

REVISIONS:	BY:

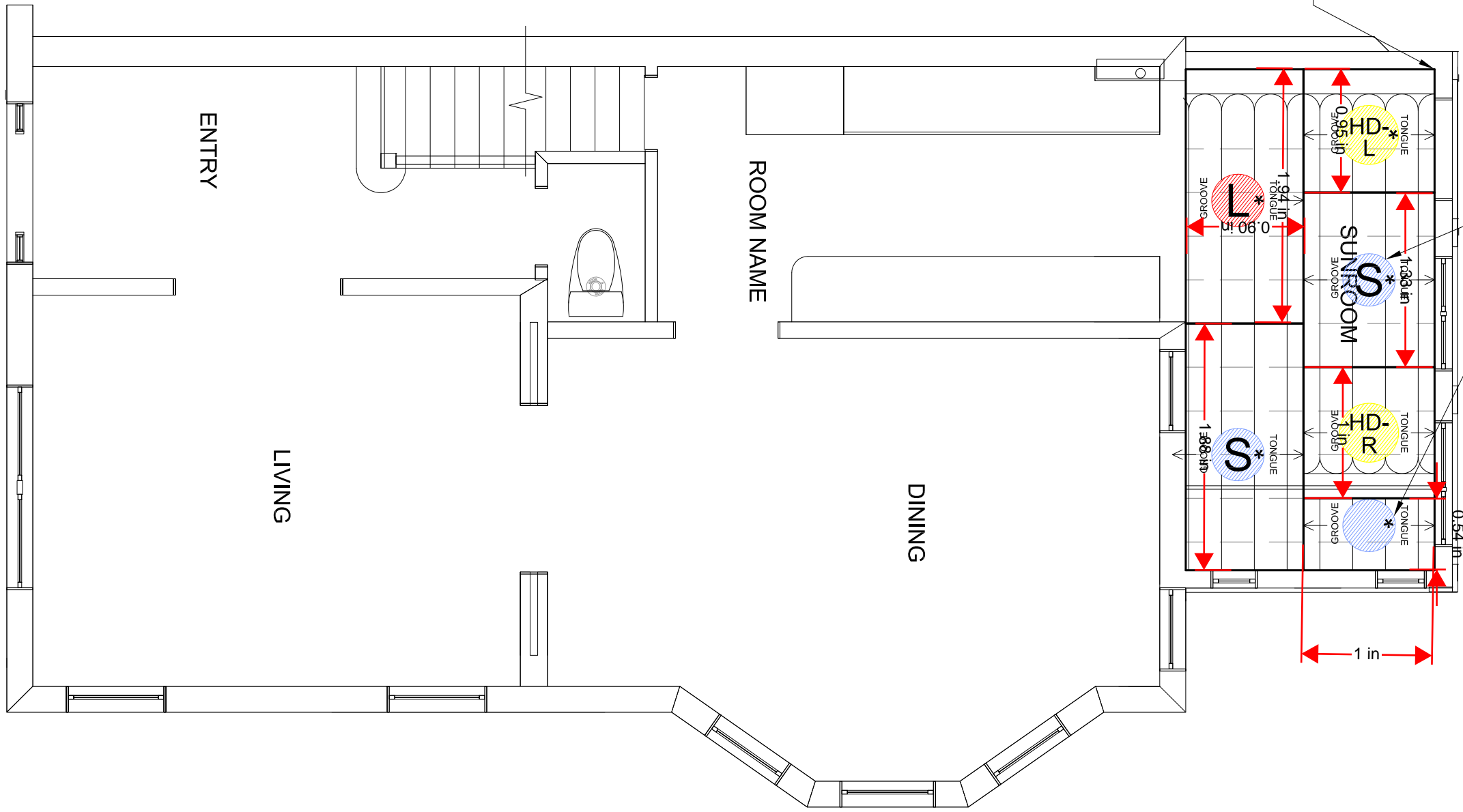
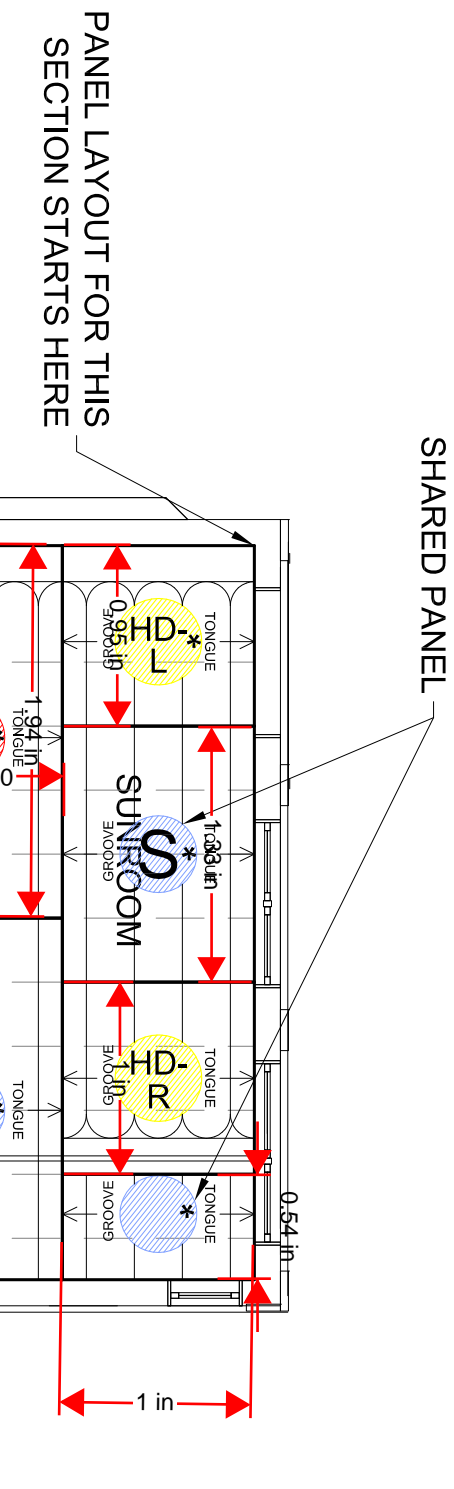
WARMBOARD, INC.
8035 SOQUEL DR. SUITE 41-A
APTOS, CA 95003
VOICE: (877)338-5493 FAX: (831)685-9278
WWW.WARMBOARD.COM EMAIL: PLANS@WARMBOARD.COM



GALLAS PROJECT
JOB# 44997
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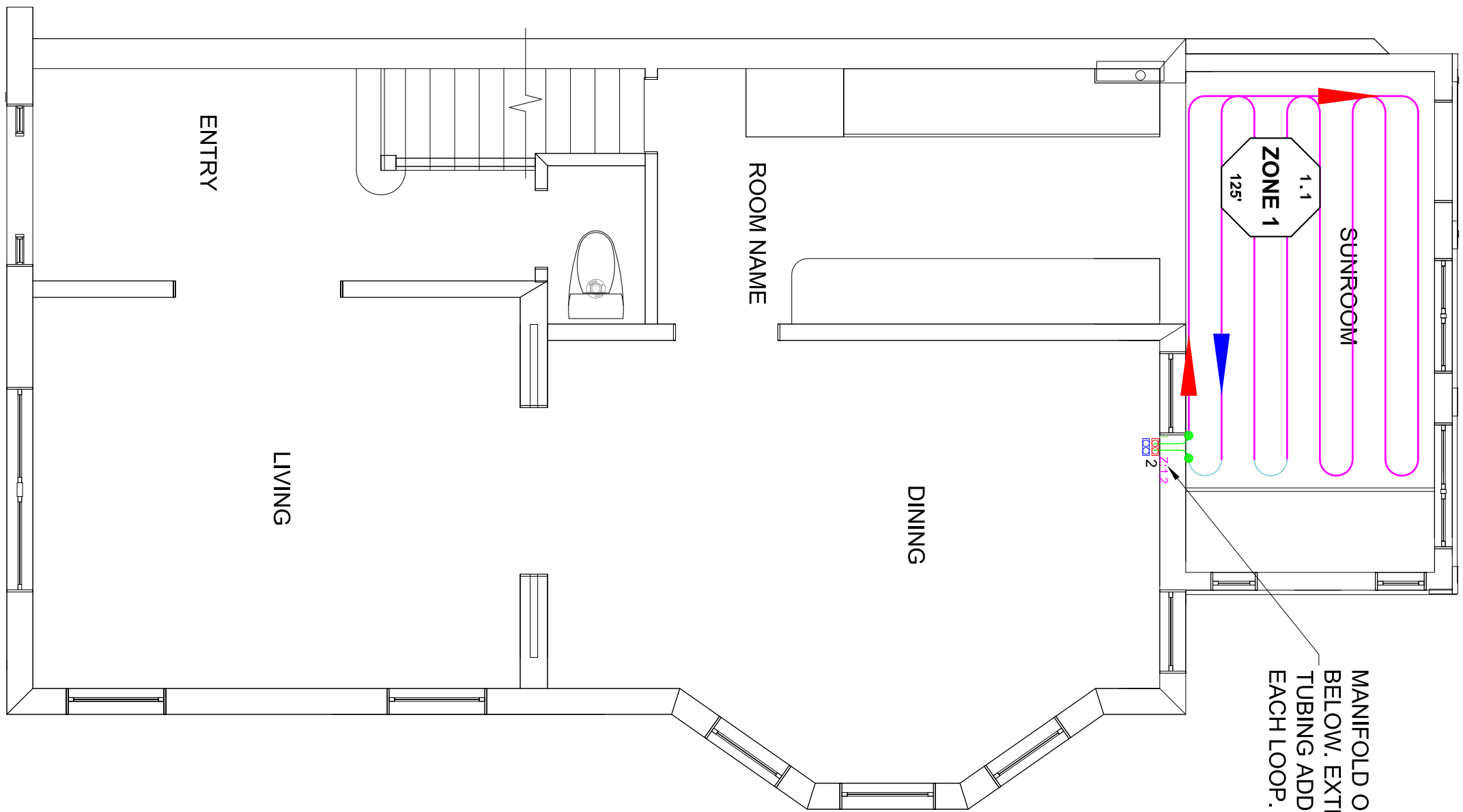
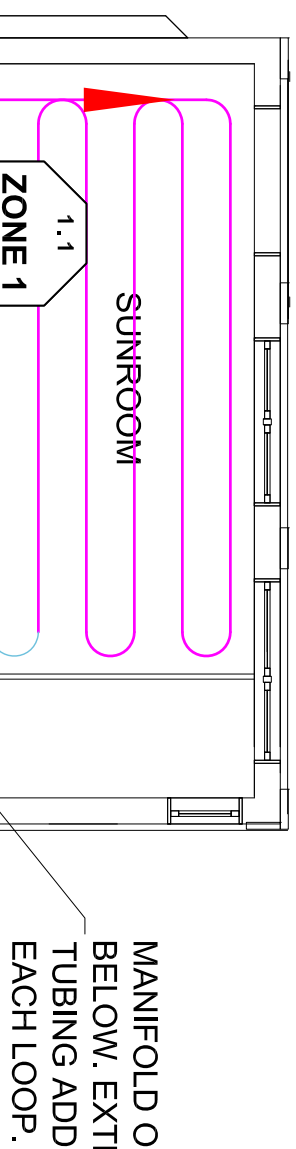
**PANEL-TUBE
LAYOUT**

DATE:	03/22/2016
SCALE:	1/4" = 1'
DRAWN:	R. Selchick
REVIEWED:	TW
SHEET:	1 OF 4



FIRST FLOOR PANEL LAYOUT

Scale: 1/4"=1'-0"



FIRST FLOOR TUBE LAYOUT

Scale: 1/4"=1'-0"

MANDATORY STRUCTURAL NOTES

1. TO ENSURE OPTIMAL PANEL INSTALLATION, FOLLOW PANEL LAYOUT PLANS, ALL WARMBOARD INSTALLATION INSTRUCTIONS, AND APA GUIDELINES. FAILURE TO DO SO COULD CAUSE PANEL WASTE.
2. WARMBOARD PLANS ARE CONCEPTUAL AND DO NOT SUPERSEDE STRUCTURAL PLANS WHICH MAY BE PART OF THE ARCHITECTURAL PLAN SET. SHOULD THERE BE A CONFLICT BETWEEN WARMBOARD PLANS AND THE STRUCTURAL PLANS, CONSULT IMMEDIATELY WITH WARMBOARD CUSTOMER SERVICE BEFORE PROCEEDING.
3. INSTALLING CONTRACTOR IS RESPONSIBLE TO VERIFYING ALL MEASUREMENTS PRIOR TO THE INSTALLATION OF WARMBOARD PANELS.

QUESTIONS? FOR IMMEDIATE ASSISTANCE
CALL: 877-338-5493 (8AM - 5PM PT)

PANEL SCHEDULE

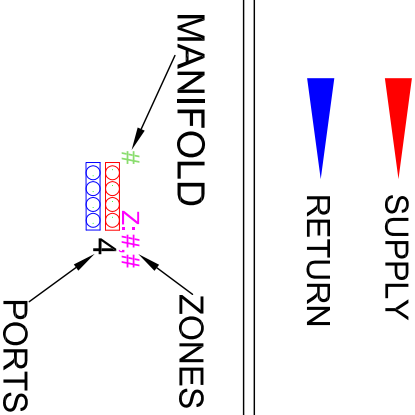
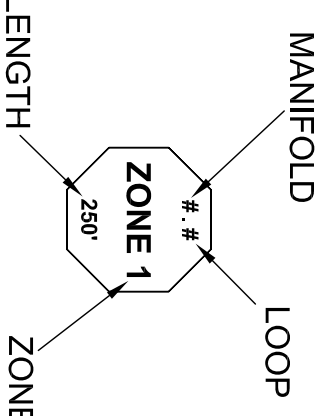
TYPE	QUANTITY	COMMENTS
S	2	(1)
L	1	(1)
R	0	(1)
D	1	(1) (2)
P	0	(3)

1. ANY PANELS IN THE DRAWING THAT ARE MARKED WITH AN ASTERISK (*) INDICATE A PANEL THAT IS TO BE TRIMMED. A TRIMMED PANEL IS STILL CONSIDERED A "WASTE" DOUBLE-LEFT PANEL, AND A "HALF DOUBLE-RIGHT" PANEL. ON THE PANEL LAYOUT, YOU MAY SEE A PANEL MARKED AS "HD-L" OR "HD-R". THESE PANELS ARE TO BE TRIMMED TO THE APPROPRIATE SIZE AS MARKED FOR THE INSTALLATION.
2. CONVENTIONAL TONGUE AND GROOVE PLYWOOD WARMBOARD MAY NOT BE APPROPRIATE.
3. PLYWOOD USED TO TIL IN EMPTY SPACES WHERE WARMBOARD MAY NOT BE APPROPRIATE.

WARMBOARD LEGEND

- S** STRAIGHT PANEL
- L** LEFT TURN PANEL
- R** RIGHT TURN PANEL
- D** DOUBLE TURN PANEL
- HD-R** HALF DOUBLE PANEL-RIGHT TURN
- HD-L** HALF DOUBLE PANEL-LEFT TURN
- P** CONVENTIONAL PLYWOOD PANEL
- *** ASTERISK DENOTES A TRIMMED PANEL

- JOIST
- TUBING
- CUSTOM GROOVE
- BURIED TUBING
- BURIED POINT



IMPORTANT NOTE: INSULATION BELOW WARMBOARD IS MANDATORY FOR PROPER PERFORMANCE.

MANDATORY TUBING NOTES

1. USE ONLY WARMBOARD APPROVED TUBING. SEE INSTALLATION MANUAL.
2. USE AN APPROPRIATELY WEIGHTED ROLLER TO PRESS TUBING INTO CHANNELS.
3. MINOR FIELD MODIFICATION OF TUBING PLAN IS WELCOME AND TYPICAL. WHEN IN DOUBT CALL WARMBOARD CUSTOMER SERVICE.

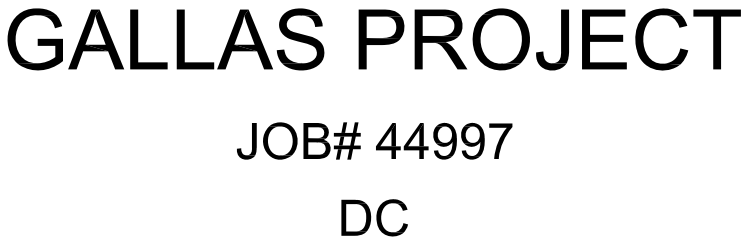
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**NOTE: TUBING IS REQUIRED
TO BE INSTALLED AFTER
WALLS ARE FRAMED**

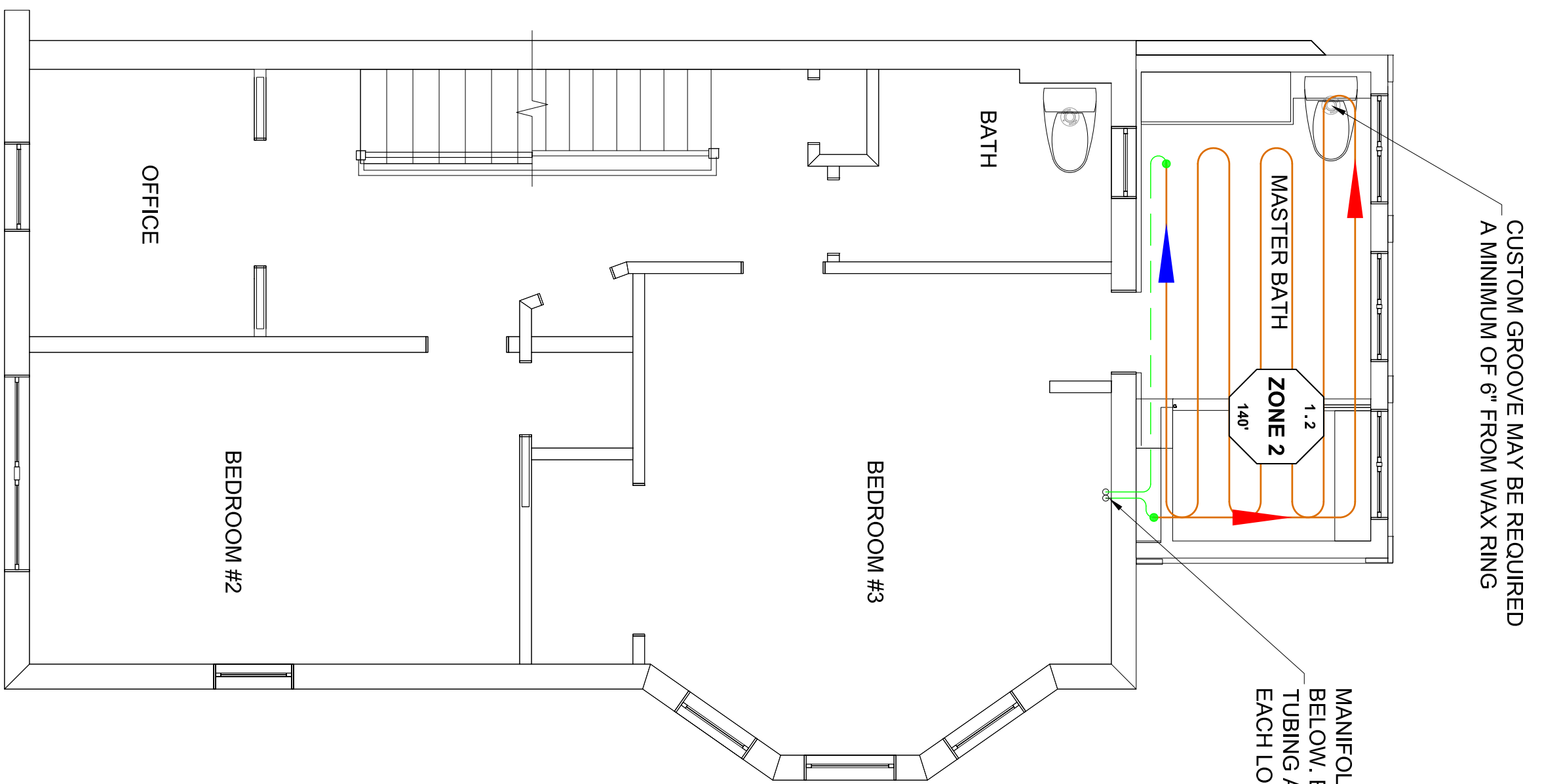
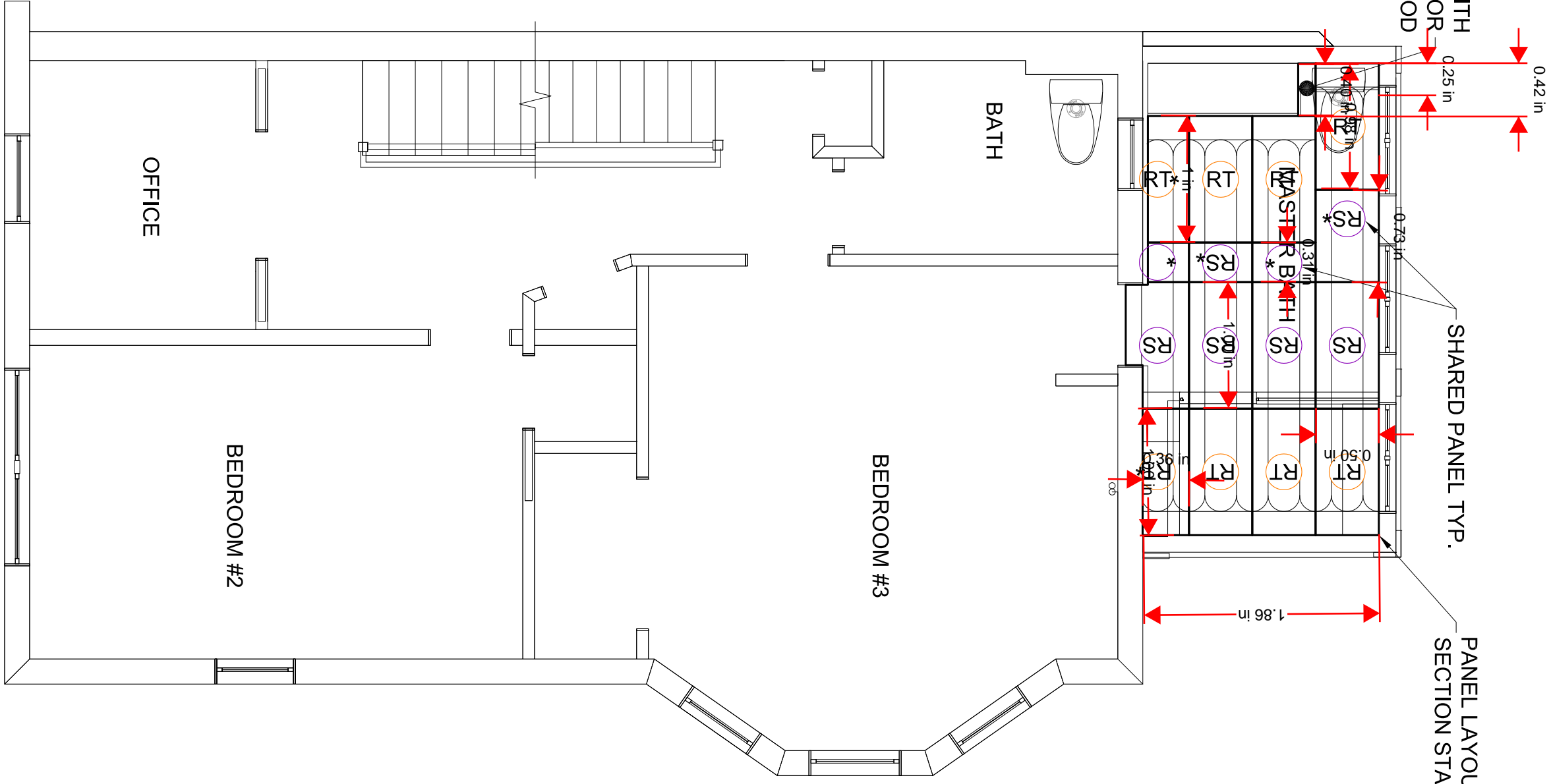
LOOP SCHEDULE

ZONE	MANIFOLD	LOOP	LENGTH
1	1	1	125'
Total			125'-0"

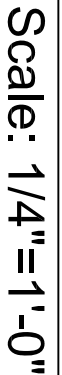
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DATE:	03/22/2016
SCALE:	1/4" = 1'
DRAWN:	R. Seitchick
REVIEWED:	TW



Scale: 1/4"=1'-0"



PANEL SCHEDULE		
TYPE	QUANTITY	COMMENTS
RS	6	①
RT	8	①
RP	0	②

RS REMODEL STRAIGHT PANEL		TUBING
RT REMODEL TURN PANEL		CUSTOM GROOVE
RP REMODEL OSB PLAIN PANEL		BURIED TUBING
* DENOTES TRIMMED PANEL.		BURIED POINT

IMPORTANT NOTE:
INSULATING JOIST CAVITIES BELOW EXISTING SUBFLOOR IS REQUIRED.

ZONE 1
260°
MANIFOLD
LOOP
SUPPLY
RETURN

ZONE 4
260°
MANIFOLD
PORTS
ZONES

MANDATORY TUBING NOTES

1. USE ONLY A WARMBOARD APPROVED TUBING. SEE INSTALLATION MANUAL.
2. USE AN APPROPRIATELY WEIGHTED ROLLER TO PRESS TUBING INTO CHANNELS.
3. MINOR FIELD MODIFICATION OF TUBING PLANS IS WELCOME AND TYPICAL. WHEN IN DOUBT CALL WARMBOARD CUSTOMER SERVICE.

QUESTIONS? FOR IMMEDIATE ASSISTANCE
CALL: 877-338-5493 (8AM - 5PM PT)

LOOP SCHEDULE			
ZONE	MANIFOLD	LOOP	LENGTH
2	1	2	140'
	Total		140'-0"

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2. WARBOARD PLANS ARE CONCEPTUAL AND DO NOT SUPERSEDE STRUCTURAL PLANS WHICH MAY BE PART OF THE ARCHITECTURAL PLAN SET. SHOULD THERE BE A CONFLICT BETWEEN WARBOARD PLANS AND THE STRUCTURAL PLANS, CONSULT IMMEDIATELY WITH WARBOARD CUSTOMER SERVICE BEFORE PROCEEDING.

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QUESTIONS? FOR IMMEDIATE ASSISTANCE
 CALL: 877-338-5493 (8AM - 5PM PT)

RETAIN ALL OFF CUTS
TO FILL IN SECTIONS
AS NEEDED.

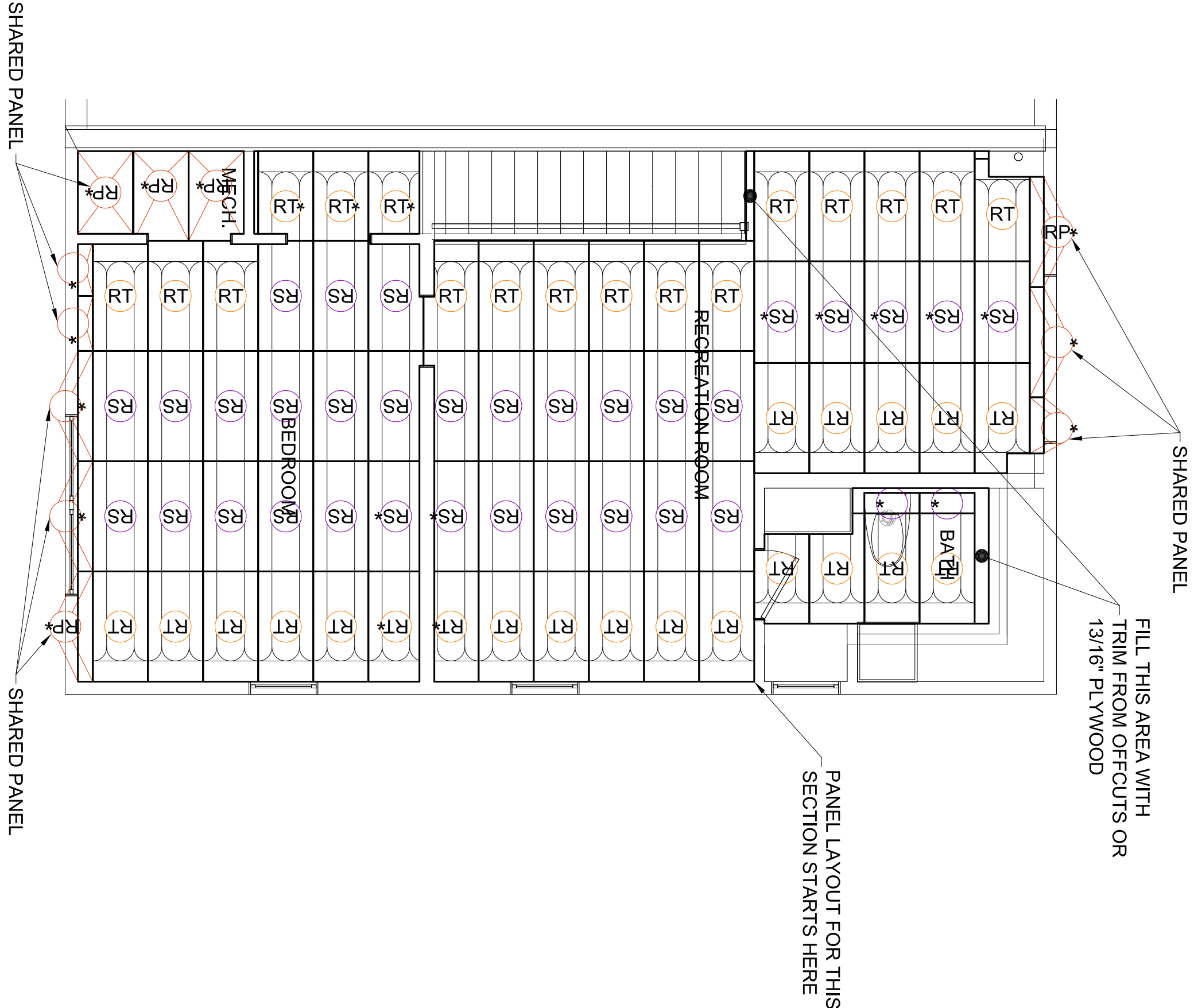
WARMBOARD LEGEND

RS REMODEL STRAIGHT PANEL
RT REMODEL TURN PANEL
RP REMODEL OSB PLAIN PANEL
***** DENOTES TRIMMED PANEL.

IMPORTANT NOT
INSULATING JOIST
CAVITIES BELOW
EXISTING SUBFLOOR
IS REQUIRED.

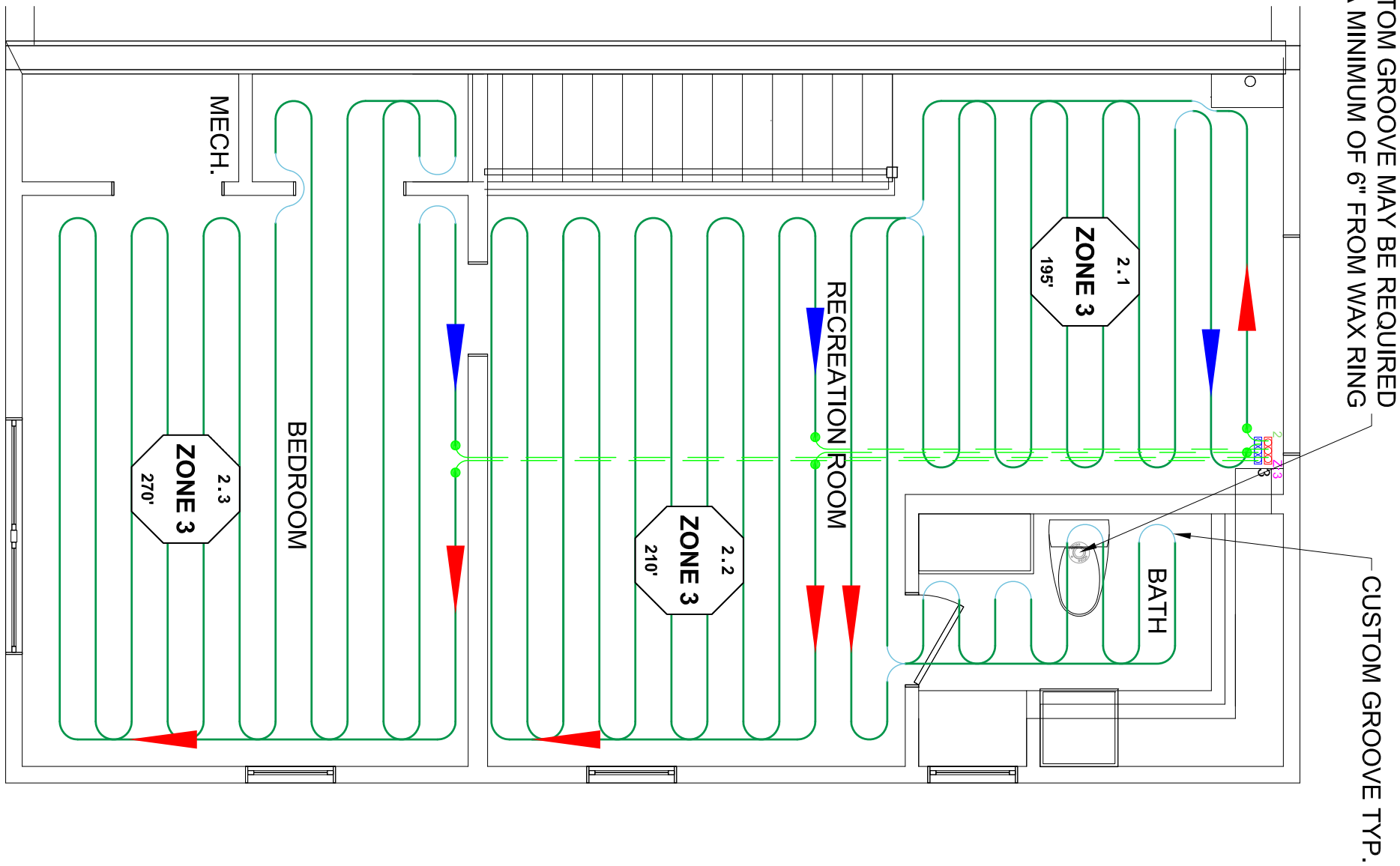
1. USE ONLY WARMBOARD APPROVED TUBING. SEE INSTALLATION MANUAL TO PRESS TUBING INTO CHANNELS.

QUESTIONS? FOR IMMEDIATE ASSISTANCE
CALL: 877-338-5493 (8AM - 5PM PT)



THIRD FLOOR PANEL LAYOUT

Scale: 1/4"=1'-0"



THIRD FLOOR TUBE LAYOUT

Scale: 1/4"=1'-0"

MANDATORY STRUCTURAL NOTES

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IMPORTANT:
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TO FILL IN SECTIONS
AS NEEDED.

PANEL SCHEDULE		
TYPE	QUANTITY	COMMENTS
RS	32	1
RT	38	1
RP	5	2

1

ANY PANELS IN THE DRAWING THAT ARE MARKED WITH AN "X" ARE TO BE REMODEL STRAIGHT PANELS. A CAREFUL MEASUREMENT SHOULD BE MADE TO GUARANTEE A CORRECT INSTALLATION.

2

OSB PLAINWOOD PANELS USED TO FILL IN EMPTY SPACES WHERE WARMBOARD PANEL MAY NOT BE APPROPRIATE.

WARMBOARD LEGEND

RS

REMODEL STRAIGHT PANEL

RT

REMODEL TURN PANEL

RP

REMODEL OSB PLAIN PANEL

* DENOTES TRIMMED PANEL.

TUBING

CUSTOM GROOVE

BURIED TUBING

BURIED POINT

IMPORTANT NOTE:

INSULATING JOIST CAVITIES BELOW EXISTING SUBFLOOR IS REQUIRED.

MANIFOLD

LOOP

ZONE 1

28'

ZONE

MANIFOLD

SUPPLY

RETURN

PORTS

ZONE 2

ZONE 3

ZONE 4

MANDATORY TUBING NOTES

1. USE ONLY WARMBOARD APPROVED TUBING. SEE INSTALLATION MANUAL

2. USE AN APPROPRIATELY WEIGHTED ROLLER TO PRESS TUBING INTO CHANNELS.

3. MINOR FIELD MODIFICATION OF TUBING PLANS IS WELCOME AND TYPICAL. WHEN IN DOUBT CALL WARMBOARD CUSTOMER SERVICE.

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ESTIMATED CUSTOM ROUTES			
TURNS			16
TOTAL LINEAR LENGTH OF STRAIGHT ROUTES			0'
LOOP SCHEDULE			
ZONE	MANIFOLD	LOOP	LENGTH
3	2	1	195'
3	2	2	210'
3	2	3	270'
Total			675'-0"

GALLAS PROJECT
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REVISIONS: BY:

PANEL-TUBE
LAYOUT

DATE: 03/22/2016
SCALE: 1/4" = 1'
DRAWN: R. Seitchick
REVIEWED: TW

THIS WARMBOARD DESIGN CONSIST OF: SPECIFYING PANELS, TUBING, AND MANIFOLDS ONLY.

WARMBOARD SHOP DRAWINGS DO NOT INCLUDE THE FOLLOWING:

ROOM BY ROOM HEAT LOSS CALCULATIONS, PROPER DESIGN OF FLOW RATES, REQUIRED WATER TEMPERATURES, SIZING OF CIRCULATION PUMPS, SIZING OF DISTRIBUTION LINES, SIZING OF OTHER COMPONENTS NECESSARY FOR PROPER HYDRONIC SYSTEM OPERATION, SPECIFICATION OF HEAT SOURCE, OR COMPLETE ELECTRONIC CONTROL STRATEGY. SUCH DESIGNS SERVICES RELATED TO THESE COMPONENTS OF A HYDRONIC SYSTEM ARE TYPICALLY PERFORMED BY THOSE RESPONSIBLE FOR SUPPLYING AND/OR INSTALLING THESE COMPONENTS.

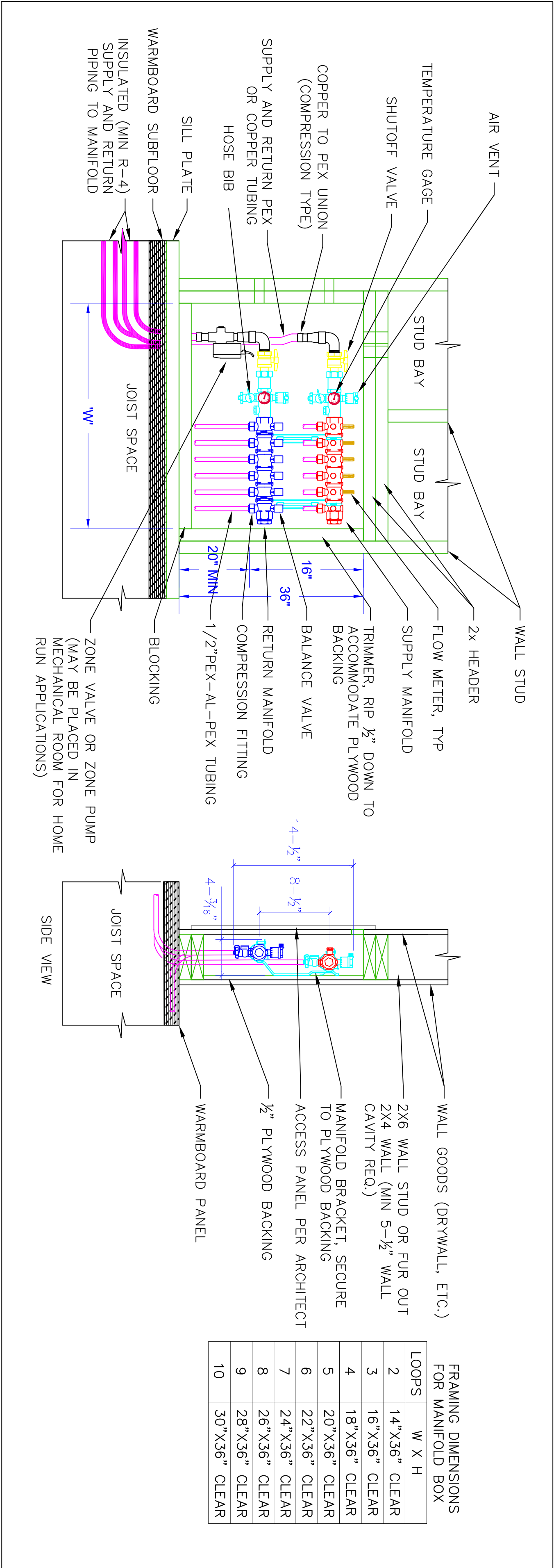
WARMBOARD INC. HIGHLY RECOMMENDS CONSULTING WITH A QUALIFIED RADIANT DESIGNER, MECHANICAL ENGINEER OR MECHANICAL CONTRACTOR FOR COMPLETE INTEGRATED SYSTEM DESIGN THAT MEETS OR EXCEEDS RPA GUIDELINES. DESIGN PROFESSIONALS SHALL RELY ON WARMBOARD TUBING LAYOUTS AND OUTPUT TABLES FOR THEIR DESIGN CALCULATIONS.

WHEN IN DOUBT, ASK!

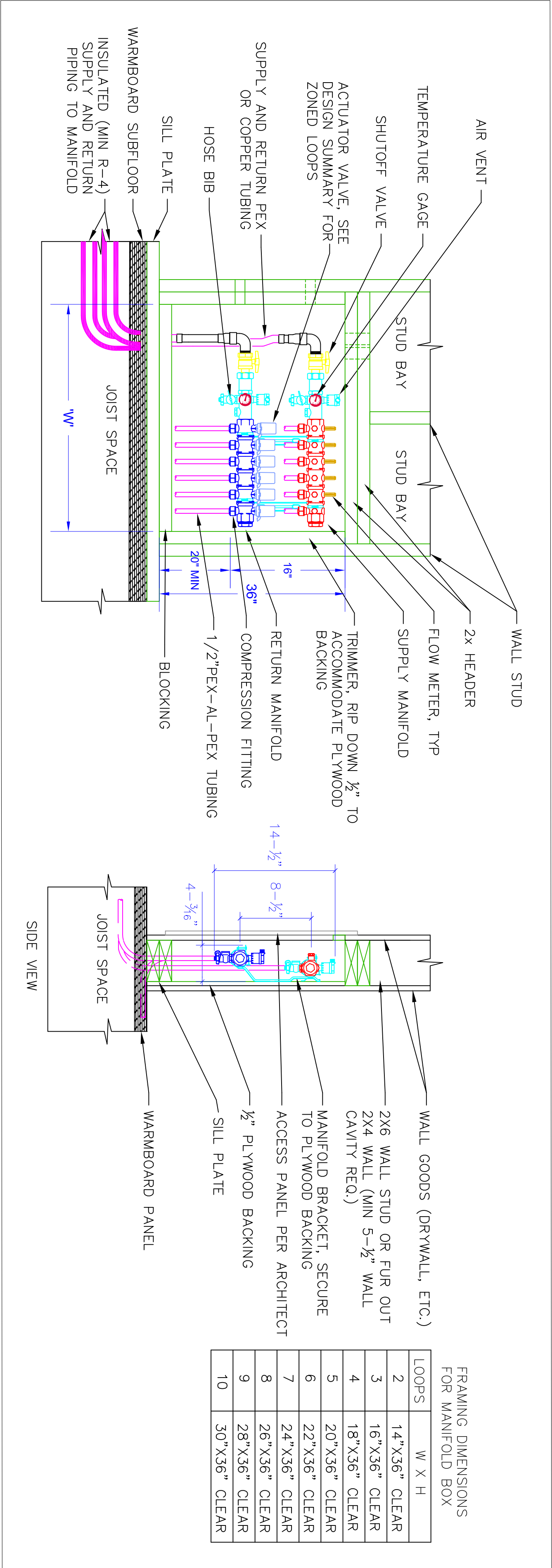
Please review all installation instructions. If there are any questions or need for technical assistance call: 1 877 338-5493

MANIFOLD & TUBING MATERIALS LIST		
QTY	DESCRIPTION	NOTES
1	1000' X 1/2" AL PEX ROLL	(1.1,1.2,2.1,2.2,2.3)940'
	500' X 1/2" AL PEX ROLL	
	300' X 1/2" AL PEX ROLL	
	SINGLE SUPPLY & RETURN	
1	2 PORT SUPPLY & RETURN MANIFOLD KIT	MULTI ZONE
1	3 PORT SUPPLY & RETURN MANIFOLD KIT	SINGLE ZONE
	4 PORT SUPPLY & RETURN MANIFOLD KIT	
	5 PORT SUPPLY & RETURN MANIFOLD KIT	
	6 PORT SUPPLY & RETURN MANIFOLD KIT	
	7 PORT SUPPLY & RETURN MANIFOLD KIT	
	8 PORT SUPPLY & RETURN MANIFOLD KIT	
	9 PORT SUPPLY & RETURN MANIFOLD KIT	
	10 PORT SUPPLY & RETURN MANIFOLD KIT	
10	1/2" COMPRESSION FITTINGS	
2	24 VOLT ACTUATORS	

1 SINGLE ZONE MANIFOLD INSTALLATION-NO ACTUATORS REQUIRED



2 MULTI ZONE MANIFOLD INSTALLATION- ACTUATORS REQUIRED



<div>1 - WARMBOARD-R OVER EXISTING STRUCTURAL SUBFLOOR</div> <div>2 - WARMBOARD REMODEL PANEL OVER SLAB</div>	<div>3 - PANEL CUT BACK DETAIL NO SCALE</div> <div>BURY POINT DETAIL SCALE: NONE</div>	<div>WARMBOARD-R INSTALLATION NOTES - MANDATORY:</div> <div>WHEN IN DOUBT, ASK!</div> <div>Please review all installation instructions. If there are any questions or need for technical assistance call: 1 877-338-5493</div> <div>TO ORDER PRODUCT PLEASE CALL: 1-877-338-5493</div> <div>A. GENERAL INFORMATION</div> <div>1. WARMBOARD-R IS ONE COMPONENT OF A HYDRONIC SYSTEM. THIS CONCEPTUAL PLAN COVERS ONLY PANEL AND TUBING LAYOUTS AND DOES NOT CONSTITUTE A COMPLETE INSTALLATION GUIDE FOR A HYDRONIC SYSTEM. Installation of a hydronic system employing Warmboard-R panels requires a combination of carpentry and plumbing skills. The general contractor shall be responsible for the skills, training, and experience of the installers. Warmboard, Inc. refers to Architectural Floor Plan information supplied by the customer. Deviations should be brought to the immediate attention of Warmboard, Inc. The hydronic contractor shall follow the tubing layout plan and tubing installation instructions supplied. They shall also be responsible for providing an accurate heat loss analysis and the installation of the hydronic system as a whole in accordance with Radiant Panel Association (RPA) guidelines. Design floor and supply water temperatures for a given floor covering will follow RPA guidelines and the Warmboard, Inc. recommended water temperatures chart.</div> <div>2. It is the installer's responsibility to assure the system functions properly, safely, and meets all local, state, and regional codes.</div> <div>3. The installer is to supply and install all materials shown on this plan, as well as all other materials needed to complete this hydronic system and any incidental work not shown or specified, which can be reasonably inferred as belonging to the work necessary to provide the complete system.</div> <div>4. Warmboard, Inc. makes no guarantee for any material to be installed in this hydronic system other than the Warmboard-R panels.</div> <div>B. WARMBOARD-R INSTALLATION</div> <div>1. WARMBOARD-R shall verify the compatibility of their layout with the attached floor plan.</div> <div>2. All supply and return tubing below subfloor in unconditioned space shall be insulated with pipe insulation.</div> <div>3. Custom grooves shall be routed as indicated on the plans using supplied router templates, a properly sized router equipped with a template guide, and the supplied 5/8\"/></div>
<div>RS STRAIGHT PANEL</div> <div>RT TURN PANEL</div> <div>RP OSB PANEL</div> <div>PR</div> <div>B.1 - WARMBOARD-REMODEL PANEL</div>	<div>WARMBOARD REMODEL PANEL SPECIFICATIONS</div> <div>A. GENERAL INFORMATION</div> <div>1. Warmboard Radiant Remodel panel is manufactured in the USA, and supplied by: Warmboard Inc. 8035 Soquel Drive, Ste 41A Aptos, CA 95003 877-338-5493</div> <div>2. Warmboard Remodel panels shall be 2'x4' OSB with a thickness of 13/16\"/></div>	<div>B - WARMBOARD REMODEL PANEL DETAIL</div> <div>SCALE: NONE</div>

<div>REVISIONS:</div> <div>BY:</div>	<div>WARMBOARD, INC.</div> <div>8035 SOQUEL DR. SUITE 41-A</div> <div>APTOS, CA 95003</div> <div>VOICE: (877)338-5493 FAX: (831)685-9278</div> <div>WWW.WARMBOARD.COM EMAIL: PLANS@WARMBOARD.COM</div>		<div>”SIMPLY SMARTER”</div> <div>RADIANT HEAT”</div>	<div>SPECIFICATION & INSTALLATION INSTRUCTIONS</div> <div>DATE: NTS</div> <div>SCALE: YOU</div> <div>DRAWN: J. M.</div> <div>REVIEWED: J. M.</div> <div>SHEET: WB-R SPEC</div>
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<div></div> <p>WARMBOARD OVER JOIST/TJI Scale: N/S</p>	<div></div> <p>WARMBOARD EXISTING SUBFLOOR Scale: N/S</p>	<div></div> <p>WARMBOARD CONCRETE w-SLEEPERS Scale: N/S</p>	<div></div> <p>WARMBOARD CONCRETE SLAB Scale: N/S</p>	<div></div> <p>BURY POINT DETAIL SCALE: NONE</p>
<div><p>WARMBOARD SPECIFICATIONS</p><p>A. GENERAL INFORMATION</p><ol style="list-style-type: none">Warmboard Radiant Subfloor is manufactured in the USA, and supplied by: Warmboard Inc. 8035 Soquel Drive, Ste 41A Aptos CA 95003 877-338-5493Warmboard panels shall be 4'x8' plywood, tongue and groove, with a thickness of 1-1/8".<p>Panels shall have 5/8" depth channels, consisting of straights and turns patterns, such channels on 12" centers to interface with 1/2" PEX aluminum PEX tubing. 4 Limber slots per panel. 2 limber slots cut on the bottom of the 4' end. Limber slots located 12" from the outside. Each slot is 5"x3/8"x 3/8"</p><p>The entire top skin (4'x8') of plywood shall have a highly conductive continuous sheet of 1100 series aluminum alloy, bonded to the entire surface.</p><p>The continuous sheet of aluminum shall completely contour in all channels depths: both turns and straight turns.</p><p>Panels shall be (4'x8') in one of the four tubing channel pattern options: - Straight, Double, Turns (turns at one end), Left or Right - (See Detail A.1).</p><ol style="list-style-type: none">All panels installed will meet or exceed all specifications documented on Warmboard engineered AutoCAD drawings and Warmboard Installation manualSupplied panels will meet or exceed APA certification and report #T2002Q-37All panels installed will meet or exceed ICC Evaluation ESR# 1421and CSA0325 (Canadian Standards Association).Panel assembly shall be one of the following: Warmboard structural subfloor installed over existing Joist or T.JI. (See Detail B) Warmboard structural subfloor installed over existing concrete slab (See Detail C) Warmboard structural subfloor installed over existing concrete slab with sleepers (See Detail D) Warmboard Structural subfloor installed over existing structural plywood, decking or OSB. (See Detail E)</div>				
<div></div> <p>A- WARMBOARD PANEL DETAIL SCALE: NONE</p>				
<div><p>WARMBOARD INSTALLATION NOTES - MANDATORY:</p><p>The contractor(s) responsible for the installation of the Warmboard panels, as well as any hydronic tubing supplied by other, shall review these plans for accuracy and completeness. These contractors will also be responsible to verify all measurements prior to any Warmboard installations. Any discrepancy between these plans and the framing of the project for which they apply shall be brought to the immediate attention of Warmboard, Inc.</p><p>WHEN IN DOUBT , ASK!</p><p>Please review all installation instructions. If there are any questions or need for technical assistance call: 1 877-338-5493</p><p>TO ORDER PRODUCT PLEASE CALL: 1-877-338-5493</p><p>A. GENERAL INFORMATION</p><p>1. WARMBOARD IS ONE COMPONENT OF A HYDRONIC SYSTEM. THIS CONCEPTUAL PLAN COVERS ONLY PANEL AND TUBING LAYOUTS AND DOES NOT CONSTITUTE A COMPLETE INSTALLATION GUIDE FOR A HYDRONIC SYSTEM. Installation of a hydronic system employing Warmboard-R panels requires a combination of carpentry and plumbing skills. The general contractor shall be responsible for the skills, training, and experience of the installers. Warmboard refers to floor framing information supplied by the customer. Deviations should be brought to the immediate attention of Warmboard, Inc. The hydronic contractor shall follow the tubing layout plan and tubing installation instructions supplied. They shall also be responsible for providing an accurate heat loss analysis and the installation of the hydronic system as a whole in accordance with Radiant Panel Association (RPA) guidelines. Design floor and supply water temperatures for a given floor covering will follow RPA guidelines and the Warmboard recommended water temperatures chart.</p><p>2. It is the installer's responsibility to assure the system functions properly, safely, and meets all local, state, and regional codes.</p><p>3. The installer is to supply and install all materials shown on this plan, as well as all other materials needed to complete this hydronic system and any incidental work not shown or specified, which can be reasonably inferred as belonging to the work necessary to provide the complete system.</p><p>4. Warmboard makes no guarantee for any material to be installed in this hydronic system other than the Warmboard panels.</p><p>B. WARMBOARD INSTALLATION</p><ol style="list-style-type: none">WARMBOARD shall verify the compatibility of their layout with the attached floor framing plan. Special attention shall be given to the compatibility of Warmboard panels and joist layout.All supply and return tubing below subfloor in unconditioned space shall be insulated with R-4.0 pipe insulation.Custom grooves shall be routed as indicated on the plans using supplied router templates, a properly sized router equipped with a template guide, and the supplied 5/8" core box router bit. All router use shall conform to supplied instructions, and all safety instructions provided by manufacturer of the router you plan to use.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.Alignment pins shall be used for proper alignment of panels.Any excess adhesive that may interfere with tubing installation shall be removed.All burns left by custom routing and on angle holes shall be removed.Refer to manufacturer's installation manual for additional guidelines for this product.<p>C. TUBING INSTALLATION</p><ol style="list-style-type: none">Holes for routing below sub-floor shall be drilled using an 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 under the floor area in the right direction, leading to the appropriate manifold location or the boiler panel.All grooves shall be inspected and cleaned of any debris prior to tubing installation.Tubing for radiant floor heating shall be 1/2" PEX approved by Warmboard, In. (See approved tubing list).Tubing shall be and remain pressurized immediately following installation into the panel diaphragm for the duration of all construction. Caution, do not install silicone or other types of adhesives in tubing channelInstaller is responsible for protecting tubing from freezing during construction. Should climatic conditions occur, this would require adding antifreeze and corrosion inhibiting fluids upon completion of work.Installer to record length of every pipe and photograph completed installation.Special note for carpeted areas: Short pieces of PEX tubing (typically offsets) shall be pressed into any unused groove areas. This provides support for the pad & carpet.</div>				

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