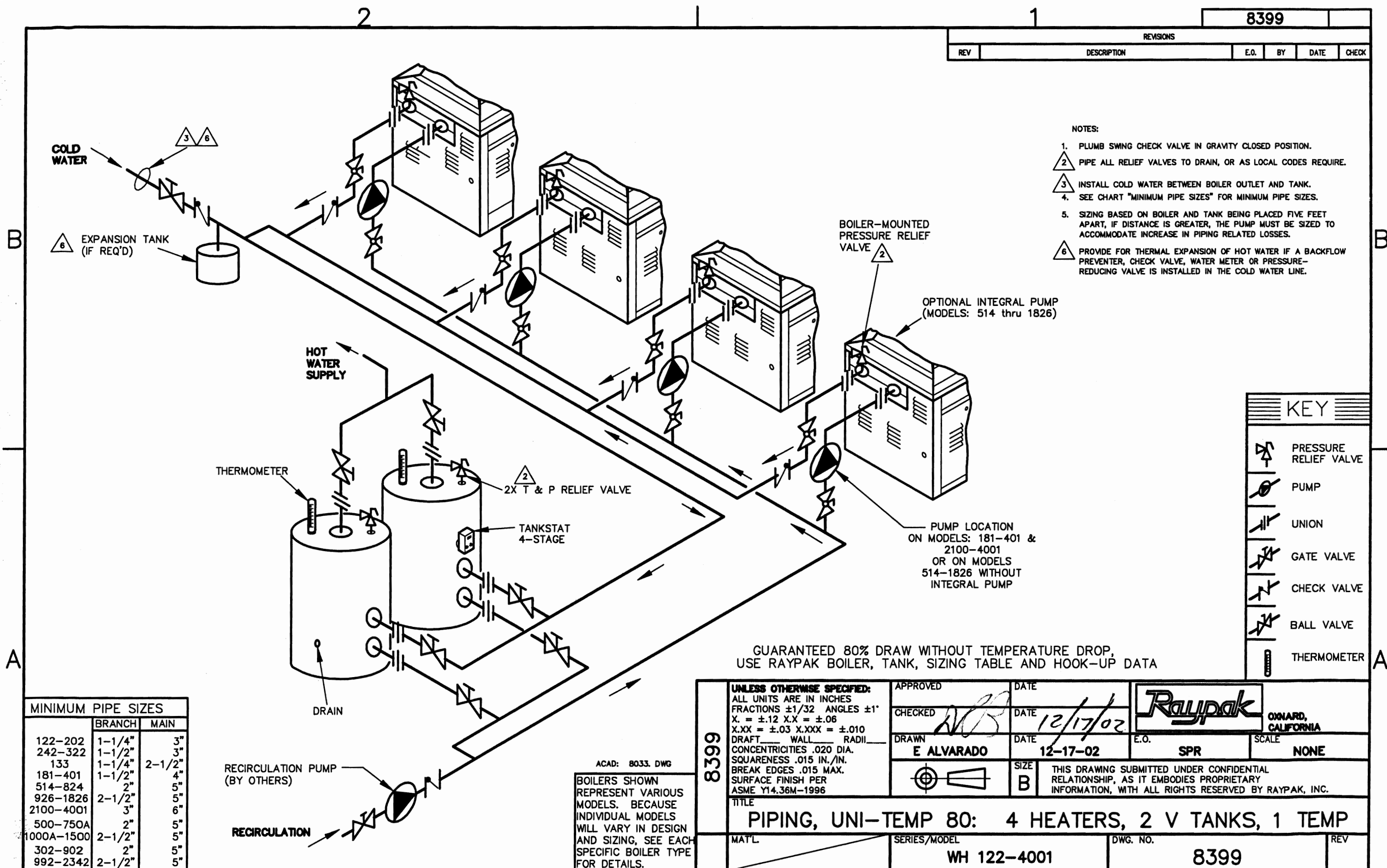


REVISIONS				
REV	DESCRIPTION	E.O.	BY	DATE



- 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 "MINIMUM PIPE SIZES" FOR MINIMUM PIPE SIZES.
 5. SIZING BASED ON BOILER 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.

KEY	
	PRESSURE RELIEF VALVE
	PUMP
	UNION
	GATE VALVE
	CHECK VALVE
	BALL VALVE
	THERMOMETER

MINIMUM PIPE SIZES		
	BRANCH	MAIN
122-202	1-1/4"	3"
242-322	1-1/2"	3"
133	1-1/4"	2-1/2"
181-401	1-1/2"	4"
514-824	2"	5"
926-1826	2-1/2"	5"
2100-4001	3"	6"
500-750A	2"	5"
1000A-1500	2-1/2"	5"
302-902	2"	5"
992-2342	2-1/2"	5"

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

ACAD: 8033. DWG
 BOILERS SHOWN REPRESENT VARIOUS MODELS. BECAUSE INDIVIDUAL MODELS WILL VARY IN DESIGN AND SIZING, SEE EACH SPECIFIC BOILER TYPE FOR DETAILS.

8399	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	DATE		OXNARD, CALIFORNIA
	CHECKED	DATE 12/17/02	E.O.	SCALE NONE		
	DRAWN E ALVARADO	DATE 12-17-02	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: 4 HEATERS, 2 V TANKS, 1 TEMP		MAT'L	SERIES/MODEL WH 122-4001	DWG. NO. 8399	REV