Name:			
Supplier's Mailing Address:			
Supplier's Contact Information:	<i>Name</i>	( ) <i>Tel. no.</i>	<i>Email</i>
This item is a substitution for the specified item:	<input type="checkbox"/> No	<input type="checkbox"/> Yes	
<div style="border: 1px solid blue; padding: 5px;"> <p align="center"><b>KEY CONSTRUCTION SERVICES, LLC</b></p> <p><b>Project No: VGFD2001</b></p> <p><small>Reviewed for General Acceptance Only. This review does not relieve the Subcontractors or Suppliers of responsibility for making the work conform to the requirements of the contract. The Subcontractor and Suppliers are responsible for all dimensions, correct fabrication and accurate fit with the work of other trades.</small></p> <p align="center"><b><u>SUBJECT TO ARCHITECT AND OR ENGINEER APPROVAL</u></b></p> <p><b>Signed</b> <i>Joseph Manfredi</i> (PM) <b>Date:</b> _____</p> </div> <p>Contractor's Approval Stamp with Signature &amp; Date</p>	<p><u>Contractor's Brief Comments or Remarks</u> (attach separate letter as needed):</p> <hr/> <p>By making this submission, we represent that we have determined and verified all field measurements and dimensions, field construction criteria, site and building constraints in terms of limitations in moving the item into the enclosed space, materials, catalog and model numbers and similar data and that we have checked and coordinated this submission with other work at or adjacent to the installed location in accordance with the requirements contained in the Contract Documents.</p>		

**END OF SECTION 013300**

# Joe Lombardo

## Plumbing & Heating of Rockland, Inc.

321 Spook Rock Road  
 Suffern, NY 10901  
 Ph. 845-357-6537 Fx 845-357-8529  
 E: [info@josephlombardo.com](mailto:info@josephlombardo.com)  
 Website: [www.josephlombardo.com](http://www.josephlombardo.com)

Rockland Cty. Plumbing #1000      Rockland Cty. Cooling # 1468  
 Westchester Cty. Plumbing #460      New Jersey State Plumbing #12702

TO: Key Construction  
4246 Albany Post Rd. Suite 1  
Hyde Park, NY 12538

## LETTER OF TRANSMITTAL

DATE: <b>8.16.24</b>	JOB NO.
ATTENTION: <b>Joe Manfredi</b>	
RE: Vails Gate Firehouse	

WE ARE SENDING YOU  Attached  Under separate cover via \_\_\_\_\_ the following items:

Shop Drawings       Prints       Plans       Samples       Specifications

Copy of letter       Change order       \_\_\_\_\_

EMAIL	DATE	NO.	DESCRIPTION
1	8.16.24	238318	Snow melt system – SHOP DWG REVISION #2

THESE ARE TRANSMITTED as checked below:

For approval       No Exceptions Taken       Resubmit \_\_\_\_\_ copies for review

For your use       Make Corrections Noted       Submit \_\_\_\_\_ copies for distribution

As requested       Rejected       Return \_\_\_\_\_ corrected prints

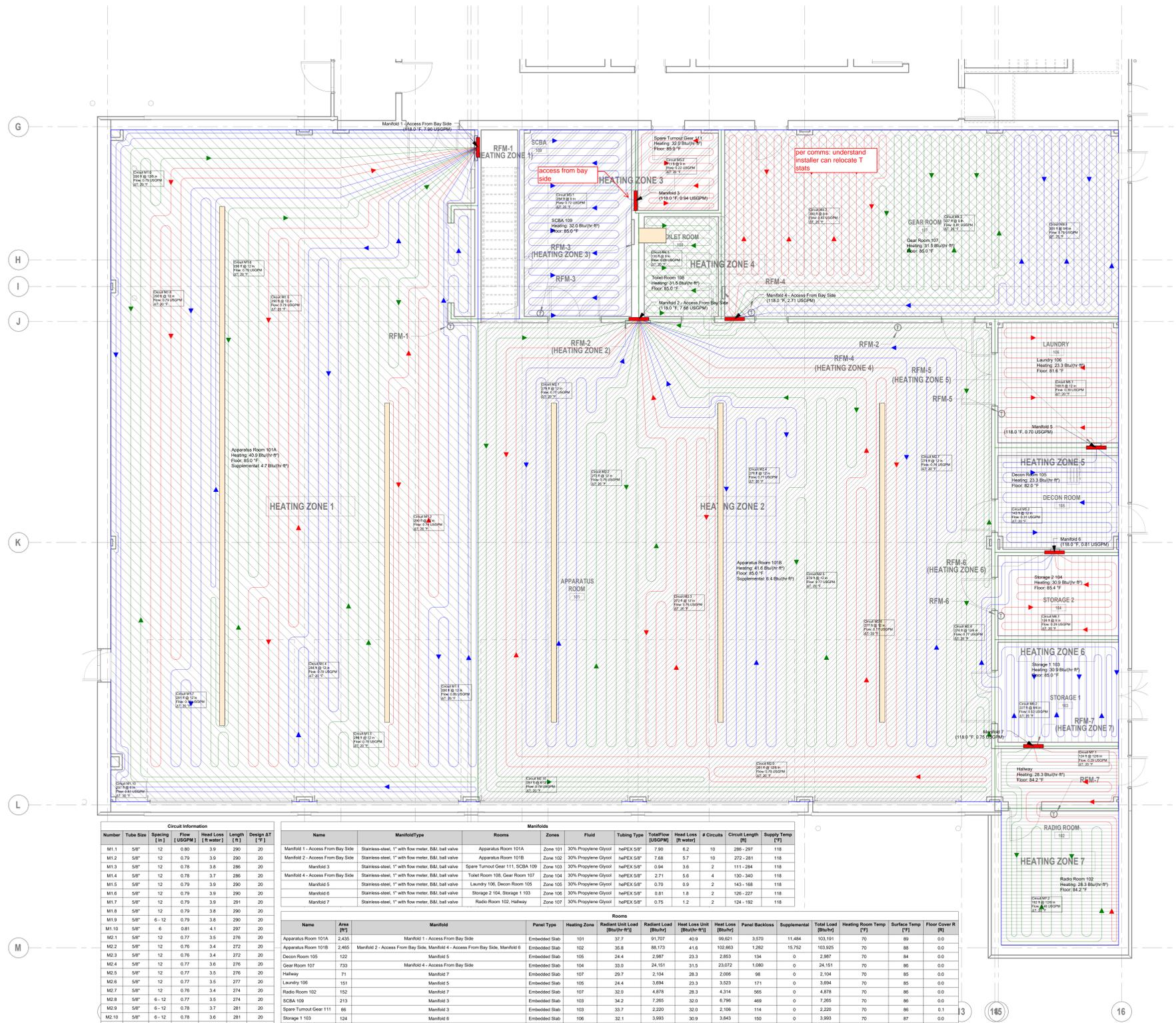
For review and comment       \_\_\_\_\_

FOR BIDS DUE \_\_\_\_\_ 20 \_\_\_\_  PRINTS RETURNED AFTER LOAN TO US

COPY TO: Joe Manfredi

SIGNED: Ronald J. Lombardo

**DISCLAIMER:**  
Note: Details of the tubing bend radius have been simplified for clarity. Consult tubing manufacturer for specific bend radius recommendations.



**Circuit Information**

Number	Tube Size	Spacing [in]	Flow [USGPM]	Head Loss [ft water]	Length [ft]	Design AT [°F]
M1.1	5/8"	12	0.90	3.9	290	20
M1.2	5/8"	12	0.79	3.9	290	20
M1.3	5/8"	12	0.78	3.8	286	20
M1.4	5/8"	12	0.78	3.7	285	20
M1.5	5/8"	12	0.79	3.9	290	20
M1.6	5/8"	12	0.79	3.9	291	20
M1.7	5/8"	12	0.79	3.9	291	20
M1.8	5/8"	12	0.79	3.8	290	20
M1.9	5/8"	6-12	0.79	3.8	290	20
M1.10	5/8"	6	0.81	4.1	297	20
M2.1	5/8"	12	0.77	3.5	278	20
M2.2	5/8"	12	0.76	3.4	272	20
M2.3	5/8"	12	0.76	3.4	272	20
M2.4	5/8"	12	0.77	3.6	276	20
M2.5	5/8"	12	0.77	3.5	276	20
M2.6	5/8"	12	0.77	3.5	277	20
M2.7	5/8"	12	0.76	3.4	274	20
M2.8	5/8"	6-12	0.77	3.5	274	20
M2.9	5/8"	6-12	0.76	3.7	281	20
M2.10	5/8"	6-12	0.76	3.6	281	20
M3.1	5/8"	9	0.72	3.3	284	20
M3.2	5/8"	9	0.22	0.2	111	20
M4.2	5/8"	9	0.83	4.9	340	20
M4.3	5/8"	9	0.81	4.7	337	20
M4.4	5/8"	6-9	0.79	4.5	336	20
M4.5	5/8"	9	0.28	0.3	130	20
M5.1	5/8"	12	0.39	0.7	168	20
M5.2	5/8"	12	0.31	0.4	143	20
M6.1	5/8"	9	0.29	0.3	126	20
M6.2	5/8"	6-9	0.53	1.5	227	20
M7.1	5/8"	6-12	0.29	0.8	124	20
M7.2	5/8"	6-12	0.46	1.0	192	20

Name	Manifold Type	Rooms	Zones	Fluid	Tubing Type	Total Flow [USGPM]	Head Loss [ft water]	# Circuits	Circuit Length [ft]	Supply Temp [°F]
Manifold 1 - Access From Bay Side	Stainless-steel, 1" with flow meter, B&I ball valve	Apparatus Room 101A	Zone 101	30% Propylene Glycol	hPEX 5/8"	7.90	6.2	10	285 - 297	118
Manifold 2 - Access From Bay Side	Stainless-steel, 1" with flow meter, B&I ball valve	Apparatus Room 101B	Zone 102	30% Propylene Glycol	hPEX 5/8"	7.88	5.7	10	272 - 285	118
Manifold 3	Stainless-steel, 1" with flow meter, B&I ball valve	Spare Turnout Gear 111, SCBA 109	Zone 103	30% Propylene Glycol	hPEX 5/8"	0.94	3.6	2	111 - 284	118
Manifold 4 - Access From Bay Side	Stainless-steel, 1" with flow meter, B&I ball valve	Token Room 108, Gear Room 107	Zone 104	30% Propylene Glycol	hPEX 5/8"	2.71	5.6	4	130 - 340	118
Manifold 5	Stainless-steel, 1" with flow meter, B&I ball valve	Laundry 106, Decan Room 105	Zone 105	30% Propylene Glycol	hPEX 5/8"	0.70	0.9	2	143 - 168	118
Manifold 6	Stainless-steel, 1" with flow meter, B&I ball valve	Storage 2 104, Storage 1 103	Zone 106	30% Propylene Glycol	hPEX 5/8"	0.81	1.8	2	126 - 227	118
Manifold 7	Stainless-steel, 1" with flow meter, B&I ball valve	Radio Room 102, Hallway	Zone 107	30% Propylene Glycol	hPEX 5/8"	0.75	1.2	2	124 - 192	118

Name	Area [sq ft]	Manifold	Panel Type	Heating Zone	Refract Unit Load [Btu/hr sq ft]	Refract Load [Btu/hr]	Heat Loss Unit [Btu/hr sq ft]	Heat Loss [Btu/hr]	Panel Backloss	Supplemental	Total Load [Btu/hr]	Heating Room Temp [°F]	Surface Temp [°F]	Floor Cover R [°F]
Apparatus Room 101A	2,435	Manifold 1 - Access From Bay Side	Embedded Slab	101	37.7	91,707	40.9	99,621	3,570	11,484	103,191	70	89	0.0
Apparatus Room 101B	2,465	Manifold 2 - Access From Bay Side, Manifold 6	Embedded Slab	102	35.8	88,173	41.6	102,663	1,262	15,752	103,925	70	88	0.0
Decan Room 105	122	Manifold 5	Embedded Slab	105	24.4	2,987	23.3	2,853	134	0	2,987	70	64	0.0
Gear Room 107	733	Manifold 4 - Access From Bay Side	Embedded Slab	104	33.0	24,151	31.5	23,072	1,080	0	24,151	70	85	0.0
Hallway	71	Manifold 7	Embedded Slab	107	29.7	2,104	29.3	2,006	98	0	2,104	70	85	0.0
Laundry 106	151	Manifold 5	Embedded Slab	105	24.4	3,894	23.3	3,523	171	0	3,694	70	65	0.0
Radio Room 102	152	Manifold 7	Embedded Slab	107	32.0	4,878	28.3	4,314	565	0	4,878	70	85	0.0
SCBA 109	213	Manifold 3	Embedded Slab	103	34.2	7,265	32.0	6,796	469	0	7,265	70	86	0.0
Spare Turnout Gear 111	86	Manifold 3	Embedded Slab	103	33.7	2,220	32.0	2,108	114	0	2,220	70	86	0.1
Storage 1 103	124	Manifold 6	Embedded Slab	106	32.1	3,983	30.9	3,543	150	0	3,693	70	87	0.0
Storage 2 104	101	Manifold 6	Embedded Slab	106	32.1	3,253	30.9	3,130	122	0	3,253	70	86	0.0
Token Room 108	81	Manifold 4 - Access From Bay Side	Embedded Slab	104	32.9	2,680	31.5	2,562	117	0	2,680	70	88	0.0

PROJECT: **Vails Gate Fire Department**

CUSTOMER:

PROJECT NO.: **43204H R1**

SCALE: **1/4"=1'**

DRAWING NAME: **Ground Floor**

DRAWN BY: **David Riggs**

DATE: **7/9/2024**

**REVISIONS**

No	Desc	Date
1	Moved Manifold 4. In zones 1 & 2 avoided trench drains and increased slab thickness to 8".	7/8/2024
2	Added Manifold Access Notes	8/13/2024