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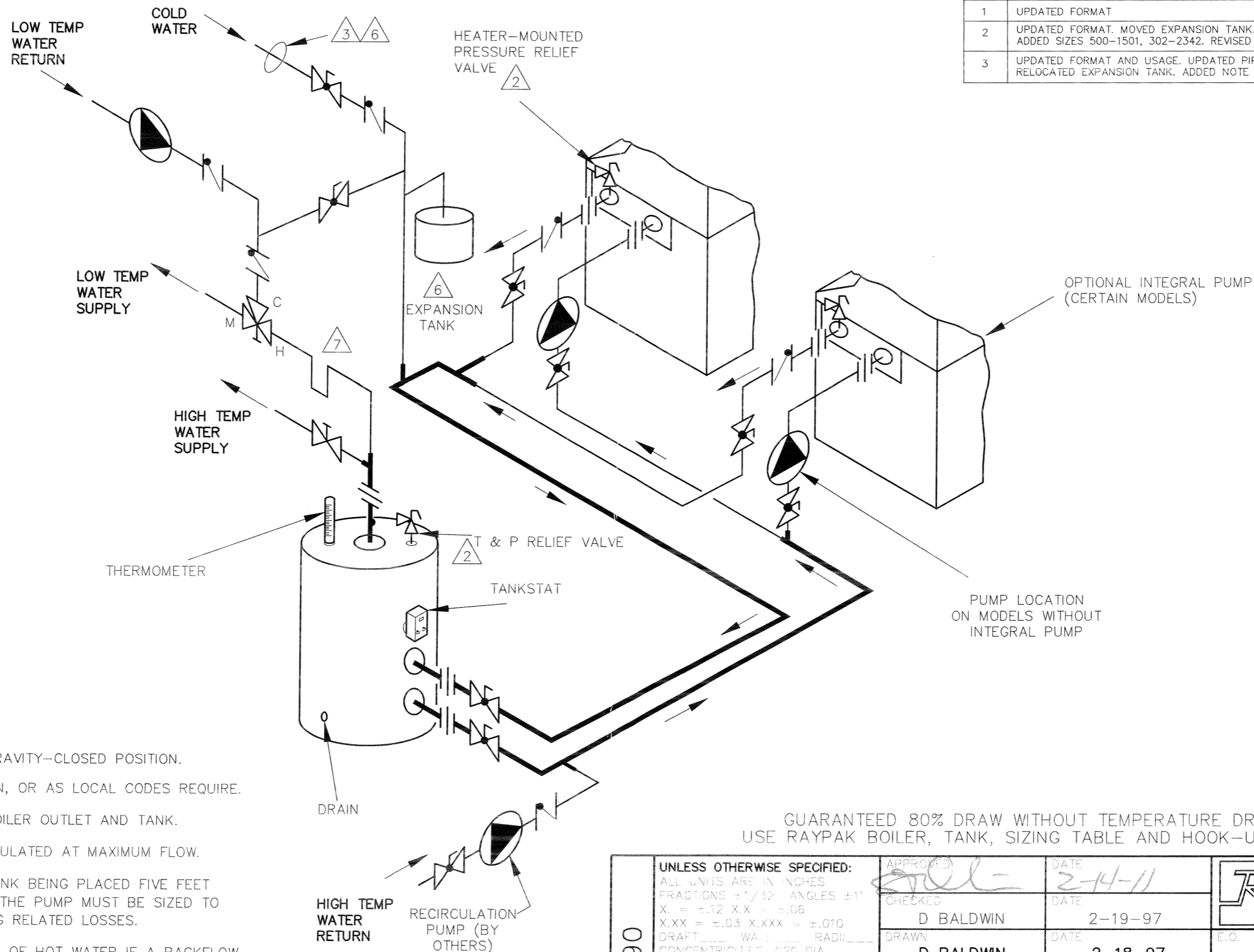
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THIS PIPING DIAGRAM IS RAYPAK'S RECOMMENDATION AND IS NOT INTENDED TO REPLACE AN ENGINEERED PIPING SYSTEM DESIGNED BY A PROFESSIONAL ENGINEER.

REVISIONS					
REV	DESCRIPTION	E.O.	BY	DATE	CHECK
1	UPDATED FORMAT		RLH	11-22-99	DRB
2	UPDATED FORMAT. MOVED EXPANSION TANK. ADDED SIZES 500-1501, 302-2342. REVISED PUMP NOTES.		JMB	3-21-07	DRB
3	UPDATED FORMAT AND USAGE. UPDATED PIPE SIZES. RELOCATED EXPANSION TANK. ADDED NOTE 8.		KA	1-27-11	AKB

PIPE SIZES		
	UNIT	2 UNITS
RAYTHERM		
133	1-1/4"	1-1/2"
181-401	1-1/2"	2"
514-824	2"	3"
926-1826	2-1/2"	3"
2100-4001	3"	4"
MVB		
503-754	2"	3"
1003-2004	2-1/2"	3"
HI DELTA		
HD101-HD401	1-1/2"	2"
302-902	2"	3"
992-2342	2-1/2"	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 BOILER OUTLET AND TANK.
4. SEE CHART FOR PIPE SIZES, CALCULATED AT MAXIMUM FLOW.
5. SIZING BASED ON HEATER AND TANK BEING PLACED FIVE FEET APART, IF DISTANCE IS GREATER, THE PUMP MUST BE SIZED TO ACCOMMODATE INCREASE IN PIPING RELATED LOSSES.
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. 24-INCH HEAT SINK "U" REQUIRED PER RECOMMENDATIONS OF MANUFACTURER OR 3-WAY MIXING VALVE.
8. IF HIGH TEMP HOT WATER SETPOINT EXCEEDS 160° F, SPECIFY 'H' BOILERS INSTEAD OF 'WH' WATER HEATERS.

ACAD: 8090. DWG

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

GUARANTEED 80% DRAW WITHOUT TEMPERATURE DROP, USE RAYPAK BOILER, TANK, SIZING TABLE AND HOOK-UP DATA

KEY	
	PRESSURE RELIEF VALVE
	PUMP
	UNION
	CHECK VALVE
	BALL VALVE
	THERMOMETER

8090	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 "/> <td>APPROVED <i>[Signature]</i></td> <td>DATE 2-14-11</td> <td rowspan="2" style="text-align: center;"></td> <td rowspan="2">OXNARD, CALIFORNIA</td>	APPROVED <i>[Signature]</i>	DATE 2-14-11		OXNARD, CALIFORNIA	
		CHECKED D BALDWIN	DATE 2-19-97			E.O. SPR
		DRAWN D BALDWIN	DATE 2-18-97	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 80: 2 HEATERS, 1 V TANK, 2 TEMP					
MAT'L.	SERIES/MODEL	SIZE	DWG. NO.	REV		
	WH	B	8090	3		

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