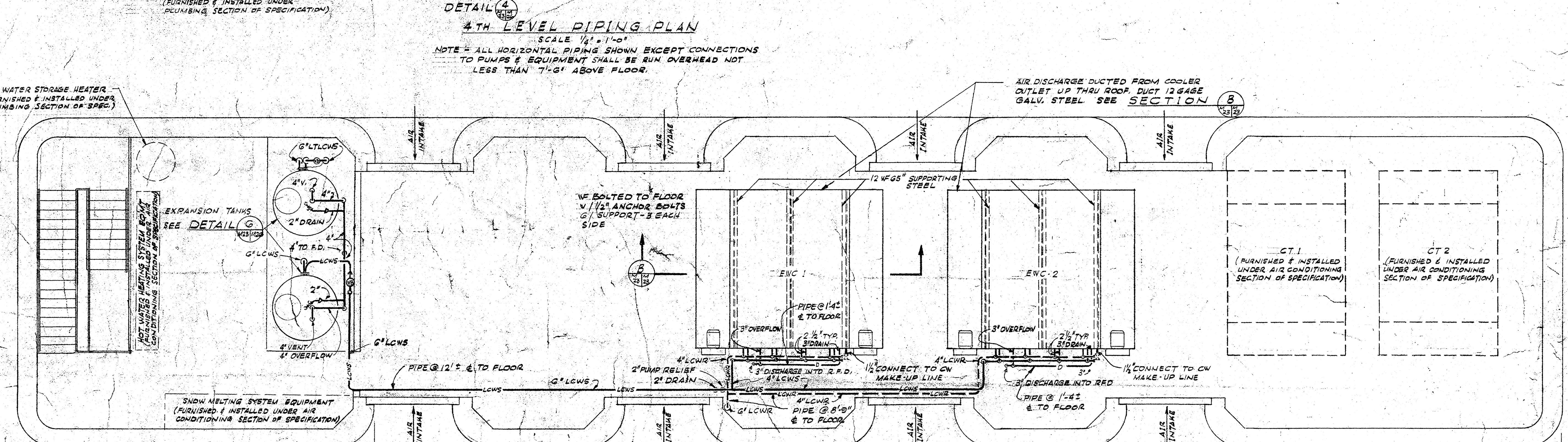
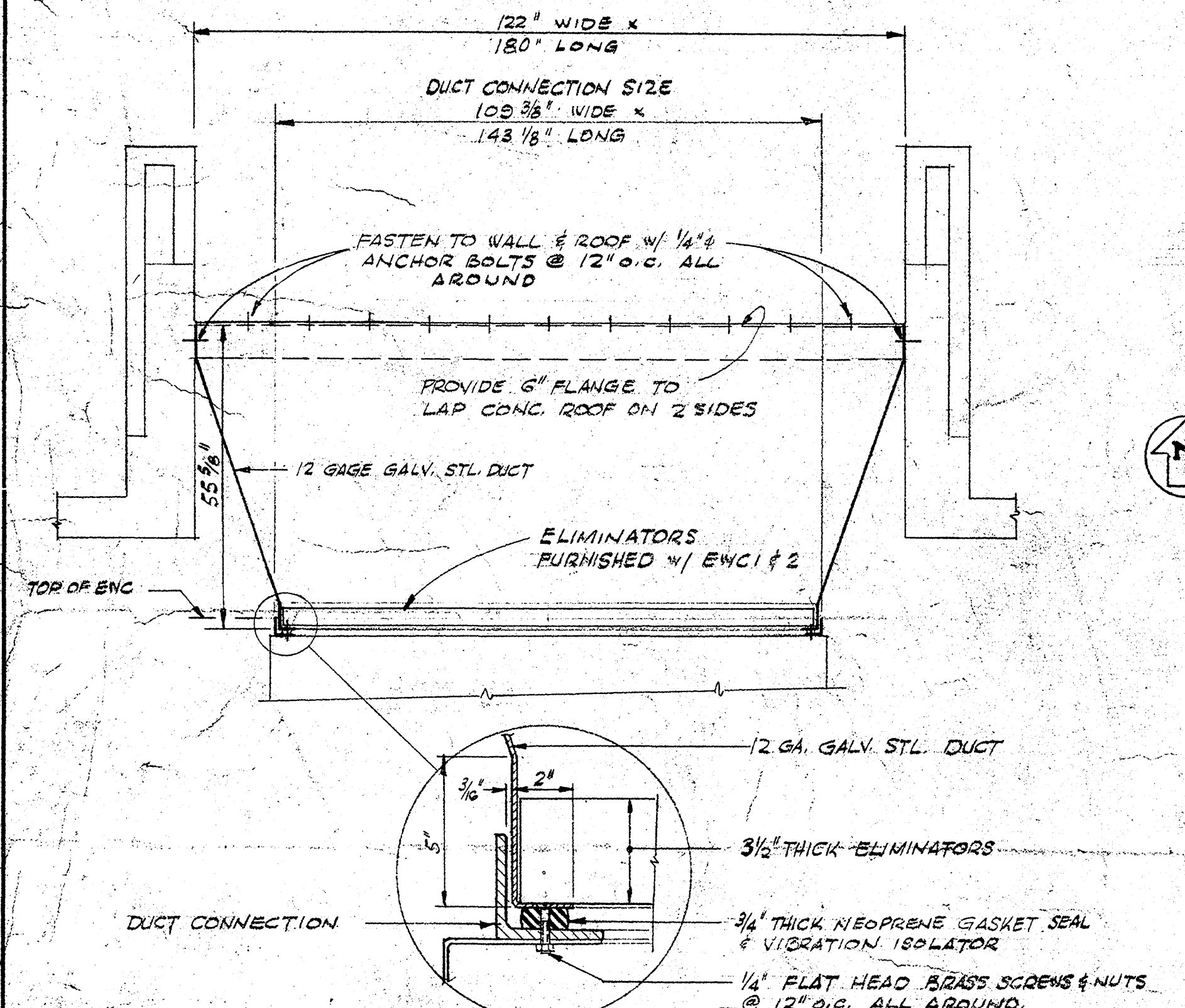
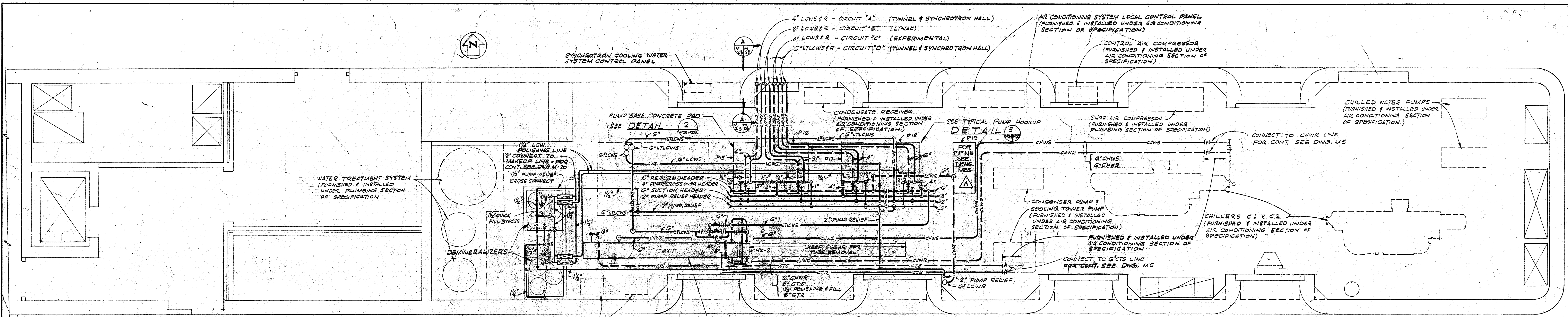
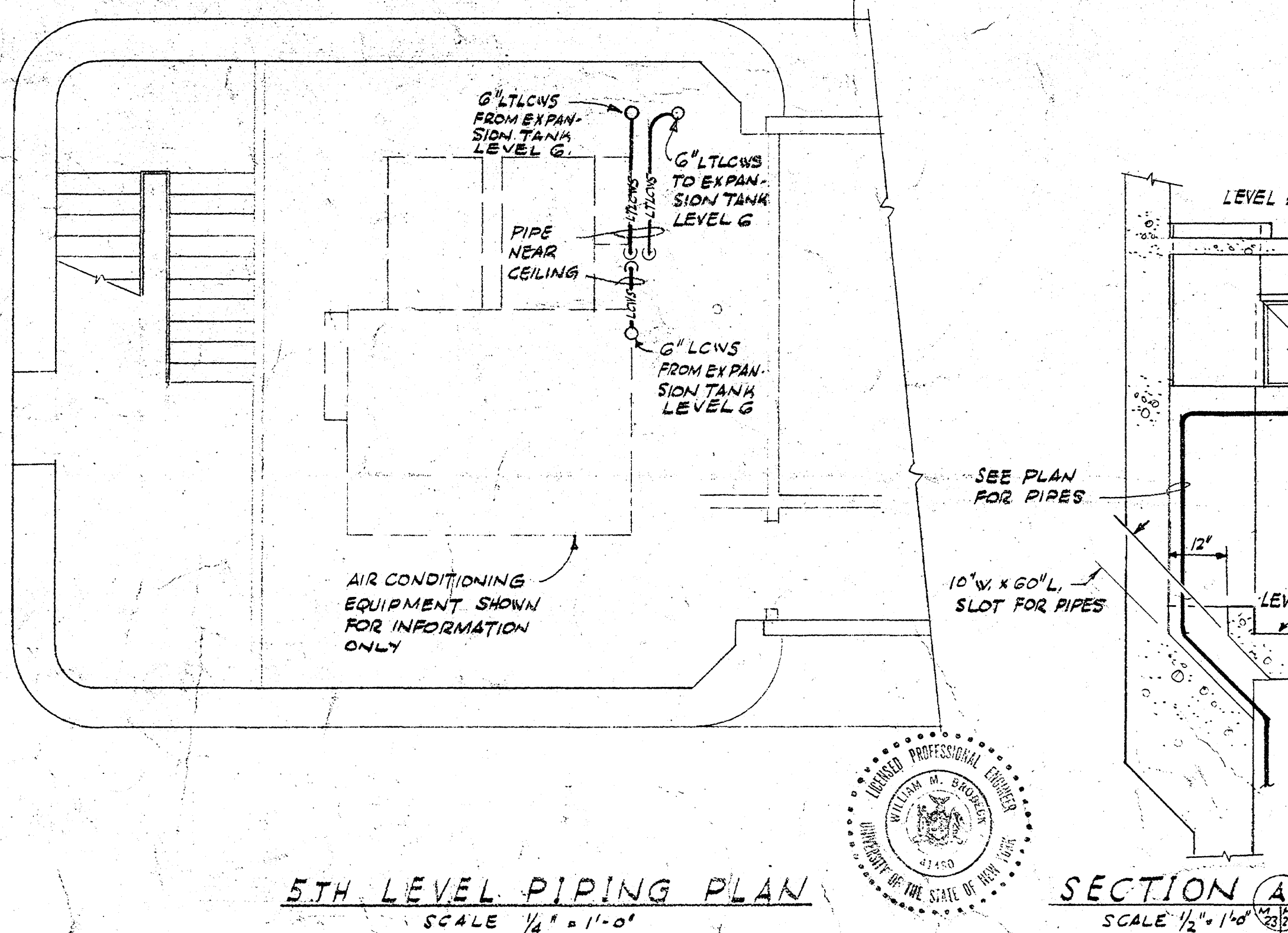




EQUIPMENT SCHEDULE												
EVAPORATIVE WATER COOLERS												
UNIT No	CAPACITY BTU/HR	WATER				AIR			FAN MOTOR HP	SPRAY PUMP MOTOR HP	BALTIMORE AIR COIL MODEL No.	
		FLOW GPM	PRESS. DROP PSI	TEMP ENT °F	LVG °F	WET BULB °F	VOLUME CFM	EXT. STATIC IN. WG				
EWC 1	3,600,000	267	6.37	113	86	75	66,000	0.4"	2-20	2	C100-3	
EWC 2	3,600,000	267	6.37	113	86	75	66,000	0.4"	2-20	2	C100-3	
HEAT EXCHANGERS												
UNIT No	CAPACITY BTU/HR.	SHELL SIDE				TUBE SIDE				AMERICAN STANDARD MODEL No.		
		FLOW GPM	TEMP ENT. °F	LVG °F	PRESS DROP PSI	FOUL FACTOR	FLOW GPM	TEMP ENT. °F	LVG °F		PRESS DROP PSI	FOUL FACTOR
HX1	3,750,000	600	52	645	15	0.001	380	84	65	5	0.0005	1714-GCP
HX2	3,750,000	1450	55	602	10	0.0015	380	84	65	5	0.0005	1913-CP
PUMPS												
UNIT No	SERVICE	CAPACITY		SPEED RPM	MINIMUM EFFICIENCY %	MOTOR HP	GOULD					
		GPM	HEAD FT.				MODEL	SIZE				
P15	TUNNEL & SYNCHROTRON HALL	115	231	3500	50	25	319G	2 x 3 x 8				
P16	LINAC	120	231	3500	45	20	319G	1½ x 3 x 8				
P17	EXPERIMENTAL	250	231	3500	50	30	319G	2 x 3 x 8				
P18	6" LTLOW	400	231	3500	60	50	319G	3 x 4 x 8				
P19	DIFFUSION	35	230	3500		7.5	3655	1¼ x 1½ x 8				

LEGEND	
ABBREVIATIONS	SYMBOLS
LCW LOW CONDUCTIVITY WATER	—LTCLWS— LOW TEMPERATURE, LOW CONDUCTIVITY WATER SUPPLY
N.C. NORMALLY CLOSED	—LTCLWR— LOW TEMPERATURE, LOW CONDUCTIVITY WATER RETURN
N.O. NORMALLY OPEN	—LCLWS— HIGH TEMPERATURE, LOW CONDUCTIVITY WATER SUPPLY
W.B. WET BULB	—LCLWR— HIGH TEMPERATURE, LOW CONDUCTIVITY WATER RETURN
RFD RECESSED FLOOR DRAIN	—C— CAMPUS WATER
CW COLD WATER	—D— DRAIN
FD FLOOR DRAIN	—CHWS— CHILLED WATER SUPPLY
TYF TYPICAL	—CHWR— CHILLED WATER RETURN
STL STEEL	—B— BALL VALVE
	—X— BUTTERFLY VALVE
	—V— CHECK VALVE
	—S— SOLENOID VALVE
	—F— FLOW RATE INDICATOR
	—T— THERMIST
	—P— PRESSURE GAUGE
	—FWS— FLOW SWITCH
	—A— ALARM PANEL MOUNTED
	—M— MOTOR
	—V— VACUUM BREAKER
	—P— PUMP (END SUCTION TYPE)
	—V— VENTURI WITH FLOW RATE INDICATOR



AS BUILT CORRECTIONS

DATE	CHKD	APPD
12/16/85	BRM	

REVISIONS

DATE	CHKD	APPD

IO GEV CORNELL SYNCHROTRON LABORATORY

CORNELL UNIVERSITY

ITHACA NEW YORK

SYNCHROTRON COOLING WATER SYSTEM

LEVELS 4, 5 & 6

PLANS & SCHEDULES

WILLIAM M. BROBECK AND ASSOCIATES

IAN MACKINLAY, AIA ARCHITECT

PREGNORFF & MATHEU STRUCTURAL ENGR.

JACOBS ASSOCIATES CONSTRUCTION ENGR.

980 GILMAN ST. BERKELEY, CALIF. 94710

TELEPHONE 415-824-8844

DR. ROESSL

CHKD

DATE

NOTED

SCALE

RELEASED

APPROVED

LAB NUCLEAR STUDIES

SHEET

OF

93

102

T.H. Am

DATE

DATE

DATE

DATE

WMB

DATE

DATE

DATE

DATE

WMB & A NO. 1115

*HX-2 SHALL BE BID WITH BID ALTERNATE #5

NOTES
1. REFER TO FLOW DIAGRAM, DWS M25 FOR COMPLETE DETAILS OF ALL VALVES, GAGES, ETC.