Snow Melt System:
Furnish and install in accordance with manufacturer’s recommendations and as indicated on plans for 1,700 square-feet area. All components of the system shall be provided by one manufacturer; including pipe, manifolds, wire ties, and pipe bend supports.

Pipe shall be Cross-linked Polyethylene rated at 180 degrees f maximum working temperature and 100 psi working pressure. Pipe shall be nominal 5/8” diameter and shall be manufactured in accordance with ASTM Standard F876877. The pipe will not be adversely affected by exposure to petroleum products such as motor oil, gasoline, etc. The pipe will not become brittle at temperatures as low as -50 degrees f. The minimum bend radius of the pipe shall not be greater than 7 times the diameter in cold bending. The pipe shall consist of 3 layers of material, Cross-linked polyethylene, oxygen diffusion barrier capable of limiting oxygen diffusion through the pipe to no greater than .005 mg/ld (104 degrees F.), and Cross-linked polyethylene to protect the oxygen diffusion barrier and inner layer from normal job site abuse.

Manifolds shall be cast bronze construction and shall have integral circuit balancing valves. Provide bronze angle valves to connect manifolds to supply and return piping. Angle valve to be suitable for isolation and balancing. Cross-linked Polyethylene shall carry a 20-year non-prorated warranty against failure due to manufacturing defects or exposure to stress cracking agents. Manifolds and other ancillary components shall be warranted for 1 year from system startup.

Provide plate/frame heat exchanger, pumps, glycol makeup system and all isolations valves and control. Control devices including but not limited to: 4-way electronic control valve; snow/ice detector and control unit. The manufacturer shall provide tubing layout for each zone, and supervise the installation. Photographs shall be taken during tube installation at each zone prior to concrete covering. Photos shall be submitted along with certification from the manufacturer’s representative stating that the entire system has been installed, filled with the proper 50 percent by weight propylene glycol and water solution, tested in all modes of operation, and that the owner's operation staff have been properly trained in the operation, trouble-shooting, and maintenance of the system. Wirsbo or equivalent.