

MECHANICAL & PLUMBING EQUIPMENT CONNECTION SCHEDULE									
EQUIPMENT TAG	MTR (HP)	HEAT (KW)	TOTAL (MCA)	VOLTAGE PHASE	DISCONNECT SWITCH	WIRE & CONDUIT SIZE	CIRCUIT NUMBER	NOTES	
AIR CONDITIONING UNITS									
AC-04	3	-	6.0	480/3	SEE NOTES	3#10 & 1#10 GND. IN 3/4" C.	BMP4-20.22.24	2	
AC-05	10	-	17.5	480/3	SEE NOTES	3#10 & 1#10 GND. IN 3/4" C.	PBYEA-14.16.18	1	
AC-14	7.5	-	13.8	480/3	SEE NOTES	3#10 & 1#10 GND. IN 3/4" C.	BMP4-14.16.18	1	
AC-45	3.5	-	18	208/3	SEE NOTES	3#10 & 1#10 GND. IN 3/4" C.	3XNA-1	1	
AC-46	2 @ 4.5 HP	-	38	208/3	SEE NOTES	3#8 & 1#10 GND. IN 1" C.	3XNA-16	1	
AC-47	2 @ 5 HP	-	39	208/3	SEE NOTES	3#8 & 1#10 GND. IN 1" C.	3XNA-13	1	
AC-53	5	-	9.5	480/3	SEE NOTES	3#10 & 1#10 GND. IN 3/4" C.	BMP3-7.9.11	1	
AC-54	2 @ 3.5 HP	-	10	480/3	SEE NOTES	3#10 & 1#10 GND. IN 3/4" C.	BMP4-7.9.11	1	
AC96-1	3.0	-	6.0	480/3	SEE NOTES	3#10 & 1#10 GND. IN 3/4" C.	HB1-1.3.5	1	
AC96-2	1.0	-	2.6	480/3	SEE NOTES	3#10 & 1#10 GND. IN 3/4" C.	HB1-7.9.11	1	
TERMINAL UNITS									
TU96-1-1	-	-	0.2	277/1	SEE NOTES	2#12 & 1#12 GND. IN 1/2" C.	HB1-39(SC)	3	
TU96-1-2	-	-	0.2	277/1	SEE NOTES	2#12 & 1#12 GND. IN 1/2" C.	HB1-39(SC)	3	
TU96-1-3	-	-	0.2	277/1	SEE NOTES	2#12 & 1#12 GND. IN 1/2" C.	HB1-39(SC)	3	
TU96-1-4	-	-	0.2	277/1	SEE NOTES	2#12 & 1#12 GND. IN 1/2" C.	HB1-39(SC)	3	
TU96-1-5	-	-	0.2	277/1	SEE NOTES	2#12 & 1#12 GND. IN 1/2" C.	HB1-39(SC)	3	
MAKE-UP AIR UNIT									
MAU-1	1.5	-	8.6	208/3	30A/250V/3P/NF/N3R	3#10 & 1#10 GND. IN 3/4" C.	3XNA-5		
EXHAUST FANS									
EF0-1	1/20	-	0.6	120/1	MOTOR RATED TOGGLE SW.	2#10 & 1#10 GND. IN 3/4" C.	SEE NOTES	4	
EF1-1	1/10	-	1.0	120/1	MOTOR RATED TOGGLE SW.	2#10 & 1#10 GND. IN 3/4" C.	SEE NOTES	4	
EF1-2	1/12	-	1.0	120/1	MOTOR RATED TOGGLE SW.	2#10 & 1#10 GND. IN 3/4" C.	SEE NOTES	4	
EF1-3	1/6	-	5.5	120/1	MOTOR RATED TOGGLE SW.	2#10 & 1#10 GND. IN 3/4" C.	SEE NOTES	5	
EF3-1	1.5	-	8.6	208/3	30A/250V/3P/NF/N3R	3#10 & 1#10 GND. IN 3/4" C.	3XNA-7		
EF3-2	1.5	-	8.6	208/3	30A/250V/3P/NF/N3R	3#10 & 1#10 GND. IN 3/4" C.	3XNA-9		
EF4-1	1/6	-	5.5	120/1	MOTOR RATED TOGGLE SW.	2#10 & 1#10 GND. IN 3/4" C.	SEE NOTES	5	
EF4-2	1/6	-	5.5	120/1	MOTOR RATED TOGGLE SW.	2#10 & 1#10 GND. IN 3/4" C.	SEE NOTES	5	
EF5-1	1/6	-	5.5	120/1	MOTOR RATED TOGGLE SW.	2#10 & 1#10 GND. IN 3/4" C.	SEE NOTES	5	
EF6-1	1/20	-	0.6	120/1	MOTOR RATED TOGGLE SW.	2#10 & 1#10 GND. IN 3/4" C.	SEE NOTES	4	

GENERAL NOTES:
1. VERIFY ELECTRICAL REQUIREMENTS WITH MECHANICAL/PLUMBING EQUIPMENT SUBMITTALS PRIOR TO ROUGH-IN.
2. DISCONNECTING MEANS NOT REQUIRED IF OVERCURRENT PROTECTION DEVICE IS WITHIN SIGHT (50'-0" AND LINE OF SIGHT).

- NOTES:
1. EXTEND CIRCUIT THROUGH COMBINATION DISCONNECT SWITCH / VARIABLE FREQUENCY DRIVE, FURNISHED BY DIVISION 23 AND CONNECTED BY DIVISION 26.
2. EXTEND CIRCUIT THROUGH VARIABLE FREQUENCY DRIVE, FURNISHED BY DIVISION 23 AND CONNECTED BY DIVISION 26.
3. PROVIDE 277V POWER FOR TERMINAL UNIT ACTUATOR.
4. PROVIDE 120-VOLT POWER FOR EXHAUST FAN MOTOR AND CONNECT TO NEAREST 120-VOLT NORMAL POWER BRANCH CIRCUIT.
5. PROVIDE 120-VOLT POWER FOR EXHAUST FAN MOTOR AND CONNECT TO AVAILABLE SPARE 20A/1P CIRCUIT BREAKER IN NEAREST 120-VOLT NORMAL POWER PANELBOARD.
PROVIDE A 20A/1P CIRCUIT BREAKER, COMPATIBLE WITH EXISTING PANEL, IF ONE IS NOT AVAILABLE.

EXISTING PANEL 'PBYEA'												
PROJECT :	VA Kernville	MAIN CIRCUIT BREAKER :	ENCLOSURE :	NEMA 1	0	RECP	5	HEAT				
PROJECT # :	1140201	MAIN LUGS ONLY :	225A	1	LTG	6	AC					
LOCATION :	MECH. RM. FOR AC-5	BUSING :	225A	2	EQUIP	7	KTCH					
NOTES :		VOLTAGE :	480V, 3PH, 3W	3	MTR	8	ELEV					
SCHEDULE DATE :	09/13/12	INTERRUPTING :	18 kAIC RMS SYM	4	COMP	9	125%					
CRKT	AMPS	POLE	CIRCUIT DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION	AMPS	POLE	CRKT
1	40	3	EXISTING VACUUM			A			EXISTING LOAD	40	3	2
3	-	-	-			B			-	-	-	4
5	-	-	-			C			-	-	-	6
7	20	3	EXISTING MEDICAL AIR COMPRESSOR			A			SPARE	20	3	8
9	-	-	-			B			-	-	-	10
11	-	-	-			C			-	-	-	12
13	40	3	EXISTING MEDICAL AIR			A	3	3.879	NEW AC #05	*25	3	14
15	-	-	-			B	3	3.879	-	-	-	16
17	-	-	-			C	3	3.879	-	-	-	18
19	30	3	SPARE			A			EXISTING LOAD	30	3	20
21	-	-	-			B			-	-	-	22
23	-	-	-			C			-	-	-	24
25	20	3	EXISTING LOAD			A	3	775	NEW AC #05A	*15	3	26
27	-	-	-			B	3	775	-	-	-	28
29	-	-	-			C	3	775	-	-	-	30
31	-	-	SPACE			A			SPARE	70	3	32
33	-	-	SPACE			B			-	-	-	34
35	-	-	SPACE			C			-	-	-	36
37	20	3	EXISTING BAILER			A			SPARE	40	3	38
39	-	-	-			B			-	-	-	40
41	-	-	-			C			-	-	-	42
				PANEL VA	SUB FEED	FEED THRU	TOTAL CONN	VA	AMPS	NOTES: * PROVIDE A NEW CIRCUIT BREAKER, COMPATIBLE WITH EXISTING PANEL, TO SERVE LOAD INDICATED.		
PHASE A				4,654	0	0	4,654	4,654	17			
PHASE B				4,654	0	0	4,654	4,654	17			
PHASE C				4,654	0	0	4,654	4,654	17			
TOTAL				13,962	0	0	13,962	13,962	17			
GOETTING & ASSOCIATES RT1.0												

EXISTING PANEL 'HB1'												
PROJECT :	VA Kernville	MAIN CIRCUIT BREAKER :	150A	ENCLOSURE :	NEMA 1	0	RECP	5	HEAT			
PROJECT # :	1140201	MAIN LUGS ONLY :		MOUNTING :	SURFACE	1	LTG	6	AC			
LOCATION :	MECH. RM. BLDG 96 PAVILION	BUSING :	250A	CB TYPE :	BOLT-ON	2	EQUIP	7	KITCH			
NOTES :		VOLTAGE :	480/277V, 3PH, 4W	PROVIDE :		3	MTR	8	ELEV			
SCHEDULE DATE :	09/13/12	INTERRUPTING :	18 kAIC RMS SYM			4	COMP	9	125%			
CRKT	AMPS	POLE	CIRCUIT DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION	AMPS	POLE	CRKT
1	*15	3	EXISTING HEAT PUMP #1 (LABEL AS AC96-1)	1,330	3	B	-	-	EXISTING HEAT PUMP #2 (LABEL AS SPARE)	15	3	2
5	-	-	-	1,330	3	C	-	-	-	-	-	6
7	*15	3	EXISTING HEAT PUMP #3 (LABEL AS AC96-2)	581	3	B	-	-	EXISTING AHU #3 (LABEL AS SPARE)	15	3	8
9	-	-	-	581	3	C	-	-	-	-	-	10
11	-	-	-	-	-	-	-	-	-	-	-	12
13	15	3	EXISTING AHU #1 (LABEL AS SPARE)	-	-	A	-	-	EXISTING AHU #2 (LABEL AS SPARE)	15	3	14
15	-	-	-	-	-	B	-	-	-	-	-	16
17	-	-	-	-	-	C	-	-	-	-	-	18
19	15	3	EXISTING STRIP HEAT #2 (LABEL AS SPARE)	-	-	A	-	-	SPARE	20	1	20
21	-	-	-	-	-	B	-	-	SPARE	20	1	22
23	-	-	-	-	-	C	-	-	SPARE	20	1	24
25	15	3	EXISTING STRIP HEAT #1 (LABEL AS SPARE)	-	-	A	-	-	EXISTING LIGHTING	20	1	26
27	-	-	-	-	-	B	-	-	EXISTING LIGHTING	20	1	28
29	-	-	-	-	-	C	-	-	SPARE	20	1	30
31	15	3	EXISTING STRIP HEAT #3 (LABEL AS SPARE)	-	-	A	-	-	EXISTING LIGHTING	20	1	32
33	-	-	-	-	-	B	-	-	EXISTING LIGHTING	20	1	34
35	-	-	-	-	-	C	-	-	BUSSED SPACE	20	1	36
37	20	1	BUSSED SPACE TU96-1, 2, 3 & 5	-	-	A	-	-	BUSSED SPACE	20	1	38
39	20	1	-	200	2	B	-	-	BUSSED SPACE	20	1	40
41	20	1	EXISTING MECHANICAL ROOM LTG	-	-	C	-	-	BUSSED SPACE	20	1	42
EXISTING MECHANICAL ROOM LTG												
				PANEL VA	SUB FEED	FEED THRU	TOTAL CONN	TOTAL DEMAND	VA	AMPS	NOTES: * UTILIZE EXISTING CIRCUIT BREAKER TO SERVE NEW LOAD.	
PHASE A				1,911	0	0	1,911	1,911	7			
PHASE B				2,111	0	0	2,111	2,111	8			
PHASE C				1,911	0	0	1,911	1,911	7			
TOTAL				5,933	0	0	5,933	5,933	7			

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EXISTING PANEL 'BMP3'												
PROJECT :	VA Kernville	MAIN CIRCUIT BREAKER : 150A		ENCLOSURE : NEMA 1				0	RECP	5	HEAT	
PROJECT # :	1140201	MAIN LUGS ONLY :		MOUNTING : SURFACE				1	LTG	6	AC	
LOCATION :	BASCEMENT 099C TOWER	BUSING : 250A		CS TYPE : SOLT-ON				2	EQUIP	7	KITCH	
NOTES :		VOLTAGE : 480/277V, 3PH, 4W		PROVIDE :				3	MTR	8	ELEV	
SCHEDULE DATE :	09/13/12	INTERRUPTING : 25 kAIC RMS SYM						4	COMP	9	125%	
CRKT	AMPS	POLE	CIRCUIT DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION	AMPS	POLE	CRKT
1	30	3	EXISTING ACU-4C				A		EXISTING ACU-3C	30	3	2
3	-	-	-				B		-	-	-	4
5	-	-	-				C		-	-	-	6
7	*15	3	NEW ACU-5C (AC-53)	3.048	3		A		EXISTING ACU-2C	30	3	8
9	-	-	-	3.048	3		B		-	-	-	10
11	-	-	-	3.048	3		C		-	-	-	12
13	30	3	EXISTING ACU-4C				A		EXISTING ACU-1C	30	3	14
15	-	-	-				B		-	-	-	16
17	-	-	-				C		-	-	-	18
19	30	3	SPARE				A		EXISTING ACU-BASEMENT	30	3	20
21	-	-	-				B		-	-	-	22
23	-	-	-				C		-	-	-	24
25	20	1	BUSSED SPACE				A		BUSSED SPACE	20	1	26
27	20	1	BUSSED SPACE				B		BUSSED SPACE	20	1	28
29	20	1	BUSSED SPACE				C		BUSSED SPACE	20	1	30
31	20	1	BUSSED SPACE				A		BUSSED SPACE	20	1	32
33	20	1	BUSSED SPACE				B		BUSSED SPACE	20	1	34
35	20	1	BUSSED SPACE				C		BUSSED SPACE	20	1	36
37	20	1	BUSSED SPACE				A		BUSSED SPACE	20	1	38
39	20	1	BUSSED SPACE				B		BUSSED SPACE	20	1	40
41	20	1	BUSSED SPACE				C		BUSSED SPACE	20	1	42
NOTES :												
* PROVIDE A NEW CIRCUIT BREAKER COMPATIBLE WITH EXISTING PANEL TO SERVE NEW												
LOAD INDICATED.												
PHASE A		3.048	0	0	3.048	3.048	11					
PHASE B		3.048	0	0	3.048	3.048	11					
PHASE C		3.048	0	0	3.048	3.048	11					
TOTAL		9.144	0	0	9.144	9.144	11					
GOETTING & ASSOCIATES R1.0												