

NOTIFICATION OF POTENTIAL HAZARD

ASBESTOS CONTAINING MATERIAL (ACM) IS PRESENT IN THE BUILDING THAT MAY IMPACT THE WORK OF ALL TRADES. THE CONTRACTOR SHALL REQUIRE THEIR PERSONNEL AND ALL SUBCONTRACTOR PERSONNEL TO COORDINATE WITH OTHER TRADES AND CONDUCT THEIR WORK TO PREVENT WORKER EXPOSURE OR SITE CONTAMINATION. REFER TO DIVISION 01 AND 02 SPECIFICATIONS FOR SPECIFIC INFORMATION CONCERNING REMOVING AND DISPOSING OF THESE MATERIALS AND THE INSTALLATION OF NEW MATERIALS AND COMPONENTS. THIS NOTIFICATION IS PROVIDED IN ACCORDANCE WITH EPA AND OSHA REQUIREMENTS.

AIR INLET/OUTLET SCHEDULE							
SYMBOL	SCFM RANGE	MAX NC	MAX APD (IN WC)	ACTIVE FACE SIZE (INCH)	DUCT SIZE (INCH)	BASIS OF DESIGN	REMARKS
SA	400	23		18X10		TITUS 112RL	STEEL LOUVERED SUPPLY GRILLE: 1-1/4" BLADE SPACING, STD WHITE, OBD. (1)

NOTE:
(1) ADJUST BLADES FOR AIR THROWS AS INDICATED ON DRAWINGS.

LOUVER/HOOD SCHEDULE								
SYMBOL	UNIT AND USAGE	SCFM	SIZE	MIN FREE AREA (SF)	MAX FREE AREA VEL (FPM)	MAX APD (IN WC)	WEIGHT (LBS)	REMARKS, BASIS OF DESIGN
LV-1	BOILER COMBUSTION AIR INTAKE	720	48X24	4.02	180	< 0.02		6 INCH DEEP INTAKE LOUVER. ALUMINUM NON-DRAINABLE BLADES, BIRD SCREEN. STD BOX FRAME. SEE NOTE (1). MFR: RUSKIN ELF375X

NOTE:
(1) KYNAR 500 FINISH. CUSTOM MEDIUM BRONZE COLOR. COORDINATE WITH ARCHITECT.

BOILER SCHEDULE						
SYMBOL	LOCATION	MOTOR (HP,V,PH)	INPUT (MBH)	OUTPUT (MBH)	WEIGHT (LBS)	REMARKS, BASIS OF DESIGN
BLR-1 BLR-2	BOILER ROOM	16FLA,120V	1,500	1,305	1,800	HEATING BOILERS: HIGH EFFICIENCY CONDENSING, GAS-FIRED, SEALED COMBUSTION, 3.0 PSIG PRESSURE DROP AT 175 GPM, MINIMUM 20:1 TURNDOWN, INTEGRAL MASTER/SLAVE BOILER CONTROL FUNCTIONS TO INCLUDE MOTORIZED VALVE CONTROL. 50 PSI RELIEF VALVE. MFR: AERCO BENCHMARK BMK1500

EXPANSION TANK SCHEDULE						
SYMBOL	LOCATION	ACCEPTANCE VOL (GAL)	TANK VOL (GAL)	PRE-CHARGE (PSIG)	WEIGHT (LBS)	REMARKS, BASIS OF DESIGN
ET-1 (E)	BOILER ROOM (1)	211	211	12	2300 WET	HYDRONIC HEATING SYSTEM EXPANSION TANK (EXISTING): (1) BASE MOUNTED IN VERTICAL POSITION. TACO CA800-125
ET-2	MECH RM	11.3	21.7	12	275 WET	GLYCOL HEATING SYSTEM EXPANSION TANK: ASME STAMPED, STEEL SHELL WITH BUTYL DIAPHRAGM, 125 PSI WORKING PRESSURE, 240 DEG F MAXIMUM OPERATING TEMPERATURE. AMTROL AX-40

NOTE:
(1) CONTRACTOR TO REMOVE EXISTING TANK FROM UAA ENERGY MODULE 2 (EM-2) AND RELOCATE TO PROJECT SITE. COORDINATE WITH UAA PROJECT MGR.

HEAT EXCHANGER SCHEDULE														
SYMBOL	LOCATION	HOT SIDE FLUID	GPM	TEMP IN (F)	TEMP OUT (F)	MAX WPD (PSI)	COLD SIDE FLUID	GPM	TEMP IN (F)	TEMP OUT (F)	MAX WPD (PSI)	MIN OUTPUT (MBH)	WEIGHT (LBS)	REMARKS BASIS OF DESIGN
HX-1	MECH RM	WATER	71	185	155	4.30	50%PG	77	180	150	5.40	1,040	1,700	PLATE AND FRAME: 33 PLATES. BELL GOSSETT P47

NOTE:
(1) PROVIDE REMOVABLE INSULATION COVER.

PLUMBING FIXTURE CONNECTION SCHEDULE						
SYMBOL	FIXTURE	WASTE (INCH)	VENT (INCH)	HW (INCH)	CW (INCH)	REMARKS, BASIS OF DESIGN
FS-1	FLOOR SINK	2	1-1/2	-	-	MEDIUM DUTY, CAST IRON, WHITE ACID RESISTANT COATED INTERIOR, NICKEL BRONZE TOP, HALF GRATE, DOME STRAINER.
FD-1	FLOOR DRAIN	3	2	-	-	CAST IRON BODY WITH ADJUSTABLE POLISHED NICKEL BRONZE TOP.

PUMP SCHEDULE								
SYMBOL	LOCATION	SERVICE	FLUID	TEMP. (DEG F)	GPM	HEAD (FT)	MOTOR (HP,V,PH)	REMARKS BASIS OF DESIGN
PMP-1A PMP-1B (1)	MECH RM	MAIN HTG CIRC. PUMP	WATER	180	125	50	5,460,3	VERTICAL CLOSE COUPLED INLINE: EXISTING PUMPS (1) (2)
PMP-4A PMP-4B	MECH RM	GLYCOL LOOP	50% PG	180	77	40	1,5,460,3	CANNED ROTOR PUMP: (3) 1-1/2" FLANGED CONNECTIONS GRUNDFOS UPS 40-240

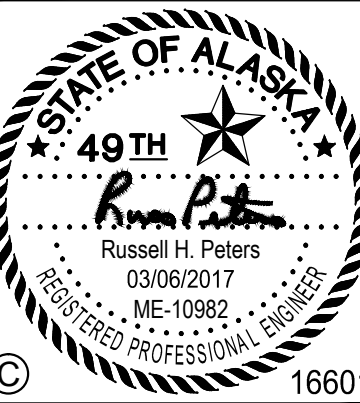
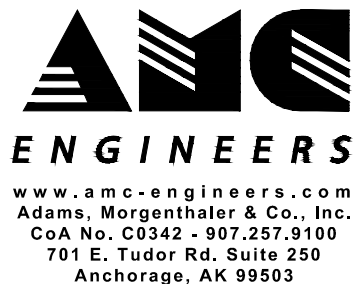
NOTES:
(1) EXISTING PUMPS. DATA PROVIDED FOR REFERENCE ONLY. NO WORK UNDER THIS CONTRACT.
(2) PUMPS SELECTED FOR SIMULTANEOUS PARALLEL PUMP OPERATION - PUMP SPEEDS MODULATED BY INDIVIDUAL VSD'S.
(3) REDUNDANT PUMPS; ONLY ONE OPERATES AT A TIME.

VAV TERMINAL UNIT SCHEDULE										
VAV-NUMBER	LOCATION	AHU	MIN CFM	MAX CFM	EAT (DEG F)	MAX APD (IN WC)	COIL MBH (1)	COIL ROWS (1)	COIL GPM (1)	BOX SIZE (2)
114	MECH RM	AHU-1	230	800	55	-	-	-	-	10

NOTES:
(1) NO REHEAT COIL
(2) BASIS OF DESIGN: TITUS DESV

COIL SCHEDULE							
SYMBOL	LOCATION	CFM	AIR TEMP (IN/OUT)	FLUID TYPE	GPM	FLUID TEMP (IN/OUT)	REMARKS BASIS OF DESIGN
PHC-1 (1)	AHU-1	15,000	-23/41	WATER	77	180/150	EXISTING AHU-1 PREHEAT COIL. (1)

NOTES:
(1) EXISTING COIL. INFORMATION FOR REFERENCE ONLY. NO WORK UNDER THIS CONTRACT.



NSB EM-2 MECHANICAL SYSTEMS CONVERSION/UPGRADE

Revisions		
No.	Date	Description

Design: RHP
 Drawn: ERP/MPL
 UAA Project No.: 16-0103
 Date: 02/17/2017

Sheet Title
SCHEDULES

Sheet Number
M0.2