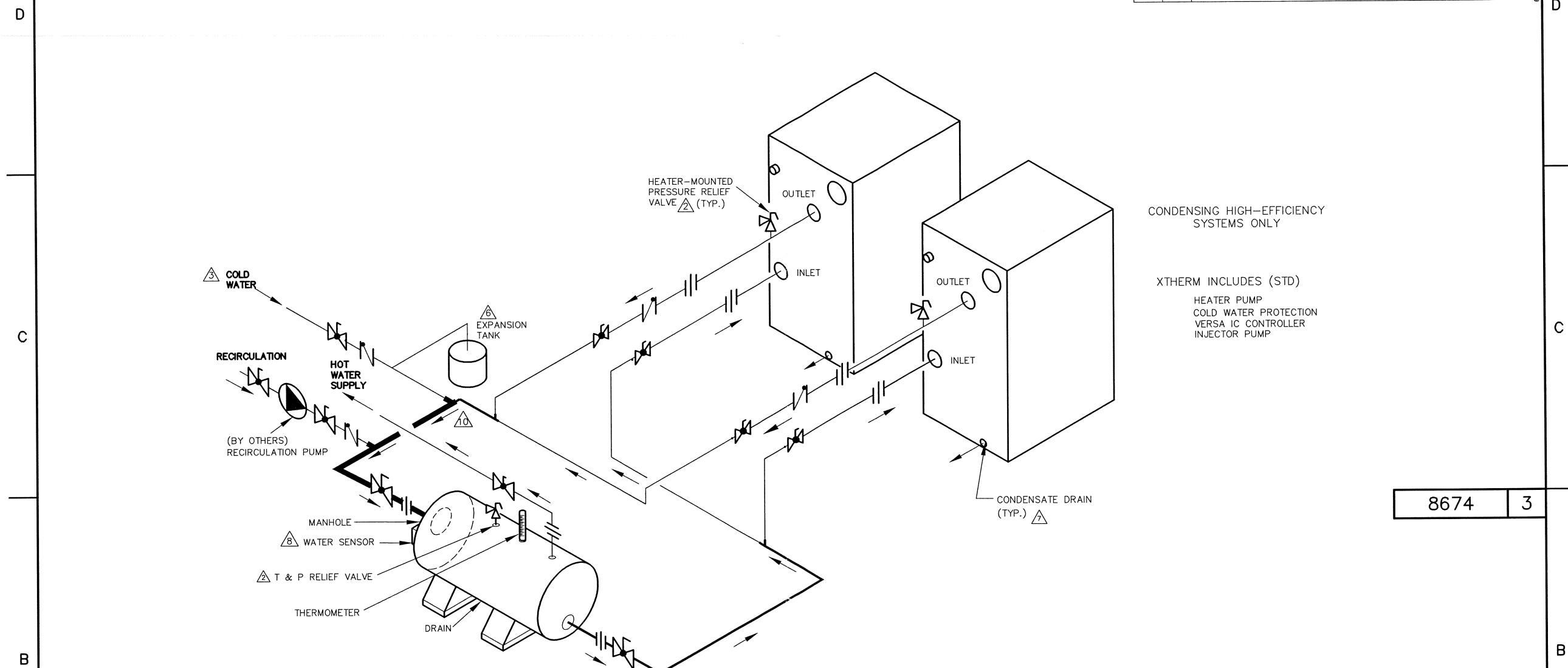


PIPE SIZES		
	1 UNIT	2 UNITS
1005-2005	2-1/2"	4"

THIS PIPING DIAGRAM IS RAYPAK'S RECOMMENDATION AND IS NOT INTENDED TO REPLACE AN ENGINEERED PIPING SYSTEM DESIGNED BY A PROFESSIONAL ENGINEER.

REVISIONS						
REV	ZONE	DESCRIPTION	E.O.	BY	DATE	CHECK
1		CLARIFIED TANK FLOW, UPDATED FORMAT.		RAN	9-1-10	DRB
2		UPDATED TITLE, REVISED NOTE 4. ADDED NOTE 9, RELOCATED CW INLET		KA	3-13-14	DRB
3		UPDATED PIPE TABLE. REVISED NOTES 3,5,9		KA	3-26-15	DRB



CONDENSING HIGH-EFFICIENCY SYSTEMS ONLY

XTHERM INCLUDES (STD)
 HEATER PUMP
 COLD WATER PROTECTION
 VERSA IC CONTROLLER
 INJECTOR PUMP

8674 3

NOTES:

1. PLUMB SWING CHECK VALVE IN GRAVITY-CLOSED POSITION.
2. PIPE ALL RELIEF VALVES TO DRAIN, OR AS LOCAL CODES REQUIRE.
3. INSTALL COLD WATER BETWEEN HEATER OUTLET AND TANK. PIPING BETWEEN COLD WATER INLET AND TANK MAY NEED TO BE INCREASED IN SIZE TO ACCOMMODATE CW FLOW.
4. SEE CHART "PIPE SIZES" FOR PIPE SIZES, CALCULATED AT MAXIMUM FLOW, NOT TO EXCEED 7.5 FT/SEC.
5. PIPE SIZING BASED ON MAX EQUIVALENT LENGTH OF 80 FEET OF PIPE BETWEEN TANK AND HEATER. IF LONGER, CONSULT FACTORY FOR PROPER PIPE SIZE REQUIRED.
6. PROVIDE FOR THERMAL EXPANSION OF HOT WATER IF A BACKFLOW PREVENTER, CHECK VALVE, WATER METER OR PRESSURE-REDUCING VALVE IS INSTALLED IN THE COLD WATER LINE.
7. CONDENSATE MUST BE PIPED TO AN APPROVED DRAIN. LOCAL CODE MAY REQUIRE NEUTRALIZATION PRIOR TO DRAIN.
8. SYSTEM SENSORS FROM BOTH ONBOARD CONTROLLERS IN SAME WELL, OR SENSOR FOR AN EXTERNAL SEQUENCER.
9. IF HOT WATER SETPOINT EXCEEDS 150°F WITH MAX FLOW, SPECIFY "H" BOILERS INSTEAD OF "WH" WATER HEATERS.
10. INSTALL TEE AS CLOSE TO TANK AS POSSIBLE.

GUARANTEED 60% DRAW WITHOUT TEMPERATURE DROP, USE RAYPAK HEATER, TANK, SIZING TABLE AND HOOK-UP DATA

KEY	
	PRESSURE RELIEF VALVE
	PUMP
	UNION
	BALL VALVE
	CHECK VALVE
	THERMOMETER

<small>UNLESS OTHERWISE SPECIFIED: ALL UNITS ARE IN INCHES FRACTIONS ±1/32 ANGLES ±1° X. = ±.12 X.X = ±.06 X.XX = ±.03 X.XXX = ±.010 DRAFT WALL RADII CONCENTRICITIES .020 DIA. SQUARENESS .015 IN./IN. BREAK EDGES .015 MAX. SURFACE FINISH PER ASME Y14.36M-1996</small>	APPROVED CHECKED D BALDWIN	DATE 4/27/15 DATE 6-25-09	 OXNARD, CALIFORNIA E.O. SPR SCALE NONE	
	DRAWN K ANDREW	DATE 6-19-09		RAYPAK PROPRIETARY AND CONFIDENTIAL INFORMATION This drawing contains Confidential and Proprietary Information of Raypak, Inc. All rights reserved by Raypak, Inc.
	TITLE PIPING, UNI-TEMP 60: 2 XTHERM, 1 H TANK			MAT'L WH

ACAD: 8674.DWG
 HEATERS SHOWN REPRESENT VARIOUS MODELS. BECAUSE INDIVIDUAL MODELS WILL VARY IN DESIGN AND SIZING, SEE EACH SPECIFIC HEATER TYPE FOR DETAILS.