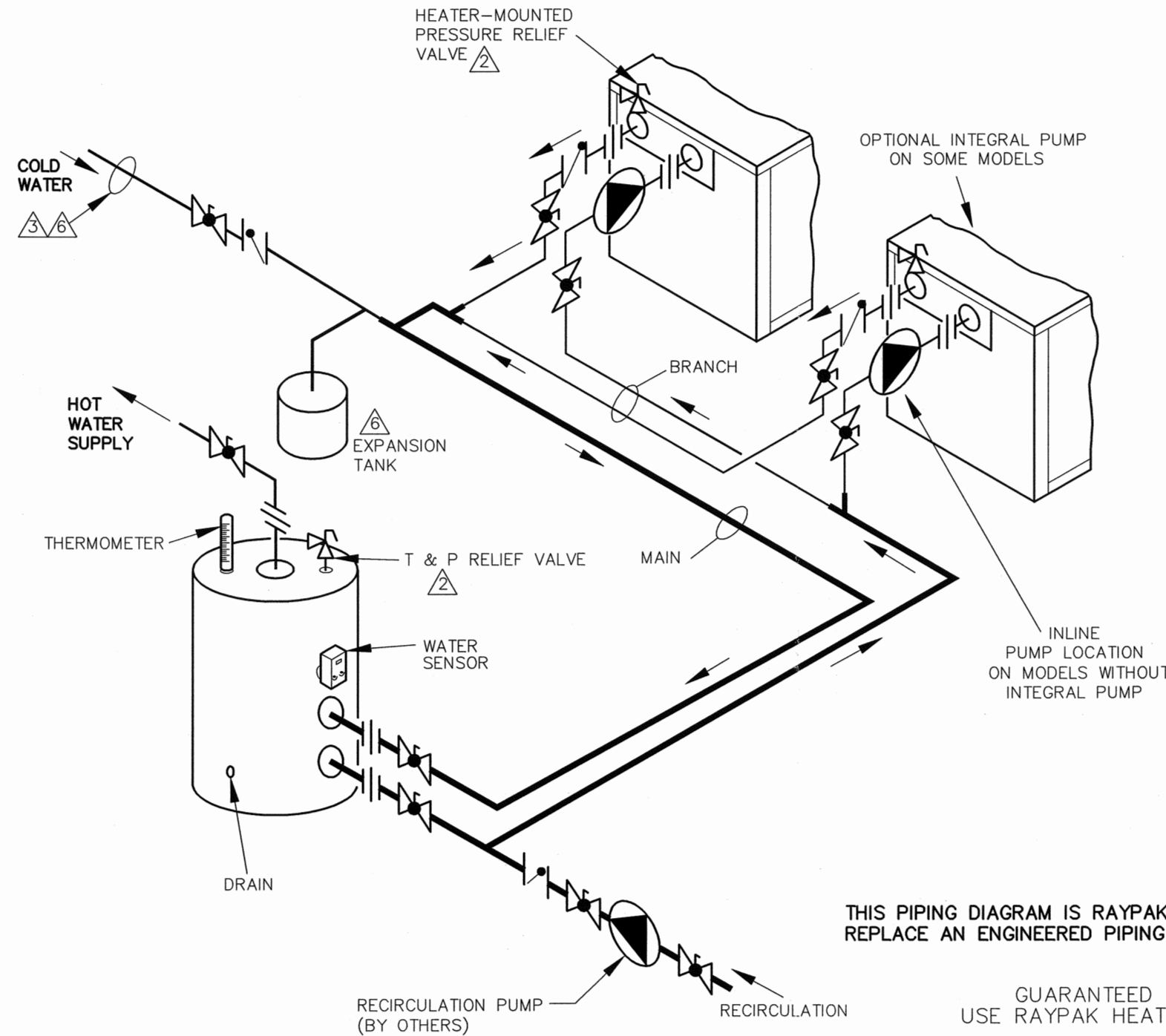


PIPE SIZES		
	BRANCH	MAIN
RAYTHERM		
133	1-1/4"	1-1/2"
181-401	1-1/2"	2"
514-824	2"	3"
926-1826	2-1/2"	3"
2100-4001	3"	4"
MVB		
503-754	2"	3"
1003-2004	2-1/2"	4"
HI DELTA		
HD101-HD401	1-1/2"	2"
302-902	2"	3"
992-2342	2-1/2"	4"

REVISIONS					
REV	DESCRIPTION	E.O.	BY	DATE	CHECK
12	UPDATED FORMAT, NOTES. ADDED NOTE 7. REMOVED ADB AND REVISED MVB.		RAN	4-6-09	DRB
13	UPDATED FORMAT. REVISED NOTE 7. ADDED HD101-HD401 TO USAGE TABLE.		RAN	2-18-10	DRB
14	REMOVED NOTE 5, RENUMBERED NOTES REVISED NEW NOTES 5 AND 6.		RAN	6-21-10	DRB
15	REMOVED CATALOG NUMBER REFERENCE. REMOVED 122-322 MODEL USAGE.		RAN	4-22-11	<i>[Signature]</i>



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

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

KEY	
	PRESSURE RELIEF VALVE
	PUMP
	UNION
	CHECK VALVE
	BALL VALVE
	THERMOMETER

- 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.
  4. SEE CHART "PIPE SIZES" FOR PIPE SIZES, CALCULATED AT MAXIMUM FLOW AT 100 FT EQUIVALENT FEET OF PLUMBING. 50 FT EQUIV. FOR MODELS HD101-HD401.
  5. 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.
  6. IF HOT WATER SETPOINT EXCEEDS 160F WITH MAX FLOW, SPECIFY "H" BOILERS INSTEAD OF "WH" WATER HEATERS.

ACAD: 8069.DWG  
HEATERS SHOWN REPRESENT VARIOUS MODELS. BECAUSE INDIVIDUAL MODELS WILL VARY IN DESIGN AND SIZING, SEE EACH SPECIFIC HEATER TYPE FOR DETAILS.

8069	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	APPROVED <i>[Signature]</i>	DATE 5/3/11		OXNARD, CALIFORNIA	
	CHECKED D BALDWIN	DATE 9-12-96	E.O. SPR			SCALE NONE
	DRAWN D BALDWIN	DATE 9-12-06	SIZE B	THIS DRAWING SUBMITTED UNDER CONFIDENTIAL RELATIONSHIP, AS IT EMBODIES PROPRIETARY INFORMATION, WITH ALL RIGHTS RESERVED BY RAYPAK, INC.		
	TITLE PIPING, UNI-TEMP 80: 2 HEATERS, 1 V TANK					
15	MAT'L.	SERIES/MODEL WH	DWG. NO. 8069	REV 15		