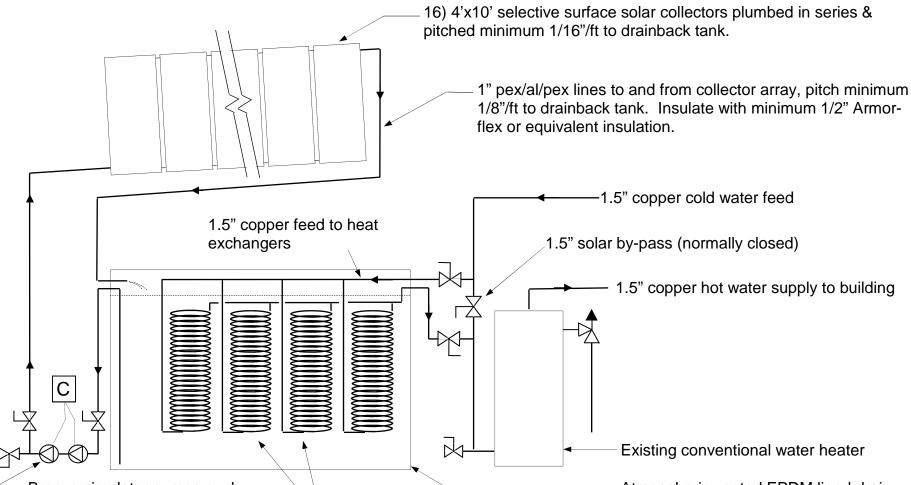
## **SINGLE LINE MECHANICAL DIAGRAM**



Bronze circulator pumps push water through the collectors. Prewired pumps plug into a pre-wired controller. The controller turns pumps on when the temperature in the solar collectors exceeds the temperature at the bottom of the tank. Stabilized flow through the pumps to be between 8 to 12 gpm.

4) 3/4" x 100 soft copper L submersed pressurized heat exchangers plumbed in parallel preheat the incoming cold water before it feeds the hot water heater. Atmospheric vented EPDM lined drainback tank stores non-pressurized heat exchange fluid (2,500 gallons of water). The water in turn stores the solar BTUs until needed for preheating cold water feeding the conventional heater.