

DISCLAIMER:

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

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PROJECT:

CUSTOMER:

PROJECT NO.:
VLC26OH-005

SCALE:
1/16"=1'

DRAWING NAME:
Future Areas

DRAWN BY:
Liam Collins

Created Using LoopCAD 2025 25.1.0298 (6/4/2026)

DATE:
6/4/2026

REVISIONS

No	Desc	Date

PAGE NO.

1



N 88°11'45" W
0.46'

124.36'

N 0°22'42" W
697.46'

129.44'

CONC. COURTYARD
(APPROX. 2,568 SQ. FT. -
INCLUDING PORTE-COCHERE)

1010

1014

E BARN
(100)

FUTURE
CRUSHED
GRAVEL DRIVE

Snow Melt A-5
Design: 118.2 Btu/(hr-ft²)
Backloss: 9.9 Btu/(hr-ft²)
Total: 128.1 Btu/(hr-ft²)

Courtyard 2
Design: 118.2 Btu/(hr-ft²)
Backloss: 9.9 Btu/(hr-ft²)
Total: 128.2 Btu/(hr-ft²)

Name	ManifoldType	# Circuits	Tubing Size	Supply Temp [°F]	Total Load [Btu/hr]	TotalFlow [USGPM]	Head Loss [ft water]
Manifold 1	Copper, 2" w/ Shut-Off and Balancing Valves	24	3/4"	115	600,516	44.00	23.7
Manifold 2	Copper, 2" w/ Shut-Off and Balancing Valves	10	3/4"	115	206,696	14.96	15.7

Number	Length [ft]	Tube Size	Manifold	Flow [USGPM]	Head Loss [ft water]	Total Load [Btu/hr]
M1.1	500	3/4"	Manifold 1	1.57	11.5	21,773
M1.2	497	3/4"	Manifold 1	1.91	16.0	26,407
M1.3	495	3/4"	Manifold 1	1.90	15.9	26,322
M1.4	494	3/4"	Manifold 1	1.90	15.8	26,271
M1.5	493	3/4"	Manifold 1	1.89	15.6	26,187
M1.6	491	3/4"	Manifold 1	1.89	15.5	26,103
M1.7	489	3/4"	Manifold 1	1.88	15.4	26,020
M1.8	488	3/4"	Manifold 1	1.88	15.2	25,937
M1.9	486	3/4"	Manifold 1	1.87	15.1	25,856
M1.10	485	3/4"	Manifold 1	1.86	15.0	25,782
M1.11	484	3/4"	Manifold 1	1.86	14.9	25,717
M1.12	483	3/4"	Manifold 1	1.86	14.8	25,677
M1.13	482	3/4"	Manifold 1	1.86	14.8	25,658
M1.14	481	3/4"	Manifold 1	1.85	14.7	25,613
M1.15	482	3/4"	Manifold 1	1.85	14.7	25,636
M1.16	482	3/4"	Manifold 1	1.85	14.7	25,629
M1.17	481	3/4"	Manifold 1	1.85	14.6	25,590
M1.18	480	3/4"	Manifold 1	1.85	14.6	25,586
M1.19	480	3/4"	Manifold 1	1.85	14.6	25,587
M1.20	480	3/4"	Manifold 1	1.85	14.6	25,589
M1.21	480	3/4"	Manifold 1	1.85	14.6	25,589
M1.22	480	3/4"	Manifold 1	1.85	14.6	25,591
M1.23	481	3/4"	Manifold 1	1.85	14.7	25,595
M1.24	479	3/4"	Manifold 1	1.36	8.5	18,799
M2.1	507	3/4"	Manifold 2	1.79	14.5	24,680
M2.2	430	3/4"	Manifold 2	1.48	8.8	20,423
M2.3	427	3/4"	Manifold 2	1.47	8.7	20,370
M2.4	415	3/4"	Manifold 2	1.44	8.1	19,835
M2.5	418	3/4"	Manifold 2	1.46	8.4	20,109
M2.6	403	3/4"	Manifold 2	1.49	8.9	20,541
M2.7	403	3/4"	Manifold 2	1.41	7.7	19,518
M2.8	416	3/4"	Manifold 2	1.47	8.5	20,300
M2.9	402	3/4"	Manifold 2	1.42	7.7	19,655
M2.10	427	3/4"	Manifold 2	1.54	9.4	21,254

GARAGE ELEV. = 1014
1ST FL ELEV. = 1016

POOL & HOT TUB
(LOCATION & DESIGN
BY OTHERS)

PROPOSED

45.00'

Manifold 1
115.0 °F, 44.00 USGPM

Source:
Flow: 44.00 USGPM
Head Loss: 25.3 ft water

Manifold 2
115.0 °F, 14.96 USGPM



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

VIGILCS LECTRAFLUX SERVICE HAS PREPARED THIS SERIES OF DRAWINGS AS THE FIRST DESIGN FOR PUMPING, RADIAN, SNOW MELT OR FIRE SUPPRESSION SYSTEMS FOR THE USE OF YOUR CUSTOMER. IN PREPARING THESE DRAWINGS, BIDS AND PROPOSALS IN RELATION TO THE SALE OF VIGILCS LECTRAFLUX SERVICE PRODUCTS ARE NOT REQUIRED. THE DRAWINGS ARE PREPARED TO APPROPRIATE PROPORTIONS, DIMENSIONS OF DESIGN BASED UPON THAT INFORMATION, THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION OF THE SYSTEM WITHOUT THE REVIEW OF THESE DESIGNS OR DRAWINGS, YOU MUST:

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- OBTAIN ALL DRAWINGS TO YOUR PROFESSIONAL ENGINEER FOR REVIEW AND APPROVAL, AND HAVE THE DRAWINGS MARKED "TAP" BY YOUR PROFESSIONAL ENGINEER;
- OBTAIN ALL ENGINEERING, INSURANCE, AND/OR OTHER INFORMATION OR MAKE ANY CHANGES TO THE DRAWINGS. THESE ERRORS OR CHANGES MUST BE COMMUNICATED TO VIGILCS LECTRAFLUX SERVICE'S DEPARTMENT FOR A DETERMINATION IF A REVISION TO THE DESIGN IS NECESSARY.

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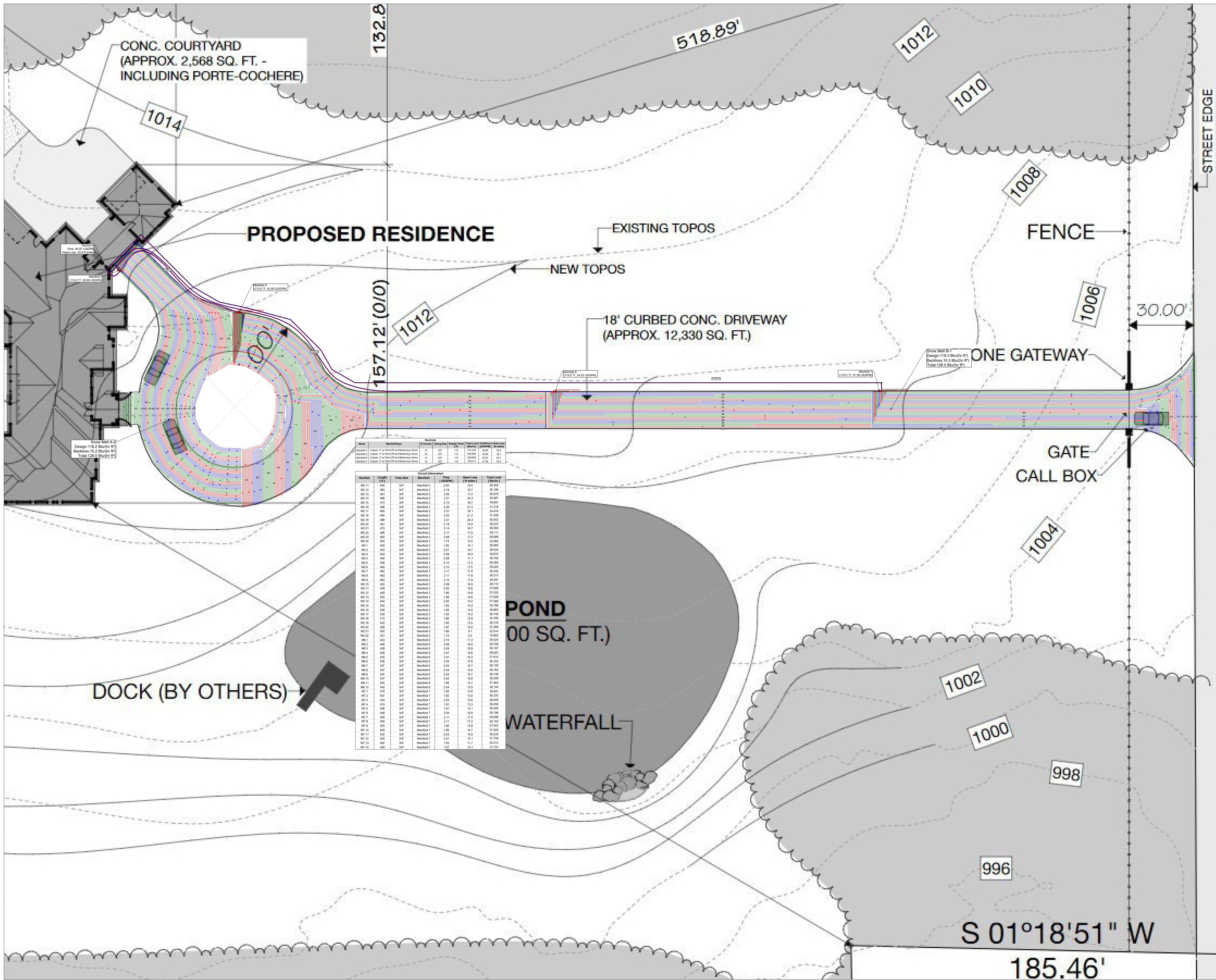
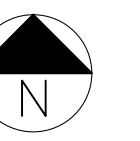
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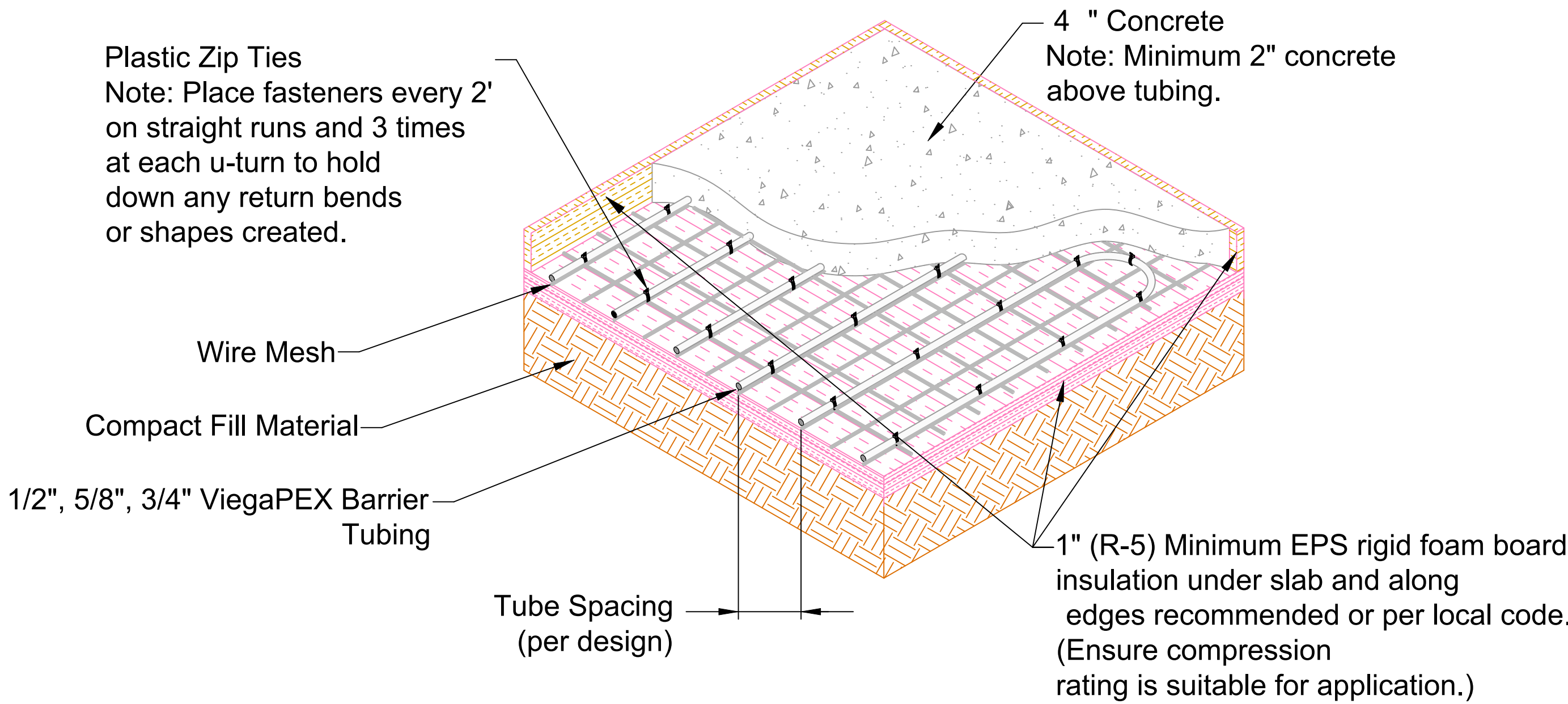
DRAWN BY:
Liam Collins

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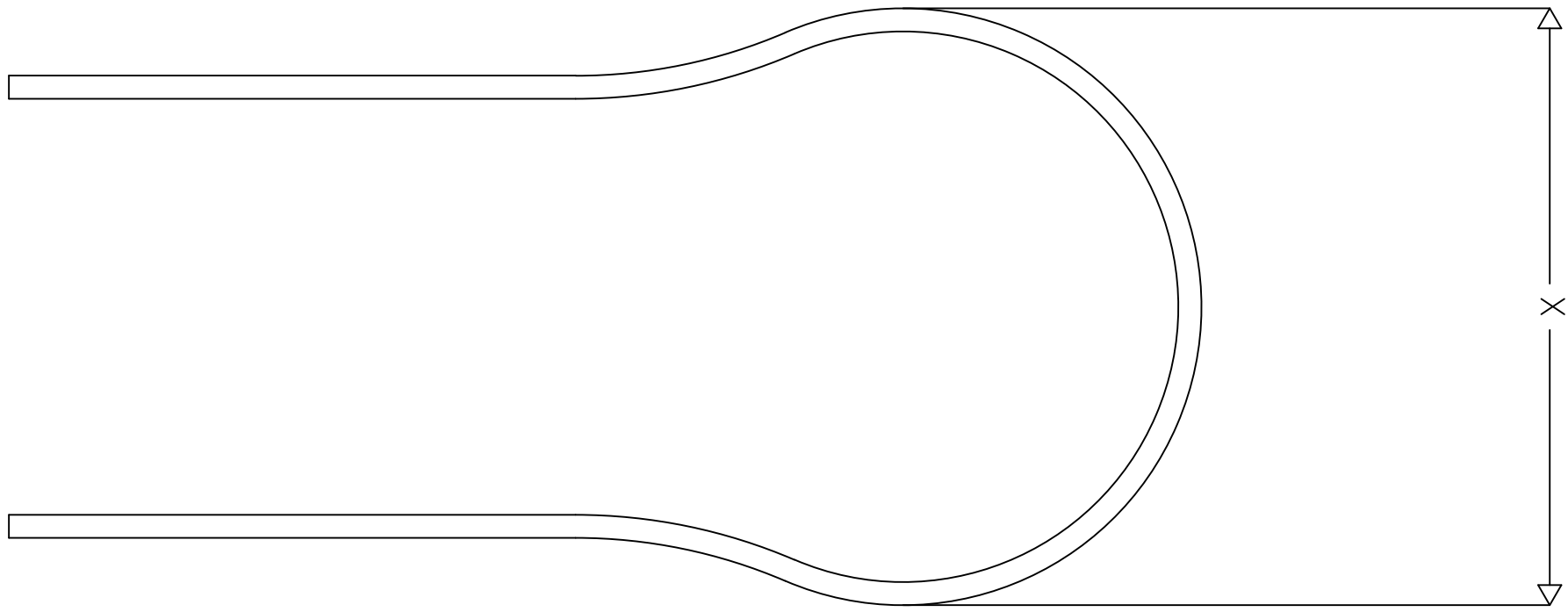
No	Desc	Date

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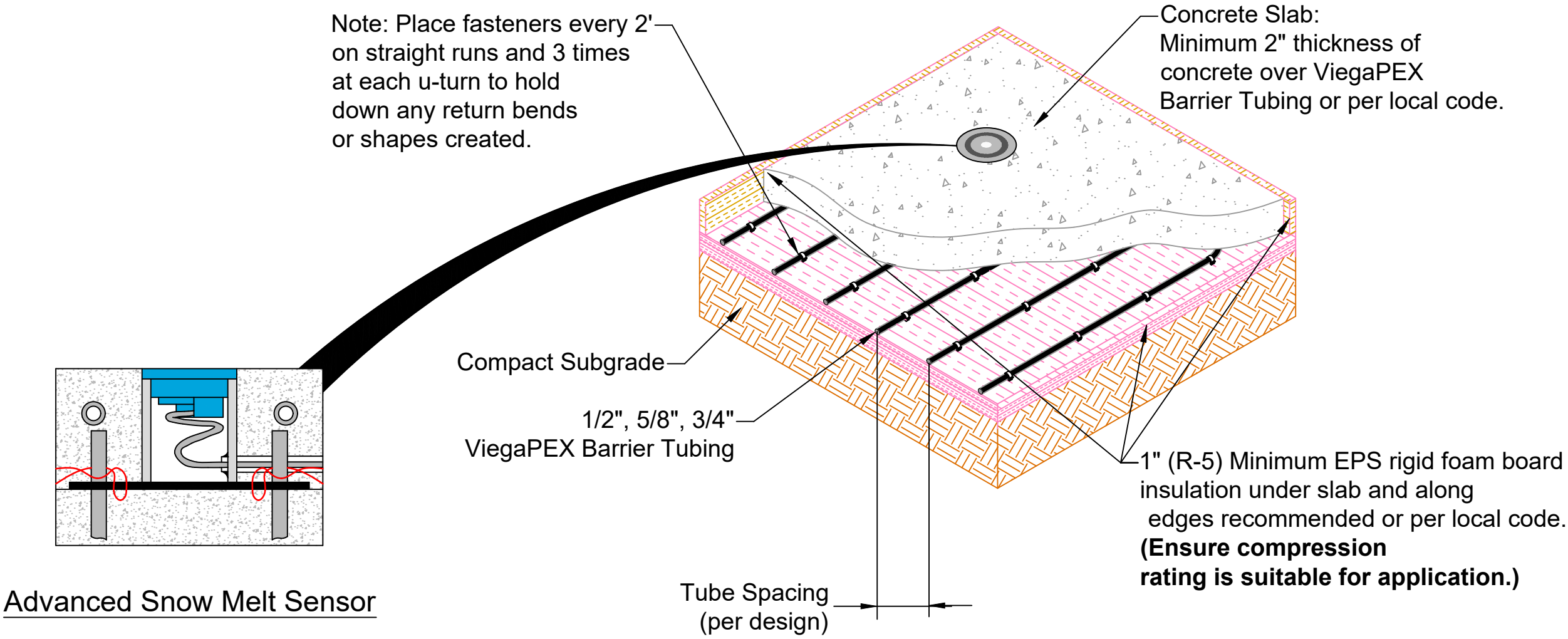
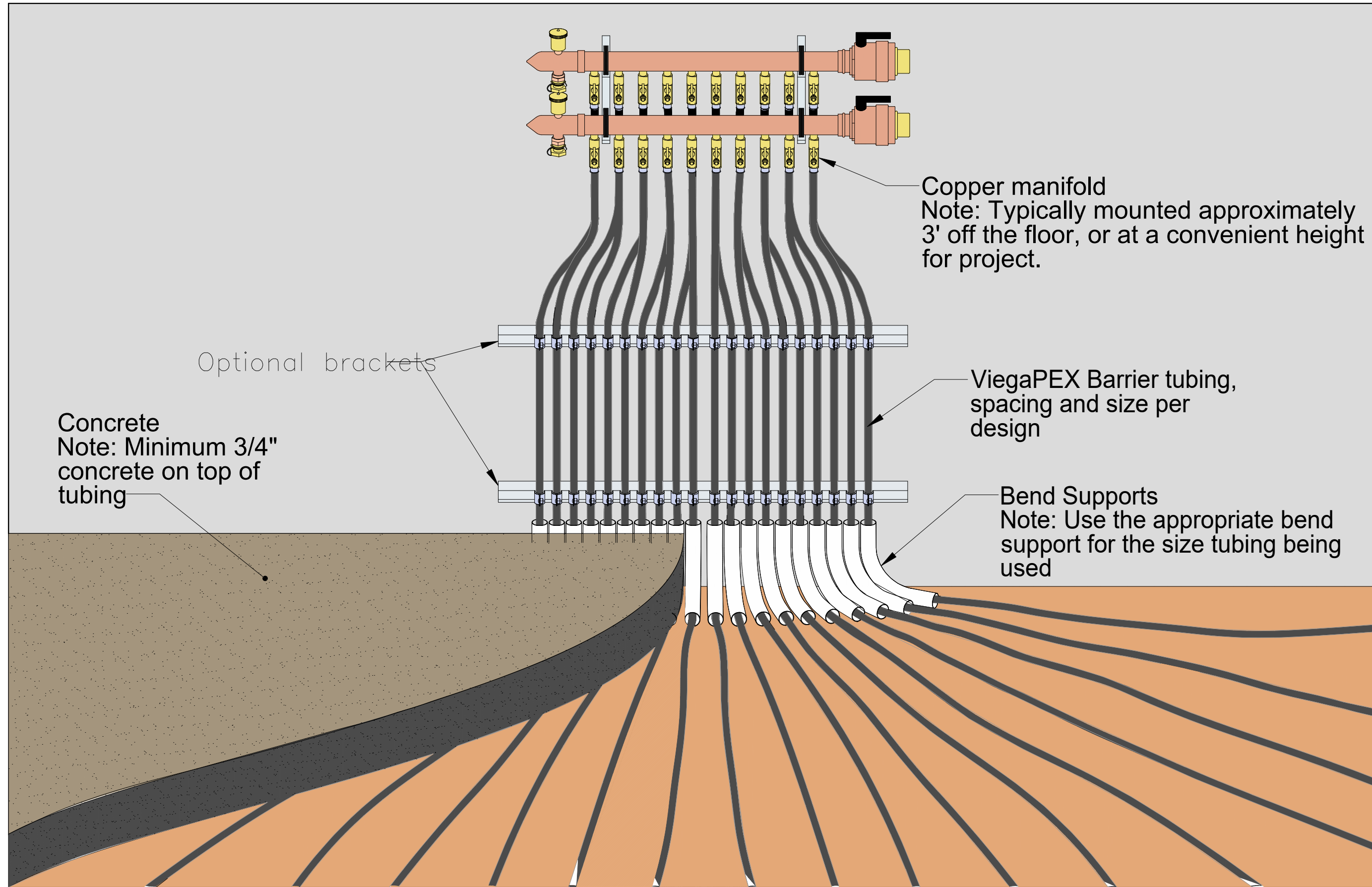
SNOW MELTING INSTALLATION - CONCRETE
Plastic Zip Ties



Tube Spacing
When the tube spacing is less than the minimum bending dimension, the loops ends should be swept out to at least the dimension shown.

Otherwise, if tube spacing is equal or greater than "X", a standard loop may be used.

Tubing Size	With the Coil
5/16"	7"
3/8"	8"
1/2"	10"
5/8"	12"
3/4"	14"
1"	18"
1 1/4"	22"
1 1/2"	26"
2"	34"



viega

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PROJECT:

CUSTOMER:

PROJECT NO.:
VLC260H-005

SCALE:
Not To Scale

DRAWING NAME:
Details

DRAWN BY:
Liam Collins

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