

SUBMITTAL REVIEW



CLIENT NAME: _____
PROJECT TITLE: _____
SUBMITTAL No.: _____ H2M PROJECT No.: _____
SUBMITTAL NAME: _____

SUBMITTAL REVIEW	
REVIEW IS FOR GENERAL COMPLIANCE WITH CONTRACT DOCUMENTS. NO RESPONSIBILITY IS ASSUMED FOR CORRECTNESS OF DIMENSIONS OR DETAILS	
<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: _____

Rev.: 2020-05-20

Comments:

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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:	___ No		___ Yes
<p>KEY CONSTRUCTION SERVICES, LLC</p> <p>Project No: VGFD2001</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><u>SUBJECT TO ARCHITECT AND OR ENGINEER APPROVAL</u></p> <p>Signed <i>Joseph Manfredi</i>(PM) Date:</p> <p>Contractor's Approval Stamp with Signature & Date</p>		<p><u>Contractor's Brief Comments or Remarks</u> (attach separate letter as needed):</p> <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.

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E: info@josephlombardo.com
Website: 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

Form with fields: DATE: 8.16.24, JOB NO., ATTENTION: Joe Manfredi, 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

Table with 4 columns: EMAIL, DATE, No., DESCRIPTION. Row 1: 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.

Vails Gate Fire Department

PROJECT:

CUSTOMER:

PROJECT NO.:
43204H R1

SCALE:
1/4"=1'

DRAWING NAME:
Ground Floor

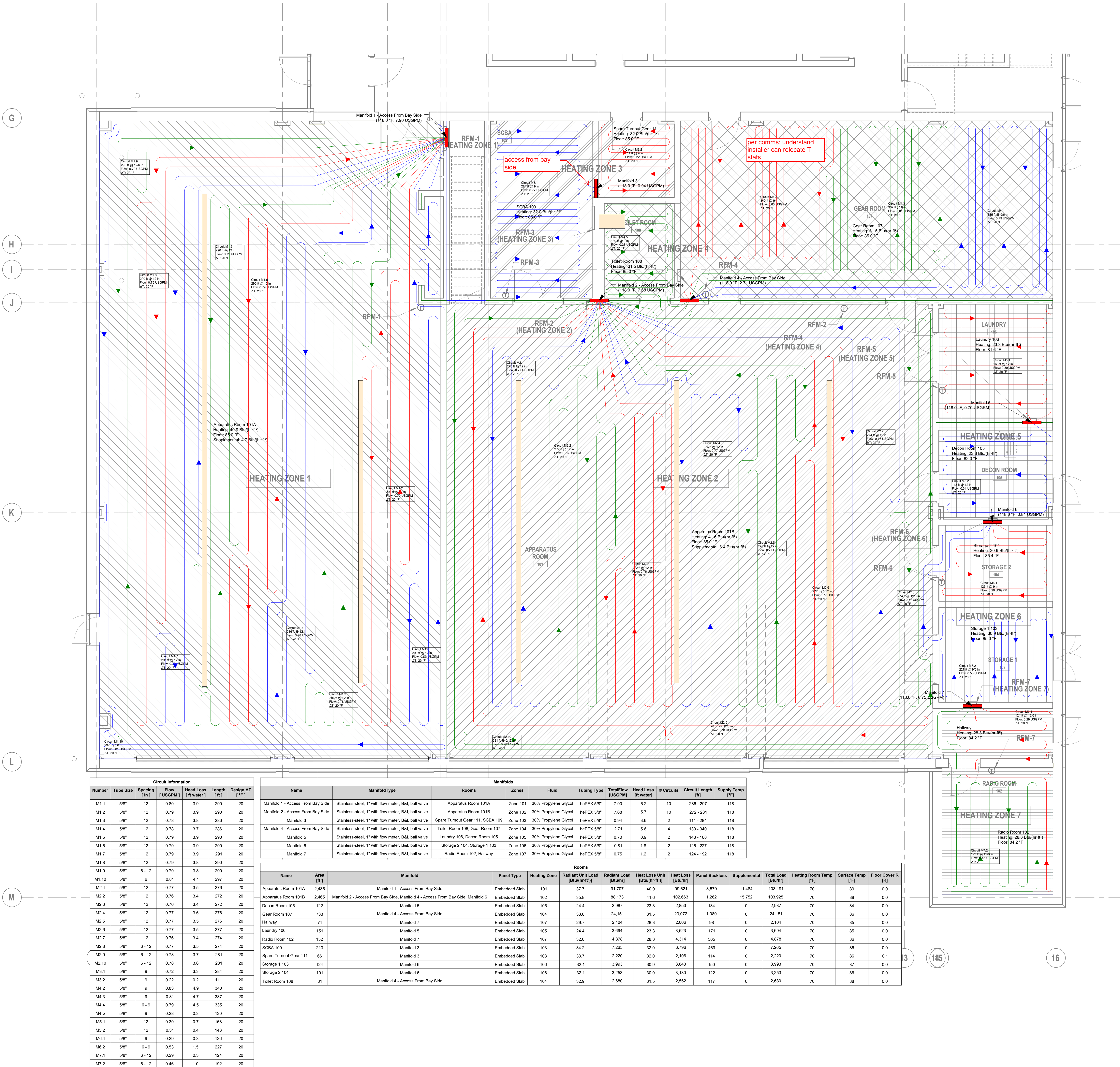
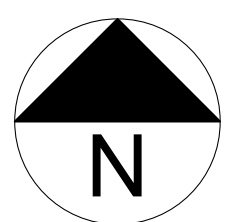
DRAWN BY:
David Riggs

Created Using LoopCAD 2023 23.0.0594 (8/13/2024)

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



Circuit Information						
Number	Tube Size	Spacing [in]	Flow [USGPM]	Head Loss [ft water]	Length [ft]	Design AT [°F]
M1.1	5/8"	12	0.80	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	286	20
M1.5	5/8"	12	0.79	3.9	290	20
M1.6	5/8"	12	0.79	3.9	290	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	276	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	0.3	124	20
M7.2	5/8"	6-12	0.46	1.0	192	20

Manifolds									
Name	ManifoldType	Rooms	Zones	Fluid	Tubing Type	TotalFlow [USGPM]	Head Loss [ft water]	# Circuits	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	286-297
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	272-281
Manifold 3	Stainless-steel, 1" with flow meter, B&I ball valve	Spare Turnout Gear 111, SCBA 109	Zone 102	30% Propylene Glycol	hPEX 5/8"	0.94	3.6	2	111-284
Manifold 4 - Access From Bay Side	Stainless-steel, 1" with flow meter, B&I ball valve	Toilet Room 108, Gear Room 107	Zone 104	30% Propylene Glycol	hPEX 5/8"	2.71	5.6	4	130-340
Manifold 5	Stainless-steel, 1" with flow meter, B&I ball valve	Laundry 106, Decon Room 105	Zone 105	30% Propylene Glycol	hPEX 5/8"	0.70	0.9	2	143-168
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
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

Rooms													
Name	Area [ft²]	Manifold	Panel Type	Heating Zone	Radiant Unit Load (Btu/hr/ft²)	Radiant Load (Btu/hr)	Heat Loss Unit (Btu/hr/ft²)	Heat Loss (Btu/hr)	Panel Backloss	Supplemental	Total Load (Btu/hr)	Heating Room Temp [°F]	Floor Cover R [ft²]
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
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
Decon Room 105	122	Manifold 5	Embedded Slab	105	24.4	2,987	23.3	2,853	134	0	2,987	70	84
Gear Room 107	735	Manifold 4 - Access From Bay Side	Embedded Slab	104	33.0	24,151	31.5	23,072	1,080	0	24,151	70	86
Hallway	71	Manifold 7	Embedded Slab	107	28.7	2,104	28.3	2,006	98	0	2,104	70	85
Laundry 106	151	Manifold 5	Embedded Slab	105	24.4	3,694	23.3	3,523	171	0	3,694	70	85
Radio Room 102	152	Manifold 7	Embedded Slab	107	32.0	4,878	28.3	4,314	565	0	4,878	70	86
SCBA 109	213	Manifold 3	Embedded Slab	103	34.2	7,265	32.0	6,796	469	0	7,265	70	86
Spare Turnout Gear 111	66	Manifold 3	Embedded Slab	103	33.7	2,220	32.0	2,106	114	0	2,220	70	86
Storage 1 103	124	Manifold 6	Embedded Slab	106	32.1	3,983	30.9	3,843	150	0	3,983	70	87
Storage 2 104	101	Manifold 6	Embedded Slab	106	32.1	3,253	30.9	3,130	122	0	3,253	70	86
Toilet 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