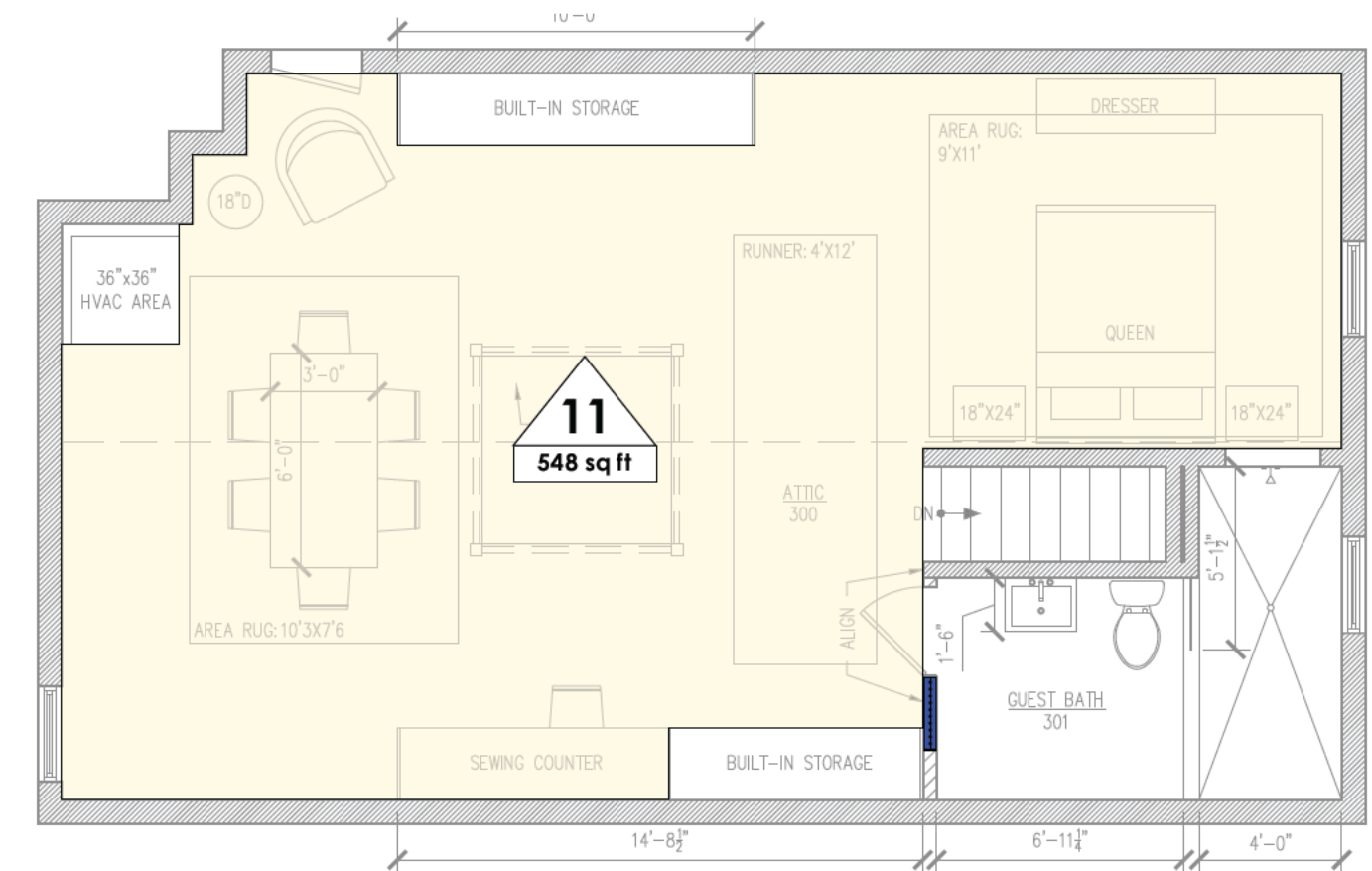
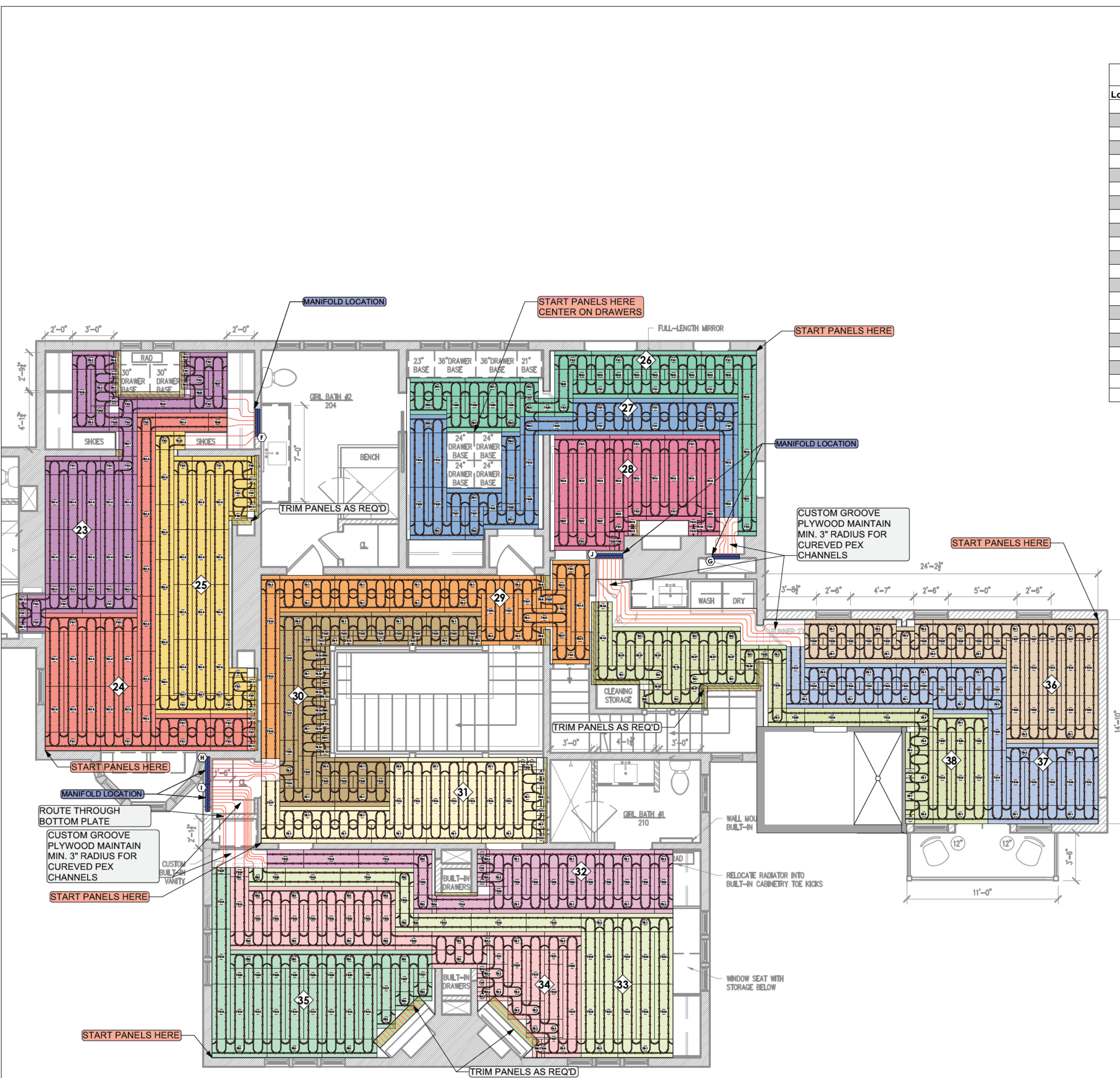


	1
	2
	3
	4
	5
	6
	7
	8
	9
	10
	11

ZONE	SQ FT
6	371
7	302
8	295
9	450
10	366
11	548
TOTAL	2332

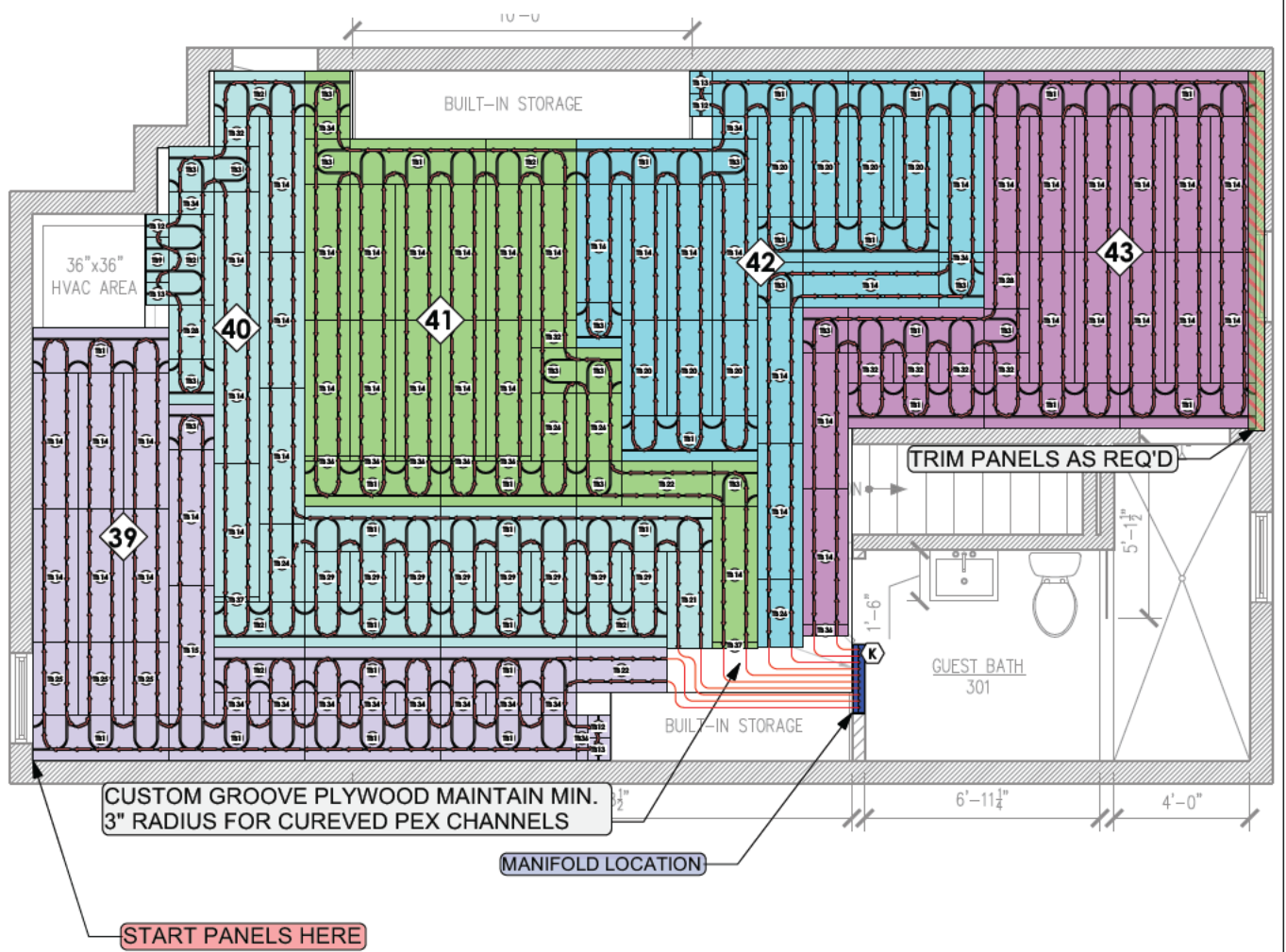


NOTE: SHADED AREAS TO BE COVERED
WITH ECOWARM PANELS, AREAS NOT
SHADED WILL NEED TO BE INFILLED WITH
TYP. SHEET GOODS

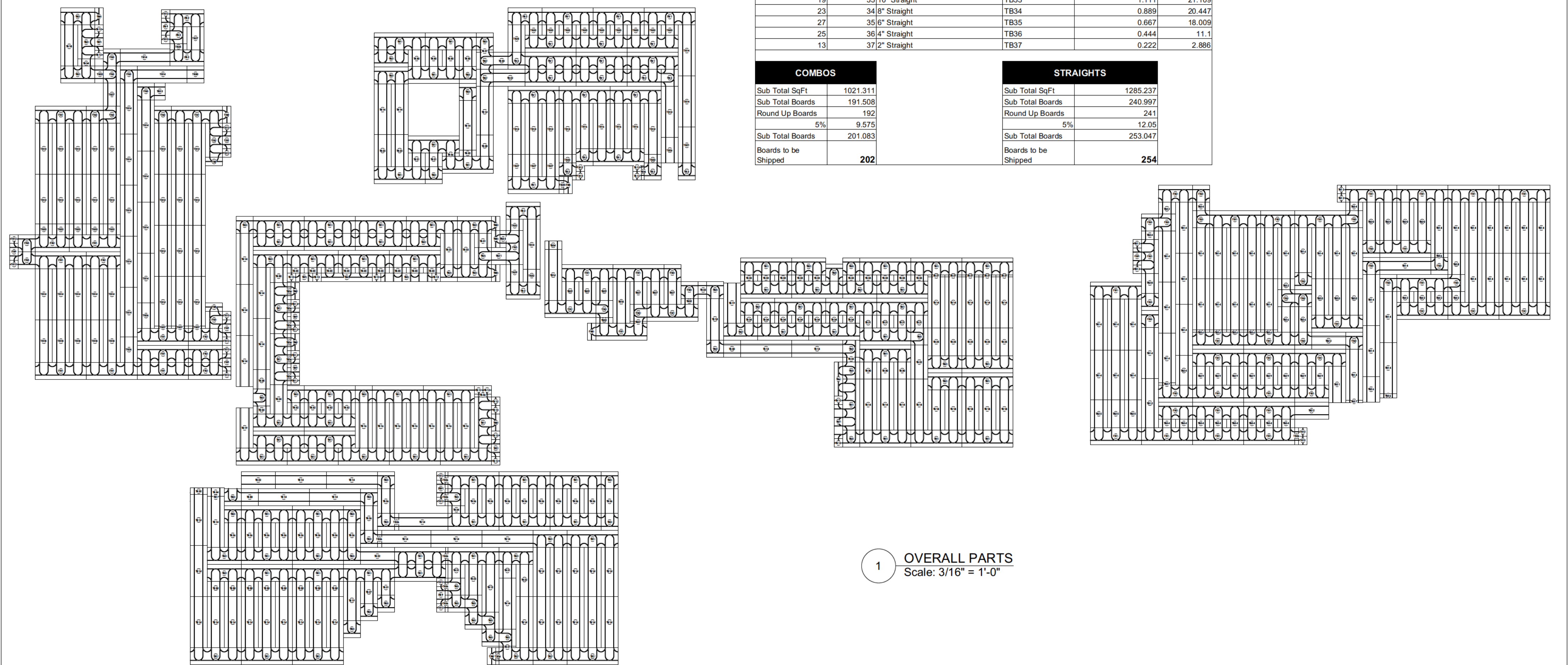


ESTIMATED PEX LENGTHS			
Loop	Feet of PEX In Board	Approx Leader Length	Est. Total Feet of PEX
23	178	6	184 FT
24	179	4	183 FT
25	172	11	183 FT
26	138	5	143 FT
27	143	6	149 FT
28	128	5	133 FT
29	141	10	151 FT
30	126	11	137 FT
31	134	10	144 FT
32	127	18	145 FT
33	156	17	173 FT
34	175	14	189 FT
35	173	11	184 FT
36	149	38	187 FT
37	148	39	187 FT
38	181	7	188 FT
39	150	13	163 FT
40	151	12	163 FT
41	154	9	163 FT
42	158	6	164 FT
43	160	3	163 FT
APPROX TOTAL			3476 FT

LOOP		
1	21	41
2	22	42
3	23	43
4	24	44
5	25	45
6	26	46
7	27	47
8	28	48
9	29	49
10	30	50
11	31	
12	32	
13	33	
14	34	
15	35	
16	36	
17	37	
18	38	
19	39	
20	40	



1 OVERALL FLOW DESIGN
Scale: 3/16" = 1'-0"



QTY	SORT	ITEM	PART #	SQ FT PER BOARD	TOTAL
129		1 48" Supercombo	TB1	5.333	687.957
40		2 32" Supercombo	TB2	3.556	142.24
79		3 16" Supercombo	TB3	1.778	140.462
1		4 48" Supercombo Top	TB4	2.667	2.667
1		5 48" Supercombo Bottom	TB5	2.667	2.667
1		6 2/3 Supercombo Top	TB6	1.778	1.778
1		7 2/3 Supercombo Bottom	TB7	1.778	1.778
13		8 1/6 Supercombo Top Half	TB8	0.889	11.557
13		9 1/6 Supercombo Bottom	TB9	0.889	11.557
21		12 1/12 Supercombo Left	TB12	0.444	9.324
21		13 1/12 Supercombo Right	TB13	0.444	9.324
145		14 48" Straight	TB14	5.33	772.85
2		15 46" Straight	TB15	5.111	10.222
12		16 44" Straight	TB16	4.889	58.668
13		18 40" Straight	TB18	4.444	57.772
3		19 38" Straight	TB19	4.22	12.66
7		20 36" Straight	TB20	4	28
2		21 34" Straight	TB21	3.778	7.556
7		22 32" Straight	TB22	3.556	24.892
5		23 30" Straight	TB23	3.33	16.65
2		24 28" Straight	TB24	3.11	6.22
9		25 26" Straight	TB25	2.889	26.001
25		26 24" Straight	TB26	2.667	66.675
9		27 22" Straight	TB27	2.44	21.96
4		28 20" Straight	TB28	2.222	8.888
12		29 18" Straight	TB29	2	24
20		30 16" Straight	TB30	1.778	35.56
11		31 14" Straight	TB31	1.556	17.116
12		32 12" Straight	TB32	1.333	15.996
19		33 10" Straight	TB33	1.111	21.109
23		34 8" Straight	TB34	0.889	20.447
27		35 6" Straight	TB35	0.667	18.009
25		36 4" Straight	TB36	0.444	11.1
13		37 2" Straight	TB37	0.222	2.886

COMBOS	
Sub Total SqFt	1021.311
Sub Total Boards	191.508
Round Up Boards	192
5%	9.575
Sub Total Boards	201.083
Boards to be Shipped	202

STRAIGHTS	
Sub Total SqFt	1285.237
Sub Total Boards	240.997
Round Up Boards	241
5%	12.05
Sub Total Boards	253.047
Boards to be Shipped	254

1 OVERALL PARTS
Scale: 3/16" = 1'-0"

THERMALBOARD

www.thermalboardradiantfloorheating.com 866-414-7244

Overall Parts

DMB

Sheet 3

09/13/2024

THERMALBOARD TYPICAL INSTALLATION DETAILS OVER WOOD SUBFLOOR

CARPET OVER THERMALBOARD RADIANT FLOOR HEATING

FLOATING ENGINEERED HARDWOOD OVER THERMALBOARD RADIANT FLOOR HEATING

LAMINATE FLOORING OVER THERMALBOARD RADIANT FLOOR HEATING

NAIL DOWN HARDWOOD OVER THERMALBOARD RADIANT FLOOR HEATING

VINYL OVER THERMALBOARD RADIANT FLOOR HEATING

TILE OVER THERMALBOARD RADIANT FLOOR HEATING

NOTE: TYPICAL INSTALLATION DETAILS ARE SHOWN. EXACT DETAILS MAY DIFFER BASED ON ARCHITECTURAL DESIGN. SOME FLOOR COVERINGS MAY NOT BE APPLICABLE TO THIS DESIGN AND OTHERS MY BE POSSIBLE. BE SURE TO READ AND INSTALL ACCORDING TO THE MOST RECENT THERMALBOARD DESIGN AND INSTALLATION MANUAL AS IT MAY CONTAIN ADDITIONAL DETAILS AND GUIDELINES. DETAILS FOR SPECIAL CIRCUMSTANCES SUCH AS INSTALLING OVER CONCRETE OR RADIANT WALL HEATING MAY BE DOWNLOADED FROM THE THERMALBOARD WEBSITE: www.thermalboardradiantfloorheating.com

- THERMALBOARD INSTALLATION GENERAL INSTRUCTIONS:**
 - The installer shall refer to the manufactures guidelines for installation methods of various floor coverings.
 - Custom grooves shall be routed as indicated on plans using a router jig and shall be made using a 5/8" core box router bit.
 - When applicable installation contractor shall coordinate with the plumbing contractor so as to have all plumbing stubbed out 12" above sub-floor prior to installation.
 - Remove all burrs left by custom routing and on angle holes. Holes for routing tubing below sub-floor shall be drilled using a 11/16" bit at the correct location and in the appropriate direction so that the end of the tube can be passed from the groove to the under floor area in the right direction to lead to the appropriate manifold location or the boiler panel.
 - All grooves shall be inspected and cleaned of any debris prior to tubing installation. Tubing shall be and remain pressurized immediately following installation of the the panels for the duration of all construction.
 - Tubing for the Thermalboard system shall be 3/8" PEX with oxygen diffusion barrier meeting CSA B137i5 certification and listed by ICBO, to ASTM F-876-93 and F-877-93

2 MANIFOLD INSTALLATION

SCALE: NONE

1 MANIFOLD INSTALLATION - MULTI ZONE MANIFOLD

SCALE: NONE

NOTE: This Thermalboard Radiant layout drawing is conceptual and diagrammatic and does not constitute a complete hydronic plan. While the board shown in this plan may be installed with labor that can carefully follow the plan, it should be coordinated with the trained and qualified plumbing or heating technician who shall install and make operational the required components of the complete hydronic heating system. The trained and qualified plumbing or heating technician shall supply and install all materials needed to complete this hydronic system. Technician also to provide any incidental work not shown or specified, which can be reasonably inferred as belonging to the work necessary to provide the complete system.

The boards shown in this plan are comprised of whole boards or boards to be cut in the field to fit what is shown in the plan

LOOPS	"A"
1	14"
2	16"
3	18"
4	20"
5	22"
6	24"
7	26"
8	28"
9	30"
10	32"

- ATTACHMENT OF THERMALBOARD TO WOOD SUBFLOOR:**

 - Consult and verify the fit and appropriateness of layout design before securing boards to subfloor.
 - Each Thermalboard shall be glued on the downward side to a wooden subfloor using construction adhesive type glue with a minimum 1/8" bead in the gluing pattern shown.
 - Each Ecowarm Board shall be attached to a wood subfloor at a minimum of 11x points as shown. They may be attached with screws at each point or cross stapled using a sheathing stapler with 2 staples at opposing 45° angles to each other at each location. Boards measure 16" by 48" with tubing on center. Request separate details when using over cement.

THERMALBOARD

www.thermalboardradiantfloorheating.com 866-414-7244

Details

DMB

Sheet 4

09/13/2024