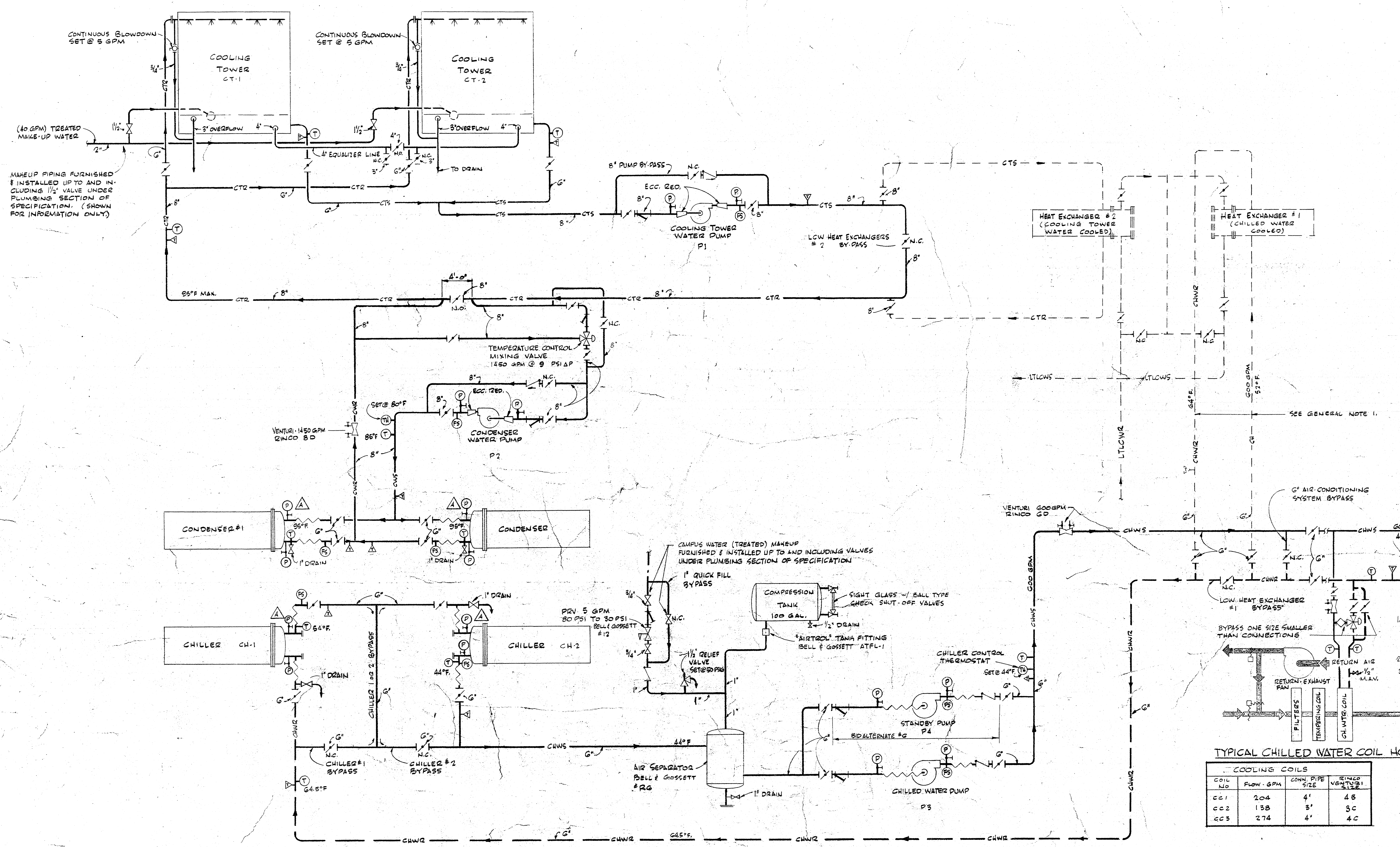




- ### LEGEND
- CTS — COOLING TOWER SUPPLY
 - CTR — COOLING TOWER RETURN
 - CWS — CHILLED WATER SUPPLY
 - CWR — CHILLED WATER RETURN
 - LTWS — LOW TEMP, LOW CONDUCTIVITY WATER SUPPLY
 - LTR — LOW TEMP, LOW CONDUCTIVITY WATER RETURN
 - G — GATE VALVE
 - V — CHECK VALVE
 - P — PRESSURE GAUGE
 - T — THERMOMETER
 - F — FLOW SWITCH
 - S — STRAINER
 - E — ECCENTRIC REDUCER
 - N.C. — NORMALLY CLOSED
 - P.R.V. — PRESSURE REDUCING VALVE
 - F.C. — FLEXIBLE CONNECTION
 - P.R.V. — PRESSURE RELIEF VALVE
 - P — PUMP
 - B.C. — BALANCING COCK
 - C.W. — CAMPUS WATER (TREATED)
 - T.C.W. — THERMOCOUPLE WELL
 - B.V. — BUTTERFLY VALVE
 - VENT. — VENTURI (FOR BALANCING FLOW)
 - RINGO — RINGO OR APPROVED EQUAL
 - M.A.V. — MANUAL AIR VENT

- ### GENERAL NOTES
1. ALL PIPING AND HEAT EXCHANGERS FOR THE LOW COOLING SYSTEM FURNISHED AND INSTALLED UNDER THE SYNCHROTRON COOLING WATER SYSTEM SECTION OF THE SPECIFICATION, SECTION V.
 2. FOR EQUIPMENT SCHEDULE AND LEGEND REFER TO DWG. M-1.
 3. CHILLER - MAKE ALL WATER CONNECTIONS TO OIL COOLER AND SUCH OTHER WATER & DRAIN CONNECTIONS AS REQUIRED.

TYPICAL CHILLED WATER COIL HOOK-UP

COIL NO.	FLOW - GPM	CONN. PIPE SIZE	RETURN VENTURI
CC1	204	4"	4B
CC2	138	3"	3C
CC3	274	4"	4C

CHILLED WATER, COOLING TOWER & CONDENSER WATER PIPING
FLOW DIAGRAM
 NOT TO SCALE



SEE ADDENDUM 1		1/3-02 T.C.W.M.	
LTR	REVISIONS	DATE	CHKD APPD
IO GEV CORNELL SYNCHROTRON LABORATORY CORNELL UNIVERSITY ITHACA NEW YORK			
AIR CONDITIONING SYSTEM CHILLED WATER, COOLING TOWER & CONDENSER WATER FLOW DIAGRAM			
WILLIAM M. BROBECK AND ASSOCIATES IAN MACKINLAY, AIA ARCHITECT PREGNOFF & MATHEU STRUCTURAL ENGR. JACOBS ASSOCIATES CONSTRUCTION ENGR. 750 GILMAN ST. BERKELEY, CALIF. 94710 TELEPHONE 415-524-8664			
DR. ROESSL	CHKD. [Signature]	SUPD. [Signature]	SCALE 1/8"=1'-0"
RELEASED	APPROVED	SHEET 55	OF 102
T.H. [Signature]		LAB NUCLEAR STUDIES	
W.M.B. [Signature]		DRAWING NO. M-1	
DATE MAY 12, 1986		DATE JAN 15, 1986	
2085-33-65-211 044 256 Cornell University B. & P. 1/10			