

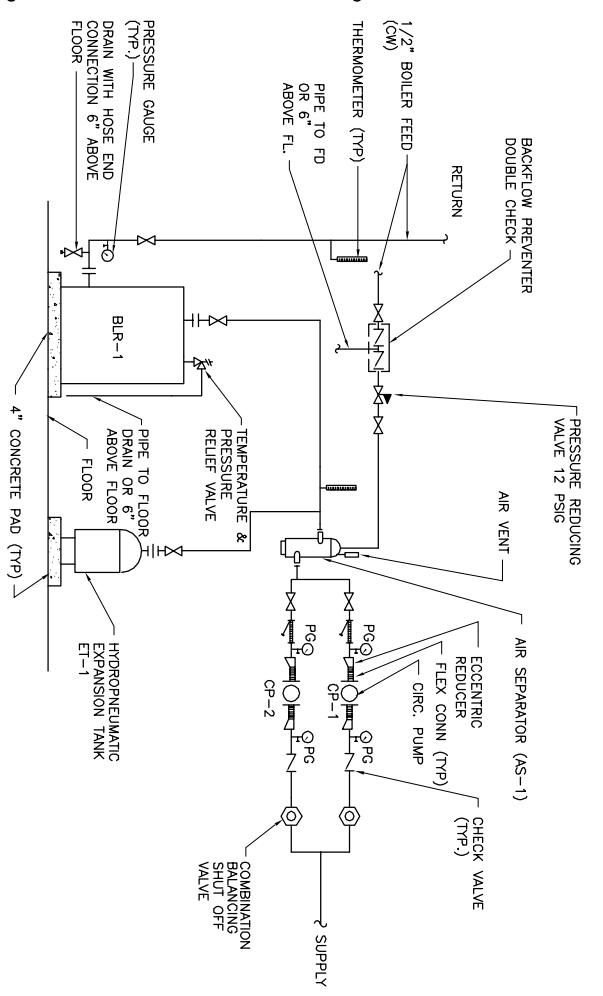
UNIT NO.	SERVING	BUILDING	MANF.	CAT. NO.	MBH	GPM	HP	CFM	THROW	REMARKS
UH-1	STORAGE ROOM	BISULITE	WING	19	79.2	7.9	1/4	2000	55	SEE NOTES 1 THRU 3
UH-2	STORAGE ROOM	BISULITE	WING	19	79.2	7.9	1/4	2000	55	SEE NOTES 1 THRU 3
UH-3	CHEMICAL FEED ROOM	BISULITE	WING	22	11.8	11.8	1/4	2750	65	SEE NOTES 1 THRU 3
UH-4	SPARE ROOM	BISULITE	WING	19	79.2	7.9	1/4	2000	55	SEE NOTES 1 THRU 3
UH-5	ELECTRICAL ROOM	BISULITE	WING	19	6.6	.7	1/20	256	20	SEE NOTES 1 THRU 3
UH-6	STORAGE ROOM	HYPOCHLORITE	WING	23	159	15.9	1/2	3600	70	SEE NOTES 1 THRU 4
UH-7	STORAGE ROOM	HYPOCHLORITE	WING	23	159	15.9	1/2	3600	70	SEE NOTES 1 THRU 4
UH-8	CHEMICAL FEED ROOM	HYPOCHLORITE	WING	22	11.8	11.8	1/4	2750	65	SEE NOTES 1 THRU 4
UH-9	ANALYSIS ROOM	HYPOCHLORITE	WING	19	79.2	7.9	1/4	2000	55	SEE NOTES 1 THRU 4

NOTE:
 1. BASED ON 200°F. EWT, 60°F. EAT, 20°F. WTD.
 2. FAN MOTORS 120V, 1Ø.
 3. SFT H2O WTD MAXIMUM.
 4. PHENOLIC RESIN COATING.

PUMP NO.	MANUFACTURER	PUMP SIZE	CIRCULATING FLUID				MOTOR					
			FLUID	GPM	PUMP HEAD FEET FLUID	TEMP. OF	SP GR	MIN % EFF.	NOM. HP.	VOLT	PHASE	RPM
CP-1	B & G SERIES 60	2A	WATER	90	35	180	1.0	50	1 1/2	115/230	1	1750
CP-2	B & G SERIES 60	2A	WATER	90	35	180	1.0	50	1 1/2	115/230	1	1750

SEQUENCE OF OPERATION

- HOT WATER UNIT HEATERS UH-1 UH-9 A WALL MOUNTED TSTAT SET AT 60° TURNS ON THE FAN AS REQUIRED TO MAINTAIN THE SET POINT ROOM TEMP.
- LOW TEMPERATURE TSTAT & ALARM WHEN THE TEMPERATURE IN THE SPACES DROPS BELOW THE TSTAT SET POINT, AN OUTDOOR AUDIBLE ALARM IS GIVEN.
- INTERMITTENT VENTILATION FANS, EF-1,2,3,5,7 & 8 THE FANS PROVIDE VENTILATION DURING OCCUPIED PERIODS AND COOLING OF THE SPACE DURING THE SUMMER. A LIGHT SWITCH WILL ACTIVATE THE FAN WHEN THE SPACE IS BEING OCCUPIED. A COOLING TSTAT SET AT 80° WILL ALSO ACTIVATE THE FAN.
- CONTINUOUS VENTILATION FANS, EF-4 & 6 THE FANS RUN CONTINUOUSLY AND ARE CONTROLLED FROM THE BREAKER PANEL IN THE ELECTRICAL ROOM.
- MOTOR CONTROL DAMPERS
 - MOTOR OPERATED AIR INTAKE DAMPERS WILL FULLY OPEN WHEN THE ASSOCIATED FAN IS ACTIVATED. THE DAMPER WILL FULLY CLOSE WHEN THE FAN IS DEACTIVATED.
 - MOTOR OPERATED EXHAUST DAMPERS SHALL BE FULLY OPENED WHEN THE ASSOCIATED FAN IS ACTIVATED. THE DAMPER SHALL BE FULLY CLOSED WHEN THE FAN IS DEACTIVATED.
- COMBUSTION AIR INTAKE DAMPERS AIR INTAKE DAMPERS IN THE BOILER ROOM SHALL BE INTERLOCK WITH THE BOILER BURNER AND EF-3. WHEN ONE OR BOTH ARE RUNNING THE DAMPERS SHALL BE WIDE OPEN. A PROOVING SWITCH ON THE DAMPERS WILL PREVENT THE BURNER OR FAN FROM OPERATING UNTIL THE DAMPERS ARE WIDE OPEN.
- CIRCULATING PUMPS CIRCULATING PUMPS SHALL BE CONTROLLED BY A ON/OFF SWITCH LOCATED IN THE BOILER ROOM.



BOILER/HEATING SYSTEM PIPING DIAGRAM

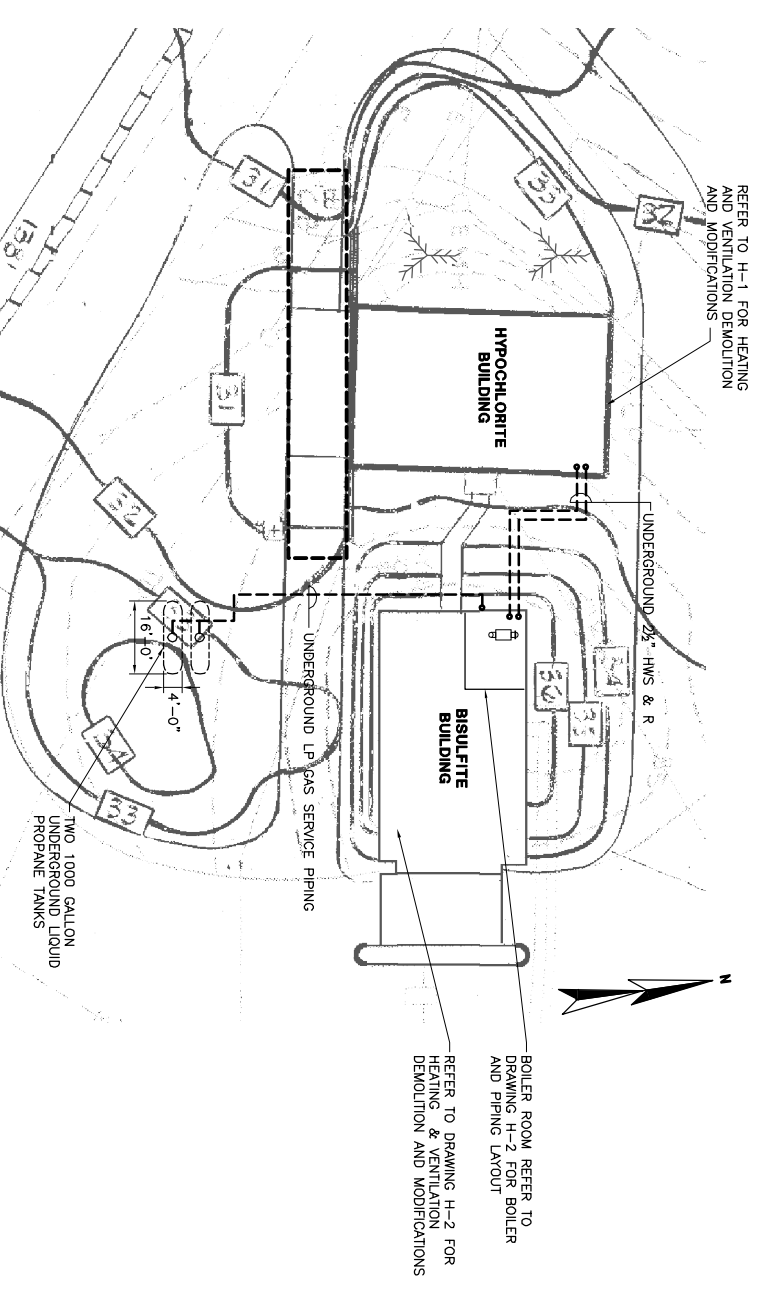
TAG	SERVING	BUILDING	MANF.	MODEL	TYPE	CAT. NO.	AIR			MOTOR			REMARKS	NOTES
							CFM	ESP	HP	BHP	RPM	VOLTS		
EF-1	STORAGE ROOM	BISULITE	COOK	CVD	IN-LINE	14CV11D	1000	%	1/4	.25	1140	120	1	
EF-2	CHEMICAL FEED ROOM	BISULITE	COOK	CVD	IN-LINE	12CV11D	710	1/4	1/8	.10	1140	120	1	
EF-3	BOILER ROOM	BISULITE	COOK	CVD	IN-LINE	12CV11D	460	1/8	1/8	.10	1140	120	1	
EF-4	STORAGE ROOM	HYPOCHLORITE	COOK	ACE-B	ROOF	80C3B	590	1/8	1/8	.19	1750	120	1	
EF-5	STORAGE ROOM	HYPOCHLORITE	COOK	ACE-B	ROOF	150C2B	1060	1/8	1/8	.13	1550	120	1	
EF-6	CHEMICAL FEED ROOM	HYPOCHLORITE	COOK	ACE-B	ROOF	70C3B	250	1/8	1/8	.19	1750	120	1	
EF-7	CHEMICAL FEED ROOM	HYPOCHLORITE	COOK	ACE-B	ROOF	80C3B	460	1/8	1/8	.19	1750	120	1	
EF-8	ANALYSIS ROOM	HYPOCHLORITE	COOK	CVD	IN-LINE	12CV11D	460	1/8	1/8	.04	1750	120	1	

NOTE:
 1. FANS ARE ALL ALUMINUM CONSTRUCTION.

BOILER SCHEDULE

UNIT NO.	MANUFACTURER	MODEL/SIZE	INPUT MBH RATING	GROSS I-B-R OUTPUT RATING MBH	FUEL TYPE	ELEC.	BURNER MOTOR HP	REMARKS
BLR-1	WEL-MQAIN	488	1010	810	LIQUID PROPANE	120/1Ø	1/6	SEE NOTES

NOTE:
 1. FIELD ASSEMBLED BOILER SECTIONS AND MODIFICATIONS.
 2. STANDARD BOILER & BURNER CONTROLS.



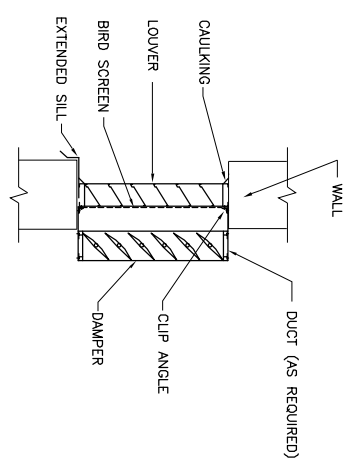
SITE MODIFICATIONS

SCANNED APPROX SCALE: 1" = 20'

EXPANSION TANK SCHEDULE				
TAG	MANF.	MODEL	SIZE	ACCEPTABLE VALUE
ET-1	TACO	CA84	16"ø x 41" H	12

AIR SEPERATION SCHEDULE				
TAG	MANF.	MODEL	SIZE	NOTES
AS-1	TACO	TENGENTIAL FLANGED	3"	SCREEN INCLUDED

LOUVER & DAMPER DETAIL



UNIT HEATER PIPING DETAIL

