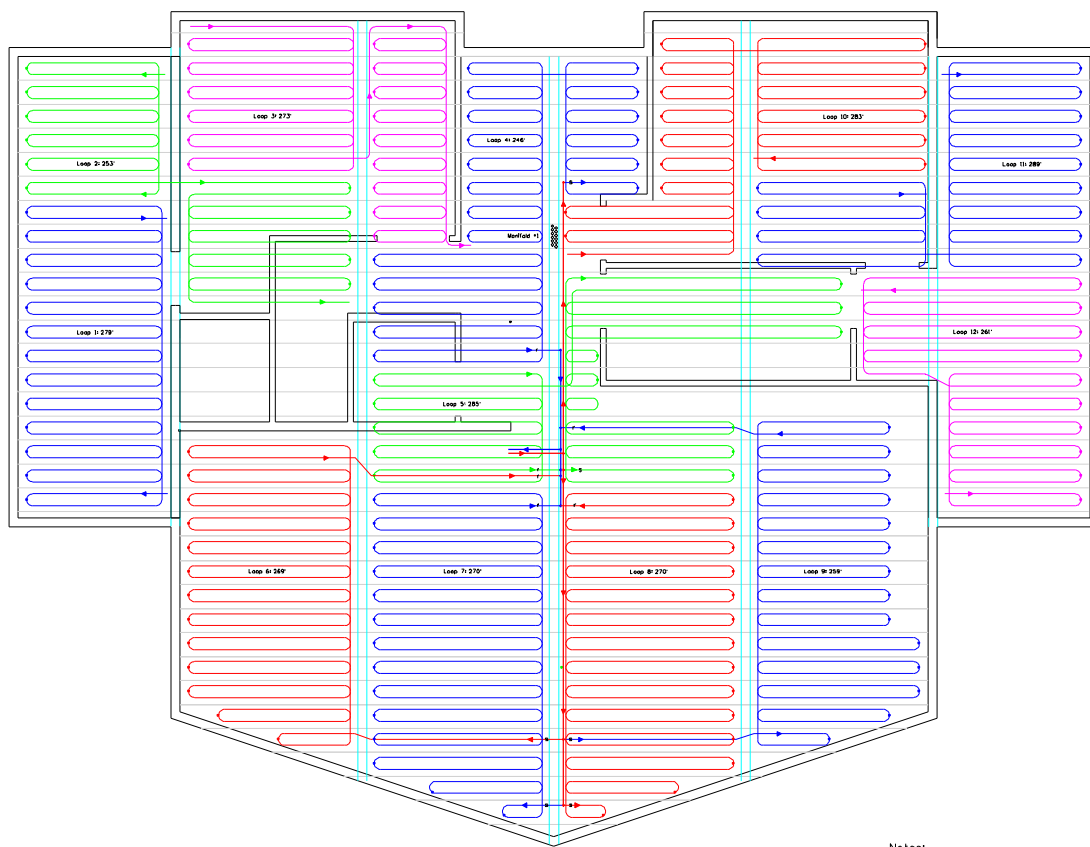
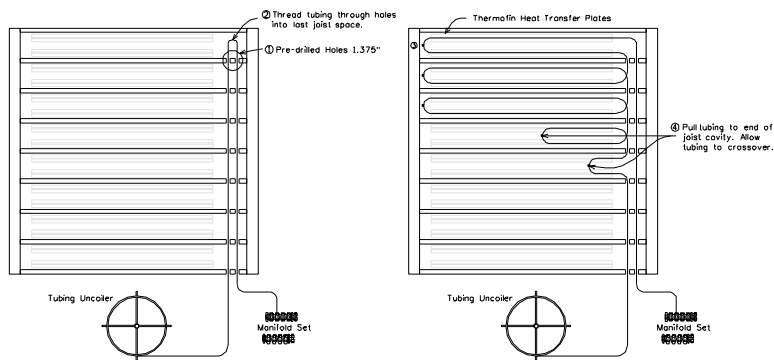
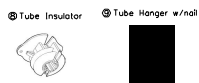


Installation Instructions for Tubing Below Subfloor

1. Drill 1.375" holes through joists to allow tubing to run to last joist cavity. Follow manufacturers and/or local code permissions for hole locations.
2. Spool pipe from uncoiler through holes into the last joist cavity being supplied by the loop. Return pipe back to distribution manifold and secure.
3. Pull pipe into the first joist space. Allow enough space at end of joist cavity for rim joint insulation if required (typically 6"-8"). Do not allow tubing to come into contact with rim joists. Snap into heat transfer plate, working back toward uncoiler.
4. Proceed to pull the tubing into each remaining joist space. Allow pipe to crossover as shown to prevent kinking. Continue to snap tubing into heat transfer plates.
5. After running through last joist cavity, return to manifold and secure.
6. Ensure that all tubing is completely snapped into track of heat transfer plates.
7. Install remaining loops, and perform an air pressure test.
8. Install plastic tubing insulators into each 1.375" hole.
9. Install full clamp tubing hangers w/ nail wherever tubing is in contact with joists, beams, etc. This will eliminate potential for expansion/contraction noises.



- Notes:
- Loops 1, 2, 3, 10, 11, & 12 (bedrooms and bathrooms) originate and terminate at manifold #1.
 - Manifold #1 shall be a pre-assembled Caleffi6 loop with micrometric balancing valves on supply side and shut-off valves on return side.
 - Manifold #1 shall be fed with 0.75" Pex routed back to mechanical room.
 - Loops 4, 5, 6, 7, 8, & 9 (great room) shall originate and terminate from a 0.75" main supply and return header.
 - Approved Pex crimp fittings shall be used to couple great room loops into 0.75" Pex supply and return.
 - Great room supply and return header shall route back to mechanical room.
 - Observe supply and return as noted on each loop.
 - Each loop is 0.5" Pex with oxygen barrier.

Drawn By: Courtney Carrier
 Scale: 3/32" = 1'
 Original Date: 2.1.08
 Revision Date: 3.10.08

Satisfied Customer

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