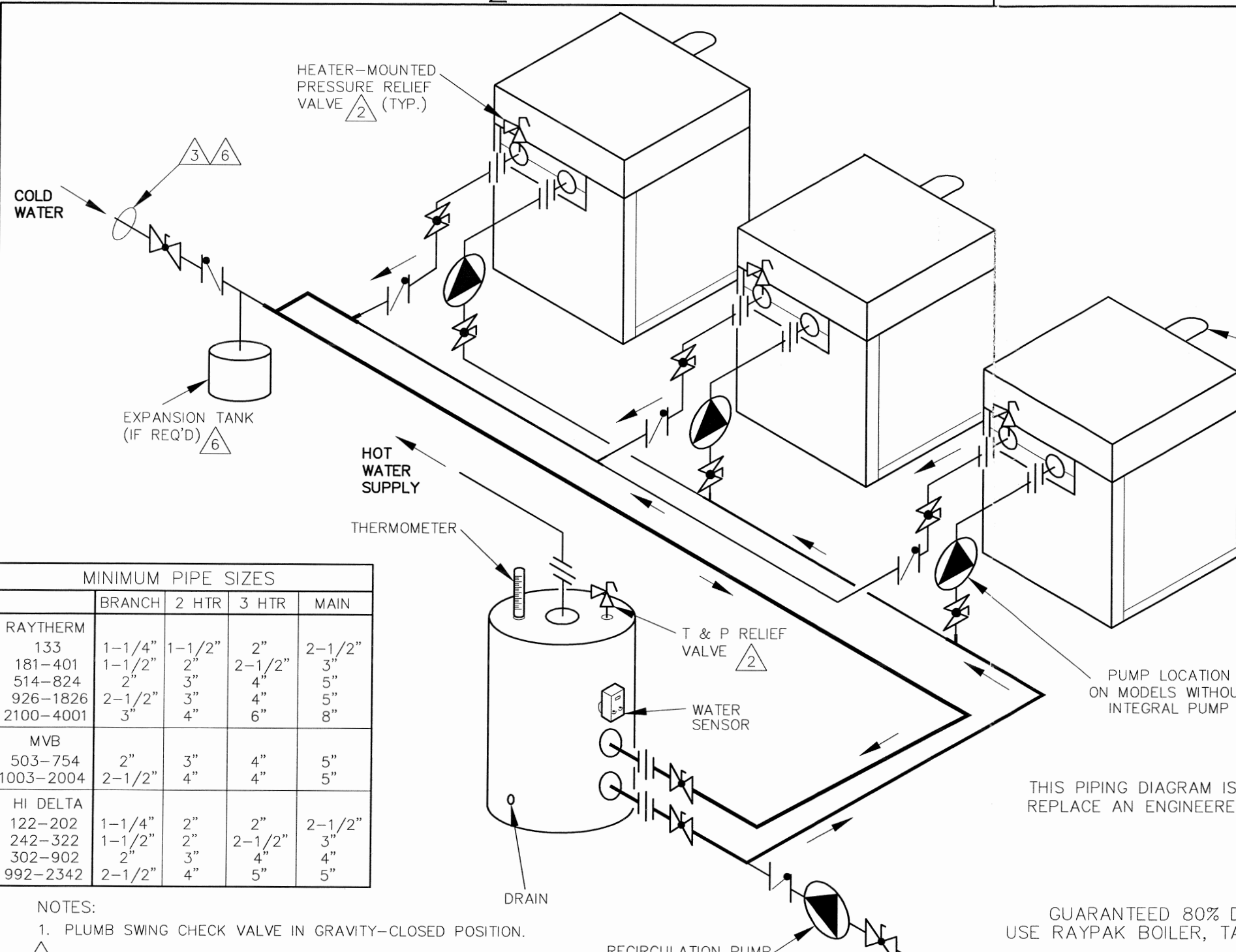


REVISIONS					
REV	DESCRIPTION	E.O.	BY	DATE	CHECK
3	UPDATED FORMAT		RLH	2-7-00	DRB
4	CLARIFIED RETURN LINE		RLH	4-3-00	DRB
5	UPDATED FORMAT AND MODEL NUMBER. REVISED MAIN SIZES. ADDED WH AND CHECK VALVE.		EA	9-3-03	DRB
6	UPDATED PIPE SIZING TABLE AND USAGE.		RAN	1-25-08	DRB
6	REVISED PIPE SIZING TABLE AND USAGE. REMOVED ADB. ADDED UNI-TEMP NOTE, HI-TEMP NOTE. ADDED ENGINEERING NOTE.		RAN	6-9-09	<i>MB</i>



MINIMUM PIPE SIZES				
	BRANCH	2 HTR	3 HTR	MAIN
RAYTHERM				
133	1-1/4"	1-1/2"	2"	2-1/2"
181-401	1-1/2"	2"	2-1/2"	3"
514-824	2"	3"	4"	5"
926-1826	2-1/2"	3"	4"	5"
2100-4001	3"	4"	6"	8"
MVB				
503-754	2"	3"	4"	5"
1003-2004	2-1/2"	4"	4"	5"
HI DELTA				
122-202	1-1/4"	2"	2"	2-1/2"
242-322	1-1/2"	2"	2-1/2"	3"
302-902	2"	3"	4"	4"
992-2342	2-1/2"	4"	5"	5"

- 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 "MINIMUM PIPE SIZES" FOR MINIMUM PIPE SIZES. 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. IF HOT WATER SETPOINT EXCEEDS 175°F, SPECIFY "H" BOILERS INSTEAD OF "WH" WATER HEATERS.

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

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 BOILER, TANK, SIZING TABLE AND HOOK-UP DATA ACAD: 8066. DWG

KEY	
	PRESSURE RELIEF VALVE
	PUMP
	UNION
	CHECK VALVE
	BALL VALVE
	THERMOMETER

8066	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 6-24-09	<b>Raypak</b> OXNARD, CALIFORNIA	
	CHECKED D BALDWIN	DATE 8-28-96	E.O. SPR		SCALE NONE
	DRAWN D BALDWIN	DATE 8-28-96	SIZE B	THIS DRAWING SUBMITTED UNDER CONFIDENTIAL RELATIONSHIP, AS IT EMBODIES PROPRIETARY INFORMATION, WITH ALL RIGHTS RESERVED BY RAYPAK, INC.	
	TITLE <b>PIPING, UNI-TEMP 80, 3 HEATERS, 1 V TANK</b>				
7	MAT'L.	SERIES/MODEL WH	DWG. NO. 8066	REV 7	